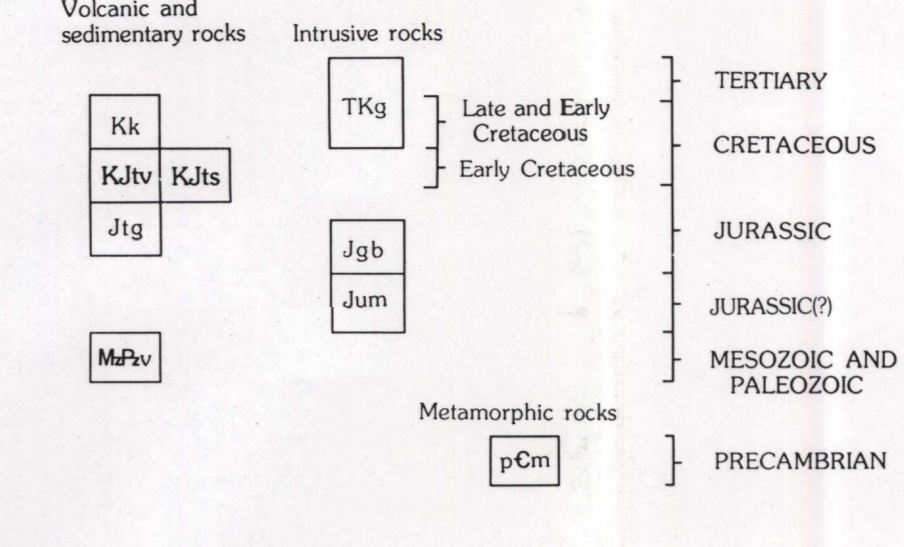
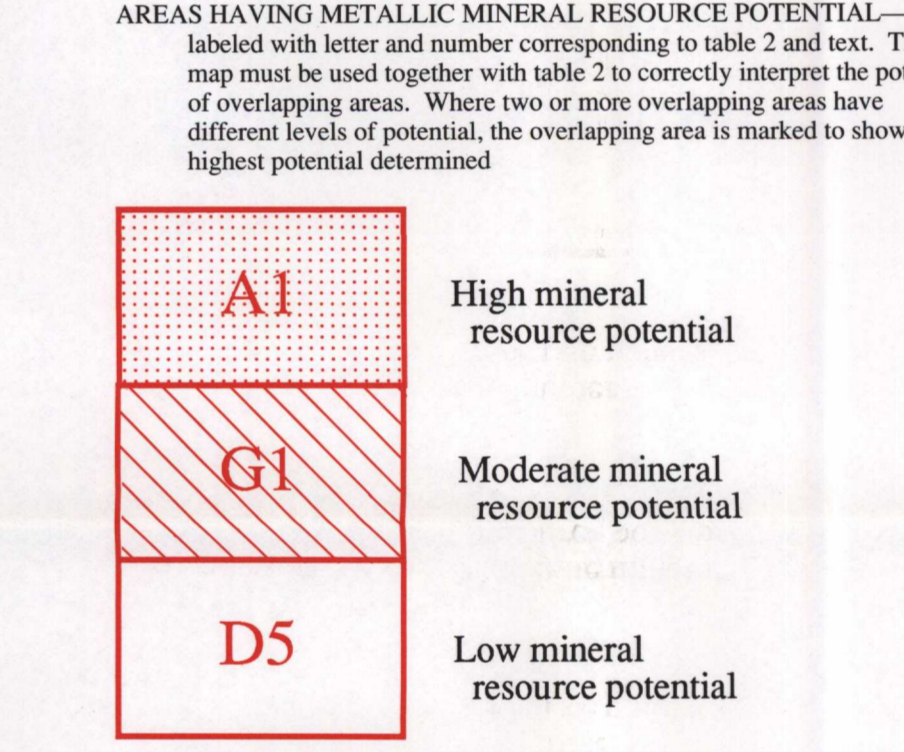


CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- VOLCANIC AND SEDIMENTARY ROCKS**
- Kk** Kuskokwim Group (Late and Early Cretaceous)—Thick, predominantly marine sedimentary unit consisting of graywacke, sandstone, conglomerate, siltstone, and shale. Unconformably overlies pre-amalgamation terranes. Indicating accretion was completed by Alaska time (Hoare and Cooney, 1978). Entire unit is probably at least 4,000 m thick and may be much thicker (Hoare and Cooney, 1978).
 - KJts** Volcanic and volcaniclastic rocks (Early Cretaceous and Jurassic)—Thick, essentially complete assemblage of andesitic, rhyolite, flows, and volcaniclastic rocks. Tuff units mostly fine grained, green or gray, but locally may be red. Tuff and volcaniclastic rocks commonly contain fossiliferous, but locally may be red. Tuff and volcaniclastic rocks commonly contain fossiliferous, but locally may be red.
 - KJtv** Volcanic and sedimentary rocks (Early Cretaceous and Jurassic)—Thick, essentially complete assemblage of andesitic, rhyolite, flows, and volcaniclastic rocks. Tuff units mostly fine grained, green or gray, but locally may be red. Tuff and volcaniclastic rocks commonly contain fossiliferous, but locally may be red.
 - Jtg** Graywacke (Jurassic)—Thick marine sedimentary unit consisting of very hard granitic, siliceous, and volcanic conglomerate. Thick, generally thick. Composition ranges from quartz and plagioclase-rich wacke to quartz-poor volcanic wacke. Commonly contains black argillite or tuff clasts (Hoare and Cooney, 1978).
 - MzPzv** Metamorphic rocks (Precambrian)—Foliated metamorphic rocks that consist of muscovite to coarse grained, massive, and well-foliated biotite hornblende gneiss, garnetiferous amphibolite, quartzite, schist, and marble (Hoare and Cooney, 1978).
 - pCm** Foliated metamorphic rocks (Precambrian)—Foliated metamorphic rocks that consist of muscovite to coarse grained, massive, and well-foliated biotite hornblende gneiss, garnetiferous amphibolite, quartzite, schist, and marble (Hoare and Cooney, 1978).
- INTRUSIVE ROCKS**
- TKg** Granitic rocks (Tertiary to Early Cretaceous)—Fine, medium- and coarse-grained plutonic rocks. Bodies generally form stocks consisting of quartz monzonite, granodiorite, and light quartz diorite.
 - Jgk** Gabbroic rocks (Jurassic)—Medium- to coarse-grained, locally pegmatitic, intrusive rocks consisting of hornblende, chlorophane, and alkali plagioclase. Locally contain olivine. Generally associated with ultramafic rocks (Hoare and Cooney, 1978).
 - Jum** Ultramafic rocks (Jurassic)—Serpentine, serpentinitized diorite, and websterite. Several intrusive bodies and numerous probable laccolite stocks in this zone. Possible association with gabbroic rocks (Jgk) (Hoare and Cooney, 1978).
- METAMORPHIC ROCKS**
- Kiback terrane**
 - pCm** Foliated metamorphic rocks (Precambrian)—Foliated metamorphic rocks that consist of muscovite to coarse grained, massive, and well-foliated biotite hornblende gneiss, garnetiferous amphibolite, quartzite, schist, and marble (Hoare and Cooney, 1978).
- CONTACT—Known, approximate, gradational, and inferred**
- Fault or fault zone—Dashed where approximate, inferred, or concealed**
- Lode deposit—Name shown on table 1**
- Placer deposit—Name shown on table 1**



MAP C. Showing areas D1-D14, H1-H6, and I1-I14 of metallic mineral resource potential

MAP SHOWING METALLIC MINERAL RESOURCE POTENTIAL IN THE GOODNEWS BAY, HAGEMESTER ISLAND, AND NUSHAGAK BAY 1° x 3° QUADRANGLES, SOUTHWEST ALASKA

By
J.E. Kilburn, R.J. Goldfarb, Andrew Griscom, and S.E. Box
1993

Base from U.S. Geological Survey, Goodnews Bay, 1979; Hagemester Island, 1957; and Nushagak Bay, 1952.

Geology generalized from Hoare and Cooney (1978)

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1993
Any use of trade names in this publication is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.
For sale by U.S. Geological Survey Map Distribution, Box 25286, Federal Center, Denver, CO 80225, and U.S. Geological Survey, Alaska District Office, New Federal Bldg., Box 12, 101 Twelfth Avenue, Fairbanks, AK 99711