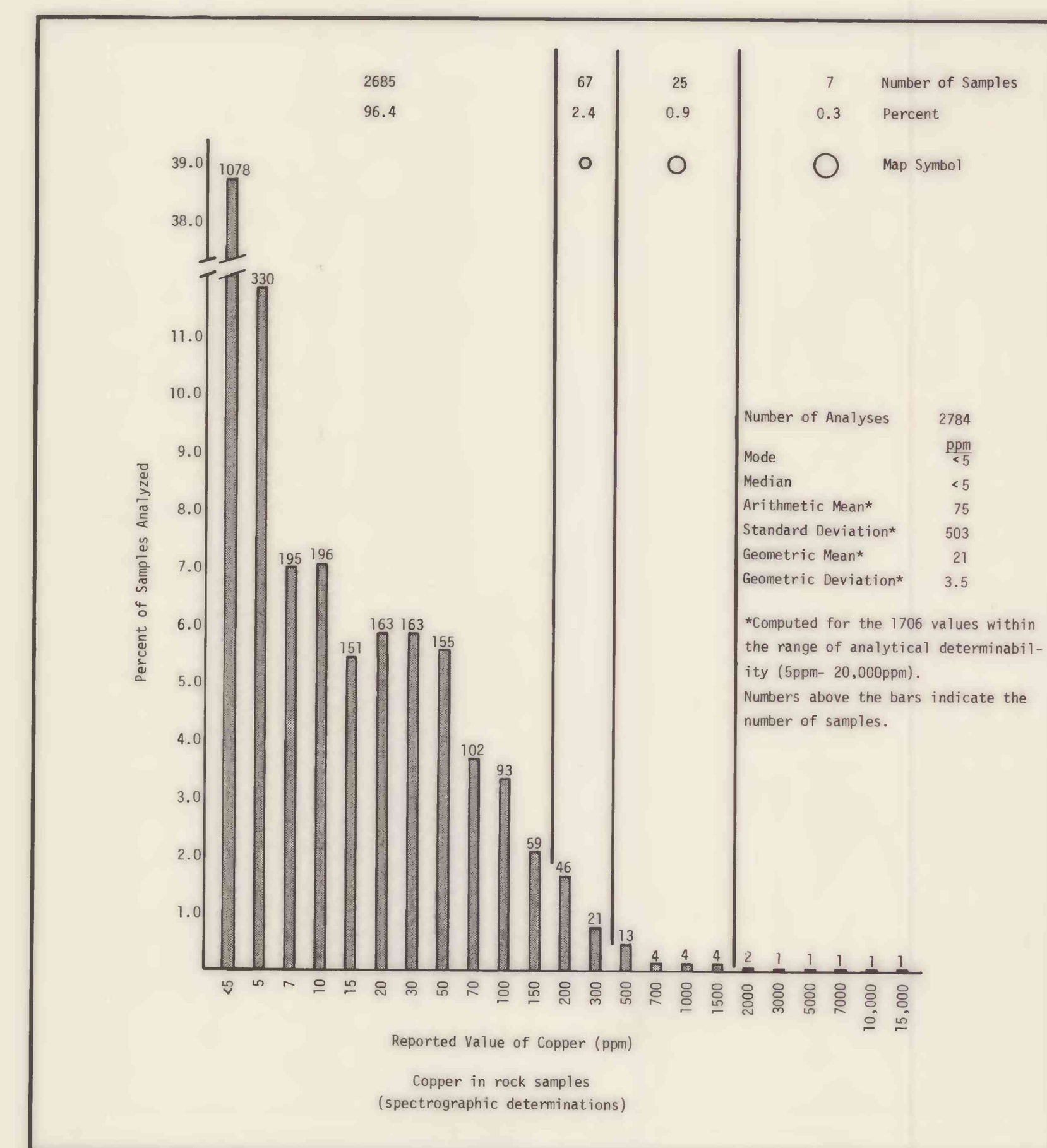
