UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1312-L
PLATE 1

EXPLANATION

Qu — Unconsolidated deposits
Alluvial, glacial, lacustrine, and beach deposits

Qb | Qbo — Beach deposits
Qb, *present beach deposits*
Qbo, *older beach deposits. Form ridges*

Holocene — QUATERNARY

UNCONFORMITY

TMzi — Intrusive igneous rocks
Mainly quartz diorite, granodiorite, and adamellite, with subordinate granite and alaskite

KJy — Yakutat Group
Interbedded graywacke, siltstone, conglomeratic siltstone, conglomerate, and greenstone

MESOZOIC OR TERTIARY

JURASSIC(?) AND CRETACEOUS

Mzr — Foliated rocks
Slate, phyllite, mica schist, migmatite, amphibolite, greenschist, and marble. May be derived in part from the Yakutat Group

Pzr — Foliated rocks
Marble, metavolcanics, and mica schist

Stratigraphic relationships unknown

MESOZOIC AND OLDER(?)

PALEOZOIC(?)

Approximate contact
Dotted where concealed

Major fault
Dashed where inferred, dotted where concealed

Area covered by airborne magnetometer survey
Connecting reconnaissance lines shown by light dashed line

SAMPLE DATA

○ Location of nonanomalous stream-sediment sample

□ Location of nonanomalous rock, altered zone, or vein sample

Au, Ag, Zr / Cr, Ti, V — Cu, Mo, Zn / Co, Ni
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Anomalous samples

The samples are keyed by sample numbers to analyses and descriptions given in table 1 and (or) tables of MacKevett and Plafker (1969)
Metal content indicated by blocked quadrants and chemical symbols. Results are in parts per million, except Ti which is given in percent. Metals present in anomalous amounts, but subordinate to anomalous concentrations of another metal in the same quadrant, are shown in parentheses. Richness and type of sample indicated as follows:

Element	Mo	Cu	Ag	Cu / Ni	Cu	Ti
	Stream sediment	Other[1]	Stream sediment	Other[1]	Stream or beach sediment	Other[1]
Cu	100–200		201–500		>500	
Mo	3–10		11–30		>30	
Zn	100–300		301–1,000		>1,000	
Co	50–100		101–300		>300	
Ni	100–200		201–500		>500	
Cr	300–1,000		>1,000			
Ti	1		>1			
V	300		301–500		>500	
Au	0.02		0.03–0.1		>0.1	
Ag	0.5		0.7			
Zr	400–500		>500			

[1] Includes country rocks, mineralized rocks, altered zones, and veins.

Base from U.S. Geological Survey, 1963

MAP SHOWING GENERALIZED GEOLOGY, GEOCHEMICAL SAMPLE LOCATIONS, AND SIZE OF ANOMALOUS CONCENTRATIONS OF METALS FOR PARTS OF THE YAKUTAT AND MOUNT SAINT ELIAS QUADRANGLES, ALASKA

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 200 FEET IN UNITED STATES AND 500 FEET IN CANADA
DOTTED LINES REPRESENT 100-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
1970 MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET VARIES FROM 28° TO 29° EAST