

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OCCURRENCES OF SELECTED CRITICAL AND STRATEGIC MINERAL COMMODITIES IN ALASKA

Compiled by
Edward H. Cobb and Dennis R. St. Aubin

Open-File Report 82-719
1982

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

INTRODUCTION

These maps and the accompanying table were prepared to aid in library research on the occurrence of minerals containing any of seven metallic elements (cobalt, manganese, mercury, nickel, niobium, tantalum, and tin), the platinum group of metals (platinum, palladium, iridium, osmium, rhodium, and ruthenium), and the mineral chromite.

Different criteria were used for defining occurrences of the various commodities. For manganese, mercury, niobium, tantalum, and tin a mineral containing one or more of these elements must have been identified, either by name or description. For chromite the mineral chromite must have been identified. For cobalt one of the following criteria must have been met: a specific cobalt mineral was identified; a copper, iron, or nickel sulfide mineral was reported and was accompanied by analytical data showing 0.05 per cent (500 parts per million) or more cobalt; or sufficient data were available to calculate resources or reserves. Similar criteria for nickel are: a specific nickel mineral, including "nickeliferous pyrrhotite," was reported; pyrrhotite was reported and analytical data indicated 0.1 per cent (1,000 parts per million) or more nickel; or enough data were available to calculate resources or reserves. Criteria for platinum-group metals are: platinum was listed as a constituent of a placer concentrate; individual metal(s) of the platinum group were identified; or production of "platinum-group metals" or "platinum" was reported. With the exceptions of cobalt and nickel as noted above, geochemical anomalies determined by analyses of rock or stream-sediment samples are not included in this compilation.

This report consists of a 1:2,500,000-scale map, a pamphlet, and a series of nine small-scale maps. The 1:2,500,000-scale map shows by numbered circles 10 kilometers in diameter all occurrences of the nine mineral commodities. Each circle may include from one to eleven individual occurrences.

References, the first section of the pamphlet, keyed by number to locations on the 1:2,500,000-scale map, give data on each occurrence. In most instances the report(s) cited is a summary of data in older reports and was compiled since 1975. Most of the summary reports contain lists of the sources of information used in their preparation. Citations are in standard bibliographic format with the exception that each includes, in parentheses, an abbreviation for the report or map series, if a member of a numbered series, and the number of the report or map in the series. Abbreviations used are: AOF, State of Alaska Division of Geological and Geophysical Surveys Open-File Report; B, U.S. Geological Survey Bulletin; BMOF, U.S. Bureau of Mines Open-File Report; C, U.S. Geological Survey Circular; I, U.S. Geological Survey Miscellaneous Geologic Investigations Map; MF, U.S. Geological Survey Miscellaneous Field Studies Map; OF, U.S. Geological Survey Open-File Report; RI, U.S. Bureau of Mines Report of Investigations. Following the citation(s) is the chemical symbol [in brackets] for each commodity in the occurrence. If there are two or more commodities in an occurrence symbols are listed alphabetically without regard to relative amounts, values, or ages of formation. Symbols are: Co, cobalt; Cr, chromite; Hg, mercury; Mn, manganese; Nb, niobium; Ni, nickel; Pt, platinum-group metals; Sn, tin; Ta, tantalum.

The second section of the pamphlet is a list of the references used in compiling the report.

The final section is a series of nine small-scale maps. Each shows the locations of all occurrences of one mineral commodity, giving a synoptic view of its distribution.

