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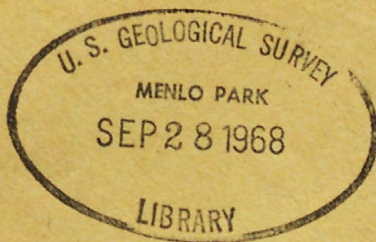


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Metallic Mineral Resources Map of the  
Mount Fairweather Quadrangle, Alaska.



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[REPORTS - OPEN FILE SERIES]

METALLIC MINERAL RESOURCES MAP OF THE MOUNT FAIRWEATHER QUADRANGLE, ALASKA

Compiled by

Edward H. Cobb

Open-file map

1968

This map is preliminary  
and has not been edited or  
reviewed for conformity with  
Geological Survey standards  
or nomenclature.

LODE DEPOSITS

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <sup>1/</sup>
1	Lituya Bay: Kennedy and Walton (1946), p. 71	Cu
2	South Crillon Glacier: Kennedy and Walton (1946), p. 71; MacKevett and others (1967), p. 90, 133	Cu, Fe
3	North Crillon Glacier: Kennedy and Walton (1946), p. 71	Cu
4	North Crillon Glacier: MacKevett and others (1967), p. 132	Fe
5-6	North Crillon Glacier: MacKevett and others (1967), p. 89	Cu
7	Mount Marchainville: MacKevett and others (1967), p. 89	Cu
8	Unnamed occurrence: MacKevett and others (1967), p. 133	Fe
9	Brady Glacier: MacKevett and others (1967), p. 2, 6-7, 134, 153-158	Cr, Co, Cu, Ni
10	Astrolabe Peninsula: Rossman (1963a), p. F44-F45	Fe
11	Johns Hopkins Inlet: MacKevett and others (1967), p. 98	Pb, Mo, Zn
12	Johns Hopkins Inlet: MacKevett and others (1967), p. 86-87	Sb, Cu, Mo, Ag
13	Tarr Inlet: MacKevett and others (1967), p. 86	Cu, Ag, Zn
14	Tarr Inlet: MacKevett and others (1967), p. 86	Cu
15	Johns Hopkins Inlet: MacKevett and others (1967), p. 151	Mo
16	Hoonah Glacier: MacKevett and others (1967), p. 89	Cu, Mo
17	Johns Hopkins Inlet: MacKevett and others (1967), p. 87	Cu, Mo
18	Mount Cooper: MacKevett and others (1967), p. 98	Mo, Zn
19	Richtmeyer: MacKevett and others (1967), p. 101	Au
20	Parker: Twenhofel, Reed, and Gates (1949), p. 33-34	Au

<sup>1/</sup> Symbols - Sb, antimony; Cr, chromite; Co, cobalt; Cu, copper; Au, gold; Fe, iron; Pb, lead; Mo, molybdenum; Ni, nickel; Ag, silver; Zn, zinc.

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
21	LeRoy: Twenhofel, Reed, and Gates (1949), p. 32-34; Rossman (1959a), p. 45-46; MacKevett and others (1967), p. 101-104	Cd, Cu, <u>Au</u> , Pb, Ag, Zn
22	Ptarmigan Creek: Rossman (1959a), p. 55-56	Zn
23	Monarch: Rossman (1959a), p. 48-52; MacKevett and others (1967), p. 106-108	<u>Au</u> , Pb
24	Rainbow: Twenhofel, Reed, and Gates (1949), p. 31, 33-34; MacKevett and others (1967), p. 105-106	<u>Au</u> , Pb, Ag, Zn
25	Sentinel: Rossman (1959a), p. 54; MacKevett and others (1967), p. 106	<u>Au</u> , Pb
26	Incas: Rossman (1959a), p. 46-48; MacKevett and others (1967), p. 108-109	<u>Au</u>
27	Rambler: Rossman (1959a), p. 55; MacKevett and others (1967), p. 112	Au, Pb, Zn
28	Highland Chief: Rossman (1959a), p. 54-55	Au
29	Galena: Twenhofel, Reed, and Gates (1949), p. 31, 33: MacKevett and others (1967), p. 110	<u>Au</u> , Pb, Ag, Zn
30	Sunrise: Rossman (1959a), p. 38; MacKevett and others (1967), p. 109	Au, Ag, W
31	Hopalong: Rossman (1959a), p. 56 Whirlaway: Rossman (1959a), p. 56 Unnamed Occurrence: Rossman (1959a), p. 56	<u>Au</u> <u>Au</u> Au
32	Lamplugh Glacier: MacKevett and others (1967), p. 88	Cu, Mo
33	Lamplugh Glacier: MacKevett and others (1967), p. 152	Ni
34-35	Reid Glacier: MacKevett and others (1967), p. 151	Mo
36	Reid Glacier: MacKevett and others (1967), p. 88	Cu
37	Russell Island: MacKevett and others (1967), p. 118	Au, Pb, Ag

1/ Symbols - Cd, cadmium; Cu, copper; Au, gold; Pb, lead; Mo, molybdenum; Ni, nickel; Ag, silver; W, tungsten; Zn, zinc.

