

LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

- CENOZOIC**
- TERTIARY (?) AND QUATERNARY**
 PLEISTOCENE AND RECENT
 GARIBOLDI GROUP
 17 Basalt, andesite, dacite, and rhyodacite lavas; minor pyroclastic rocks
- TERTIARY**
 EOCENE AND/OR LATER
 14 Shale, sandstone, conglomerate, siltstone, fine-clay, coal; andesite, basalt, rhyolite, tuff, and breccia; 14A, PRINCETON AND COQUIHALLA GROUPS; 14B, KITSILANO FORMATION; 14C, SIOCKE FORMATION; 15A and B, Probably Eocene; 15A, BURRARD FORMATION: sandstone, shale, conglomerate; minor tuff and basalt; 15B, METCHOSIN VOLCANICS: basalt, diabase; tuff, agglomerate; chert; 16, Miocene or later; vesicular and amygdaloidal basalt
- CRETACEOUS**
 UPPER CRETACEOUS
 13A, NANAIMO GROUP: sandstone, shale, conglomerate, arkose; coal; 13B, HELM, EMPETRUM, AND CHEAKAMUS FORMATIONS: argillite, argillaceous quartzite, minor conglomerate, calcareous sandstone, sandy limestone; fine-grained schist, gneiss, and migmatite; may be somewhat older
- LOWER CRETACEOUS**
 12 Conglomerate, sandstone, shale, tuff and breccia; 12A, KINGVALE GROUP: andesite and basalt porphyry, breccia, non-marine; uppermost Lower Cretaceous; 12B, PASAYTEN GROUP: grit and shale; minor volcanic rocks; non-marine; probably same age as 12A; 12C, SPENCES BRIDGE GROUP: hard reddish andesite and basalt; slightly older than 12A and B; 12D, DEWDNEY CREEK, JACKASS MOUNTAIN, AND TAMHAI GROUPS: sandstone, argillite; tuff, agglomerate; conglomerate; marine
- JURASSIC AND/OR CRETACEOUS**
 UPPER JURASSIC AND/OR LOWER CRETACEOUS
 11 Argillite, slate, arkose, greywacke, tuff; minor conglomerate, limestone, greenstone, chlorite schist; 11A, LADNER GROUP; 11B, AGASSIZ GROUP
- JURASSIC**
 MIDDLE JURASSIC
 10 CHEHALIS VOLCANICS: massive andesite and dacite porphyry; minor tuff, breccia, agglomerate
- LOWER AND (?) MIDDLE JURASSIC**
 9 CULTUS FORMATION: argillite, shale; minor greywacke
- TRIASSIC (?) AND/OR LATER**
 GAMBIE GROUP
 8 Tuff, breccia, agglomerate, andesite, slate, argillite, arkose, quartzite, greywacke, conglomerate; minor dacite, trachyte, basalt
- TRIASSIC**
 UPPER TRIASSIC
 7 NICOLA AND TULAMEEN GROUPS: varicoloured lava, mainly andesite; argillite, tuff, limestone; chlorite and sericite schist
- TRIASSIC, IN PART EARLIER AND LATER**
 6 Andesite, tuff, agglomerate, volcanic breccia; minor basalt and rhyolite; shale, argillite, slate, quartzite, limestone; greywacke; chlorite schist; greenstone; gneissic equivalents; 6A, BOWEN ISLAND GROUP; 6B, BRITANNIA GROUP; 6C, VANCOUVER GROUP: includes some associated intrusive rocks; 6D, JARVIS GROUP
- PERMIAN AND/OR EARLIER**
 5 Cherty and slaty argillite, andesite, limestone; quartz-mica schist and gneiss; may include some Mesozoic rocks; 5A, HOZAMEEN GROUP; 5B, CHILLIWACK GROUP; 5C, MALAHAT VOLCANICS: mainly lavas and pyroclastic rocks; 5D, LEECH RIVER FORMATION: mainly slaty and quartzose schist; 5E, SICKER GROUP: mainly chert, pyroclastic rocks, and limestone

INTRUSIVE ROCKS

- CENOZOIC**
- CRETACEOUS AND/OR TERTIARY**
 3, 4 SIOCKE INTRUSIONS: gabbro, anorthosite, granite; probably Oligocene. 4, OTTER AND LIGHTNING CREEK INTRUSIONS, ETC.: pink and grey granite and granodiorite; grey quartz diorite
- JURASSIC AND CRETACEOUS**
 MIDDLE (?) AND UPPER JURASSIC AND LOWER CRETACEOUS
 COAST INTRUSIONS
 2 Granodiorite, quartz diorite, diorite; gabbro, granite, more or less gneissic equivalents; 2A, COPPER MOUNTAIN INTRUSIONS: syenogabbro, diorite, pegmatite
- PRE-CRETACEOUS**
 1 Basic and ultrabasic rocks

Sedimentary rocks not otherwise differentiated from volcanic rocks of the same age.