REFERENCE LIST

1. Avan River: Cobb and others, 1981 (OF 81-767A), p. A16 [Cr, Ni]
2. Misheguk Mountain: Cobb and others, 1981 (OF 81-767A), p. A17 [Cr]
3. Siniktanneyak Mountain: Cobb and others, 1981 (OF 81-767A), p. A16 [Cr]
4. Katak Creek: Cobb and others, 1981 (OF 81-767A), p. A19 [Sn]
5. Unnamed occurrence: Cobb and others, 1981 (OF 81-767A), p. A14 [Mn]
6. Asik Mountain: Cobb and others, 1981 (OF 81-767A), p. A22 [Cr]
7. Maïyumerak Mountains: Cobb and others, 1981 (OF 81-767A), p. A8 [Cr]
- ✱ 8. Selawik Hills: Eakins and others, 1977 (AOF 109), p. 30 [Nb, Ta]
9. Ekiek Creek: Cobb and Miller, 1981 (OF 81-847A), p. A11-A12 [Nb]
10. Jade Mountain: Cobb and Mayfield, 1981 (OF 81-570A), p. A6 [Ni]
11. Ruby Creek (Bornite): Cobb and Mayfield, 1981 (OF 81-570A), p. A8-A9 [Co]
12. Dahl Creek: Cobb and Miller, 1981 (OF 81-847A), p. A11 [Cr]
- ✱ 13. Zane Hills: Cobb and Miller, 1981 (OF 81-847A), p. A6, A13 [Nb]
- ✱ 14. Unnamed occurrence: Cobb and Miller, 1981 (OF 81-847A), p. A7 [Mn]
15. Unnamed occurrences: Dillon and others, 1981 (AOF 133B), p. 67, 68, 80, 96 (sites 169, 172, 289, 455) [Sn]
16. Unnamed occurrence: Dillon and others, 1981 (AOF 133B), p. 98 (site 467) [Sn]
17. Unnamed occurrence: Clautice, 1978 (BMOF 66-78), p. 9, 11, 15 (loc. 11) [Cr]
18. Caribou Mountain: Clautice, 1978 (BMOF 66-78), p. 9, 11, 14 (loc. 9) [Cr]
19. Gold Bench: Cobb, 1978b (OF 78-94), p. 10-11 [Hg, Sn]
20. Eightmile Creek: De Young, 1978 (MF-878-B), loc. 21 [Hg]
- Limestone Creek: Brosge and Reiser, 1964 (I-375) [Pt]
- ✱ 21. Lois Dome: Barker, 1981 (BMOF 27-81), p. 38 [Mn]
- ✱ 22. Porcupine River (Old Rampart): Barker, 1981 (BMOF 27-81), p. 50, 57 [Ni]
23. Rapid River, near mouth: Barker, 1981 (BMOF 27-81), p. 107, 113 [Cr, Sn]
24. Strangle Woman Creek: Barker, 1981 (BMOF 27-81), p. 29, 102-106, 115 [Sn]
25. Rapid River, headwaters and headwater tributaries: Barker, 1981 (BMOF 27-81), p. 91, 102-106, 115 [Sn]
26. Rapid River, headwaters and headwater tributaries: Barker, 1981 (BMOF 27-81), p. 91, 102-106, 115 [Cr, Sn]
27. Porcupine River canyon: Barker, 1981 (BMOF 27-81), p. 116-119 [Sn]
28. Boulder Creek: Cobb, 1981c (OF 81-364A), p. A4-A5 [Sn]
- Cape Creek: Idem, p. A6-A7 [Sn]
- Cape Mountain: Idem, p. A7 [Sn]
- First Chance Creek: Idem, p. A10 [Sn]
- Goodwin Creek: Idem, p. A11 [Sn]
- Goodwin Gulch: Idem, p. A11 [Sn]
- Percy Gulch: Idem, p. A16 [Sn]
- Village Creek: Idem, p. A18 [Sn]
29. Anikovik River: Cobb, 1981c (OF 81-364A), p. A3 [Cr, Sn]
- Baituk Creek: Idem, p. A3 [Sn]
- Banner Creek: Idem, p. A3 [Sn]
- Buhner (Buckner) Creek: Idem, p. A6 [Sn]
- Kigezruk Creek: Idem, p. A13-A14 [Sn]
30. Buck Creek: Cobb, 1981c (OF 81-364A), p. A5 [Sn]
- Diomedea Creek: Idem, p. A9 [Sn]
- Grouse Creek: Cobb, 1975 (OF 75-587) [Sn]

