



MAP SHOWING METALLIFEROUS AND SELECTED NONMETALLIFEROUS MINERAL DEPOSITS IN THE EASTERN PART OF SOUTHERN ALASKA

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Map showing locations of 1° x 3° quadrangles in eastern part of southern Alaska.

DESCRIPTION OF MAP UNITS

- MAINLY MARINE SEDIMENTARY, VOLCANIC, AND METAMORPHIC ROCKS**
- Qm QUATERNARY - Alluvium, glacial drift, and beach deposits
 - Qc OLDER ALLUVIUM - Older alluvial deposits of alluvium, alluvial fans, and beach deposits
 - Tk TERTIARY - Tertiary volcanic rocks, including andesite, basalt, and dacite
 - Tr TERTIARY - Tertiary volcanic rocks, including andesite, basalt, and dacite
 - K CRETACEOUS - Cretaceous volcanic rocks, including andesite, basalt, and dacite
 - Wm MIDDLE JURASSIC - Middle Jurassic volcanic rocks, including andesite, basalt, and dacite
 - Wu UPPER JURASSIC - Upper Jurassic volcanic rocks, including andesite, basalt, and dacite
 - Uj LOWER JURASSIC - Lower Jurassic volcanic rocks, including andesite, basalt, and dacite
 - Trs TRIASSIC - Triassic volcanic rocks, including andesite, basalt, and dacite
 - Wp PERMIAN AND PENNSYLVANIAN - Permian and Pennsylvanian volcanic rocks, including andesite, basalt, and dacite
 - Wm MISSISSIPPIAN AND OLDER PALEOZOIC - Mississippian and older Paleozoic volcanic rocks, including andesite, basalt, and dacite
 - Wp PRECAMBRIAN - Precambrian volcanic rocks, including andesite, basalt, and dacite
- CONTINENTAL DEPOSITS**
- Qm QUATERNARY - Alluvium, glacial drift, and beach deposits
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 - Wp PRECAMBRIAN - Precambrian continental deposits, including sandstone, siltstone, and shale
- VOLCANIC ROCKS, MAINLY SUBAERIAL**
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 - Wp PRECAMBRIAN - Precambrian volcanic rocks, including andesite, basalt, and dacite
- PLUTONIC AND HYBABYSSAL ROCKS**
- Trs TRIASSIC - Triassic plutonic and hypabyssal rocks, including granite, diorite, and gabbro
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 - Wp PRECAMBRIAN - Precambrian plutonic and hypabyssal rocks, including granite, diorite, and gabbro
- PLACER DEPOSITS**
- Qm QUATERNARY - Alluvium, glacial drift, and beach deposits
 - Qc OLDER ALLUVIUM - Older alluvial deposits of alluvium, alluvial fans, and beach deposits
 - Tk TERTIARY - Tertiary placer deposits, including gold, silver, and copper
 - Tr TERTIARY - Tertiary placer deposits, including gold, silver, and copper
 - K CRETACEOUS - Cretaceous placer deposits, including gold, silver, and copper
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 - Wp PRECAMBRIAN - Precambrian placer deposits, including gold, silver, and copper
- PRECIOUS METALS**
- Qm QUATERNARY - Alluvium, glacial drift, and beach deposits
 - Qc OLDER ALLUVIUM - Older alluvial deposits of alluvium, alluvial fans, and beach deposits
 - Tk TERTIARY - Tertiary precious metal deposits, including gold, silver, and copper
 - Tr TERTIARY - Tertiary precious metal deposits, including gold, silver, and copper
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 - Wp PRECAMBRIAN - Precambrian precious metal deposits, including gold, silver, and copper
- IRON AND FERROUS METALS**
- Qm QUATERNARY - Alluvium, glacial drift, and beach deposits
 - Qc OLDER ALLUVIUM - Older alluvial deposits of alluvium, alluvial fans, and beach deposits
 - Tk TERTIARY - Tertiary iron and ferrous metal deposits, including iron, manganese, and titanium
 - Tr TERTIARY - Tertiary iron and ferrous metal deposits, including iron, manganese, and titanium
 - K CRETACEOUS - Cretaceous iron and ferrous metal deposits, including iron, manganese, and titanium
 - Wm MIDDLE JURASSIC - Middle Jurassic iron and ferrous metal deposits, including iron, manganese, and titanium
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- BASE AND MISCELLANEOUS METALS**
- Qm QUATERNARY - Alluvium, glacial drift, and beach deposits
 - Qc OLDER ALLUVIUM - Older alluvial deposits of alluvium, alluvial fans, and beach deposits
 - Tk TERTIARY - Tertiary base and miscellaneous metal deposits, including lead, zinc, and cadmium
 - Tr TERTIARY - Tertiary base and miscellaneous metal deposits, including lead, zinc, and cadmium
 - K CRETACEOUS - Cretaceous base and miscellaneous metal deposits, including lead, zinc, and cadmium
 - Wm MIDDLE JURASSIC - Middle Jurassic base and miscellaneous metal deposits, including lead, zinc, and cadmium
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- NUCLEAR FUELS**
- Qm QUATERNARY - Alluvium, glacial drift, and beach deposits
 - Qc OLDER ALLUVIUM - Older alluvial deposits of alluvium, alluvial fans, and beach deposits
 - Tk TERTIARY - Tertiary nuclear fuel deposits, including uranium and thorium
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 - K CRETACEOUS - Cretaceous nuclear fuel deposits, including uranium and thorium
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- SELECTED NONMETALS**
- Qm QUATERNARY - Alluvium, glacial drift, and beach deposits
 - Qc OLDER ALLUVIUM - Older alluvial deposits of alluvium, alluvial fans, and beach deposits
 - Tk TERTIARY - Tertiary selected nonmetal deposits, including asbestos, talc, and zeolites
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- ULTRAMAFIC ROCKS**
- Trs TRIASSIC - Triassic ultramafic rocks, including serpentinite, talc, and zeolites
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This map and accompanying table (in pamphlet) provide information on the known metalliferous and selected nonmetalliferous mineral deposits of eastern southern Alaska. The term "mineral deposits" is used in a broad context to include deposits at mines and prospects or occurrences of possible significance, which may be unclassified. Minor, apparently insignificant occurrences are excluded. Only a few nonmetalliferous commodities, including zeolites, soapstone (talc), corundum, and asbestos, are described in this report. Many nonmetalliferous commodities, such as sand, gravel, building stone, aggregate and crushed rock, and to some extent, limestone and dolomite, are not dealt with because, in general, southern Alaska is well endowed in them, and their utilization is dictated by their proximity to urban or industrial centers. Fossil fuel commodities are also excluded from this report.

For a more complete description of map units, see U.S. Geol. Surv. open-file map 77-169-A, 1977.

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.