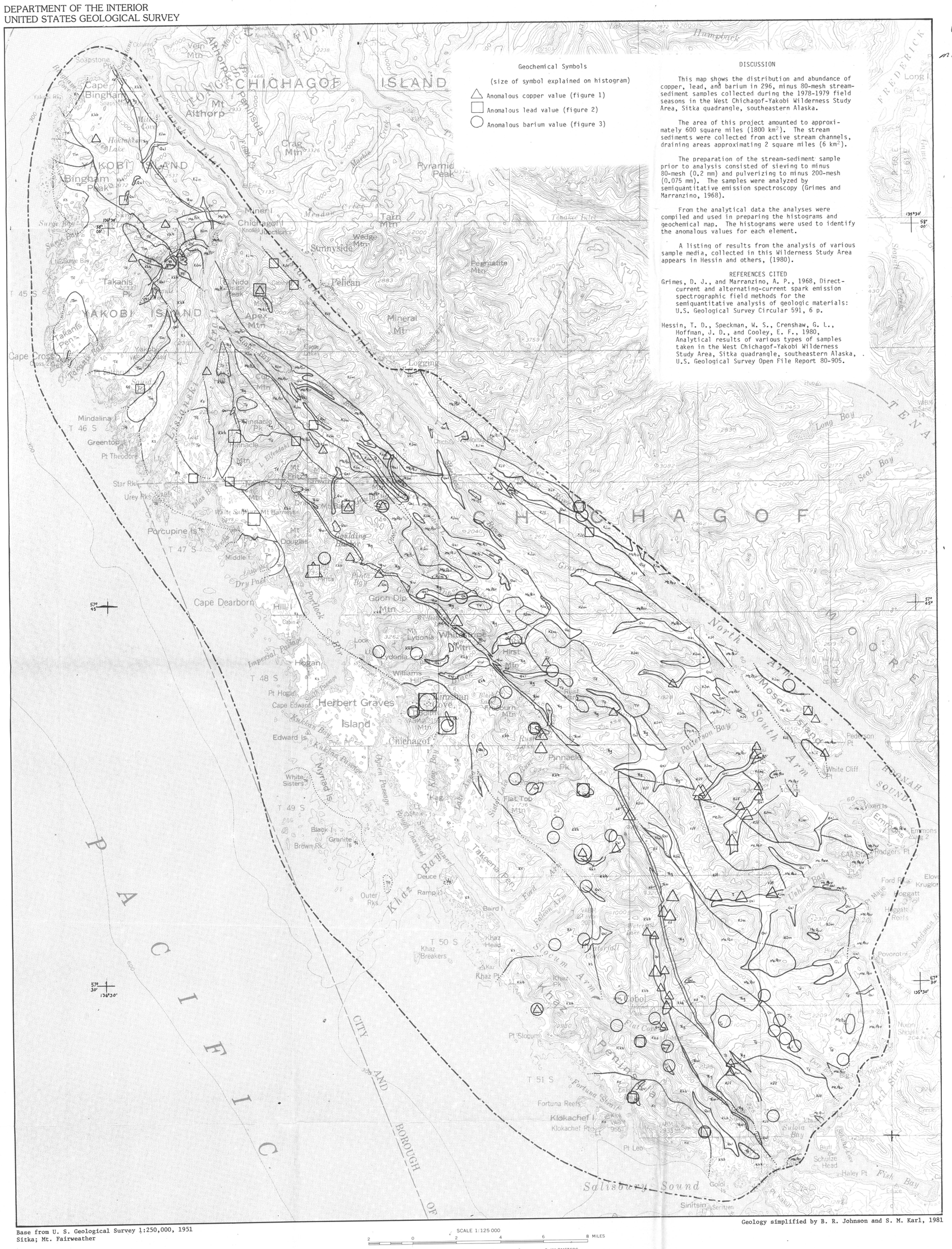
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT
81-27-Q



Base from U. S. Geological Survey 1:250,000, 1951
Sitka; Mt. Fairweather

Geology simplified by B. R. Johnson and S. M. Karl, 1981

SCALE 1:125 000
2 0 2 4 6 8 MILES
2 0 2 4 6 8 KILOMETERS

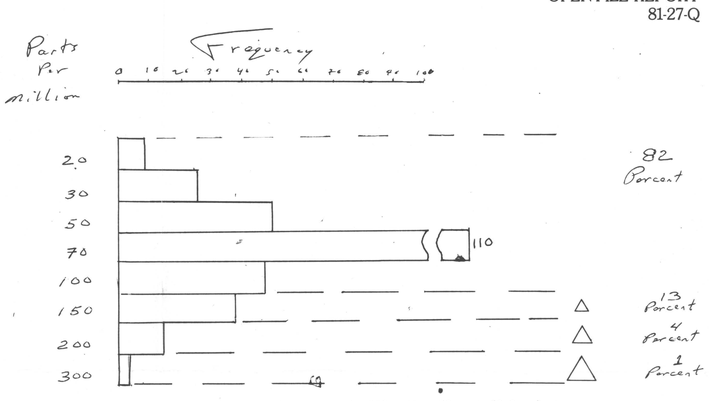


Figure 1.--Histogram showing copper in 296, minus 80 mesh (0.2 mm) stream-sediment samples in the West Chichago-Yakobi Wilderness Study Area. Triangles indicate anomalous concentrations and class percentages computed on total sample population. Analysis by optical emission spectroscopy (Grimes and Marranzino, 1968).