- Iron Creek: Cobb, 1981c (OF 81-364A), p. A13 [Sn]
 Peluk Creek: Idem, p. A15-A16 [Sn]
 Potato Creek: Idem, p. A16 [Sn]
 Potato Mountain: Idem, p. A16 [Sn]
 Sutter Creek: Idem, p. A18 [Sn]
31. Bessie-Maple: Cobb, 1981c (OF 81-364A), p. A3-A4 [Sn]
 * Lost River area: Idem, p. A14-A15 [Mn, Sn]
 Rapid River: Idem, p. A17 [Sn]
 32. Brooks Mountain: Cobb, 1981c (OF 81-364A), p. A5 [Sn]
 York Creek: Idem, p. A19 [Sn]
 33. Black Mountain: Cobb, 1981c (OF 81-364A), p. A4 [Sn]
 34. Bering Creek: Cobb, 1981c (OF 81-364A), p. A3 [Hg]
 Eagle Creek: Idem, p. A9 [Hg]
 35. Crosby Creek: Cobb, 1981c (OF 81-364A), p. A8 [Sn]
 Deer Creek: Idem, p. A9 [Sn]
 Ear Mountain: Idem, p. A10 [Hg, Mn, Sn]
 Eldorado Creek: Idem, p. A10 [Sn]
 Kreuger Creek: Idem, p. A14 [Sn]
 Pinnacle Creek: Idem, p. A16 [Sn]
 Quartz Creek: Idem, p. A17 [Sn]
 Step Gulch: Idem, p. A17 [Sn]
 Tin Creek: Idem, p. A18 [Sn]
 Tuttle Creek: Idem, p. A18 [Sn]
 36. Dese Creek: Cobb, 1981c (OF 81-364A), p. A9 [Hg]
 37. Bluestone River: Cobb, 1981c (OF 81-364A), p. A4 [Hg, Pt]
 Gold Run: Idem, p. A10-A11 [Hg, Pt]
 - * 38. Cub Bear: Cobb, 1978a (OF 78-93), p. 45-46 [Mn]
 * Monarch: Idem, p. 109-110 [Mn]
 Willow Creek: Martin, 1919 (B 692), p. 20 [Sn]
 39. Budd Creek: Cobb, 1981c (OF 81-364A), p. A6 [Hg]
 Windy Creek: Idem, p. A19 [Hg]
 40. Fred Gulch: Cobb, 1978a (OF 78-93), p. 67 [Sn]
 Goldbottom Creek: Idem, p. 71 [Sn]
 41. Glacier Creek: Cobb, 1978a (OF 78-93), p. 69-70 [Sn]
 Monument Creek: Idem, p. 111 [Sn]
 42. Rocky Mountain Creek: Cobb, 1978a (OF 78-93), p. 146 [Sn]
 43. Cape Nome: Cobb, 1978a (OF 78-93), p. 34 [Cr]
 44. Dick Creek: Cobb, 1981b (OF 81-363A), p. A7 [Sn]
 45. Kougarok River and Washington Creek: Cobb, 1981b (OF 81-363A), p. A14 [Sn]
 Mascot Creek: Idem, p. A15 [Sn]
 46. Hot Springs Creek: Cobb, 1981b (OF 81-363A), p. A11 [Hg]
 47. Humboldt Creek: Cobb, 1981b (OF 81-363A), p. A12 [Sn]
 48. Coffee Creek: Cobb, 1981b (OF 81-363A), p. A5 [Hg]
 Wonder Gulch: Idem, p. A20 [Hg]
 49. Auburn Ravine: Cobb, 1981d (OF 81-504A), p. A3 [Hg]
 Iron Creek: Idem, p. A13 [Hg]
 50. Daniels Creek: Cobb, 1981d (OF 81-504A), p. A8-A9 [Hg]
 Eldorado Creek: Idem, p. A10 [Hg]
 Koyana Creek: Idem, p. A14 [Hg]
 Swede Creek: Idem, p. A24-A25 [Hg]
 - * 51. Hannum: Cobb, 1981b (OF 81-363A), p. A10 [Mn]
 Hannum Creek: Idem, p. A11 [Sn]
 52. American Ceeek: Cobb, 1981b (OF 81-363A), p. A2 [Sn]
 Old Glory Creek: Idem, p. A16 [Sn]
 53. Inmachuk River: Cobb, 1981b (OF 81-363A), p. A13 [Hg]
 - * 54. Golovnin Bay: Cobb, 1981d (OF 81-504A), p. A12 [Nb]

