

**DEFINITION OF MAP UNITS**

**UNCONSOLIDATED DEPOSITS**

Qa Alluvium and colluvium

Qaf Alluvial fan deposits

Qs Silt and peat

Qsu Silt, undifferentiated and organic material

Qg Gravel

Ql Loess

**SEDIMENTARY ROCKS**

Tcs Conglomerate and sandstone

**UNMETAMORPHOSED IGNEOUS ROCKS**

Tkg Granite

Tkf Felsic igneous rock

**NORTHWEST CIRCLE QUADRANGLE**

KJqa Quartzite, argillite, conglomerate, and hornfels

MzBa1 Argillite, tuff, quartzite, and conglomerate

MzBa2 Argillite and quartzite

PzUg Ultramafic and mafic rocks and greenstone

DSd Dolomite and argillite

DSi Limestone, dolomite, and shale

SOs Silstone, dolomite, chert, and mafic igneous rocks

Old Livengood Dome(?) Chert

PpCa Argillite, grit, and quartzite

PpCu Grit, quartzite, and argillite

**AREA NORTH OF TINTINA FAULT ZONE**

MzBa Circle volcanics and associated rocks

PMc Chert, argillite, and quartzite

MzBa1 Diorite

Pzcg Chert pebble conglomerate

Pzcc Chert, conglomerate, and limestone

Pzc Chert and argillite

PzI Limestone

PzI Limestone and chert

PpCa Argillite, grit, and quartzite

PpCu Basalt and limestone

**AREA SOUTH OF TINTINA FAULT ZONE**

Da Augen gneiss

Pza Quartzite, meta-argillite and phyllite

Pzm Phyllite, calcareous phyllite, and marble

PpCs Pelitic schist

PpCms Garnet-muscovite schist

PpCd Dolomite and marble

PpCa Quartzite and quartzitic schists (includes magnetic chlorite schist subunit (PpCqm))

PpCms Mafic schist

PpCgr Grit and quartzite

**ULTRAMAFIC, MAFIC, AND ECLOGITIC ROCKS**

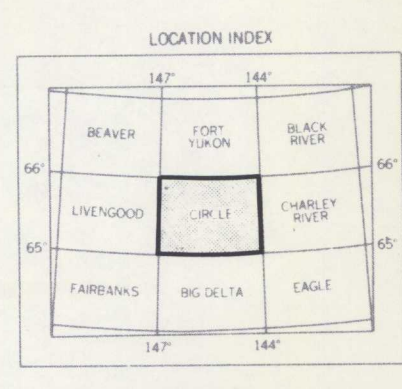
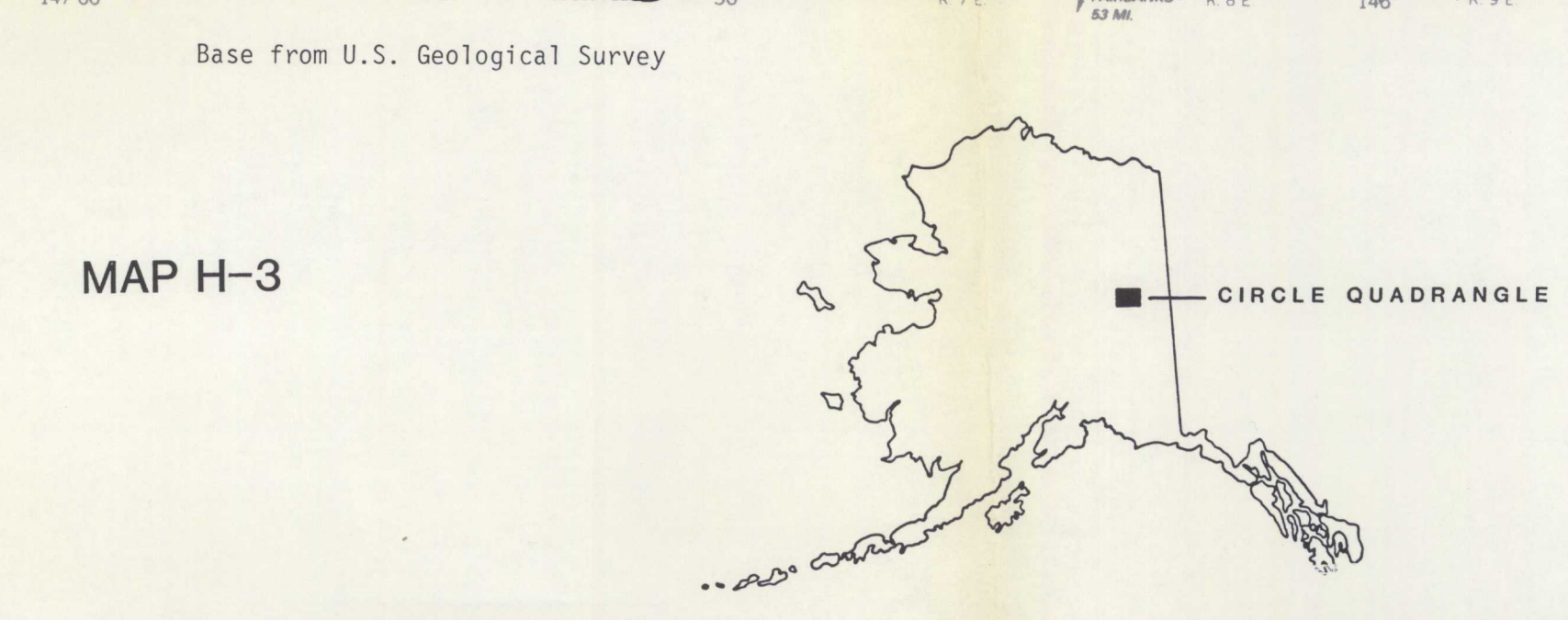
Pzp Serpentinized peridotite

Pzg Greenstones

Pze Eclogite

- sample site (values below lowest value shown).
- All values in parts per million (ppm).
  - L=detected, but below limits of determination.
  - G=greater than value shown.

This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature



Geology from Foster and others, 1983, U.S. Geological Survey Open-File Report 83-170-A

**GEOCHEMICAL MAP SHOWING DISTRIBUTION OF BARIUM, COBALT, COPPER, ZINC, NICKEL, AND LEAD IN THE MINUS-80-MESH STREAM SEDIMENT, CIRCLE QUADRANGLE, ALASKA**

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