Yukon Geological Survey

Yukon

Note: legend contains geological information for the map extent and not the surrounding area.

MINERAL OCCURRENCE

- Deposit
- Historic Deposit
- Significant exploration project

GEOCHRONOLOGY METHOD

- U/Pb, Zircon
- U/Pb, Other
- Ar/Ar
- K/Ar

LOWER TERTIARY, MOSTLY(?) EOCENE

- ITR5: ROSS: gabbro
- ITR4: ROSS: quartz-feldspar porphyry and rhyolite
- ITR3: ROSS: brown, thin-bedded, claystone, siltstone, shale and coal
- ITR2: ROSS: rhyolite flows, tuff, ash-flow tuff and breccia
- ITR1: ROSS: dark grey-green olivine basalt necks and flows

MID-CRETACEOUS

- mKqM: MAYO SUITE: Bt granite; K-feldspar porphyritic granite
- mKqTR: TAY RIVER SUITE: Bt ± Hbl (± clinopyroxene) monzogranite
- mKgTR: TAY RIVER SUITE: granodiorite
- mKqA: ANVIL SUITE: K-feldspar megacrystic, biotite ± muscovite monzogranite
- mKgC: CASSIAR SUITE: Bt ± Hbl ± titanite-bearing monzogranite to granodiorite
- KSF: SOUTH FORK: welded, biotite-quartz-hornblende-feldspar crystal tuff

LOWER AND MIDDLE JURASSIC, HETTANGIAN TO BAJOCIAN

- JFP4: FARO PEAK: massive, dark green aphanitic basalt
- JFP3: FARO PEAK: dark grey carbonaceous, locally calcareous, shale and siltstone
- JFP2: FARO PEAK: interbedded cherty argillite, chert, sandstone, mafic greywacke, conglomerate
- JFP1: FARO PEAK: resistant, massive polymictic conglomerate

MIDDLE TO UPPER TRIASSIC

- TrJ2: JONES LAKE: bioclastic limestone and interbedded sandy or silty limestone
- TrJ1: JONES LAKE: calcareous siltstone, shale, and fine sandstone

PERMIAN - LOWER TRIASSIC

- PTrSL1: SIMPSON LAKE: polymictic conglomerate, sandstone, dark grey siltstone and shale

CARBONIFEROUS TO PERMIAN

- CPSM4: SLIDE MOUNTAIN: brown weathering, variably serpentinized ultramafic rocks
- CPSM3: CAMPBELL RANGE: grey, red and green chert and argillite
- CPSM2: CAMPBELL RANGE: dark green to black basalt, greenstone, locally pillowed
- CPSM1: FORTIN CREEK: dark grey to black carbonaceous phyllite, chert and argillite
- CPMC: MOUNT CHRISTIE: burrowed, interbedded greenish grey cherty shale and green shale

CARBONIFEROUS

- CT1: TSICHU/KENO HILL: massive to thick-bedded quartz arenite
- CK3: KLINKIT: arkosic sandstone, basal polymictic metaconglomerate
- CK2: KLINKIT: limestone, marble, locally fossiliferous
- CK1: KLINKIT: mafic to intermediate metavolcaniclastic and metavolcanic rocks; minor felsite

MISSISSIPPIAN

- MT1: TAY: calcareous, dark grey to brown siltstone and shale
- MqSR: SIMPSON RANGE SUITE: foliated metagranite, quartz monzonite and granodiorite; augen granite

DEVONIAN, MISSISSIPPIAN AND(?) OLDER

- DMF3: FINLAYSON: dark grey to black carbonaceous metasedimentary rocks, metachert
- DMF1: FINLAYSON: intermediate to mafic volcanic and volcaniclastic rocks

UPPER DEVONIAN TO LOWER MISSISSIPPIAN

- DMEC2: EARN - CASSIAR: apple green and dark grey, thin-bedded chert and cherty tuff
- DMEC1: EARN - CASSIAR: black siliceous slate, quartz-chert greywacke, grit and conglomerate

DEVONIAN AND MISSISSIPPIAN

- DME: EARN: black siliceous shale and chert
- DME6: EARN?: bioclastic limestone conglomerate
- DME3: EARN: felsic to intermediate volcanic flows, tuffs and subvolcanic plug(s)
- DME2: EARN: silvery blue weathering black shale, argillite, cherty argillite and chert
- DME1: EARN: laminated slate, fine to medium-grained chert-quartz arenite and wacke
- DMgE: EARN SUITE: Cpx ± Hbl gabbro and porphyry