55. Otter Creek: Cobb, 1981b (OF 81-363A), p. A17 [Sn]
- *56. Clear Creek tributary: West, 1953 (C 300), p. 6-7 (samples 2983, 2992, 2993, 2995) [Nb, Sn]
- * Vulkan Creek tributary: Idem, p. 6-7 (sample 3033) [Nb]
57. Unnamed occurrences: Berryhill, 1962, p. 5-6, 11 (sample 25) [Sn]
58. Mud Creek: Cobb, 1976g (OF 76-866), p. 42 [Hg]
59. Quartz Creek: Cobb, 1976g (OF 76-866), p. 47-48 [Pt]
60. Bear Creek: Cobb, 1976g (OF 76-866), p. 7-9 [Pt]
61. Peace River: Cobb, 1976g (OF 76-866), p. 44-45 [Cr]
62. Bear Gulch: Cobb, 1976g (OF 76-866), p. 10 [Pt]
Sweepstakes Creek: Idem, p. 57-58 [Pt]
63. Dime Creek: Cobb, 1976g (OF 76-866), p. 21-23 [Cr, Pt]
64. Koyuk delta: Eberlein and others, 1977 (OF 77-168D), p. 79, loc. 5 [Sn]
65. Big Creek: Cobb and Chapman, 1981 (OF 81-170), p. 15 [Sn]
Cox Gulch (Pup): Idem, p. 21 [Sn]
Glacier Creek: Idem, p. 36 [Sn]
Ruby Creek: Idem, p. 63-64 [Sn]
66. Birch Creek: Cobb and Chapman, 1981 (OF 81-170), p. 16-17 [Sn]
Straight Creek: Idem, p. 73 [Sn]
Trail Creek: Idem, p. 81-82 [Sn]
67. Bear Gulch: Cobb and Chapman, 1981 (OF 81-170), p. 10-11 [Sn]
Fifth of July Creek: Idem, p. 28 [Sn]
Long Creek: Idem, p. 45-47 [Sn]
Short Creek: Idem, p. 65 [Sn]
68. Flat Creek: Cobb and Chapman, 1981 (OF 81-170), p. 29 [Sn]
Flint Creek: Idem, p. 32-33 [Sn]
Granite Creek: Idem, p. 40 [Pt]
Greenstone Creek: Idem, p. 41-42 [Sn]
Midnight Creek: Idem, p. 51-52 [Sn]
Monument Creek: Idem, p. 53-54 [Sn]
69. Spruce Creek: Cobb and Chapman, 1981 (OF 81-170), p. 70-71 [Sn]
Tamarack Creek: Idem, p. 76-77 [Sn]
70. Flat Creek, Cobb and Chapman, 1981 (OF 81-170), p. 30 [Sn]
Poorman Creek: Idem, p. 58-60 [Sn]
71. Mason Creek: Cobb and Miller, 1981 (OF 81-847A), p. A8-A9 [Sn]
72. Ash Creek: Chapman and others, 1963, p. 25, 30-32; Cobb, 1981e (OF 81-1313A), p. A3 [Sn]
Tozimoran Creek: Cobb, 1981e (OF 81-1313A), p. A20 [Sn]
73. Bonanza Creek: Cobb, 1981e (OF 81-1313A), p. A4 [Sn]
Morelock Creek: Idem, p. A14-A15 [Sn]
74. American Creek: Cobb, 1981e (OF 81-1313A), p. A3 [Cr]
Boulder Creek: Idem, p. A4 [Cr]
75. Dalton Gulch: Cobb, 1981e (OF 81-1313A), p. A6 [Sn]
* Deep Creek and tributaries: Idem, p. A6-A7 [Cr, Nb, Sn]
* Idaho Gulch: Idem, p. A11 [Nb, Sn]
* Miller Gulch: Idem, p. A14 [Nb, Sn]
* Sullivan Creek: Idem, p. A19 [Cr, Nb, Sn]
Tofty Gulch: Idem, p. A19 [Cr, Sn]
Woodchopper Creek: Idem, p. A20 [Sn]
76. Cache Creek: Cobb, 1981e (OF 81-1313A), p. A5 [Cr, Nb, Sn]
Ferguson Draw: Idem, p. A7 [Sn]
Gold Basin Creek: Idem, p. A8 [Sn]
Harter Gulch: Idem, p. A9 [Sn]
Killarney Creek: Idem, p. A12 [Sn]
Quartz Creek: Idem, p. A16 [Sn]

