UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 632
PLATE 1

EXPLANATION OF MINERAL SYMBOLS

As, Bi, Sb, Sn / Mo / Pb, Zn / Cu / Ni, Cr, Co, Ti / Au / Fe / Ag

Elements present are indicated by position of patterning in symbol

60

Solid fill in sector indicates main commodities in deposits. Partial fill indicates commodities present in small amounts or low-grade anomalous concentrations. Numbers or letters are referred to in text and tables

Mine or prospect

Mineral deposit found during this investigation

Placer deposit approximately located

Reported prospect or mineral deposit not examined during this investigation

Single sample

Two or more samples

Locations of analyzed bedrock samples that lack anomalous concentrations of ore metals

EXPLANATION

s — Surficial deposits
Mainly glacial outwash and till, but include lake deposits, recent marine clays, colluvium, beach deposits, and alluvium

d — Detrital clastic rocks
Mainly graywacke, shale, siltstone, calcarenite, and minor conglomerate, metamorphosed to hornfels or to schist in some areas; include small amounts of carbonate and (or) volcanic rocks locally

c — Carbonate rocks
Mainly limestone, minor dolomite locally; metamorphosed to marble or calcsilicate hornfels in some areas; include small amounts of detrital clastic and (or) volcanic rocks locally

v — Volcanic rocks
Mainly mafic to intermediate lava flows and breccia; metamorphosed to hornfels or to greenstone, greenschist, or amphibolite in some areas; include some detrital clastic rocks locally

m — Undifferentiated metamorphic rocks

gn — Heterogeneous gneisses and mixed contact zones
Gneisses mainly dioritic to tonalitic, commonly foliated, but with some massive breccia. Contact zones consist of abundant large hornfels masses surrounded by rock of adjacent intrusive body

gf — Foliated granitic rocks
Mainly diorite, tonalite, and granodiorite; form partly discordant plutons

gr — Unfoliated granitic rocks
Mainly granodiorite, adamellite, and granite; form discordant plutons

ga — Gabbroic rocks

Contact
Dotted where concealed

Fault
Dotted where concealed

Base from U.S. Geological Survey Juneau, 1962, Mt. Fairweather, 1961, and Skagway, 1961. Grid labels (D–1, D–2, etc.) indicate locations of 1:63,360 quadrangles

Geology by D. A. Brew, M. Churkin, Jr., A. B. Ford, C. C. Hawley, L. C. Huff, E. M. MacKevett, Jr., A. T. Ovenshine, J. G. Smith, and R. J. Wehr, 1966. Earlier mapping incorporated, modified from Rossman (1963a, b); Seitz (1959); Miller (1961); Lathram, Loney, Condon, and Berg (1959); and Twenhofel (1946)

MAP SHOWING BEDROCK LITHOLOGY AND LOCATIONS OF KNOWN METALLIFEROUS MINERAL DEPOSITS, GLACIER BAY NATIONAL MONUMENT, ALASKA

Includes previously known deposits and deposits found during the current investigation. The term "mineral deposits" as here used includes all anomalous concentrations of metallic commodities detected

SCALE 1:250 000

5 0 5 10 15 20 MILES