2/ Symbol underlined indicates recorded production.

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
38	Rendu Inlet: MacKevett and others (1967), p. 150	Cu, Mo
39	Rendu Inlet: Rossman (1963b), p. K48-K49; MacKevett and others (1967), p. 56, 126	Sb, Ag
40	Rendu Inlet: MacKevett and others (1967), p. 128-129	Fe
41	Rendu Inlet: MacKevett and others (1967), p. 82	Co, Cu, Ni
42	Gilbert Island: MacKevett and others (1967), p. 163	W
43	Gilbert Island: Rossman (1963b), p. K49	Mo
44	Hugh Miller Inlet: MacKevett and others (1967), p. 97	Bi, Mo, Ag
45	Gilbert Island: Rossman (1963b), p. K50; MacKevett and others (1967), p. 83-84	Cu, Au, Pb, Mo, Ag, Zn
46	Unnamed island: MacKevett and others (1967), p. 83-84	Cu, Mo
47	Blue Mouse Cove: Rossman (1963b), p. K50; MacKevett and others (1967), p. 57, 82-83	Sb, Au, Ag, Zn
48	Triangle Island: Rossman (1963b), p. K49	<u>Mo</u>
49	Queen Inlet: MacKevett and others (1967), p. 129-131	Co, Fe, Sn, Zn
50	Wachusett Inlet (Plateau Glacier): MacKevett and others (1967), p. 149	Cu, Au, Mo, Ag, Zn
51	Bruce Hills: Rossman (1963b), p. K49-K50; MacKevett and others (1967), p. 79-81	Cu, Pb, Mo, Zn
52	Tidal Inlet: MacKevett and others (1967), p. 82	Co, Cu, Ni
53	Curtis Hills: MacKevett and others (1967), p. 69-70, 134, 152	Cr, <del>Cu</del> , Ni
54	Nunatak: Twenhofel, Robinson, and Gault (1946), p. 9-18; Rossman (1963b), p. K49; MacKevett and others (1967), p. 138-148	Cu, Au, Mo, Ag
55	Red Mountain: MacKevett and others (1967), p. 97	Cd, Pb, Ag, Zn
56	Adams Inlet: Smith (1942), p. 178	Mo

1/ Symbols - Sb, antimony; Bi, bismuth; Cd, cadmium; Co, cobalt; Cu, copper; Au, gold; Fe, iron; Pb, lead; Mo, molybdenum; Ni, nickel; Ag, silver; Sn, tin; W, tungsten; Zn, zinc.

2/ Symbol underlined indicated recorded production.

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <sup>1/</sup>
57	Charpentier Inlet: MacKevett and others (1967), p. 151	Mo
58	Geikie Inlet: MacKevett and others (1967), p. 151	Mo
59	Shag Cove: MacKevett and others (1967), p. 85	Co, Cu, Ag, Zn
60	Francis Island: Buddington (1926), p. 56; MacKevett and others (1967), p. 74-75, 135	Sb, Bi, Cu, Au, Mn, Ni, Ag, Zn
61	Willoughby Island: Rossman (1963b), p. K48; MacKevett and others (1967), p. 72-73	Sb, Cu, Au, Pb, Ag
62	Willoughby Island: MacKevett and others (1967), p. 72-73	Cu
63	North Marble Island: Rossman (1963b), p. K51; MacKevett and others (1967), p. 70	Cu, Fe, Zn
64	South Marble Island: MacKevett and others (1967), p. 71	Cu, Ni
65	Geikie Inlet: Smith (1942), p. 178	Mo
66	Brady Glacier: MacKevett and others (1967), p. 132	Cu, Fe
67	Brady Glacier: Rossman (1963b), p. K50; MacKevett and others (1967), p. 118	Au
68	Dundas Bay, West Arm: MacKevett and others (1967), p. 85	Cu
69	Unnamed occurrence: MacKevett and others (1967), p. 118	Au
70	Dundas Bay: MacKevett and others (1967), p. 79	Cu, Pb, Mo, Ag
71	Dundas Bay: MacKevett and others (1967), p. 79	Cu, Mo
72	Unnamed occurrence: MacKevett and others (1967), p. 97	Bi, Pb, Mo, Ag, Zn
73	Alaska Chief: MacKevett and others (1967), p. 76-78, 135	Bi, Co, Cu, Au, Mn, Mo, Ni, Ag, Zn
74	Dundas Bay: MacKevett and others (1967), p. 128	Fe
75	Whitney: Smith (1942), p. 176-177	Mo
76	Willoughby Cove: Smith (1942), p. 177	Cu, Mo

