



This map represents a preliminary compilation of the Kootenay River map-sheet on a scale of 1:1,000,000. The final compilation may result in some different definition of map-units with greater detail and different emphasis. Many interpretations presented herein may be significantly altered in the final compilation. Information on sedimentary and volcanic rocks was compiled under the direction of A.V. Okulitch. The information on the plutonic rocks was compiled by G.J. Woodsworth, R.A. Price, Queens University, R.G. Yates, J.E. Harrison, and K.E. Fox. U.S. Geological Survey, and G.B. Leech, Geological Survey of Canada provided extensive assistance. Literature search, compilation, reduction and drafting were carried out mainly by Denis Villeneuve.

EXPLANATION
THRUST FAULTS (defined, approximate)
NORMAL FAULTS
FAULTS (mainly normal)
GEOLOGICAL CONTACTS

COMPILED BY
A.V. Okulitch and G.J. Woodsworth
SOURCE OF INFORMATION
Published and unpublished maps and reports of Geological Survey of Canada, United States Geological Survey, and B.C. Dept. of Mines and Petroleum Resources.

LEGEND

SEDIMENTARY, METAMORPHIC & VOLCANIC ROCKS

- QUATERNARY AND RECENT: Q Glacial deposits, recent alluvium
- TERTIARY: Q Glacial deposits, recent alluvium
- MIocene-PLIOcene: mpIv Basalt, plateau lava, minor sediments. COLUMBIA R. Lavas
- Eocene-Oligocene: eoIv Basalt, andesite, volcaniclastic and flow rocks, minor sediments. KAMLOOPS and PRINCE GEORGE; SANPOIL Volcanics, KLODKE Mtn. and O'BRIEN CK. Fms.
- PALEOCENE: eoTs Sandstone, conglomerate, tuff. KAMLOOPS Group; KISHENEH, KETTLE R., and SOPHIE Mtn. Fms.
- CRETACEOUS: pIv Sandstone, shale. PORCUPINE HILLS and PASKAPOO Fms.
- UPPER CRETACEOUS: uKs Sandstone, shale. ALBERTA Groups EDMONTON, BRAZEAU, BELLY R., WILLOW CK., ST. MARY R., BEARPAW, MILK R., KOOTENAI, etc. Fms.
- LOWER CRETACEOUS: lKs Sandstone, shale, coal, conglomerate, volcanic breccia. BLATHMORE Group; CROWNEST Fm.
- JURASSIC-CRETACEOUS: jKs Sandstone, siltstone, mudstone, coal, conglomerate. KOOTENAI and NIKAHASSIN Fms.
- JURASSIC: jF Shale, siltstone, sandstone, limestone. FERNIE Group (includes HILL Fm. in the Nelson map-area).
- TRIASSIC-JURASSIC: rJv Greenstone, tuff, augite, sediments. NICOLA and ROSSLAND Groups; ELISE and ARCHIBALD Fms.
- TRIASSIC: rJs Shale, argillite, limestone, conglomerate, schist, sandstone. NICOLA, SLOCAN, ROSSLAND and YNIP Groups; SICAMOUS and ARCHIBALD Fms.
- PERMIAN-TRIASSIC: pRv Greenstone, basalt, andesite, lava, tuff, breccia, serpentinite. KASLO Group; TSALIKOM Fm.
- CARBONIFEROUS-PERMIAN: pPt Argillite, quartzite, greenstone, limestone, conglomerate. TOMPKIN Assemblage (including CACHE CREEK eastern facies), CHAPPEKON, KODAU and ANARCHIST Groups; MT. ROBERTS Fm.
- PERMIAN: pPcc Limestone, greenstone, chert, argillite. CACHE CREEK Group (western type facies).
- MS Slate, argillite, chert, schist, limestone, conglomerate. MILFORD Group; FLAGSTAFF Mtn. Sequence.
- DEVONIAN-MISSISSIPPIAN: dMs Greenstone, pillow lava, limestone, shale. SLIDE Mtn. Group; FENNEL and GUYET Fms.
- DEVONIAN to TRIASSIC: dRs Triassic shale, sandstone, limestone. SPRAY R. Group. PENNSYLVANIAN-PERMIAN sandstone, shale, chert. ROSEY Mtn. Group. MISSISSIPPIAN limestone, shale. RUNDLE Group; BANFF, EXSHAW, ETHERINGTON, MT. HEAD, LIVINGSTON, WANNIN, etc. Fms. UPPER DEVONIAN limestone, sandstone, shale. FAIRHOLME Group; PALLISER, and ALEXO Fms.
- CAMBRIAN-DEVONIAN (pelitic facies): cDp Devonian limestone, shale. STARBIRD, Mt. FORSTER, HARROGATE and CEDAR Fms. ORDOVICIAN-SILURIAN limestone. BEAVERFOOT Fm. ORDOVICIAN sandstone, shale. MT. NELSON and GLENDOLE Fms. UPPER CAMBRIAN-ORDOVICIAN limestone, shale. McRAY Group. UPPER CAMBRIAN shale, limestone. CANYON CK., OTTERTAIL, JUBILEE and CHANCELLOR Fms.
- CAMBRIAN-SILURIAN (carbonate facies): cCc OrdoVICIAN-SILURIAN limestone. BEAVERFOOT Fm. ORDOVICIAN limestone, shale. MT. NELSON, OREN CK., SKOKI, OUBRAM and SURVEY Pk. Fms. UPPER CAMBRIAN limestone, shale. LYNX Group. MIDDLE CAMBRIAN limestone, shale. ARCTOMYS, PIVA, ELDON, CATHEDRAL, STEPHEN, MT. WHITE Fms.
- LOWER PALEOZOIC: lPs Argillite, limestone, schist, phyllite, greenstone. LARDEAU Group; BRADSHAW, TAGLE BAY, NELSON, METALINE and ACTIVE Fms.; LEDBETTER Slate, GRASS Mtn. Sequence.
- LOWER CAMBRIAN: lCs Quartzite, limestone, phyllite, argillite. HAVILL and GOG Groups; EAGER, BADSHOT, MOHICAN, DONALD, RENO, LAID, QUARTZITE RANGE Fms.; MATTLEN Phyllite, EMERALD and REEVES Limestone Members.

