



LEGEND

Boundary of geological region

Boundary of geological province

TYPES OF TIN OCCURRENCES

Placer (location definite, indefinite)

Pegmatite, albite

Quartz veins, greisen

Sulphide vein

Massive sulphide

Miscellaneous

Area containing several occurrences

Locality number referred to in text 35

Metallogenic data compiled by R. Mulligan, 1964

Cartography by the Geological Survey of Canada, 1965

LEGEND

PLEISTOCENE AND RECENT

Q Alluvial silt and clay, included sand and gravel in District of Franklin may be in part Tertiary

OLIGOCENE

○ Sedimentary rocks: sandstone, conglomerate

PALEOCENE AND EOCENE

E Sedimentary rocks: sandstone, shale, conglomerate, coal measures

TERTIARY

Tv Mainly volcanic rocks: basalt, andesite. May include some Upper Cretaceous rocks

Ts Mainly sedimentary rocks: sandstone, shale, conglomerate, coal measures. Many occurrences on Axel Heiberg and Ellesmere Islands not indicated

UPPER CRETACEOUS

Ku Mainly sedimentary rocks: shale, sandstone, conglomerate, marine and non-marine, oil and natural gas, coal, bentonite

LOWER CRETACEOUS

Kl Mainly sedimentary rocks: sandstone, shale, conglomerate, marine and non-marine, oil and natural gas, coal, tar sand. Includes some Triassic and Jurassic beds south of Peace River

CRETACEOUS (Undivided)

K Sedimentary rocks

JURASSIC AND CRETACEOUS

JK Undivided Jurassic and Lower Cretaceous in Rocky Mountains and District of Franklin

JURASSIC

J Sedimentary and volcanic rocks: argillite, greywacke, sandstone, limestone, andesite, volcanic breccia, tuff. Includes considerable Lower Cretaceous and some Triassic rocks. Oil in Alberta and Saskatchewan

TRIASSIC

T Sedimentary and volcanic rocks: argillite, quartzite, limestone, andesite, volcanic breccia, tuff. Includes Jurassic rocks. May include some Paleozoic limestone in southwestern Yukon Territory. Natural gas at Fort St. John

MESOZOIC (Undivided)

M Sedimentary and volcanic rocks: some coal measures. Includes some Paleozoic in Yukon Territory

LEGEND

CARBONIFEROUS AND PERMIAN

C Sedimentary and volcanic rocks: argillite, cherty argillite, limestone, quartzite, andesite, volcanic breccia, tuff, sandstone, shale, conglomerate

PENNSYLVANIAN

Cp Mainly sedimentary rocks: sandstone, shale, conglomerate, some volcanic rocks, coal measures

MISSISSIPPIAN

Cm Mainly sedimentary rocks: limestone, shale, sandstone, conglomerate, volcanic rocks, gypsum, sulphate, oil and natural gas

DEVONIAN AND CARBONIFEROUS

DC Sedimentary rocks: limestone, dolomite, shale, gneiss, argillite, oil and natural gas. Includes some Cambrian and Triassic in Rocky Mountains

DEVONIAN

D Sedimentary and volcanic rocks: shale, limestone, dolomite, conglomerate, sandstone, volcanic rocks; salt; oil and natural gas

SILURIAN

S Mainly sedimentary rocks: sandstone, shale, limestone, dolomite, conglomerate, some volcanic rocks; gypsum, salt; oil and natural gas

ORDOVICIAN

O Sedimentary rocks: limestone, dolomite, shale, argillite, sandstone, quartzite, gneiss, oil and natural gas

ORDOVICIAN AND SILURIAN

OS Sedimentary rocks. Includes some Devonian on mainland north of Great Bear Lake

CAMBRIAN

c Sedimentary rocks: dolomite, limestone, shale, chert, quartzite, sandstone, conglomerate

PALEOZOIC (Undivided)

P Mainly sedimentary rocks. May include some Mesozoic and Precambrian rocks in northern Cordillera and Precambrian rocks on Ellesmere Island

LATE PROTEROZOIC

Bu Sedimentary and volcanic rocks: sandstone, quartzite, conglomerate, shale, non-formation, basalt. Includes younger rocks in Yukon Territory

Bus Sedimentary and volcanic rocks and derived metamorphic rocks: argillite, quartzite, limestone, schist, gneiss, crystalline limestone, andesite, greisstone. May be in part Paleozoic

EARLY PROTEROZOIC

Ei Sedimentary and volcanic rocks: shale, argillite, slate, chert, limestone, dolomite (falsal structured), sandstone, quartzite, white, greywacke, conglomerate, andesite, basalt, trachyte, tuff, volcanic breccia, non-formation

PROTEROZOIC (Undivided)

Pt Sedimentary and volcanic rocks

ARCHÆAN

As Mainly sedimentary and derived metamorphic rocks: argillite, slate, arkose, quartzite, greywacke, conglomerate, sedimentary gneiss and schist, non-formation. Alg., Grenville

Av Mainly volcanic and derived metamorphic rocks: andesite, diorite, basalt, rhyolite, trachyte, minor volcanic breccia and tuff, greenstone schist, hornblende gneiss

ARCHÆAN (Undivided)

A Sedimentary, volcanic, and metamorphic rocks

INTRUSIVE ROCKS

MESOZOIC AND CENOZOIC

7 Acid rocks: granodiorite, quartz monzonite, quartz diorite, granite, syenite

6 Basic and ultrabasic rocks: gabbro, pyroxenite, peridotite

PALEOZOIC

5 Acid, basic, and ultrabasic rocks: granite, and related rocks, peridotite, pyroxenite, gabbro; serpentinite; asbestos deposits

PROTEROZOIC

4 Acid rocks: granite, granodiorite, diorite; gneissic rocks in Yukon Territory

3 Basic rocks: diabase sills and dykes

ARCHÆAN AND/OR PROTEROZOIC

2 Mainly acid rocks: granodiorite, granite, quartz diorite, granite gneiss. Includes much granitized sedimentary and volcanic rock. Deposits undivided Precambrian in lesser known parts of Canadian Shield

1 Basic and ultrabasic rocks: mainly amphibolite and gabbro

Geology derived from published and unpublished maps and reports of the Geological Survey of Canada, Provincial Departments of Mines, mining companies, and other sources. Cartography by the Geological Survey of Canada, 1964, with some revisions, 1962.

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

MAP 32-1964
PAPER 64-54
METALLOGENIC MAP
TIN IN CANADA

SCALE: 1 INCH TO 120 MILES
1:7,603,200

MILES 0 100 200 300 400
KILOMETRES 0 100 200 300 400