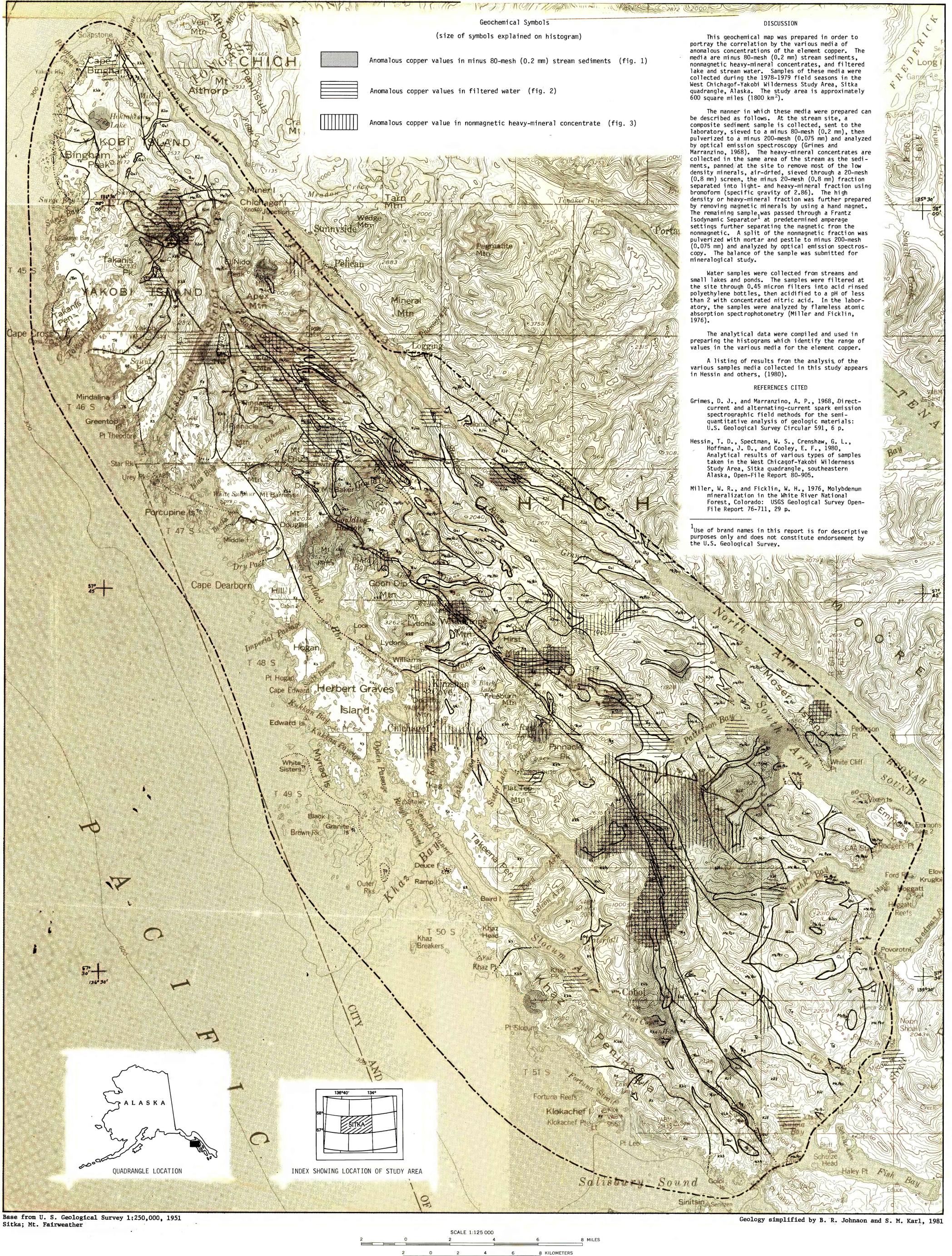
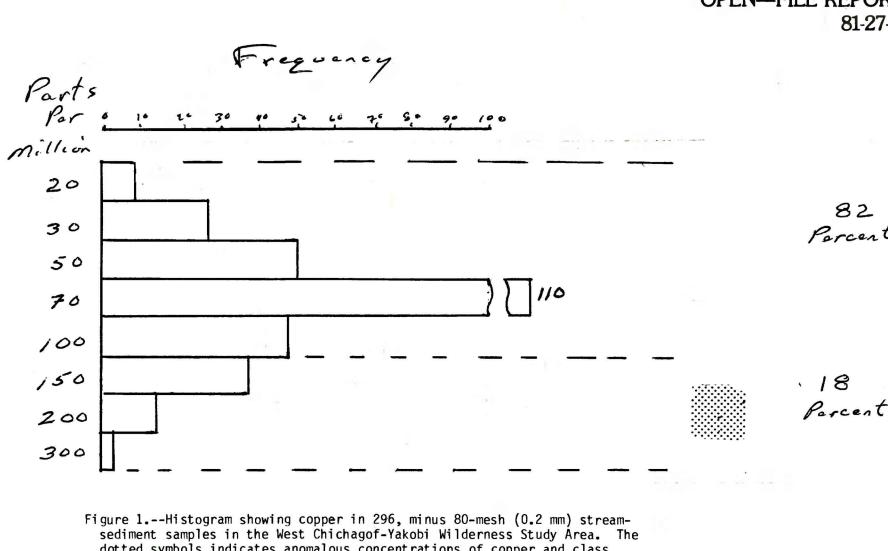
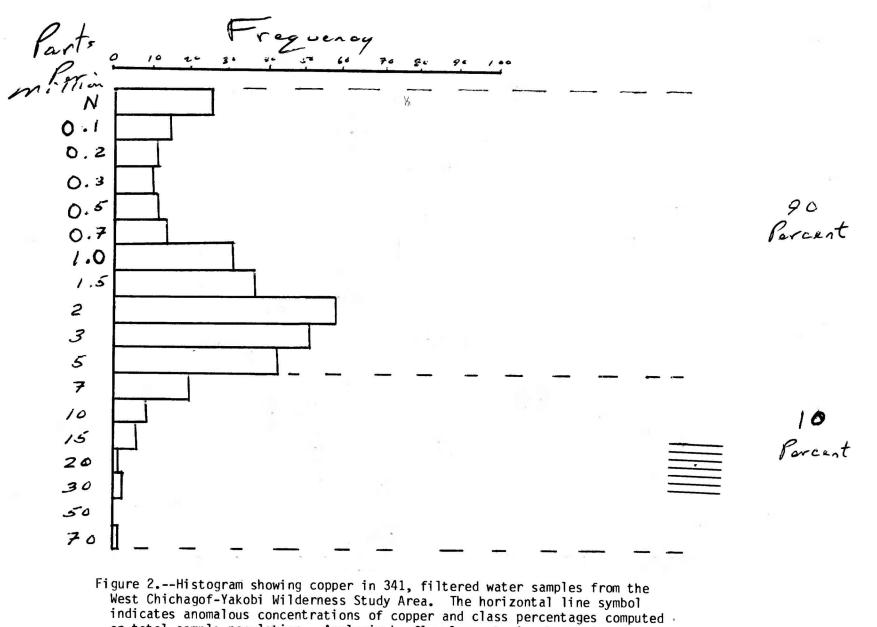
DEPARTMENT OF THE INTERIOR **OPEN—FILE REPORT** UNITED STATES GEOLOGICAL SURVEY



