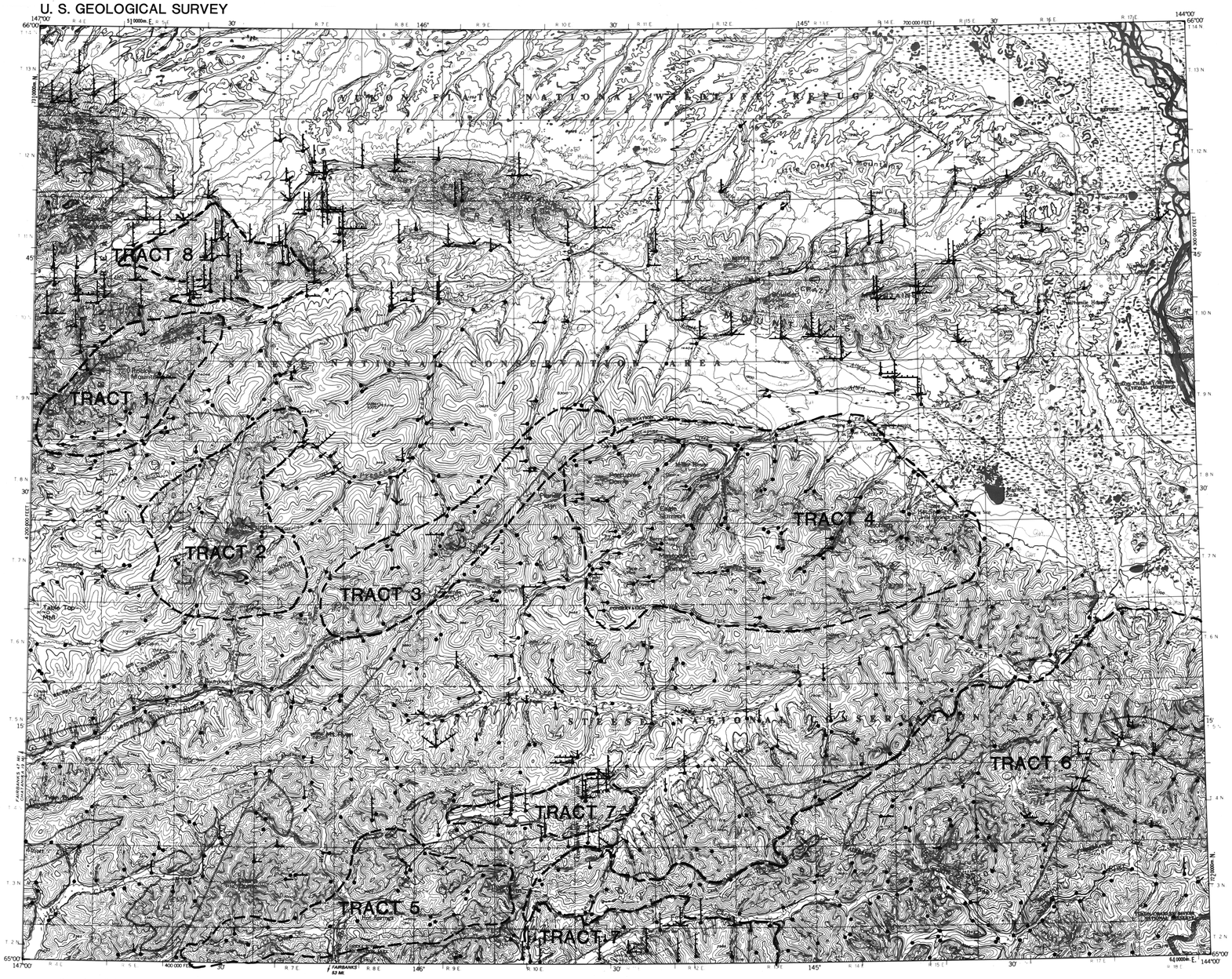
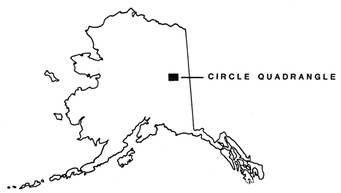