MIDDLE SILURIAN TO MIDDLE DEVONIAN

- SDA2: ASKIN: dolostone, silty and sandy dolostone, limestone
- SDA1: ASKIN: dolomitic siltstone, dolomitic fine-grained sandstone

ORDOVICIAN TO DEVONIAN, LOCALLY ?MISSISSIPPIAN

- ODRC1: ROAD RIVER - CASSIAR: recessive, black, locally calcareous, fissile, graptolitic shale; quartz arenite, basalt

ORDOVICIAN TO LOWER DEVONIAN

- ODR: ROAD RIVER - SELWYN: black shale and chert, dolomitic siltstone, calcareous shale, buff platy limestone
- ODR2: STEEL - SELWYN: rusty dark green to orange buff weathering argillite and dolomitic siltstone
- ODR1: DUO LAKE/ELMER CREEK - SELWYN: black graptolitic shale and black chert

CAMBRIAN TO DEVONIAN OR YOUNGER

- CDS5: ST. CYR: orange to dark blue-grey phyllite and phyllitic limestone
- CDS3: ST. CYR: calcareous graphitic "sooty" slate and silty shale
- CDS1: ST. CYR: calcareous shale and silty limestone

CAMBRIAN TO SILURIAN

- CSM9: MENZIE CREEK/DEMPSTER: gabbro, pyroxenite
- CSM3: DEMPSTER: mafic volcanic flows, tuff and hyaloclastic breccia
- CSM2: MARMOT: amygdaloidal basaltic flows and breccia
- CSM1: MENZIE CREEK: massive, locally pillowed, dark grey-green basalt, tuff and breccia

UPPER CAMBRIAN AND ORDOVICIAN

- COK1: KECHIKA: thin-bedded, lustrous, calcareous, grey slate, phyllite, limestone
- COR3: RABBITKETTLE: basalt
- COR1: RABBITKETTLE: thin-bedded, silty limestone and grey lustrous calcareous phyllite

LOWER CAMBRIAN

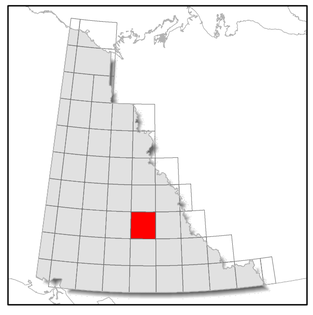
- ICG3: GULL LAKE: marble, calc-silicate
- ICG2: GULL LAKE: mafic metavolcanic and volcaniclastic rocks
- ICG1: GULL LAKE: shale, siltstone and mudstone, minor quartz sandstone
- ICR: ROSELLA: resistant, thick-bedded to massive, limestone and argillaceous limestone

NEOPROTEROZOIC AND PALEOZOIC

- PDS5: SNOWCAP: psammite, quartzite and amphibolite metamorphosed to eclogite, blueschist
- PDS3: SNOWCAP: amphibolite, commonly garnet-bearing; greenstone
- PDS2: SNOWCAP: light grey to buff weathering marble

NEOPROTEROZOIC TO LOWER CAMBRIAN

- PCH7: NARCHILLA: interbedded maroon and apple-green slate, siltstone, sandstone
- PCH6: ALGAE: grey weathering, very fine crystalline limestone, locally sandy
- PCH5: YUSEZYU: brown to pale green shale, quartz-rich sandstone, grit, pebble conglomerate
- PCI4: INGENIKA?: thin bedded slate, siltstone, quartzite, minor limestone



1:250 000-scale base data produced by CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA

30 metre shaded relief from Geomatics Yukon www.geomaticsyukon.ca

BEDROCK GEOLOGY
TAY RIVER (105K)
YUKON

0 5 10 15 20 25
kilometres

These maps contain the most current bedrock geology information in Yukon. All geological data are from the Yukon Geological Survey and available free of charge. Data are from recent mapping, regional compilations and thesis work.

The geological data used to create these maps can be downloaded at https://data.geology.gov.yk.ca/Compilation/3.

These maps are subject to periodic updates. This map was last updated in February 2022.

The Yukon Geological Survey welcomes any revisions or new geological information. Any questions or comments can be directed to geology@gov.yk.ca.