- Heavily drift-covered areas
 Fault
 Glacial striae
 Mining property
 Mineral occurrence

PRINCIPAL MINES

- Nickel Plate (Au, As)
- Copper Mountain (Cu)
- AM group (Gannam Copper Co. Ltd.) (Cu, U)
- Pacific Nickel Mines Ltd. (Ni)
- Britannia (Cu, Au, Zn)

MINERAL SYMBOLS

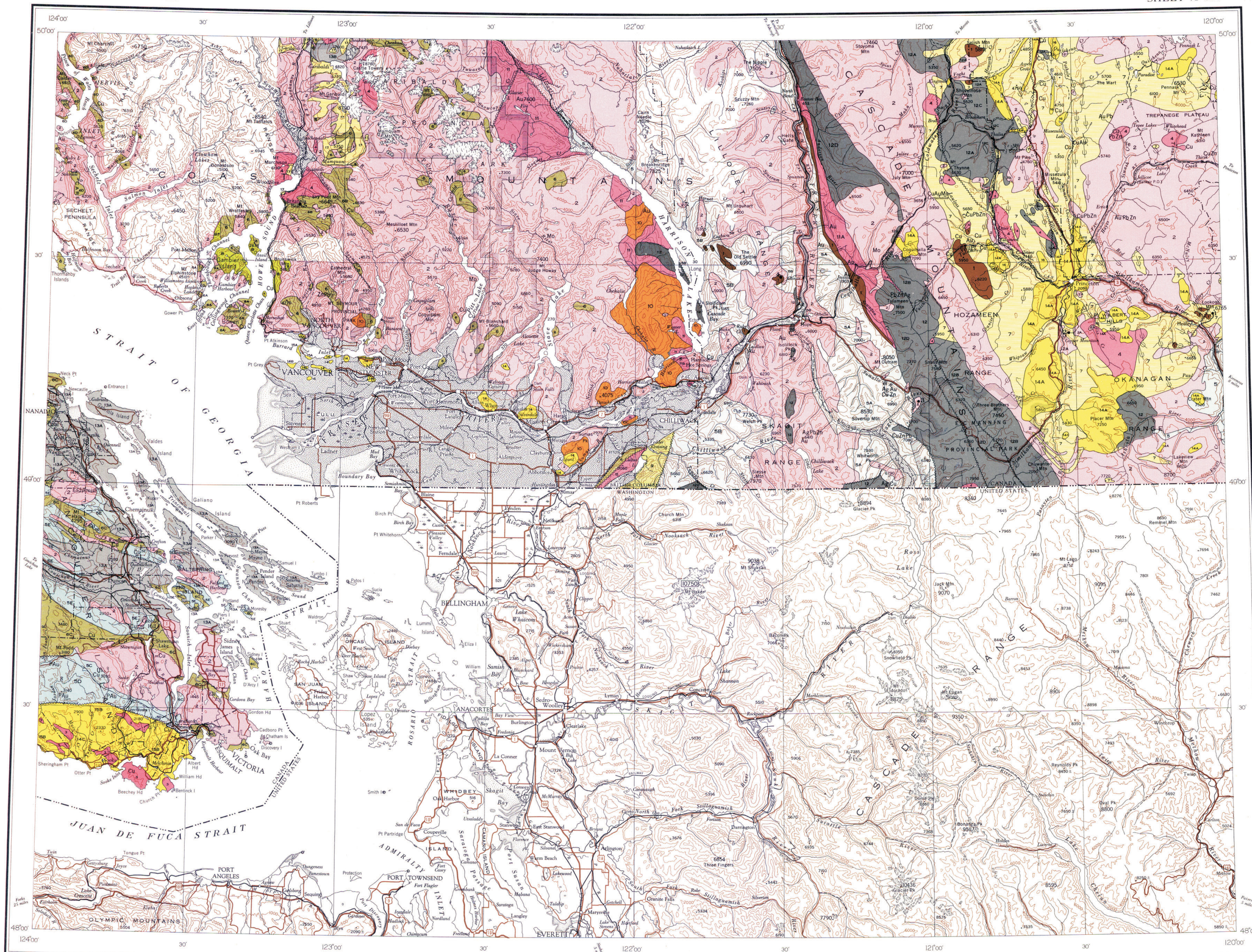
Arsenic	As	Nickel	Ni
Copper	Cu	Platinum	Pt
Gold, Au; placer	PAu	Silver	Ag
Iron	Fe	Tungsten	W
Lead	Pb	Uranium	U
Molybdenum	Mo	Zinc	Zn

Geological information compiled by H.M.A. Rice from published and unpublished maps of the Geological Survey of Canada and the British Columbia Department of Mines. Information to December 31, 1957

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GEOLOGICAL SERIES



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VICTORIA - VANCOUVER
 BRITISH COLUMBIA

Scale: One Inch to Eight Miles = $\frac{1}{506,880}$
 Miles 0 8 16 24

Approximate magnetic declination, 24°05' East

REFERENCE

- Main highway
- Secondary road
- Other roads
- Lighthouse
- International boundary
- District boundary
- Park boundary
- Marsh
- Mud and tidal flats
- Contours (interval 1000 feet)
- Contours (conjectural)
- Glacier
- Height in feet above mean sea-level

Base-map compiled by the Surveys and Mapping Branch