

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 McDaniel, 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.--Nickel 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, 35.6; standard deviation, 23.3; geometric mean, 29.8; and geometric deviation, 3, based on unqualified values within the sample population.]

| Concentration | Map symbol | Frequency | Percentile |
|---------------|------------|-----------|------------|
| | | | 100 |
| 300 | A | 1 | 99.93 |
| 200 | B | 1 | 99.86 |
| 150 | C | 7 | 99.38 |
| 100 | D | 48 | 96.07 |
| 70 | F | 117 | 87.99 |
| 50 | H | 261 | 69.98 |
| 30 | J | 521 | 34.02 |
| 20 | K | 301 | 13.25 |
| 15 | L | 88 | 7.18 |
| 10 | M | 56 | 3.31 |
| 7 | N | 9 | 2.69 |
| 5 | O | 33 | 0.41 |
| <5 | P | 2 | .28 |
| N5 | X | 4 | .00 |

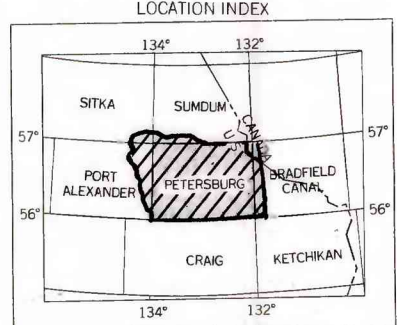
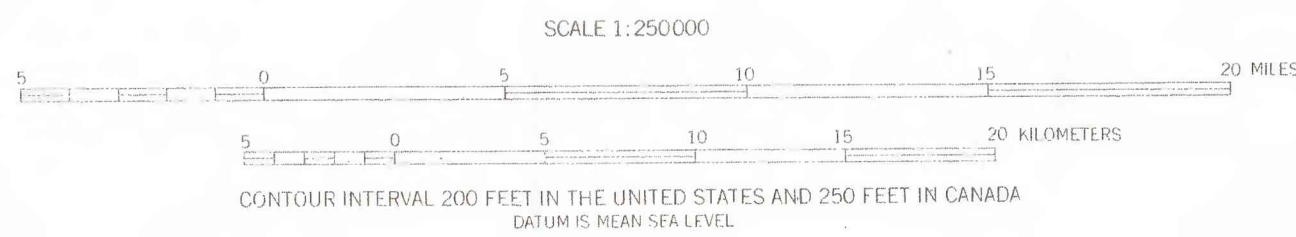
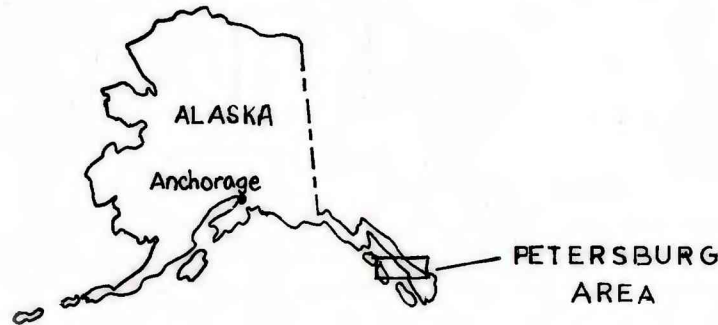
DISTRIBUTION AND ABUNDANCE OF NICKEL, DETERMINED BY
SPECTROGRAPHIC ANALYSIS, IN THE MINUS-80-MESH FRACTION
OF STREAM SEDIMENTS, PETERSBURG AREA, SOUTHEAST ALASKA

By

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

1983

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



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