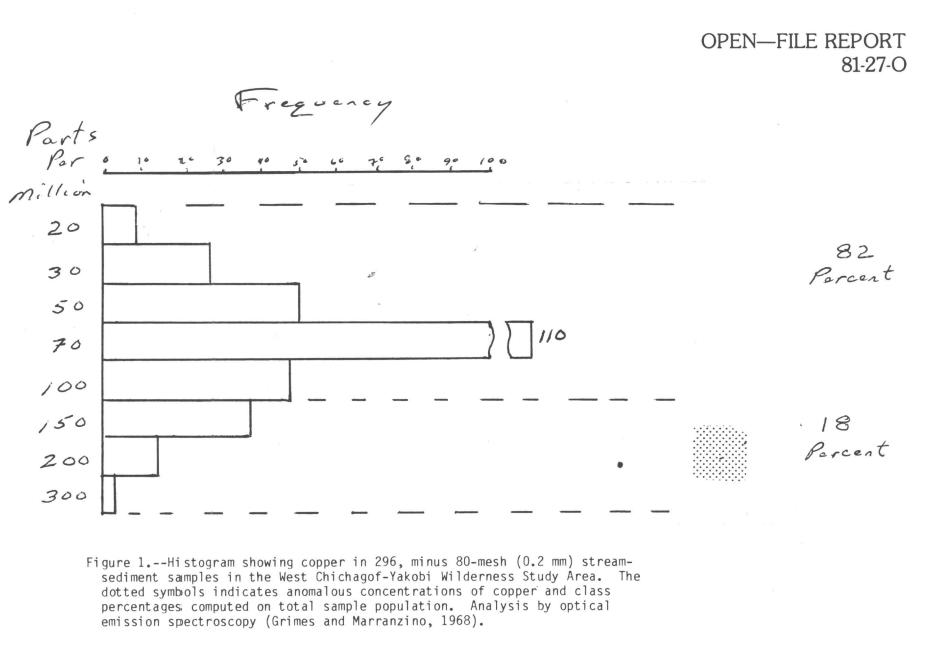


GEOCHEMICAL MAP SHOWING ANOMALOUS PATTERNS FOR THE ELEMENT COPPER IN STREAM SEDIMENTS, FILTERED WATER, AND NONMAGNETIC HEAVY-MINERAL CONCENTRATES IN THE WEST CHICHAGOF-YAKOBI WILDERNESS STUDY AREA, SITKA QUADRANGLE, SOUTHEASTERN ALASKA

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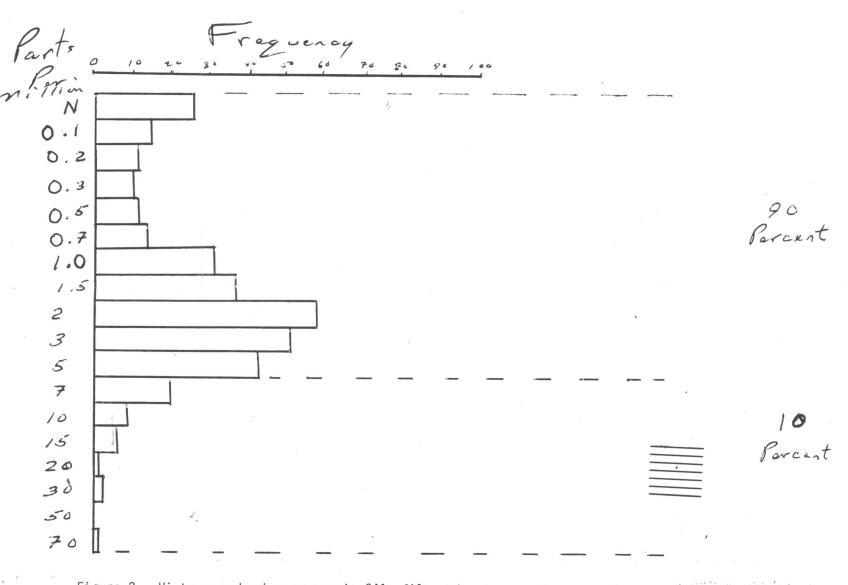


Figure 2.--Histogram showing copper in 341, filtered water samples from the West Chichagof-Yakobi Wilderness Study Area. The horizontal line symbol indicates anomalous concentrations of copper and class percentages computed on total sample population. Analysis by flameless atomic absorption spectrophotometry, Miller and Ficklin, 1976).

N, not detected at limit of detection

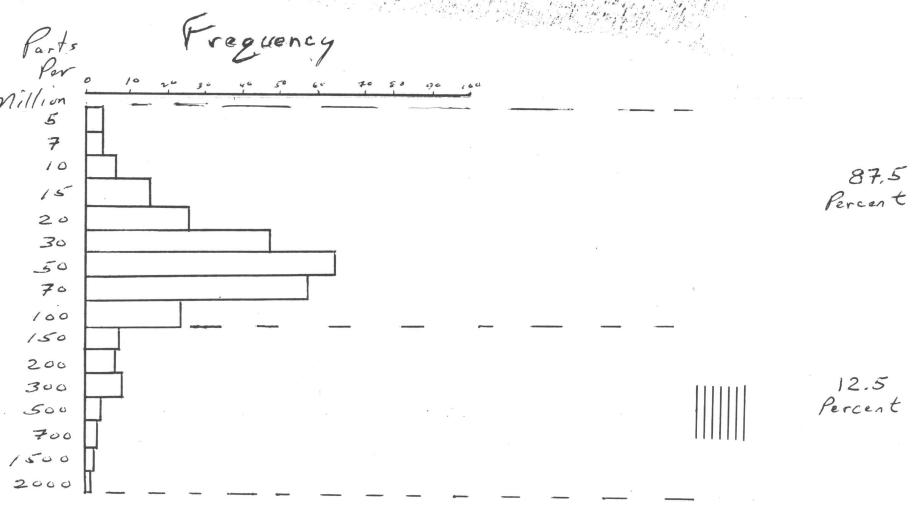
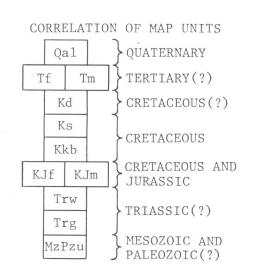


Figure 3.--Histogram showing copper in 287, nonmagnetic, heavy-mineral concentrates from the West Chichagof-Yakobi Wilderness Study Area. The vertical line symbol indicates anomalous concentrations of copper and class percentages computed on total sample population. Analysis by optical emission spectroscopy (Grimes and Marranzino, 1968).



LIST OF MAP UNITS

Qa1	ALLUVIAL DEPOSITSUndivided
Tf	FELSIC PLUTONIC ROCKSDominantly tonalitic
Tm	MAFIC PLUTONIC ROCKSDominantly gabbroic
Kd	DI@RITE SILLExtensively altered
Ks	SITKA GRAYWACKE
Kkb	KELP BAY GROUPMetasediments and metavolcanics
KJf	FELSIC PLUTONIC ROCKSDominantly 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

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.