

# GEOCHEMICAL MAP SHOWING THE DISTRIBUTION AND ABUNDANCE OF SULFATE AND FLUORIDE IN UNFILTERED WATER SAMPLES IN THE WEST CHICHAGOF-YAKOBI WILDERNESS STUDY AREA, SITKA QUADRANGLE, SOUTHEASTERN ALASKA

By  
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1981

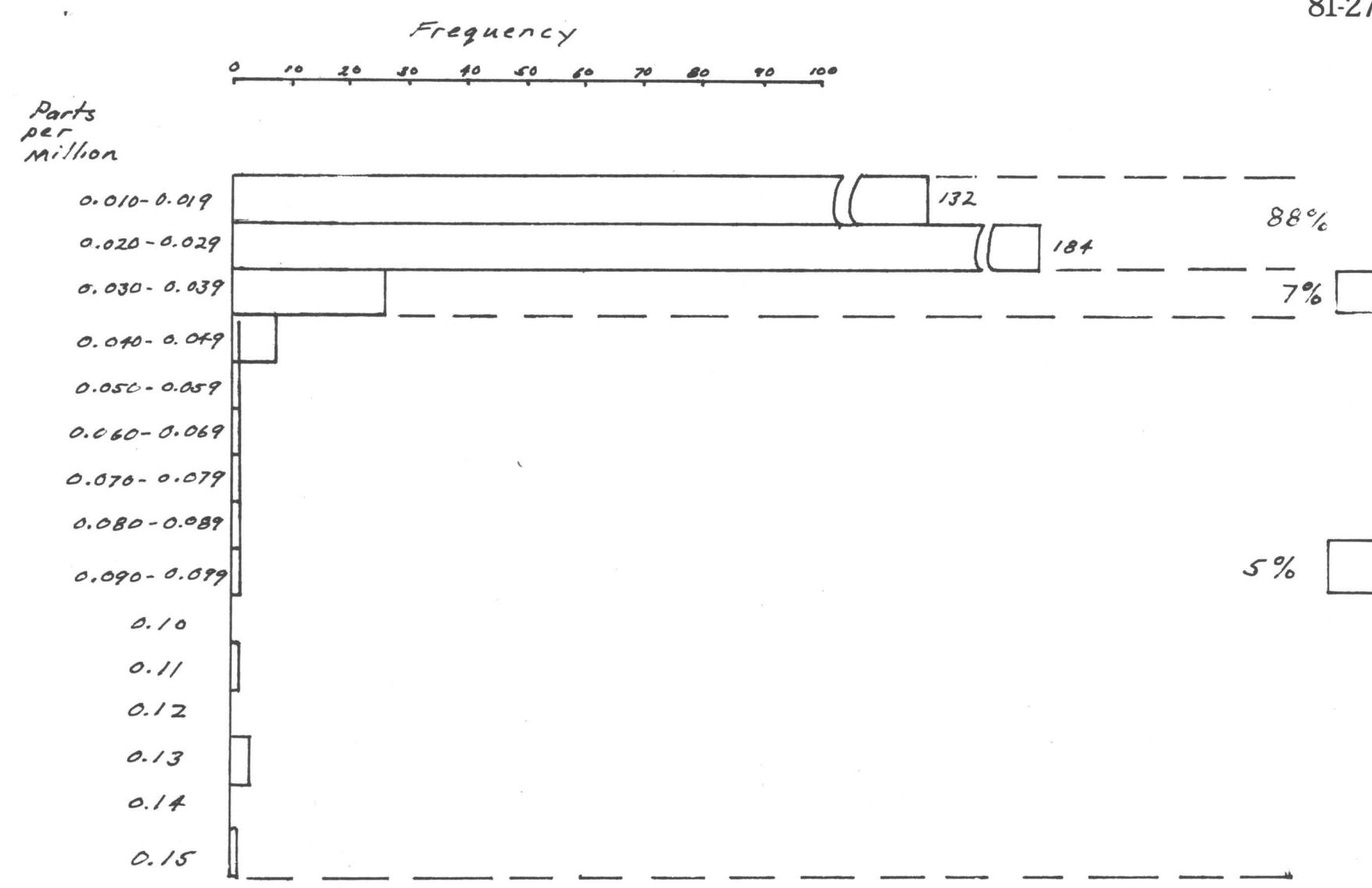


Figure 1.--Histogram showing sulfate in 359, unfiltered water samples from the West Chichagof-Yakobi Wilderness Study Area. Analysis by ion chromatography, (Fishman and Pyen, 1979). Circles indicate anomalous concentrations and class percentages computed on total sample population.