<sup>1/</sup> Symbols - Sb, antimony; Bi, bismuth; Co, cobalt; Cu, copper; Au, gold; Fe, iron; Pb, lead; Mn, manganese; Mo, molybdenum; Ni, nickel; Ag, silver; Zn, zinc.

<u>Number</u>	<u>Name and principal reference</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
77	Marvitz: Rossman (1959b), p. 211	Au
78	Yakobi Island: Overbeck (1919), p. 121	Cu, <u>Au</u>
	<u>1/</u> Symbols - Cu, copper; Au, gold.	
	<u>2/</u> Symbol underlined indicates recorded production.	

#### PLACER DEPOSITS

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u>
79-80	Lituya Bay: Mertie (1933), p. 133-136; Rossman (1957), 10 p.; Thomas and Berryhill (1962), p. 37-39	Gold, platinum
81	Oregon King Consolidated: MacKevett and others (1967), p. 120	Gold
82	Brady Glacier: Rossman (1963b), p. K50-K51	Gold
83	Dundas River: MacKevett and others (1967), p. 120	Gold
84	Dundas River: Rossman (1963b), p. K50	Gold
	<u>1/</u> Gold has been produced from most of the listed placers.	

#### REFERENCES

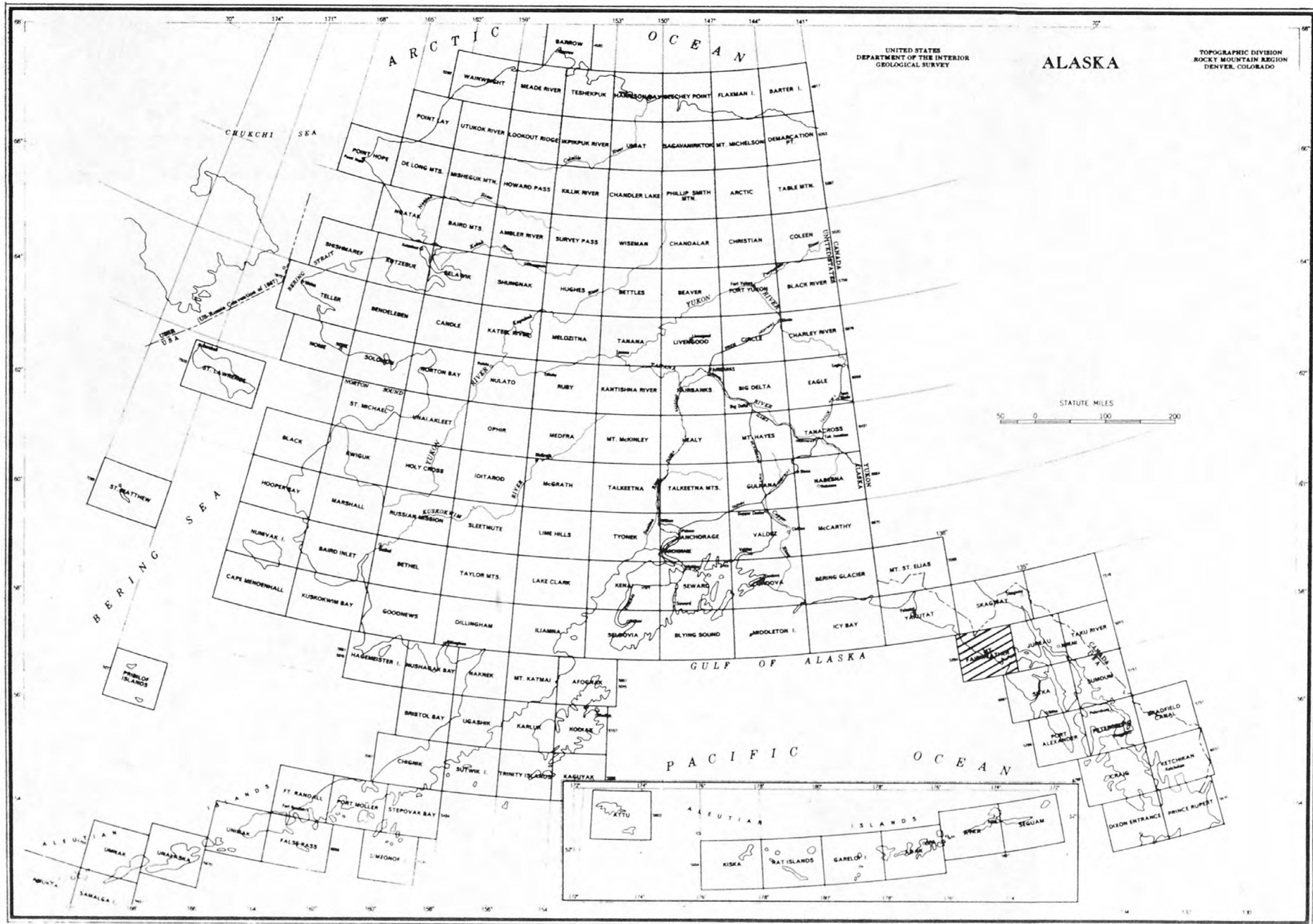
- Buddington, A. F., 1926, Mineral investigations in southeastern Alaska: U.S. Geol. Survey Bull. 783, p. 41-62.
- Kennedy, G. C., and Walton, M. S., 1946, Geology and associated mineral deposits of some ultrabasic rock bodies in southeastern Alaska: U.S. Geol. Survey Bull. 947-D, p. 65-84.
- MacKevett, E. M., Jr., Brew, D. A., Hawley, C. C., Huff, L. C., and Smith, J. G., 1967, Mineral resources of Glacier Bay National Monument, Alaska: U.S. Geol. Survey open-file rept., 176 p.
- Mertie, J. B., Jr., 1933, Notes on the geography and geology of Lituya Bay: U.S. Geol. Survey Bull. 836, p. 117-135.
- Overbeck, R. M., 1919, Geology and mineral resources of the west coast of Chichagof Island: U.S. Geol. Survey Bull. 692, p.91-136.
- Rossman, D. L., 1957, Ilmenite-bearing beach sands near Lituya Bay, Alaska: U.S. Geol. Survey open-file rept., 10 p.
- , 1959a, Geology and ore deposits of the Reid Inlet area, Glacier Bay, Alaska: U.S. Geol. Survey Bull. 1058-B, p. 33-59.

