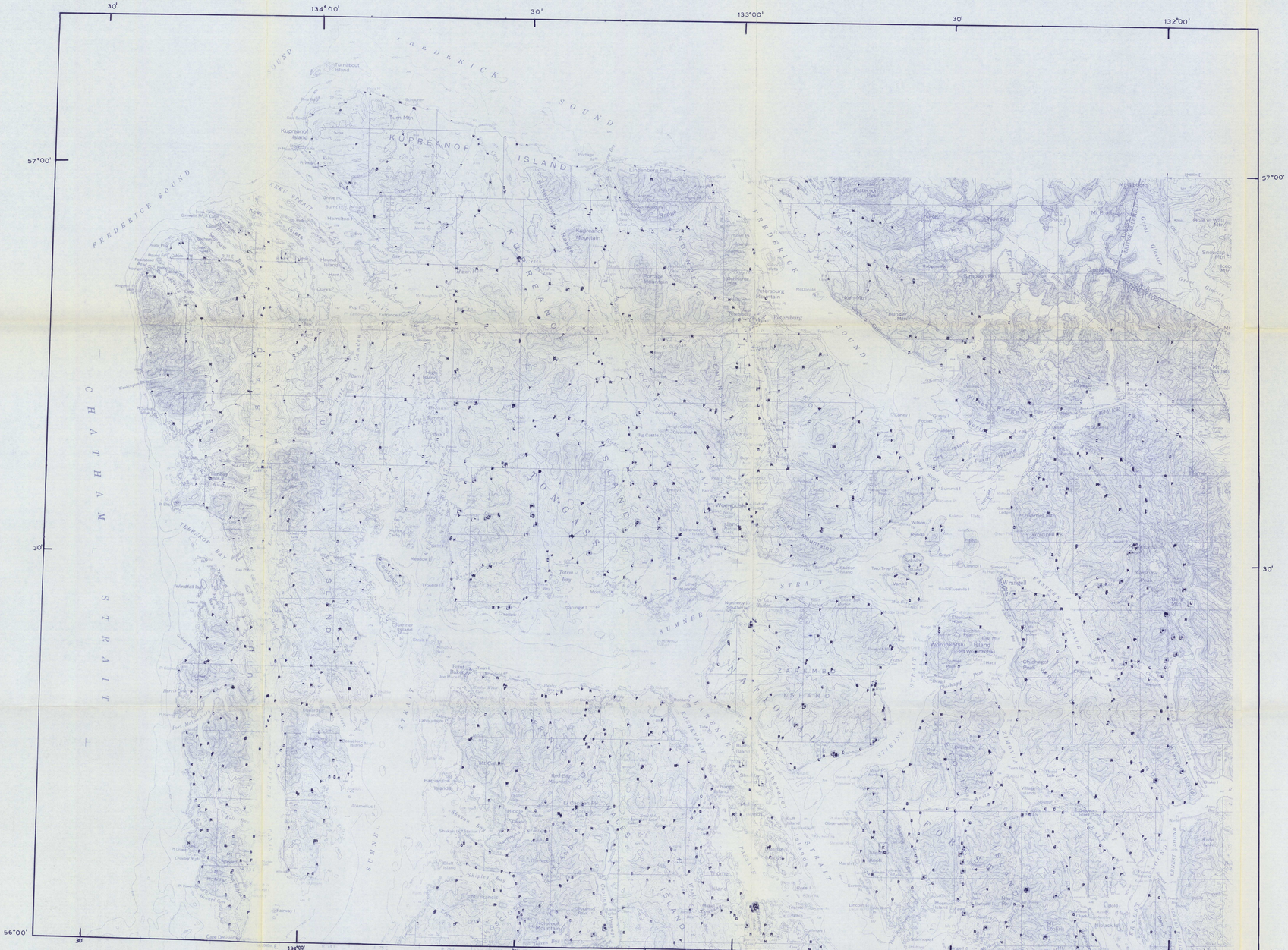
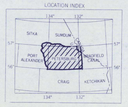
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY



Base from U.S. Geological Survey Petersburg, 1960; Bradfield Canal, 1955; Sumdum, 1961, 1971; Port Alexander, 1951, 1977; Sitka, 1951, 1970

SCALE 1:250000

CONTOUR INTERVAL 200 FEET IN THE UNITED STATES AND 250 FEET IN CANADA
DATUM IS MEAN SEA LEVEL



This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards.

OPEN-FILE REPORT
83-420-D

EXPLANATION

SAMPLE SITES--Letters are explained on table 1.

☐ Anomalous site--sample locality at which the concentration is considered to deviate from the upper limit of normal background values, as determined by inspection of histograms, percentiles, and enrichment relative to crustal abundance.

A Concentration

NOTE

This map is one of a series of geochemical maps concerning the Petersburg area, southeast Alaska. For discussion of sample description, collection methods, media selection, sample preparation, statistical data, and analytical techniques, see Cathrall and others (1983)

REFERENCE

Cathrall, J. B., Day, G. W., Hoffman, J. D., and McDanal, S. K., 1983, A listing and statistical summary of analytical results for pebbles, stream sediments, and heavy-mineral concentrates from stream sediment, Petersburg area, southeast Alaska: U.S. Geological Survey Open-File Report 83-420-A.

Table 1.--Lead in 1449 minus-80-mesh stream sediment samples, Petersburg area, southeast Alaska.

[Concentrations in parts per million; <, detected, but less than value shown; N, not detected at limit of detection or at value shown. Arithmetic mean, 24.8; standard deviation, 59.6; geometric mean, 18.6; and geometric deviation, 1.8, based on unqualified values within the sample population.]

Concentration	Map symbol	Frequency	Percentile
2,000	A	1	100
1,500	B	0	99.93
1,000	C	0	99.93
700	D	0	99.93
500	F	3	99.93
300	H	1	99.75
200	J	0	99.65
150	K	1	99.59
100	L	11	99.59
70	M	65	98.83
50	N	104	94.34
30	O	142	87.16
20	P	388	77.36
15	R	288	50.59
10	S	421	30.71
<10	T	22	1.66
N10	X	2	0.14
			.00

DISTRIBUTION AND ABUNDANCE OF LEAD, DETERMINED BY SPECTROGRAPHIC ANALYSIS, IN THE MINUS-80-MESH FRACTION OF STREAM SEDIMENTS, PETERSBURG AREA, SOUTHEAST ALASKA

By

John B. Cathrall, Gordon W. Day, James D. Hoffman, and Steven K. McDanal

1983