

# GEOCHEMICAL MAP SHOWING THE DISTRIBUTION AND ABUNDANCE OF COBALT, CHROMIUM AND NICKEL IN STREAM-SEDIMENT SAMPLES IN THE WEST CHICHAGOF-YAKOBI WILDERNESS STUDY AREA, SITKA QUADRANGLE, ALASKA

By  
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1981

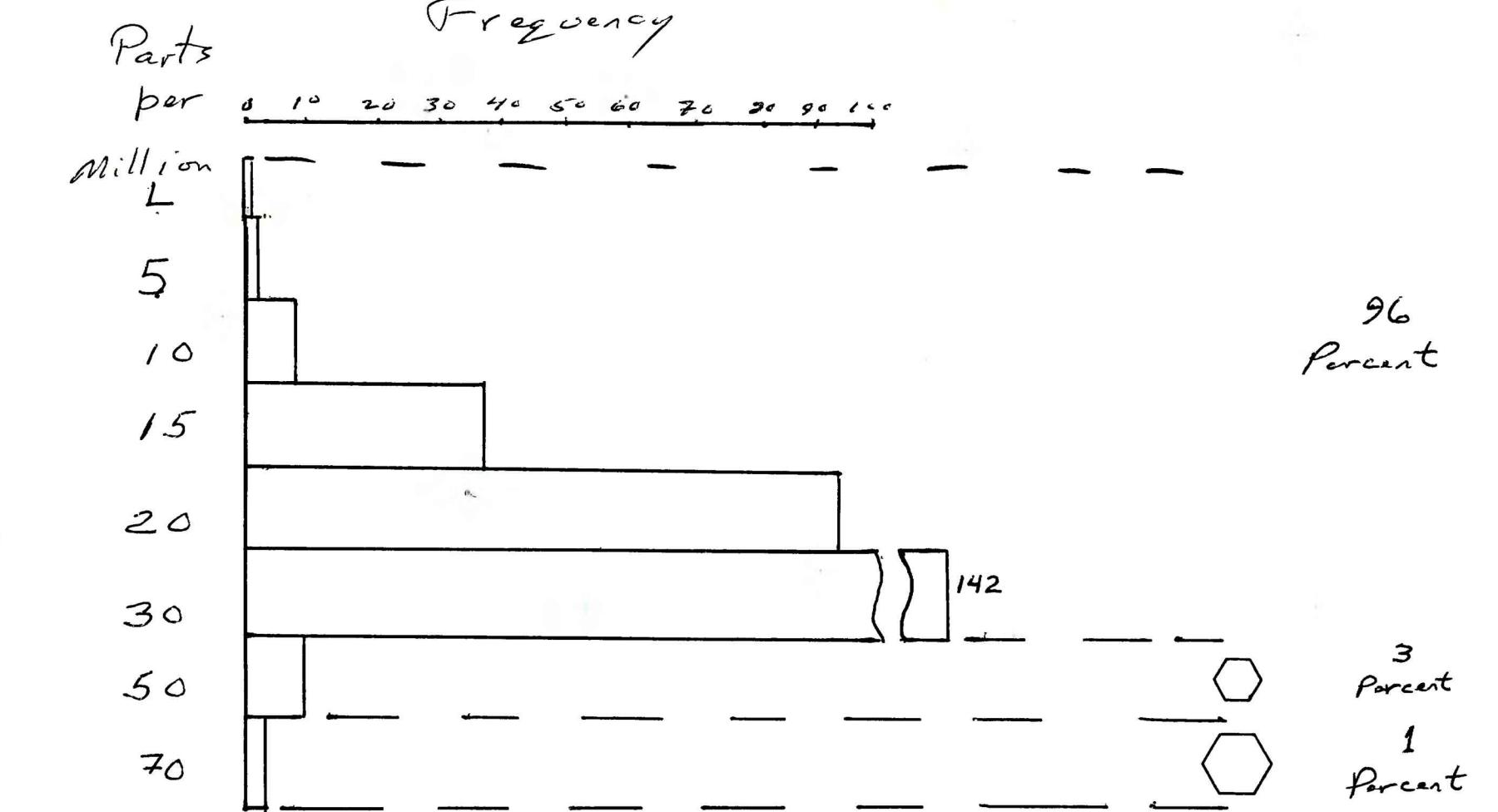


Figure 1.--Histogram showing cobalt in 296, minus 80-mesh (0.2 mm) stream-sediment samples from the West Chichagof-Yakobi Wilderness Study Area. Analysis by optical emission spectroscopy (Grimes and Marranzino, 1968). Hexagons indicate anomalous concentrations and class percentages computed on total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