- Rossman, D. L., 1959b, Geology and ore deposits of northwestern Chichagof Island, Alaska: U.S. Geol. Survey Bull. 1058-E, p. 139-216.
- , 1963a, Geology and petrology of two stocks of layered gabbro in the Fairweather Range, Alaska: U.S. Geol. Survey Bull. 1121-F, p. F1-F50.
- , 1963b, Geology of the eastern part of the Mount Fairweather quadrangle, Glacier Bay, Alaska: U.S. Geol. Survey Bull. 1121-K, p. K1-K57.
- Smith, P. S., 1942, Occurrences of molybdenum minerals in Alaska: U.S. Geol. Survey Bull. 926-C, p. 161-207.
- Thomas, B. I., and Berryhill, R. V., 1962, Reconnaissance studies of Alaskan beach sands, eastern Gulf of Alaska: U.S. Bur. Mines Rept. Inv. 5986, 40 p.
- Twenhofel, W. S., Reed, J. C., and Gates, G. O., 1949, Some mineral investigations in southeastern Alaska: U.S. Geol. Survey Bull. 963-A, p. 1-45.
- Twenhofel, W. S., Robinson, G. D., and Gault, H. R., 1946, Molybdenite investigations in southeastern Alaska: U.S. Geol. Survey Bull. 947-B, p. 7-38.

#### SOURCES OF DATA ON DISTRIBUTION OF IGNEOUS ROCKS

- Loney, R. A., Berg, H. C., Pomeroy, J. S., and Brew, D. A., 1963, Reconnaissance geologic map of Chichagof Island and northwestern Baranof Island, Alaska: U.S. Geol. Survey Misc. Geol. Inv. Map I-388.
- MacKevett, E. M., Jr., Brew, D. A., Hawley, C. C., Huff, L. C., and Smith, J. G., 1967, Mineral resources of Glacier Bay National Monument, Alaska: U.S. Geol. Survey open-file rept., fig. 3B.
- Rossman, D. L., 1959, Geology and ore deposits of northwestern Chichagof Island, Alaska: U.S. Geol. Survey Bull. 1058-E, pl. 12.
- , 1963, Geology of the eastern part of the Mount Fairweather quadrangle, Glacier Bay, Alaska: U.S. Geol. Survey Bull. 1121-K, pl. 1.





Index map showing location of the Mount Fairweather quadrangle.



