

EXPLANATION

This map provides preliminary information about geologic materials in and near areas proposed by the Division of Geological and Geophysical Surveys for land selection under the 1959 Alaska Statehood Act. The purpose of the map is to help locate materials for construction projects that may take place on newly acquired state land after title is granted by the federal government.

Map units were derived from the geologic maps listed below under Sources and are largely not field checked. This map provides general information about what materials are likely to exist at or close to the surface but should not be used for site-specific materials assessment. Accuracy of the information varies with scale, type of mapping, and degree of field inspection associated with the source maps. Composition, thickness, degree of weathering, and overburden thickness may vary considerably within map units. Site inspection is necessary to verify the preliminary information on this map and to more accurately describe the materials. Because the Description of Map Units was standardized for the map series, some listed units may not be present in this map area.

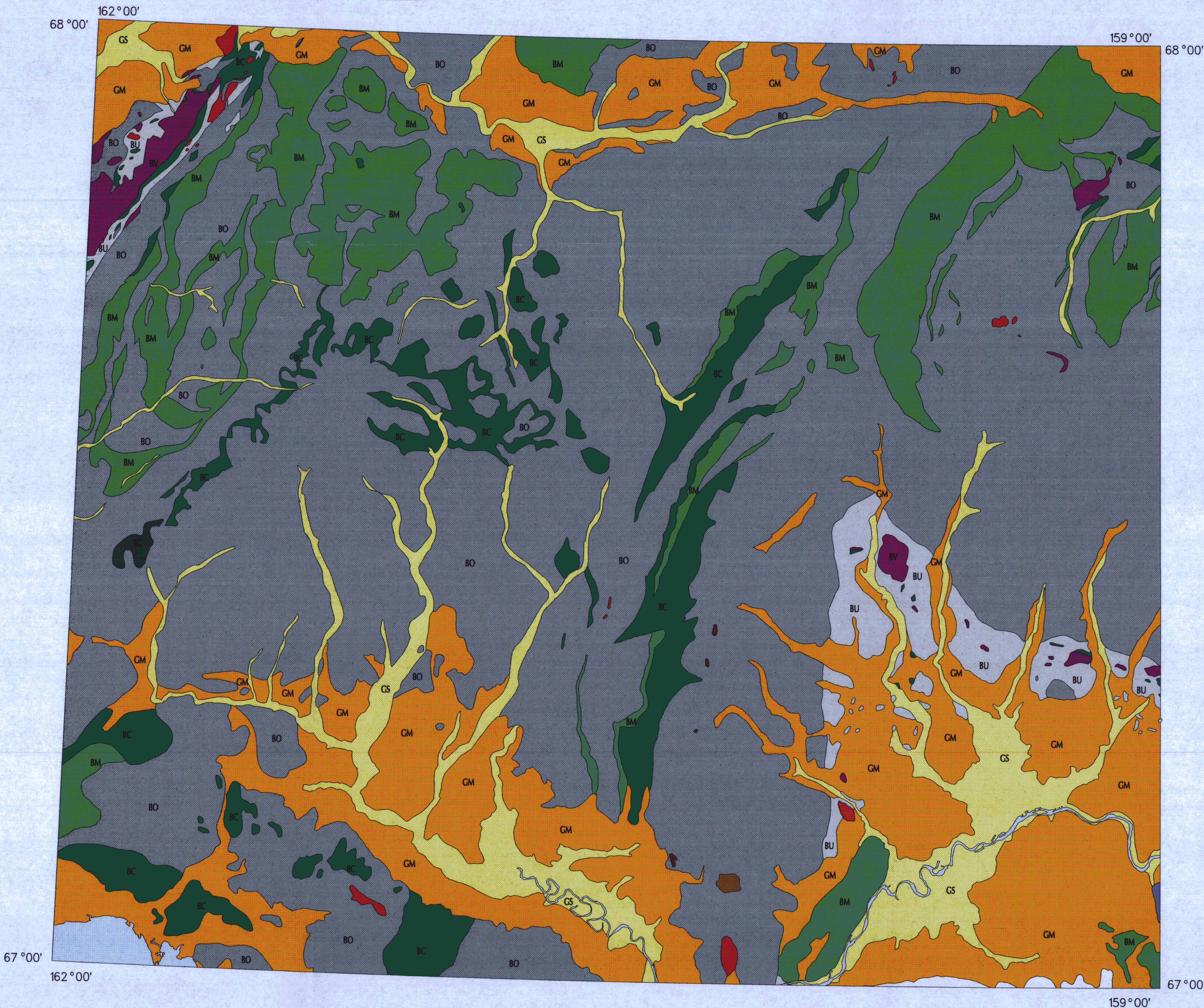
To view map units in relation to topography, this map may be used as an overlay with the appropriate U.S. Geological Survey 1:250,000-scale topographic quadrangle. For a statewide index of these materials maps, see Public-Data File 93-51, "Index of derivative geologic-materials maps for the Alaska land-selection project."