, detected but below level of determination

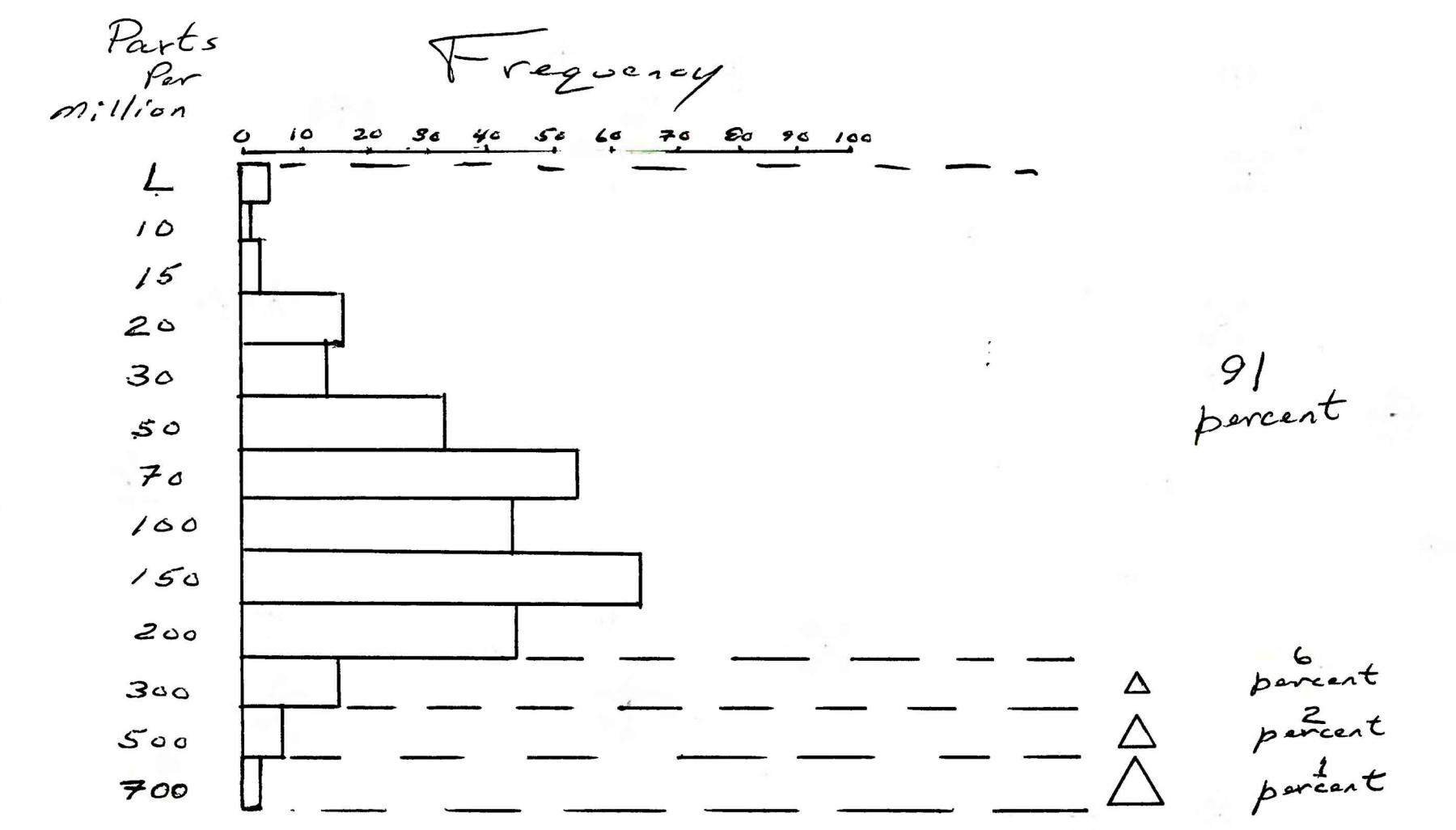


Figure 2.--Histogram showing chromium in 296, minus 80-mesh (0.2 mm) stream-sediments samples from the West Chichagof-Yakobi Wilderness Study Area. Analysis by optical emission spectroscopy (Grimes and Marranzino, 1968). Triangles indicate anomalous concentrations and class percentages computed on total sample population.