77. Hot Springs Dome: Cobb, 1981e (OF 81-1313A), p. A10 [Co, Mn]
78. Avnet: Cobb, 1981e (OF 81-1313A), p. A3 [Mn]
79. McCaskey Bar: Cobb, 1981e (OF 81-1313A), p. A13 [Hg]
 Omega Creek: Idem, p. A15 [Hg]
 Pioneer Creek and tributaries: Idem, p. A16 [Hg]
 Shirley Bar: Idem, p. A18 [Hg]
80. Hoosier Creek: Cobb, 1981e (OF 81-1313A), p. A10 [Hg]
 Hunter Creek: Cobb, 1981f (OF 81-1342A), p. A18 [Hg, Sn]
 Little Minook Creek: Cobb, 1981e (OF 81-1313A), p. A12-A13 [Cr, Mn]
81. Quail Creek: Cobb, 1981f (OF 81-1342A), p. A28 [Hg, Sn]
82. Troublesome Creek: Cobb, 1981f (OF 81-1342A), p. A35 [Hg, Sn]
83. Moose Creek: Cobb, 1976e (OF 76-662), p. 101-102 [Hg, Pt, Sn]
84. California Creek: Cobb, 1976e (OF 76-662), p. 22 [Hg, Pt]
85. Grubstake Creek: Cobb, 1976e (OF 76-662), p. 67 [Hg]
86. Amy Creek: Cobb, 1981f (OF 81-1342A), p. A2 [Cr]
 Ester Creek: Idem, p. A11 [Hg]
 Goodluck (Lucky) Creek: Idem, p. A14 [Cr, Hg, Nb, Sn]
 Lillian Creek: Cobb, 1976f (OF 76-819), p. 111-112; Cobb, 1981f (OF 81-1342A), p. A20 [Cr, Hg, Ni]
 Livengood Creek: Cobb, 1976f (OF 76-819), p. 115-117; Cobb, 1981f (OF 81-1342A), p. A21 [Cr, Sn]
 Lucille Creek: Cobb, 1981f (OF 81-1342A), p. A21 [Cr]
 Olive Creek: Idem, p. A26-A27 [Cr, Hg]
 Parker: Idem p. A27 [Cr, Ni]
 Ruth Creek: Idem, p. A30 [Cr, Hg]
87. Unnamed occurrence: Cobb, 1981f (OF 81-1342A), p. A39 [Cr]
 Unnamed occurrence: Idem, p. A40 [Mn]
88. Cripple Creek: Eberlein and others, 1977 (OF 77-168D), p. 38 [Sn]
89. Dome Creek: Cobb, 1981f (OF 81-1342A), p. A9-A10 [Sn]
90. Bedrock Creek: Cobb, 1981f (OF 81-1342A), p. A3-A4 [Sn]
 Chatham Creek: Idem, p. A6 [Sn]
 Cleary Creek: Idem, p. A7 [Sn]
 Cleary Hill: Idem, p. A7-A8 [Sn]
 Little Eldorado Creek: Idem, p. A20-A21 [Sn]
 Willow Creek (Johnson): Idem, p. A19-A20 [Sn]
91. First Chance Creek: Eberlein and others, 1977 (OF 77-168D), p. 39 [Sn]
 Goldstream Creek: Idem, p. 40 [Sn]
 Pedro Creek: Idem, p. 42 [Sn]
 Twin Creek: Cobb, 1981f (OF 81-1342A), p. A35 [Sn]
92. Fairbanks Creek: Cobb, 1981f (OF 81-1342A), p. A12 [Sn]
 Fish Creek: Idem, p. A12 [Sn]
 Mizpah: Idem, p. A23 [Mn]
93. Nome Creek: Eberlein and others, 1977 (OF 77-168D), p. 23 [Sn]
94. Sourdough Creek: Eberlein and others, 1977 (OF 77-168D), p. 24 [Sn]
95. Beaver Creek: Cobb and Eberlein, 1980 (OF 80-1086), p. 5 [Sn]
 Pine Creek: Idem, p. 27 [Sn]
96. Buckeye Creek: Cobb and Eberlein, 1980 (OF 80-1086), p. 8 [Sn]
 Hinkley Gulch: Cobb and Eberlein, 1980 (OF 80-1086), p. 18; T. K. Bundtzen, written communication, 9/22/80 [Hg, Sn]
97. Caribou Creek: Cobb and Eberlein, 1980 (OF 80-1086), p. 10 [Sn]
98. Porcupine Creek: Cobb, 1976d (OF 76-633), p. 52 [Sn]
 Porcupine Dome: Eberlein and others, 1977 (OF 77-168D), p. 23 [Sn]
 Yankee Creek: Cobb, 1976d (OF 76-633), p. 64 [Sn]

