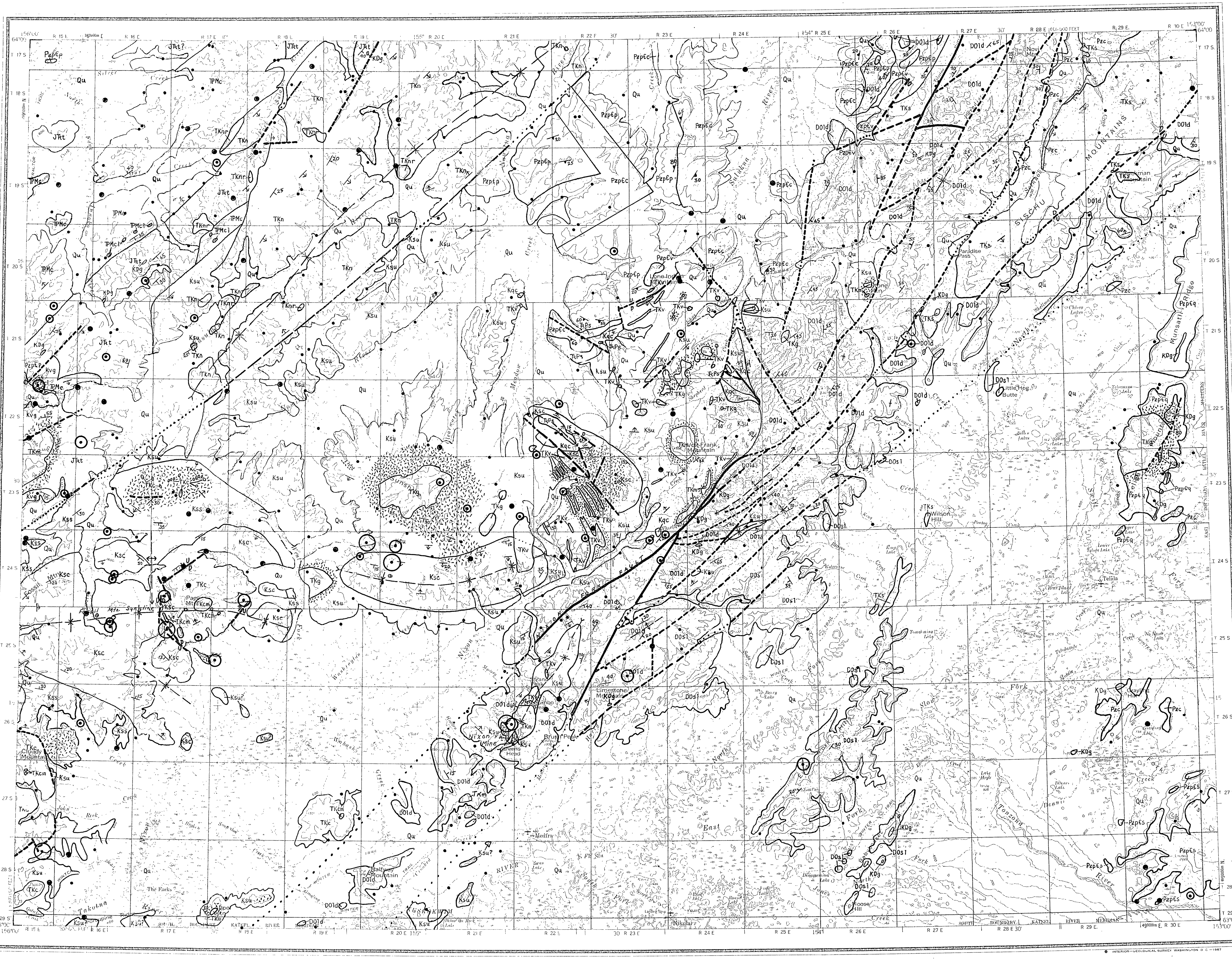
OPEN-FILE REPORT 80-811 L
SHEET 2 OF 2



Base from U.S. Geological Survey, 1959

Geology generalized from Patton and others, 1980

SCALE 1 250000

0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 200 FEET
DOTTED LINES REPRESENT 100 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL
1959 MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET VARIES FROM 23°00' TO 24°30' EAST

CORRELATION OF MAP UNITS

Unconsolidated Deposits

Qu — QUATERNARY — CENOZOIC

Bedrock

TKnr, TKn, TKcm, TKc, TKg, TKm, TKv, TKs — Lower Tertiary and Upper Cretaceous — TERTIARY AND CRETACEOUS

Unconformity

Ksc, Kss, Ksu — Upper Cretaceous — CRETACEOUS — MESOZOIC

Kqc — Lower Cretaceous

Kvg, JTRt — JURASSIC(?) AND TRIASSIC

TRPs — TRIASSIC

TPMc, TPMcl — PERMIAN PENNSYLVANIAN AND MISSISSIPPIAN — PALEOZOIC

DOsl, DOld — DEVONIAN TO ORDOVICIAN

unconformity

PzpЄv

unconformity(?)