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

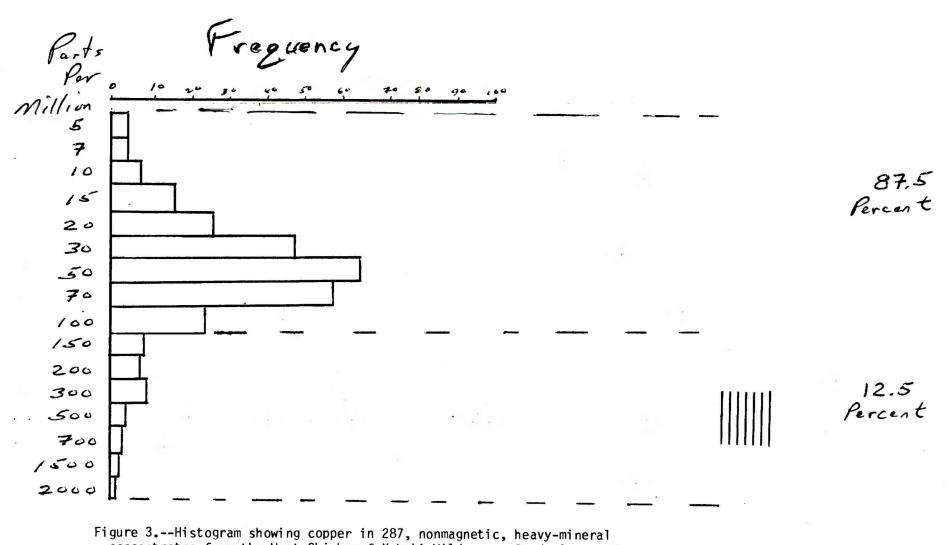


dotted symbols indicates anomalous concentrations of copper and class percentages computed on total sample population. Analysis by optical emission spectroscopy (Grimes and Marranzino, 1968).

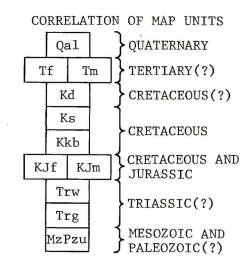


on total sample population. Analysis by flameless atomic absorption spectrophotometry, Miller and Ficklin, 1976).

N, not detected at limit of detection



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

T	`f	FELSIC PLUTONIC ROCKSDominantly tonalitic
T	'm	MAFIC PLUTONIC ROCKSDominantly gabbroic
K	.d	DIORITE SILLExtensively altered
K	s	SITKA GRAYWACKE
K	kb	KELP BAY GROUPMetasediments and metavolcanics
K	Jf	FELSIC PLUTONIC ROCKSDominantly granodiorite
K	Jm	MAFIC PLUTONIC ROCKSDominantly quartz diorite, diorite, and gabbro
T	rw	WHITESTRIPE MARBLE

GOON DIP GREENSTONE MzPzu UNDIVIDED METASEDIMENTARY--Metavolcanic and metaplutonic rocks

ALLUVIAL DEPOSITS--Undivided

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