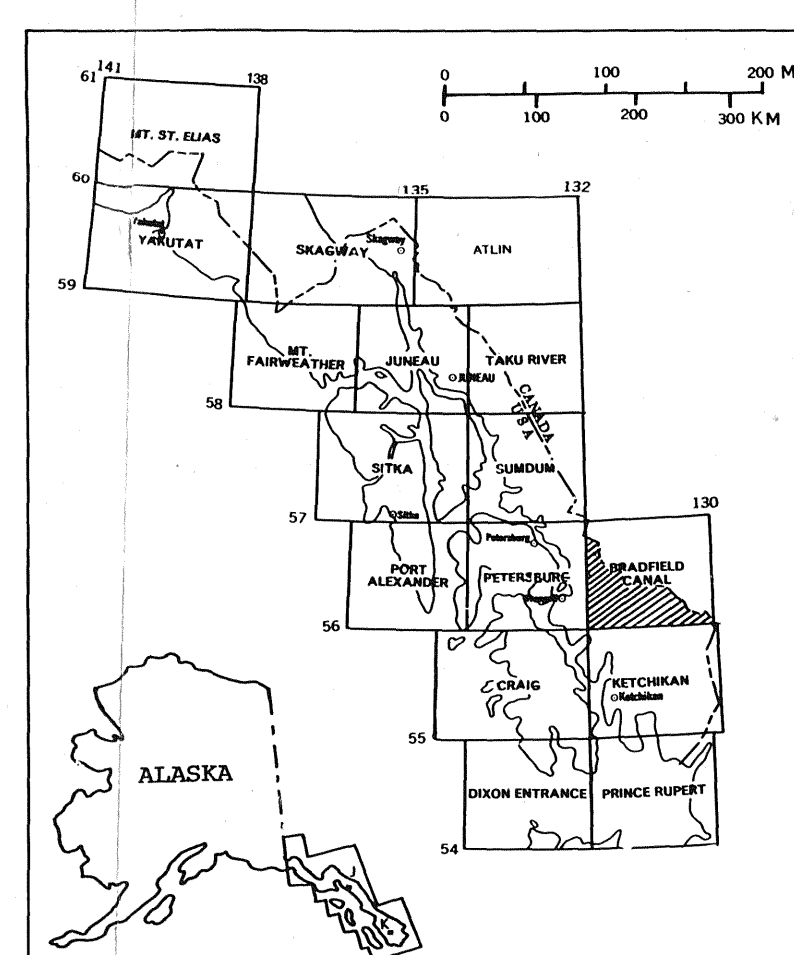
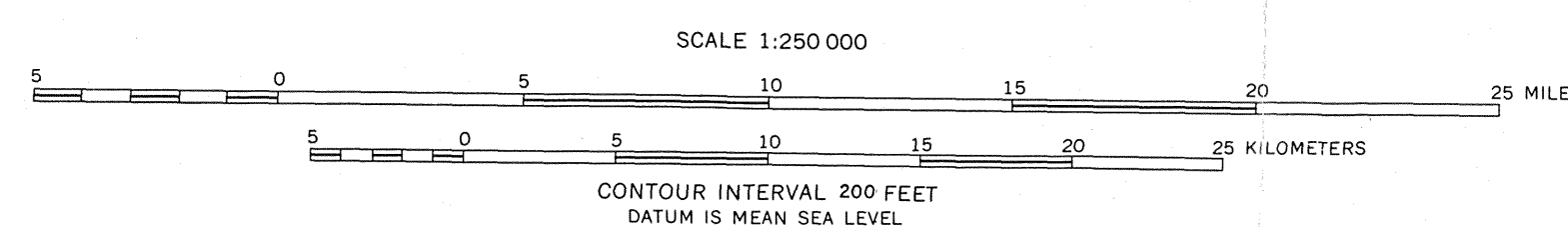


ROCK SAMPLES

Base from USGS 1:250,000 topo series: Bradfield Canal, 1955, ALASKA-CANADA.