PzpЄc, PzpЄp

Eastern edge of quadrangle

TDg — TERTIARY TO DEVONIAN

Pzc — LOWER PALEOZOIC

PzpЄq, PzpЄs — LOWER PALEOZOIC OR PRECAMBRIAN — PALEOZOIC OR PRECAMBRIAN

DESCRIPTION OF MAP UNITS

Qu — UNDIFFERENTIATED SURFICIAL DEPOSITS

TKnr, TKn — VOLCANIC ROCKS OF THE NOWITNA RIVER AREA--Chiefly trachyandesite, basaltic andesite, and basalt flows. TKnr--Rhyolite domes, tuffs, and breccia

TKcm, TKc — MAFIC TO INTERMEDIATE VOLCANO-PLUTONIC COMPLEXES--Altered basalt, andesite, and trachyandesite flows and hypabyssal intrusive bodies. TKcm--Small bodies of monzonite, quartz monzonite, and granodiorite

TKg — GRANITE

TKm — MONZONITE

TKv — VOLCANIC ROCKS OF NIXON FORK-UPPER SULUKNA RIVER AREA--Rhyolite, dacite, and trachyandesite sills, dikes, flows, and plugs

TKs — VOLCANIC ROCKS OF THE SISCHU MOUNTAINS--Rhyolite and dacite flows and domes

TDg — GABBRO

Ksu — UNDIFFERENTIATED SHALE, SILTSTONE, AND SANDSTONE

Ksc — NONMARINE SANDSTONE AND QUARTZ-CHERT CONGLOMERATE

Kss — MARINE SANDSTONE, SILTSTONE, AND SHALE

Kqc — QUARTZ-CARBONATE SANDSTONE AND PEBBLY MUDSTONE

Kvg — VOLCANIC GRAYWACKE AND CONGLOMERATE

JTRt — CHERTY TUFF, CRYSTAL AND LITHIC TUFFS, AND VOLCANIC BRECCIA

TRPs — SANDSTONE, SANDY LIMESTONE, SPICULITE, AND CONGLOMERATE

TPMc, TPMcl — CHERT AND LIMESTONE--Chiefly radiolarian chert. TPMcl--Limestone.

DOsl — SHALY LIMESTONE

DOld — LIMESTONE AND DOLOMITE

Pzc — CHERT AND PHYLLITE

PzpЄq — QUARTZITE, GRIT, AND ARGILLITE

PzpЄs — SHEARED GRIT, QUARTZITE, AND QUARTZ-MICA SCHIST

PzpЄv — METAVOLCANIC ROCKS--Metarhyolite and dacite

PzpЄc — CALC-SCHIST

PzpЄp — PELITIC SCHIST

GEOLOGIC SYMBOLS

- Contact - Includes approximately located, inferred, and indefinite
- Fault - Dashed where approximately located, short dashed where inferred, dotted where concealed. U, upthrown side; D, downthrown side
- Anticline - Showing direction of plunge
- Syncline - Showing direction of plunge
- Strike and dip of beds. May include overturned beds
- Strike of vertical beds
- Horizontal beds
- Strike and dip of beds based on photointerpretation or distant observation
- Strike and dip of foliation
- Zone of hornfels

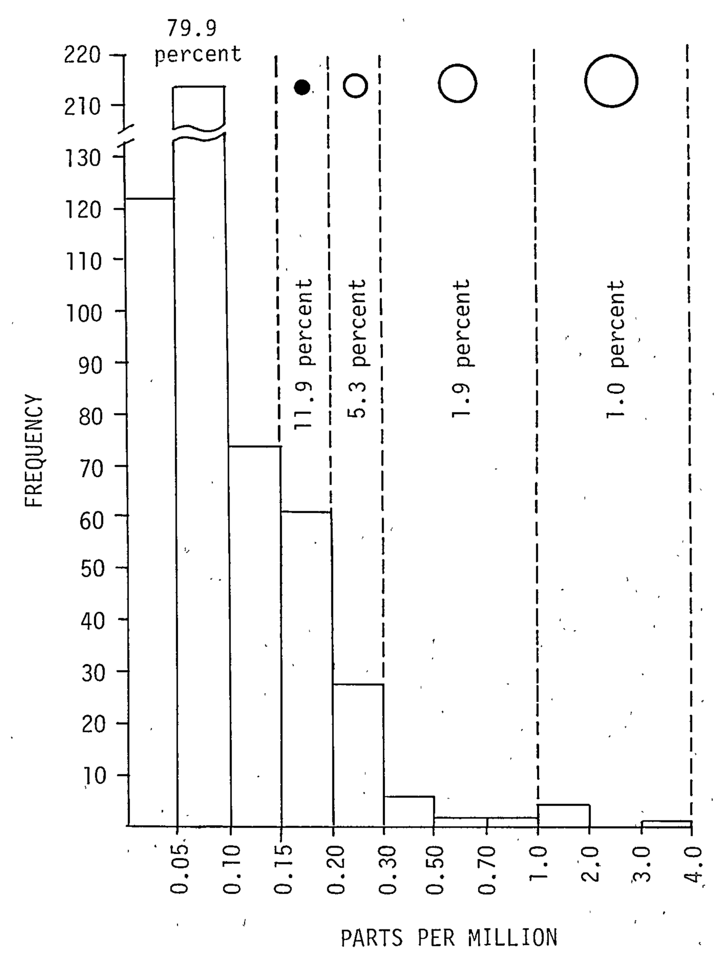


Figure 2.--Histogram for mercury in 513 minus-80-mesh stream-sediment samples, Medfra quadrangle, Alaska, showing symbols denoting concentrations, and percentage of total number of samples represented by each range.

MERCURY IN MINUS-80-MESH STREAM-SEDIMENT SAMPLES

DISTRIBUTION AND ABUNDANCE OF ANTIMONY AND MERCURY IN MINUS-80-MESH STREAM-SEDIMENT AND ANTIMONY IN NONMAGNETIC AND MODERATELY MAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES, MEDFRA QUADRANGLE, ALASKA

By
H. D. King, R. M. O'Leary, D. A. Risoli, and D. W. Galland

1983