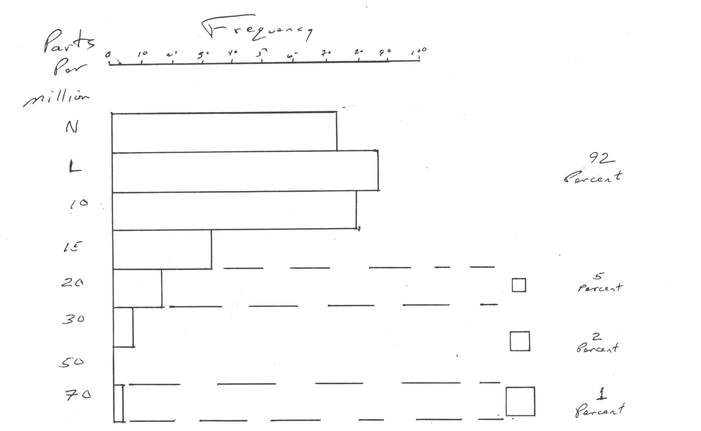


Figure 2.--Histogram showing lead in 296, minus 80-mesh (0.2 mm) stream-sediment samples from the West Chichago-Yakobi Wilderness Study Area. Squares indicate anomalous concentrations with class perecentages computed on total sample population. Analysis by optical emission spectroscopy (Grimes and Marranzino, 1968).

N, not detected at limit of detection

L, detected but below limit of determination

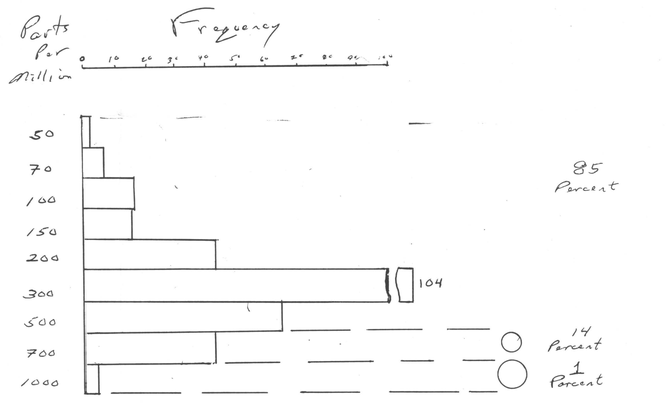
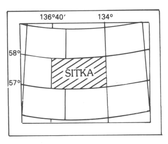


Figure 3.--Histogram showing barium in 296, minus 80-mesh (0.2 mm) stream-sediment samples in the West Chichago-Yakobi Wilderness Study Area. Circles indicate anomalous concentrations with class percentages computed on total sample population. Analysis by optical emission spectroscopy (Grimes and Marranzino, 1968).

QUADRANGLE LOCATION



INDEX SHOWING LOCATION OF STUDY AREA

CORRELATION OF MAP UNITS

Qal	QUATERNARY
Tf, Tm	TERTIARY(?)
Kd	CRETACEOUS(?)
Ks	CRETACEOUS
Kkb	CRETACEOUS
KJf, KJm	CRETACEOUS AND JURASSIC
Trw	TRIASSIC(?)
Trg	TRIASSIC(?)
MzPzu	MESOZOIC AND PALEOZOIC(?)

LIST OF MAP UNITS

Qal	ALLUVIAL DEPOSITS--Undivided
Tf	FELSIC PLUTONIC ROCKS--Dominantly tonalitic
Tm	MAFIC PLUTONIC ROCKS--Dominantly gabbroic
Kd	DIORITE SILL--Extensively altered
Ks	SITKA GRAYWACKE
Kkb	KELP BAY GROUP--Metasediments and metavolcanics
KJf	FELSIC PLUTONIC ROCKS--Dominantly granodiorite
KJm	MAFIC PLUTONIC ROCKS--Dominantly quartz diorite, diorite, and gabbro
Trw	WHITESTRIPE MARBLE
Trg	GOON DIP GREENSTONE
MzPzu	UNDIVIDED METASEDIMENTARY--Metavolcanic and metaplutonic rocks

GEOCHEMICAL MAP SHOWING THE DISTRIBUTION AND ABUNDANCE OF COPPER, LEAD, AND BARIUM IN STREAM-SEDIMENT SAMPLES IN THE WEST CHICHAGOF-YAKOBI WILDERNESS STUDY AREA, SITKA QUADRANGLE, SOUTHEASTERN ALASKA

By
T.D. Hessin, M.G. Maslowski, and G.W. Day

1981

Studies Related to Wilderness

The Wilderness Act (Public Law 88-577, Sept. 3, 1964) and related Acts require the U.S. Geological Survey to survey certain areas on Federal lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the West Chicagof-Yakobi Wilderness Study Area, Sitka quadrangle, southeastern Alaska.