Base from U.S. Geological Survey

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

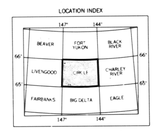
MAP G-3



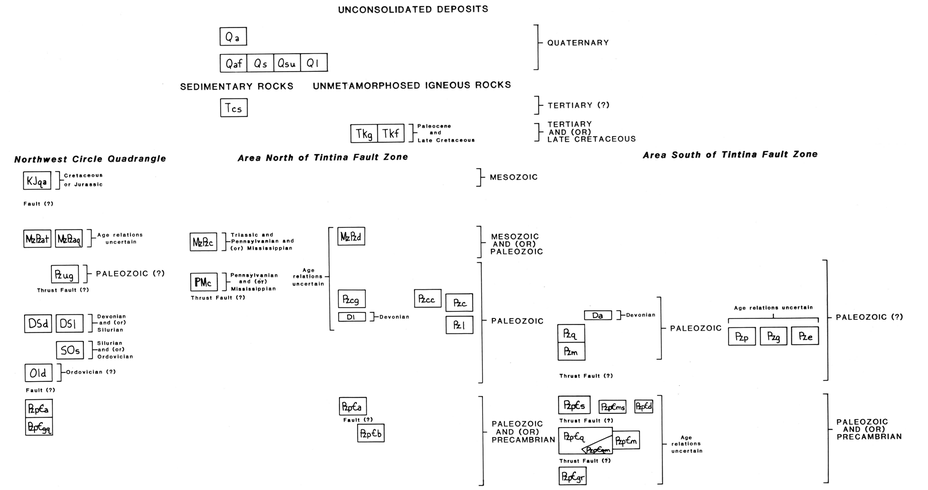
SCALE 1:250 000

5 0 5 10 MILES

5 0 5 10 KILOMETRES



CORRELATION OF MAP UNITS



MAP SYMBOLS

Contact--Approximately located, and inferred

Fault--Dashed where existence or kind of fault uncertain or where approximately located; dotted beneath covering deposits; U, upthrown side; D, downthrown side

Thrust fault--Postulated; dotted beneath covering deposits

Premetamorphic thrust fault--Postulated; predates major regional metamorphism; dotted beneath covering deposits

EXPLANATION OF SYMBOLS

Ba (barium)	Ni (nickel)	Zn (zinc)
3000	100-150	L(500)-500
5000	200	700-1500
7000-10,000	300	2000-5000
G(10,000)	500	7000-15,000

Cd (cadmium)	Cu (copper)	Co (cobalt)
20	100-200	100-150
50	300-700	200
100-150	1000-1500	300
200	2000-3000	500

● sample site (values below lowest value shown)

1. All values in parts per million (ppm).
2. L=detected, but below limit of determination.
3. G=greater than value shown.

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
MzPzat	Argillite, tuff, quartzite, and conglomerate
MzPzaq	Argillite and quartzite
Pzug	Ultramafic and mafic rocks and greenstone
DSd	Dolomite and argillite
DSl	Limestone, dolomite, and shale
SOs	Siltstone, dolomite, chert, and mafic igneous rocks
Old	Livengood Dome(?) Chert
PzpCa	Argillite, grit, and quartzite
PzpCgq	Grit, quartzite, and argillite

AREA NORTH OF TINTINA FAULT ZONE

MzPzc	Circle Volcanics and associated rocks
PMc	Chert, argillite, and quartzite
MzPzd	Diorite
Pzcg	Chert pebble conglomerate
Pzcc	Chert, conglomerate, and limestone
Pzc	Chert and argillite
Di	Limestone
Pzl	Limestone and chert
PzpCa	Argillite, grit, and quartzite
PzpCb	Basalt and limestone

AREA SOUTH OF TINTINA FAULT ZONE

Da	Augen gneiss
Pzq	Quartzite, meta-argillite and phyllite
Pzm	Phyllite, calcareous phyllite, and marble
PzpCs	Pelitic schist
PzpCms	Garnet-muscovite schist
PzpCd	Dolomite and marble
PzpCq	Quartzite and quartzitic schists (includes magnetic chlorite schist subunit (PzpCqm)
PzpCm	Mafic schist
PzpCgr	Grit and quartzite

Ultramafic, Mafic, and Eclogitic Rocks

Pzp	Serpentinized peridotite
Pzg	Greenstones
Pze	Eclogite

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

GEOCHEMICAL MAP SHOWING DISTRIBUTION OF BARIUM, NICKEL, ZINC, CADMIUM, COPPER, AND COBALT IN THE NONMAGNETIC HEAVY-MINERAL FRACTION OF STREAM SEDIMENT, CIRCLE QUADRANGLE, ALASKA

By
Richard B. Tripp, William D. Crim, James D. Hoffman, Richard M. O'Leary, and Donald A. Risoli

1986