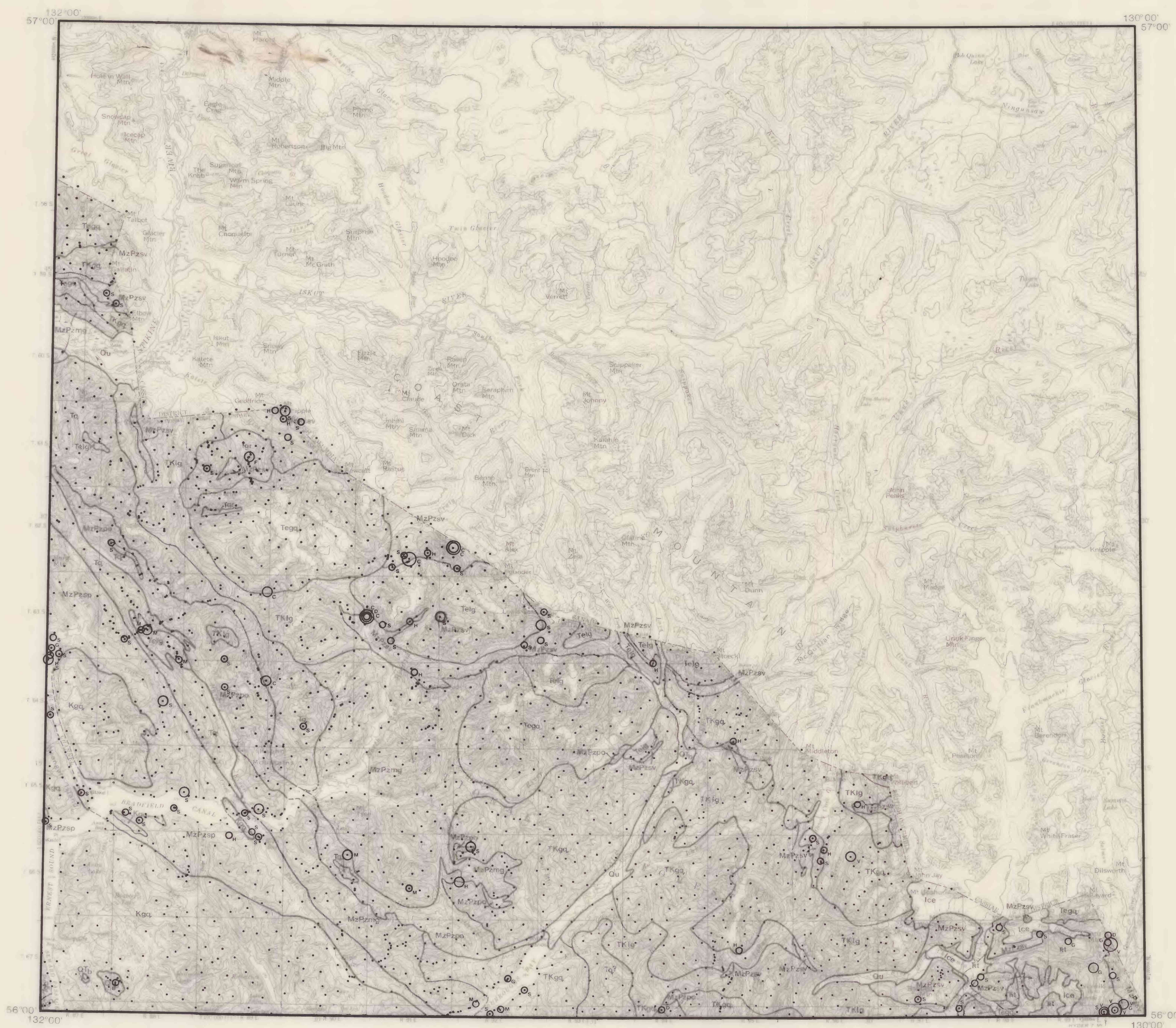