, detected but below level of determination

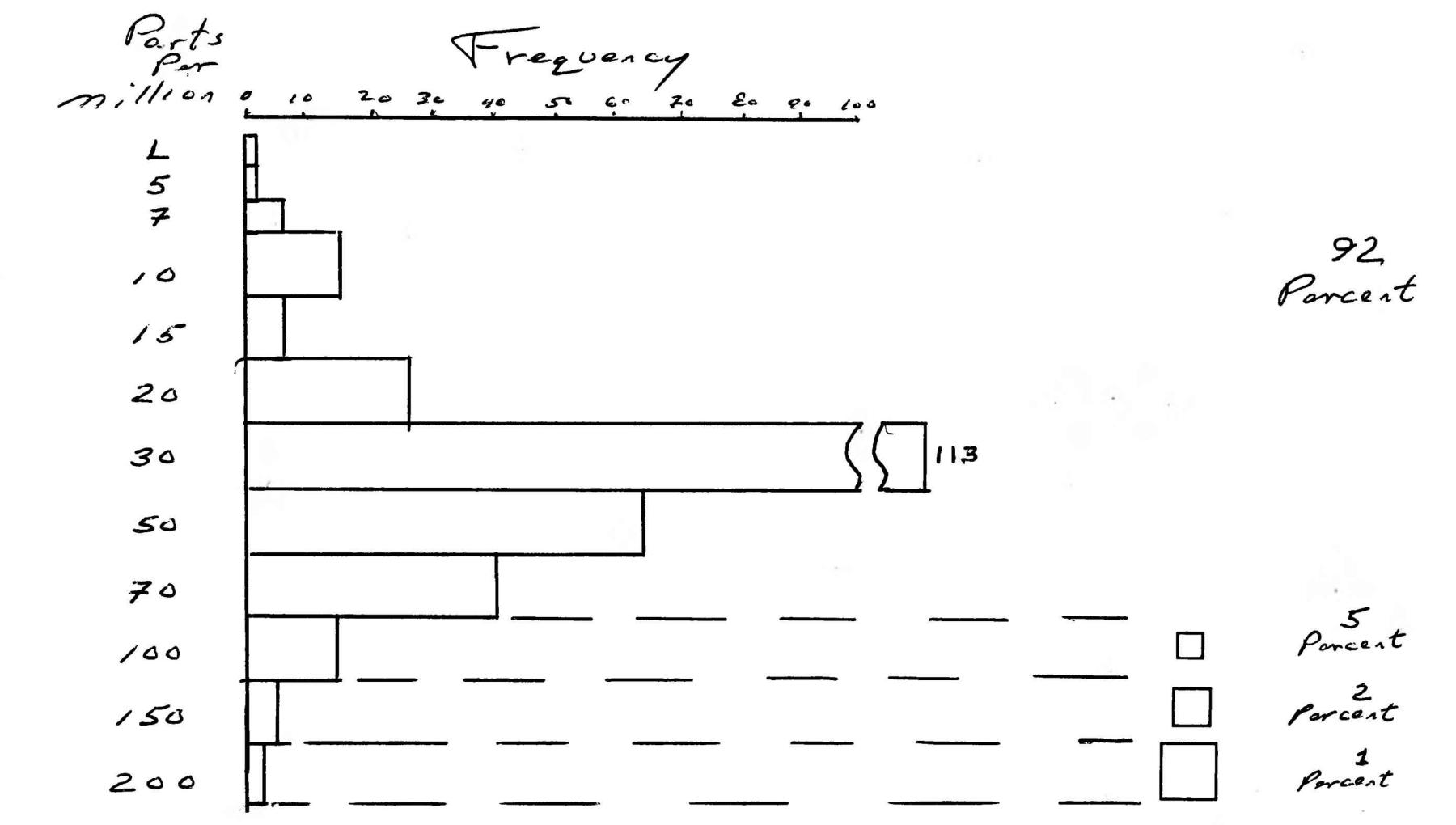


Figure 3.--Histogram showing nickel in 296, minus 80-mesh (0.2 mm) stream-sediment samples from the West Chichagof-Yakobi Study Area. Analysis by optical emission spectroscopy (Grimes and Marranzino, 1968). Squares indicate anomalous concentrations and class percentages computed on total sample population.

, detected but below level of determination

CORRELATION OF MAP UNITS

Qa1		QUATERNARY
Tf	Tm	
Kd		CRETACEOUS (?)
Ks		
Kkb		CRETACEOUS
Jf	KJm	CRETACEOUS AND JURASSIC
Trw	Trg	
Mz	Pzu	TRIASSIC (?)
		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  
WHITESTRIPE 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 Chigachof-Yakobi Wilderness Study Area, Sitka quadrangle, southeastern Alaska.