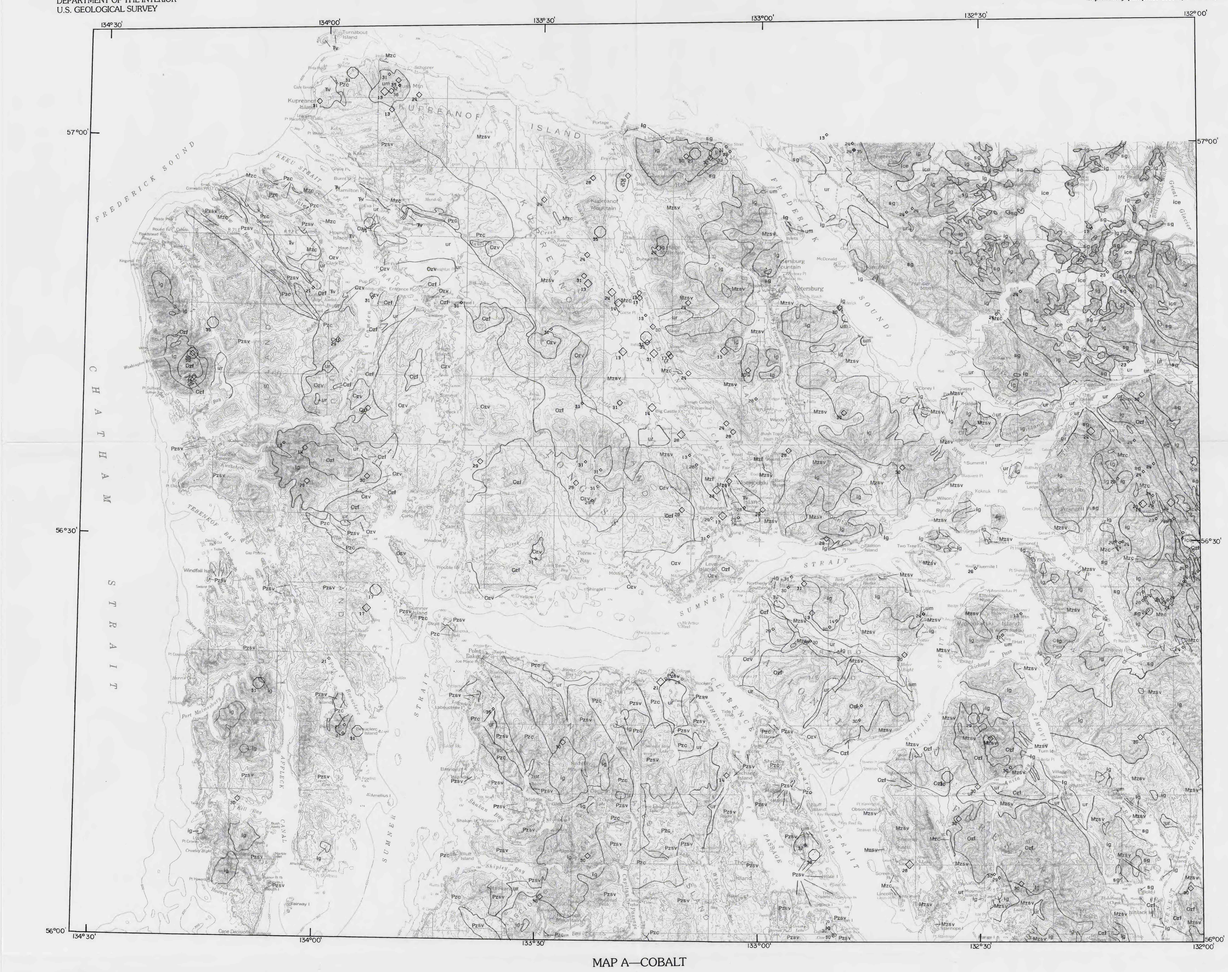
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-1970-C
SHEET 5 OF 7
*Explanatory pamphlet accompanies map*




MAP A—COBALT

Base from U.S. Geological Survey, Port Alexander, Sitka, 1951; Petersburg, 1960; Sumdum, 1951
Universal Transverse Mercator projection

SCALE 1:250 000
0 5 0 5 10 15 20 MILES
0 5 0 5 10 15 20 25 30 KILOMETERS
CONTOUR INTERVAL 80 200 FEET IN THE UNITED STATES AND 250 FEET IN CANADA
NATIONAL GEODETIC VERTICAL DATUM 1929
1989 APPROXIMATE MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET VARIES FROM 26° TO 26°30' EAST

Geology generalized from Brew and others (1984)
Manuscript approved for publication, September 26, 1989

MAP B—COPPER

**EXPLANATION**

**Threshold level**

- ◇ Level 1—Rock samples that have values between the 95th and 97th percentiles
- ◇ Level 2—Rock samples that have values between the 97th and 98th percentiles
- ◇ Level 3—Rock samples that have values between the 98th and 99th percentiles
- ○ Level 4—Rock samples that have values at or above the 99th percentile

**Rock type**

| | | | |
|---|---|---|---|
| 11 | Unidentified rock | 24 | Schist |
| 12 | Sedimentary rock | 25 | Quartzite |
| 13 | Metamorphic rock | 26 | Marble |
| 14 | Igneous rock | 27 | Skarn |
| 16 | Conglomerate | 28 | Phyllite or slate |
| 17 | Sandstone | 29 | Felsic igneous rock |
| 18 | Siltstone | 30 | Intermediate-composition igneous rock |
| 19 | Claystone | 31 | Mafic igneous rock |
| 20 | Shale | 32 | Ultramafic igneous rock |
| 21 | Limestone, dolomite | 33 | Feldspathoidal rock |
| 22 | Carbonate rock | 34 | Other |
| 23 | Gneiss | 35 | Chert or jasperoid |

**EXPLANATION**

**Bedrock geochemical group**—See text, page 6

| | | |
|---|---|---|
| ur | Miscellaneous unmineralized rocks and Quaternary deposits, undivided | Group 12 |
| Cef | Felsic igneous rocks (Cenozoic) | Group 11 |
| ig | Intermediate-composition igneous rocks (Cenozoic and Mesozoic) | Group 10 |
| Crv | Mafic volcanic rocks (Cenozoic) | Group 9 |
| um | Ultramafic rocks (Cretaceous) | Group 8 |
| sg | Schist and gneiss of the Coast plutonic-metamorphic complex of Brew and Ford (1984) | Group 7 |
| Mzsv | Sedimentary and volcanic rocks (Mesozoic) | Group 6 |
| Mtc | Carbonate rocks (Mesozoic) | Group 5 |
| Mzf | Felsic volcanic rocks (Mesozoic) | Group 4 |
| Trv | Mafic volcanic rocks (Triassic) | Group 3 |
| Pzc | Carbonate rocks (Paleozoic) | Group 2 |
| Pzsv | Sedimentary and volcanic rocks (Paleozoic) | Group 1 |

—— **Contact**

DISTRIBUTION OF THRESHOLD LEVELS FOR ROCK GEOCHEMICAL SAMPLES

# MAPS AND PRELIMINARY INTERPRETATION OF ANOMALOUS ROCK GEOCHEMICAL DATA FROM THE PETERSBURG QUADRANGLE AND PARTS OF THE PORT ALEXANDER, SITKA, AND SUMDUM QUADRANGLES, SOUTHEASTERN ALASKA

By
S.M. Karl and R.D. Koch
1990

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