



LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

CENOZOIC

- OLIGOCENE (O)
- PALEOCENE AND EOCENE (E)
- TERTIARY (T)
- UPPER CRETACEOUS (Ku)
- LOWER CRETACEOUS (Kl)
- JURASSIC (J)
- TRIASSIC (Tr)
- MESOZOIC (Undivided) (M)

PALAEZOIC

- CARBONIFEROUS AND PERMIAN (C)
- PENNSYLVANIAN (Cp)
- MISSISSIPPIAN (Cm)
- DEVONIAN AND CARBONIFEROUS (DC)
- DEVONIAN (D)
- SILURIAN (S)
- ORDOVICIAN (O)
- CAMBRIAN (C)
- PALAEZOIC (Undivided) (P)

PRECAMBRIAN

- LATE PROTEROZOIC (Eu)
- EARLY PROTEROZOIC (E)
- PROTEROZOIC (Undivided) (E)
- ARCHAEAN (As)
- ARCHAEAN (Undivided) (A)

INTRUSIVE ROCKS

- MESOZOIC AND CENOZOIC (7, 6)
- PALAEZOIC (5)
- PROTEROZOIC (4, 3)
- ARCHAEAN AND/OR PROTEROZOIC (2, 1)

CENOZOIC

OLIGOCENE (O)

Sedimentary rocks (Cypress Hills)

PALEOCENE AND EOCENE (E)

Sedimentary rocks (Kona, Ptakapoo, Ravenscar)

TERTIARY (T)

Volcanic rocks ("Newer volcanics", Carmacks, Togo, Mikoy, Tumb, Copahulla, Merron. May include some Upper Cretaceous rocks)

Sedimentary rocks (Stonon, French Bar, Coldwater, Curry Creek, White Lake)

MESOZOIC (Undivided) (M)

Sedimentary and volcanic rocks (Prince Rupert, Valdez, Marble Bay, Britannia, Eldorado, Spruce Bridge, Ashville. May include some Palaeozoic rocks)

MESOZOIC

UPPER CRETACEOUS (Ku)

Mainly sedimentary rocks (Nahatho, Duvogon, Wapiti, Edmonton, Bearpaw, Belly River, Pakowits, Milk River, St. Mary River, Alberta, Crossman volcanics, Bransay, Riding Mountain, Vermilion River, Fave, Boisvein. In part marine, in part non-marine)

LOWER CRETACEOUS (Kl)

Mainly sedimentary rocks (Haida, Jacksons Mountain, Dendrey Creek, Flanagan, Kootenay, Blaineau, Wilkeson, Bullhead, Fort St. John. In part marine, in part non-marine. Includes some Triassic and Jurassic beds south of Peace River)

CRETACEOUS (Undivided) (K)

Sedimentary rocks

JURASSIC (J)

Sedimentary and volcanic rocks (Laberge, "Older Volcanics", Mistou, Yukon, Blanton, Okoma, McLeod, Quenell River, Ladner, Agassiz, Fort St. John. Includes considerable Lower Cretaceous and some Triassic rocks)

TRIASSIC (Tr)

Sedimentary and volcanic rocks (Lewas River, Vancouver, Nicola, Palomares, Bonfield, Beaver Mountain, Cadwallader, Sloon, Kato, Spray River, Schuster Creek, Quao, Includes some Jurassic rocks north of Lat. 70°. May include some Palaeozoic limestone in southeastern Yukon)

MESOZOIC (Undivided) (M)

Sedimentary and volcanic rocks (Prince Rupert, Valdez, Marble Bay, Britannia, Eldorado, Spruce Bridge, Ashville. May include some Palaeozoic rocks)

PALAEZOIC

CARBONIFEROUS AND PERMIAN (C)

Sedimentary and volcanic rocks (Deane, Cache Creek, Rossman, Chikwauk, Bridge River, Slide Mountain, Wallace, Kobus, Barff, Rundle)

PENNSYLVANIAN (Cp)

Sedimentary rocks (Canoa, Riverdale, Cumberland, Fenton, Sedgwick and Kory, Little River, Hopewell Shale and Shrop, Petalocollis Bone Point and Grand Ave, Mabou, Inverness, Maple, Bonaventure to Clifton, Grand Lake)

MISSISSIPPIAN (Cm)

Sedimentary rocks (Memramook, Albert, Middleborough, Moncton, Rimouski, Horton, Windsor. May include some Pennsylvanian beds)

DEVONIAN AND CARBONIFEROUS (DC)

Sedimentary rocks (Monashee, Pisholme and Pallas, Estabro, Rocky Mountain. Includes some Cambrian and Mesozoic rocks in Rocky Mountain region)

DEVONIAN (D)