Geology by H. C. Berg, D. A. Brew, A. L. Clark, M. H. Condon, J. E. Decker, M. F. Diggle, G. C. Dunne, R. L. Elliott, J. D. Gallinatti, M. H. Herdick, S. M. Kari, R. D. Koch, M. L. Miller-Hoag, R. P. Morrell, J. G. Smith, and R. A. Sonnevil, 1968-1979.



TRUE NORTH
APPROXIMATE MEAN DECLINATION, 1955

- KEY TO LITHOLOGY GROUP SYMBOLS
- A - ALKALI-FELDSPAR GRANITE - includes related dikes
 - B - BASALT AND ANDESITE - includes dikes and flows, and lamprophyre dikes
 - C - CALCILLITE and SCARN
 - D - DIORITE and GABBRO - includes minor metadiorite, hornblende, and ultramafic rocks
 - F - FELSITE - some quartz-porphyritic. Includes dikes, flows(?), and breccias
 - G - GRANITIC ROCKS - mainly massive and foliated quartz monzonite, granodiorite, and quartz diorite, with lesser alkalis, apatite, and pegmatite
 - H - HORNBLENE-RICH SCHIST and GNEISS - includes amphibolite, greenschist, and other mafic metamorphic rocks
 - M - MICHAMITE and ORTHOGNEISS - includes granitic gneiss (eg: granodiorite gneiss, quartz diorite gneiss, etc.)
 - S - SCHIST and GNEISS - mainly pelitic and quartzofeldspathic schist and gneiss, and lesser non-schistose metamorphic rocks
 - V - VEINS

- Unit Descriptions
- Qu UNCONSOLIDATED DEPOSITS, UNDIVIDED (Quaternary)
 - Qtb BASALT (Quaternary and Tertiary)
 - Tgr ALKALI-FELDSPAR GRANITE WITH ASSOCIATED QUARTZ-PORPHYRITIC RHYOLITE DIKES AND FLOWS(?) (Miocene?)
 - Tgb BIOTITE-PYROXENE GABBRO, LOCALLY CONTAINS HORNBLENE AND/OR OLIVINE (Miocene)
 - Telg LEUCOCRATIC QUARTZ MONZONITE AND GRANODIORITE (Eocene)
 - Tegs GRANODIORITE AND QUARTZ DIORITE (Eocene)
 - Tq QUARTZ DIORITE (Eocene or Paleocene)
 - TKlg LEUCOCRATIC QUARTZ MONZONITE AND GRANODIORITE (Tertiary and/or Cretaceous)
 - TKgs GRANODIORITE AND QUARTZ DIORITE (Tertiary and/or Cretaceous)
 - Kes BIOTITE-HORNBLENE QUARTZ DIORITE, PLAGIOCLASE-PORPHYRITIC BIOTITE GRANODIORITE/QUARTZ DIORITE, BOTH LOCALLY CONTAIN GARNET AND/OR EPIDOTE (Cretaceous)
 - Tt TEXAS CREEK GRANODIORITE (Triassic)
 - MaPmg MICHAMITE AND ORTHOGNEISS, WITH LESSER PARAGNEISS (Mesozoic and/or Paleozoic)
 - MaPps PARAGNEISS AND ORTHOGNEISS, WITH LESSER AMPHIBOLITE AND MARBLE (Mesozoic and/or Paleozoic)
 - MaPsd SCHIST AND PARAGNEISS, WITH LESSER AMPHIBOLITE AND MARBLE (Mesozoic and/or Paleozoic)
 - MaPsv METASEDIMENTARY AND LESSER METAVOLCANIC ROCKS, WITH LOCAL MARBLE (Mesozoic and/or Paleozoic)

This report is preliminary and has not been reviewed for conformity with Geological Survey editorial standards and stratigraphic nomenclature.

MAPS SHOWING DISTRIBUTION AND ABUNDANCE OF COPPER IN GEOCHEMICAL SAMPLES FROM THE BRADFIELD CANAL QUADRANGLE, SOUTHEASTERN ALASKA

by
R.D.KOCH AND R.L.ELLIOTT

1981