99. Harrison Creek: Cobb, 1976d (OF 76-633), p. 30-31 [Sn]
Independence Creek: Idem, p. 36-37 [Sn]
Mastodon Creek: Eberlein and others, 1977 (OF 77-168D), p. 22 [Sn]
100. Boulder Creek: Barker, 1979 (BMOF 57-79), p. 7-8, 10-11 [Sn]
Deadwood Creek: Cobb, 1976d (OF 76-633), p. 16-19 [Hg, Sn]
101. Half Dollar Creek: Eberlein and others, 1977 (OF 77-168D), p. 20 [Sn]
102. Ketchum Creek: Eberlein and others, 1977 (OF 77-168D), p. 22 [Sn]
Portage Creek: Idem, p. 24 [Sn]
103. Nickel Creek: Cobb and Eberlein, 1980 (OF 80-1086), p. 24 [Cr]
104. Woodchopper Creek: Eberlein and others, 1977 (OF 77-168D), p. 17 [Pt]
105. Flume Creek: Cobb, 1977 (OF 77-845), p. 42-43 [Cr]
106. Fourth of July Creek: Cobb, 1976c (OF 76-632), p. 17-18 [Pt]
107. Canyon Creek: Eberlein and others, 1977 (OF 77-168D), p. 29 [Hg]
Mogul Creek: Cobb, 1977 (OF 77-845), p. 69 [Hg]
Seventymile River: Idem, p. 86-87 [Pt]
108. Fox Creek: Eberlein and others, 1977 (OF 77-168D), p. 32 [Sn]
Lucky Gulch: Cobb, 1977 (OF 77-845), p. 66; Eberlein and others, 1977 (OF 77-168D), p. 32 [Pt]
- ✱109. Wolf Creek: Eberlein and others, 1977 (OF 77-168D), p. 36 [Cr]
110. Eagle Bluff: Cobb, 1977 (OF 77-845), p. 38 [Co]
111. Fortymile River, North Fork: Cobb, 1977 (OF 77-845), p. 50 [Sn]
112. Fortyfive Pup: Eberlein and others, 1977 (OF 77-168D), p. 31 [Sn]
113. Franklin Creek: Eberlein and others, 1977 (OF 77-168D), p. 32 [Hg]
Stonehouse Creek (Fork): Cobb, 1977 (OF 77-845), p. 92 [Hg]
114. Fortymile River, Mosquito Fork: Cobb, 1977 (OF 77-845), p. 48-49 [Sn]
115. Wade Creek: Cobb, 1977 (OF 77-845), p. 96-98; Eberlein and others, 1977 (OF 77-168D), p. 35 [Hg, Sn]
116. Dome Creek: Mertie, 1938 (B 897-C), p. 188-190; Eberlein and others, 1977 (OF 77-168D), p. 31 [Hg]
- ✱117. Wolf Creek Mountain: Eberlein and others, 1977 (OF 77-168D), p. 51 [Hg]
118. Flat Creek: Cobb, 1976g (OF 76-866), p. 64; Eberlein and others, 1977 (OF 77-168D), p. 51 [Hg]
119. Little Creek: Eberlein and others, 1977 (OF 77-168D), p. 56 [Hg]
120. DeCourcy: Eberlein and others, 1977 (OF 77-168D), p. 53 [Hg]
Donlin Creek: Idem, p. 54 [Hg, Sn]
121. Black Creek: Eberlein and others, 1977 (OF 77-168D), p. 53 [Hg, Sn]
Flat Creek: Idem, p. 54 [Hg]
Glen Gulch: Cobb, 1976a (OF 76-576), p. 24-25; Eberlein and others, 1977 (OF 77-168D), p. 55 [Hg]
Golden Horn: Eberlein and others, 1977 (OF 77-168D), p. 55 [Hg]
Granite Creek: Idem, p. 55 [Cr]
Malamute Creek (Pup): Idem, p. 57 [Cr, Hg, Sn]
Minnie Gulch: Cobb, 1976a (OF 76-576), p. 41 [Hg]
Otter Creek: Cobb, 1976a (OF 76-576), p. 45-47; Eberlein and others, 1977 (OF 77-168D), p. 57-58 [Cr, Hg, Sn]
122. Chicken Creek: Cobb, 1976a (OF 76-576), p. 8-9 [Cr, Hg]
Happy Creek: Idem, p. 30-31 [Cr, Hg, Sn]
Prince Creek: Cobb, 1976a (OF 76-576), p. 48; Eberlein and others, 1977 (OF 77-168D), p. 58 [Hg]
123. Julian Creek: Eberlein and others, 1977 (OF 77-168D), p. 56 [Hg, Sn]
124. Moore Creek: Cobb, 1976a (OF 76-576), p. 42-43 [Cr, Hg]
- ✱125. Boob Creek: Eberlein and others, 1977 (OF 77-168D), p. 81 [Hg, Pt, Sn]