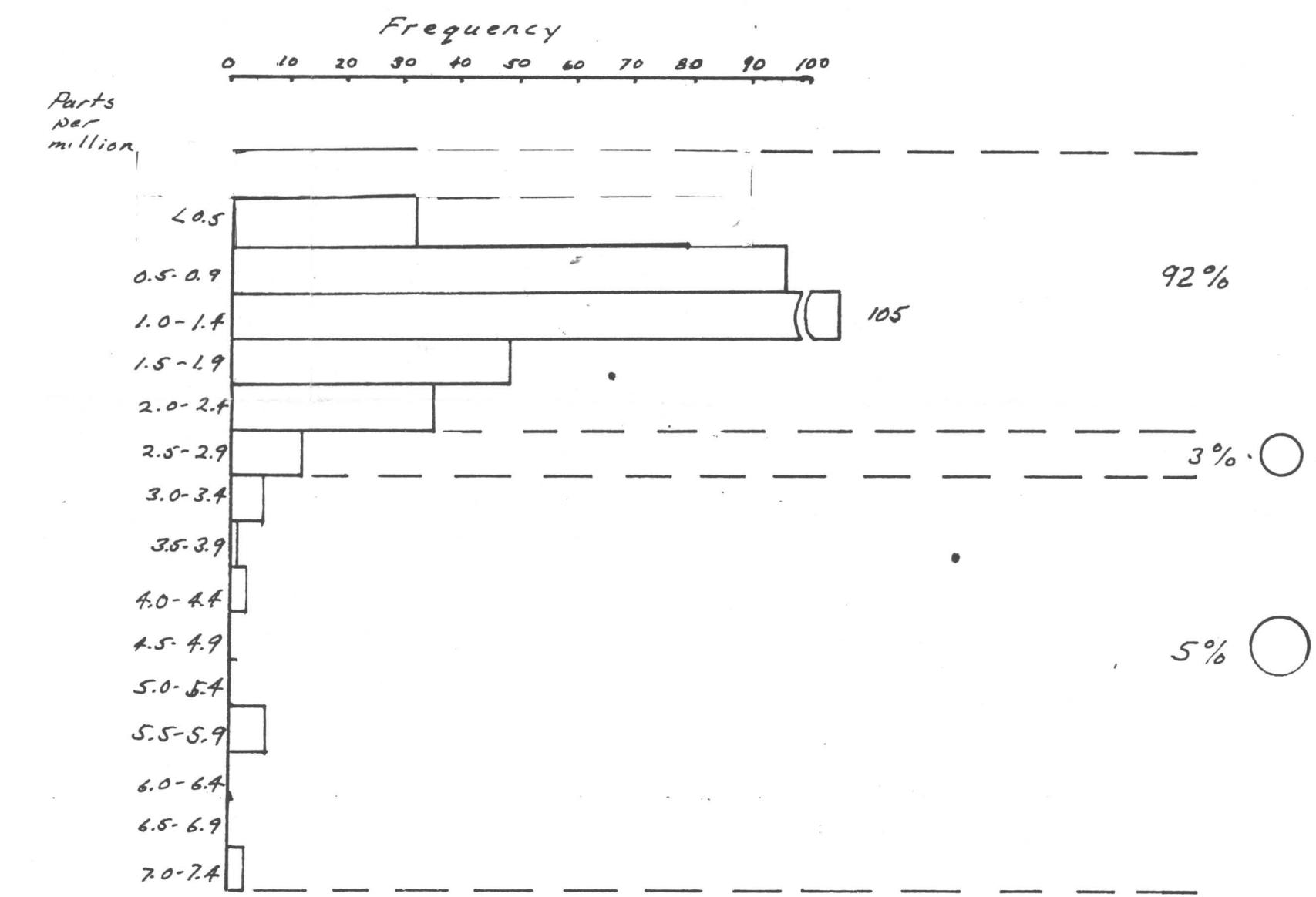


Figure 2.--Histogram showing fluoride in 359, unfiltered water samples from the West Chichagof-Yakobi Wilderness Study Area. Analysis by ion chromatography (Fishman and Pyen, 1979). Squares indicate anomalous concentrations and class percentages computed on total sample population.

CORRELATION OF MAP UNITS

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

#### LIST OF MAP UNITS

ALLUVIAL DEPOSITS--Undivided  
FELSIC PLUTONIC ROCKS--Dominantly tonalitic  
MAFIC PLUTONIC ROCKS--Dominantly gabbroic  
DIORITE SILL--Extensively altered  
SITKA GRAYWACKE  
KELP BAY GROUP--Metasediments and metavolcanics  
FELSIC PLUTONIC ROCKS--Dominantly granodiorite  
MAFIC PLUTONIC ROCKS--Dominantly quartz diorite, diorite, and gabbro  
WHITE STRIPE MARBLE  
GOON DIP GREENSTONE  
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 Chicago-Yakobi Wilderness Study Area, Sitka quadrangle, southeastern Alaska.