- PALEOZOIC (and older): Pns Orthogneiss, foliated and massive granitic rocks, paragneiss, schist, minor amphibolite and marble. OKANAGAN Metamorphic and Plutonic Complex.
- Pgn Orthogneiss. OKANAGAN Metamorphic and Plutonic Complex.
- PROTEROZOIC-PALEOZOIC: PPs Paragneiss, schist, amphibolite, marble, orthogneiss, pegmatite. SHUSwap Metamorphic Complex.
- PPgn Gneissic granitoid rocks, layered gneiss. Zone zones of Inor-Duin and Frenchman's Cap zones, Shuswap Metamorphic Complex.
- PROTEROZOIC MOUNTAIN (WINDERMERE): Hs Sandstone, conglomerate, limestone, grit, minor volcanic rocks. MIETTE and HORSESHOE CK. Groups; TOBY, SHEDROOF, and MUNK Fms.; IRENE and LOOLA Volcanics, Silver Creek and Chase Fms. near Shuswap Lake.
- HELIKIAN (BELT-PURCELL): Hs Quartzite, dolomite, conglomerate, sandstone, shale. BELT-PURCELL Supergroup undivided; PRIEST R. Group.
- Hns Paragneiss, schist. BELT-PURCELL Supergroup.
- Hsu Quartzite, argillite, dolomite, limestone, siltstone. MISSOULA Group; MT. NELSON, DUTCH CK., GATEWAY, PHILLIPS and ROOSEVILLE Fms.
- Hsm Limestone, argillite, quartzite, andesite breccia, tuff. SLYKE, KITCHENER, WALLACE, HELENA, SHEPPARD Fms.; PURCELL Lava.
- Hsl Quartzite, argillite, siltstone. RAVALLI Group; CRESTON, ALDRIDGE, FORT STEELE, FRITCHARD, WATERTON, APPERKUNY, ALTYN, GRINWELL and WERNER Pk. Fms.

- PLUTONIC ROCKS
- CRETACEOUS AND/OR TERTIARY: cTm CRYVELL intrusions: monzonite, monzodiorite; lesser syenite, diorite, granodiorite, quartz monzonite.
- KTgd Predominantly granodiorite, quartz diorite; lesser diorite, monzonite, quartz monzonite, gneiss, migmatite.
- KTgm Quartz monzonite, granite, alkalis; lesser granodiorite, quartz diorite, gneiss, migmatite.
- CRETACEOUS AND/OR MID-CRETACEOUS: EKgd Quartz monzonite, granite; lesser granodiorite, quartz diorite.
- EKgd Granodiorite, quartz diorite; lesser quartz monzonite.
- JURASSIC AND/OR LATE JURASSIC: Jgm Quartz monzonite, lesser granodiorite.
- JS HUSKANAN BATHOLITH: syenite, leuco-monzonite, leuco-quartz monzonite.
- Jg Granodiorite, quartz diorite, lesser quartz monzonite.
- PALEOZOIC (LATE PALEOZOIC (mainly)): Pub ultramafic rocks; peridotite, serpentinite.
- MIDDLE AND/OR LATE PALEOZOIC (?): PIR ICE RIVER COMPLEX: syenite, feldspar, Jacupirangite, gneiss.
- Pgd ADAMANT PLUTON: granodiorite, quartz monzonite.
- Pmz ADAMANT PLUTON: monzonite, monzodiorite.
- Pgn Granodiorite, quartz monzonite, quartz diorite, gneiss, migmatite.
- DEVONIAN: Dg Gneissic granitic rocks. MT. FOKLER Batholith, CLACHAGUADIN Gneiss.
- PROTEROZOIC: Pgd HELLROARING STOCK: granodiorite.
- McDg THOR-ODIN Orthogneiss

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

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