126. Anvil Creek: Bundtzen and Laird, 1980 (AOF 134), p. 6-7, 31 [Hg]
 Spruce Creek: Eberlein and others, 1977 (OF 77-168D), p. 83; Bundtzen and Laird, 1980 (AOF 134), p. 6-7, 30 [Cr]
 Victor Gulch: Eberlein and others, 1977 (OF 77-168D), p. 83 [Hg]
127. Yankee Creek: Bundtzen and Laird, 1980 (AOF 134), p. 6-7, 30-31 [Cr]
128. Mount Joaquin: Bundtzen and Laird, 1980 (AOF 134), p. 8 [Hg]
129. Wyoming Creek: Cobb, 1978b (OF 78-94), p. 43 [Hg]
130. Candle Creek: Cobb and Reed, 1981 (OF 81-1343A), p. A19 [Hg]
131. Ruby Creek: Cobb, 1978b (OF 78-94), p. 36 [Sn]
- *132. Unnamed occurrence: Cobb, 1978b (OF 78-94), p. 45 [Mn]
133. White Mountain: Cobb and Reed, 1981 (OF 81-1343A), p. A22 [Hg]
134. Chip Loy: Cobb and Reed, 1981 (OF 81-1343A), p. A20 [Ni]
 Unnamed occurrence: Idem, p. A23 [Ni]
135. Boulder Creek: Cobb and Reed, 1980 (OF 80-884), p. 9 [Sn]
136. Unnamed occurrences: Cobb and Reed, 1980 (OF 80-884), p. 81-85 [Cr]
137. Lacuna Glacier: Cobb and Reed, 1980 (OF 80-884), p. 40 [Cr]
138. Kichatna River: Cobb and Reed, 1980 (OF 80-884), p. 39 [Pt]
139. Merinser: Cobb, 1980a (OF 80-363), p. 69 [Hg]
- *140. Glen Creek: Cobb, 1980a (OF 80-363), p. 39-40 [Mn]
141. Canyon Creek: Cobb and Reed, 1980 (OF 80-884), p. 15 [Pt, Sn]
 Poorman Creek: Idem, p. 56 [Pt, Sn]
 Ruby Creek: Idem, p. 61 [Pt]
 Willow Creek: Idem, p. 75 [Pt, Sn]
142. Cache Creek: Cobb and Reed, 1980 (OF 80-884), p. 12-13 [Pt, Sn]
 Dollar Creek: Idem, p. 25 [Sn]
 Nugget Creek: Idem, p. 51 [Sn]
 Thunder Creek: Idem, p. 69 [Sn]
 Windy Creek: Idem, p. 76 [Sn]
143. Kahlitna River: Cobb and Reed, 1980 (OF 80-884), p. 38 [Pt]
- *144. Ohio Creek: Cobb, 1978i (OF 78-1062), p. 62 [Nb, Sn, Ta]
145. Unnamed occurrence: Cobb, 1978i (OF 78-1062), p. 91 [Cr, Ni, Pt]
146. Coal Creek: Cobb and Csejtey, 1980 (OF 80-716), p. 7 [Sn]
147. Golden Zone: Cobb, 1978i (OF 78-1062), p. 36-40 [Sn]
148. Unnamed occurrence: Cobb, 1978i (OF 78-1062), p. 92 [Co]
- *149. Cantwell Creek: Cobb, 1978i (OF 78-1062), p. 15 [Mn]
150. Albert Creek: Cobb and Csejtey, 1980 (OF 80-716), p. 4 [Pt]
151. Landslide Creek: Cobb, 1979a (OF 79-238), p. 42 [Cr]
 Unnamed occurrence: Idem, p. 132 [Ni]
152. Rainy Creek: Cobb, 1979a (OF 79-238), p. 62 [Cr]
 Unnamed occurrence: Idem, p. 108 [Ni]
153. Bee Mining Co.: Cobb, 1979a (OF 79-238), p. 11 [Ni]
 Emerick: Idem, p. 28 [Ni]
 Glacier Lake: Idem, p. 31 [Ni]
154. Gunn Creek: Cobb, 1979a (OF 79-238), p. 33 [Cr]
155. Chistochina Glacier: Cobb, 1979a (OF 79-238), p. 18 [Pt]
 Miller Gulch: Cobb, 1979a (OF 79-238), p. 48-49; O. J. Ferrians, oral communication, 4/12/82 [Hg, Pt]
 Slate Creek: Cobb, 1979a (OF 79-238), p. 70-72 [Pt]
 Unnamed occurrence: Idem, p. 118 [Mn]
156. Chistochina River, Middle Fork: Cobb, 1979a (OF 79-238), p. 20-21 [Cr, Pt]
157. Gillett Pass: Cobb, 1979a (OF 79-238), p. 30 [Cr]
158. Unnamed occurrence: Cobb and Richter, 1980 (OF 80-927), p. 64 [Co]
159. Unnamed occurrences: Tripp and others, 1976 (MF-767 O), map A [Sn]