DESCRIPTION OF MAP UNITS

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|---|--|
|  Open Water: Lakes (LK), rivers, or oceans.  |  BC : Coarse-jointed, coarse-grained igneous lithologies. May be deeply weathered.  |
|  GS : Chiefly (estimated greater than 80%) clean sand and gravel. Rare oversized material. May include tailings. Includes GW and CP (Unified Soil Classification).       |  BV : Medium-jointed, fine-grained igneous rocks and their metamorphic equivalents. May be deeply weathered.  |
|  GM : Mixed coarse and fine material. Estimated 20-80% coarse, granular deposits with considerable oversized material. Includes GM and CC (Unified Soil Classification). |  BHF : Hornfels. Hard, fine- to medium-grained metamorphic rock.  |
|  GT : Tailings. Chiefly coarse, angular sandy gravel.  |  BC : Medium-jointed, fine- to coarse-grained sedimentary carbonate rocks and their metamorphic equivalents. May be deeply weathered.                       |
|  SA : Chiefly (estimated 80%) sand, silt, and clay. Includes SW and Pt (Unified Soil Classification).  |  BM : Medium-jointed, fine- to medium-grained quartzose sedimentary rocks and their metamorphic equivalents. May include hornfels. May be deeply weathered. |
|  SM : Chiefly fine materials. Estimated greater than 80% sand, silt, and clay. Includes SM, SC, ML, MH, CL, and CH (Unified Soil Classification).                        |  BO : All other lithologies. May be deeply weathered.   |
|  OR : Chiefly organic materials. Estimated greater than 50% peat, organic sand, or organic silt. Includes Pt (Unified Soil Classification).                              |  BU : Undifferentiated bedrock lithologies. May be deeply weathered.  |
|   |  Undifferentiated surficial deposits.   |

SOURCES

Karl, S.M., Dumoulin, J.A., Ellensieck, Inyo, Harris, A.G., and Schmidt, J.M., 1989, Preliminary geologic map of the Baird Mountains and part of the Selkirk Quadrangles, Alaska: U.S. Geological Survey Open-File Report 89-551, scale 1:250,000.



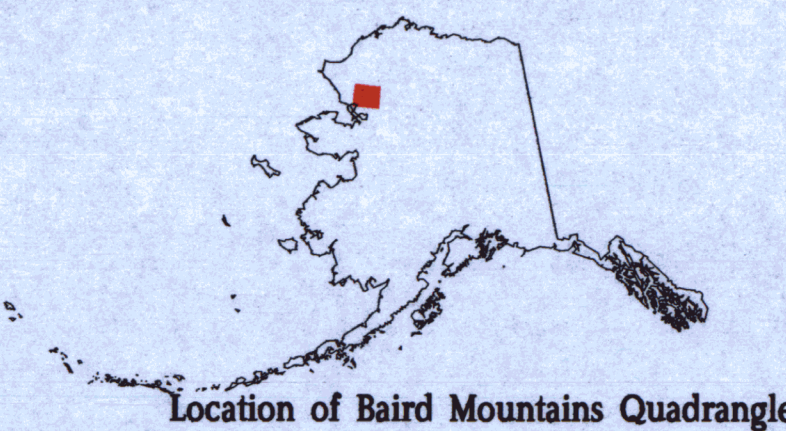
Digital Cartography by R.F. Clement and G.R. Cruse

DERIVATIVE GEOLOGIC-MATERIALS MAP OF THE BAIRD MOUNTAINS QUADRANGLE, ALASKA

Interpreted by R.A. Combellick, R.F. Clement, and G.R. Cruse

1993

Scale 1:250,000



Alaska Division of Geological and Geophysical Surveys  
Geologic Data Modeling System  
Universal Transverse Mercator Projection

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