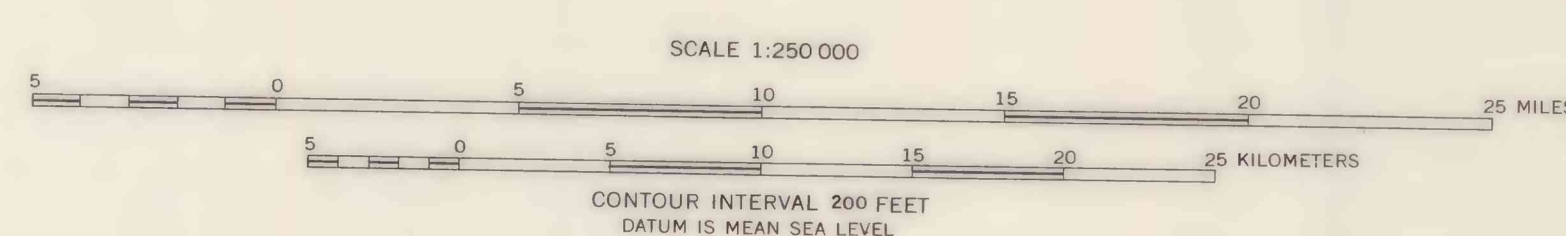
FOLIO OF THE BRADFIELD CANAL QUADRANGLE, ALASKA

KOCH AND ELLIOTT -GEOCHEMISTRY-CU

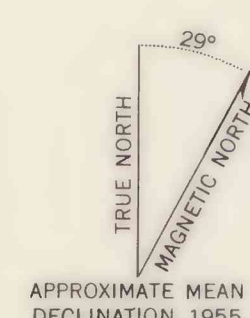
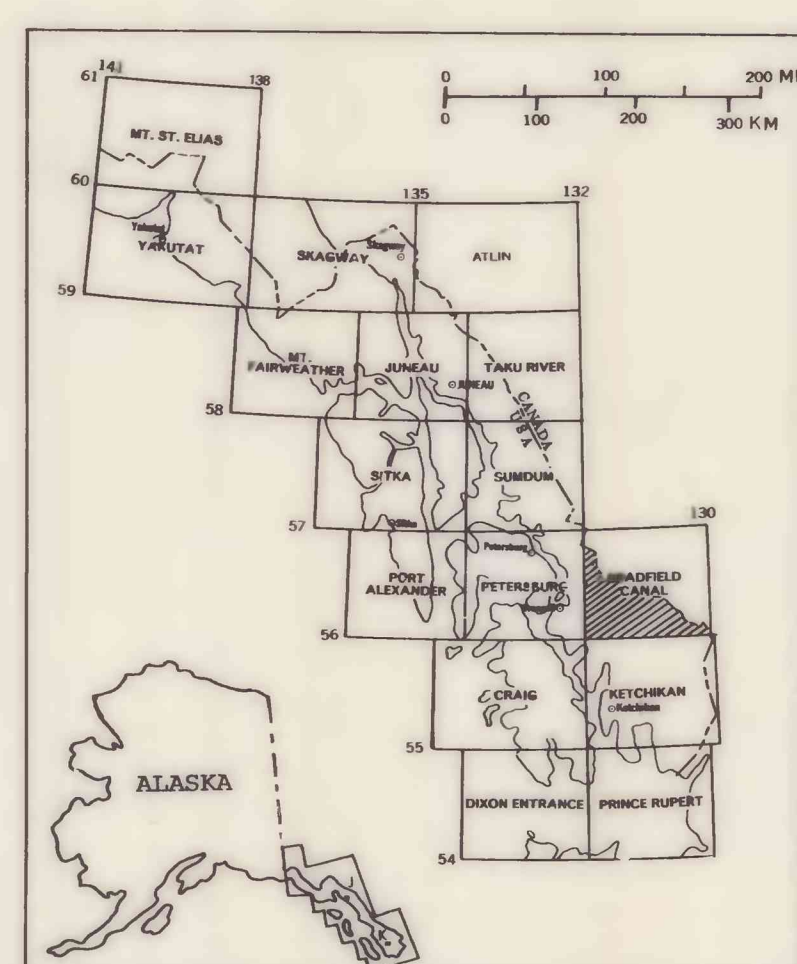


ROCK SAMPLES

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



Geology by H. C. Berg, D. A. Brew, A. L. Clark, W. H. Condon,
J. E. Decker, M. F. Diggles, G. C. Dunne, R. L. Elliott,
J. D. Gallinatti, M. W. Herdick, S. W. Karl, R. D. Koch,
M. L. Miller-Hoare, R. P. Morrell, J. G. Smith, and
R. A. Sonnevill, 1968-1979.



KEY TO LITHOLOGY GROUP SYMBOLS

- A - ALKALI-FELDSPAR GRANITE - includes related dikes
- B - BASALT and ANDESITE - includes dikes and flows, and lamprophyre dikes
- C - CALCILICATE and SKARN
- D - DIORITE and GABBRO - includes minor metadiorite, hornblende, and ultramafic rocks
- F - FELSITE - some quartz-porphyrific. Includes dikes, flows(?), and breccias
- G - GRANITIC ROCKS - mainly massive and foliated quartz monzonite, granodiorite, and quartz diorite, with lesser alaskite, apatite, and pegmatite
- H - HORNBLende-RICH SCHIST and GNEISS - includes amphibolite, greenschist, and other mafic metamorphic rocks
- M - MIGMATITE 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 metasedimentary rocks
- V - VEINS

Unit Descriptions

- Qu UNCONSOLIDATED DEPOSITS, UNDIVIDED (Quaternary)
- OTb BASALT (Quaternary and Tertiary?)
- Tgr ALKALI-FELDSPAR GRANITE WITH ASSOCIATED QUARTZ-PORPHYRITIC RHYOLITE DIKES AND FLOWS(?) (Miocene?)
- Tgb BIOTITE-PYROXENE GABBRO, LOCALLY CONTAINS HORNBLende AND/OR OLIVINE (Miocene)
- Telg LEUCOCRATIC QUARTZ MONZONITE and GRANDIORITE (Eocene)
- Tegq GRANDIORITE and QUARTZ DIORITE (Eocene)
- Tq QUARTZ DIORITE (Eocene or Paleocene)
- TKlg LEUCOCRATIC QUARTZ MONZONITE and GRANDIORITE (Tertiary and/or Cretaceous)
- Tkgq GRANDIORITE and QUARTZ DIORITE (Tertiary and/or Cretaceous)
- Kgq BIOTITE-HORNBLende QUARTZ DIORITE, PLAGIOCLASE-PORPHYRITIC BIOTITE GRANDIORITE/QUARTZ DIORITE, BOTH LOCALLY CONTAIN GARNET AND/OR EPIDOTE (Cretaceous)
- Tt TEXAS CREEK GRANDIORITE (Triassic)
- MzPmg MIGMATITE and ORTHOGNEISS, WITH LESSER PARAGNEISS (Mesozoic and/or Paleozoic)
- MzPzp PARAGNEISS and ORTHOGNEISS, WITH LESSER AMPHIBOLITE and MARBLE (Mesozoic and/or Paleozoic)
- MzPzp SCHIST and PARAGNEISS, WITH LESSER AMPHIBOLITE and MARBLE (Mesozoic and/or Paleozoic)
- MzPsv 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