Sedimentary and volcanic rocks (Dallois, Gagne, Desnoyers, Spaulding, District River, Ontario, Onondaga to Rivette Point, Elm Point to Montebello, Pine Point to Slave Point, Beaverfall, Port Creek, Hay River, Lake Athabasca)

SILURIAN (S)

Sedimentary rocks (Anticostan, Kenzieville, Chateau Bay, Ariswig, Medina, Whitpool to Thondu, Neoparan, Giron, to South, Capreol, Ontario, and Davis, Ontario, Fitzgerald, Franklin Mountain to Lone Mountain. May include some Devonian beds north of Lat. 70°)

ORDOVICIAN (O)

Sedimentary rocks (Richmond, Matapédia, Montford, Quersion, Laskow, Dundas, Utica, Black River and Tremont, Paspéche, Ottawa, Chazy, Beekmantown, Silurian, Lewis, Napoleon to Oxford, Beauveville, St. Francis)

CAMBRIAN (C)

Sedimentary rocks (St. John, Lone Land to Saline River, Quatrefoil, Gagne, Fairview to St. White, Cathedral to Ottertail, Fort Mountain to Jubilee)

PALAEZOIC (Undivided) (P)

Mainly sedimentary rocks (Mainly early Palaeozoic north of Lat. 60°, but includes Cape Rowan beds. Includes some Mesozoic and Precambrian rocks in eastern Yukon. Includes formations of possible Precambrian age along Yukon-Alaska boundary. Wide belt in Rocky Mountains is mainly early Palaeozoic and includes some Precambrian rocks)

PRECAMBRIAN

LATE PROTEROZOIC (Eu)

Sedimentary and volcanic rocks (Coppermine River, Etan, Boreby Bay, Athabasca, Windermere, Anahk, Keweenaw, Whitewater, Mistassini, Moynan)

EARLY PROTEROZOIC (E)

Mainly sedimentary rocks (Nancho, Great Slave, Shure, Beauverge, Parvul, Buronian, Moffin, Bruce, Cobalt, Chibougamau)

PROTEROZOIC (Undivided) (E)

Mainly sedimentary rocks (Yukon, Sasina, Klondike in part, Riviere Epervier dolomite, Goulburn quartzite, Fennell, Caribou, Badger Creek, Barriere, Hector, Corral Creek, Goldbrook. Includes some Cambrian beds in Caribou district, British Columbia)

ARCHAEAN (As)

Sedimentary and derived metamorphic rocks (Tolovukite in part, Point Lake-Wilson Island, Tatin, Nainault in part, Mist, Rice Lake in part, Klappan quartzite in part, Timiskaming, Seton, Doré, Touching, Abg, Grenville, Huronian)

ARCHAEAN (Undivided) (A)

Sedimentary, volcanic, and metamorphic rocks (Aniak, Hokueka in part, Rayer River, Rice Lake in part, Kowatin, Abitibi)

INTRUSIVE ROCKS

MESOZOIC AND CENOZOIC

- 7 Acid rocks (Coast Range intrusive rocks; Klondike series in part; Omineca, Galian, Bender and Nelson batholiths; Ottawa granite and gneissic rocks; Kruger, Kaskapau, and Rossland alkaline intrusions. May be in part of pre-Mesozoic age)
- 6 Basic and ultrabasic rocks (Moonshine group and Gold series; Snake gabbro; St. Lawrence diorite)

PALAEZOIC

- 5 Acid, basic, and ultrabasic rocks (Ultrabasic intrusions of Thetford area and Mount Albert, Quebec; Montserrat alkaline intrusions may be as young as Tertiary; Devonian granites and allied rocks)

PROTEROZOIC

- 4 Acid rocks (Kittarney granite)
- 3 Basic rocks (Diabase sills and dykes of Northwest Territories; Kamsaman and Rippling diabase; Sudbury nickel orogenic)

ARCHAEAN AND/OR PROTEROZOIC

- 2 Mainly acid rocks (Grenite, granite-gneiss, and allied rocks. Includes much granitoid sedimentary and volcanic rock. Includes much Grenville and allied rocks Abg in Quebec and southeastern Ontario. Represents undivided Precambrian in the lesser-known parts of the Canadian Shield)
- 1 Basic and ultrabasic rocks (Mainly anorthositic and gabbro)

Geology derived from published and unpublished maps and reports of the Geological Survey, Provincial Departments of Mines, and other scientific organizations, available in 1943. For the greater part of Canada, the geology is based on scattered exploratory and reconnaissance surveys.

FORMATIONAL AND ALLIED NAMES SHOWN IN THIS LEGEND COMPRISE MANY OF THOSE THAT HAVE APPEARED IN RECENT YEARS IN PUBLICATIONS OF THE GEOLOGICAL SURVEY.

Cartography by the Drafting and Reproducing Division, Bureau of Geology and Topography, 1944.

820A CANADA GEOLOGIC MAP MAP B20A (West 1/2) 1945

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