160. Unnamed occurrences: Tripp and others, 1976 (MF-767 O), map A [Sn]
161. Unnamed occurrences: Tripp and others, 1976 (MF-767 O), map A [Sn]
162. Unnamed occurrences: Tripp and others, 1976 (MF-767 O), map A [Sn]
163. Unnamed occurrences: Tripp and others, 1976 (MF-767 O), map A [Sn]
164. Unnamed occurrences: Tripp and others, 1976 (MF-767 O), map A [Sn]
165. Unnamed occurrences: Tripp and others, 1976 (MF-767 O), map A [Sn]
166. Unnamed occurrence: Richter and others, 1975 (MF-655K), loc. 57 [Cr]
167. Bonanza Creek: Cobb and Richter, 1980 (OF 80-927), p. 9-10 [Hg]
168. Disappointment Creek: Eberlein and others, 1977 (OF 77-168D), p. 92 [Pt]
 Willow Creek: Idem, p. 94 [Pt]
 Wilson Creek: Idem, p. 94 [Pt]
169. Bobtail Creek: Eberlein and others, 1977 (OF 77-168D), p. 91 [Hg]
170. Tuluksak River: Hoare and Cobb, 1977 (OF 77-156), p. 25 [Pt]
171. Bear Creek: Hoare and Cobb, 1977 (OF 77-156), p. 56-57 [Hg]
172. Rocky Creek: Eberlein and others, 1977 (OF 77-168D), p. 10 [Hg]
173. Kapon Creek: Eberlein and others, 1977 (OF 77-168D), p. 10 [Hg]
174. Arsenic Creek: Hoare and Cobb, 1977 (OF 77-156), p. 5 [Hg]
 Rainy Creek: Eberlein and others, 1977 (OF 77-168D), p. 9 [Hg]
175. Kolmakof: Cobb, 1976b (OF 76-606), p. 35-36; Eberlein and others, 1977 (OF 77-168D), p. 98 [Hg]
176. Alder Gulch: Eberlein and others, 1977 (OF 77-168D), p. 116 [Hg]
 Broken Shovel: Idem, p. 116 [Hg]
 Cinnabar Creek: Cobb, 1976b (OF 76-606), p. 62-65 [Hg]
 Lucky Day: Idem, p. 69-70 [Hg]
 Redskin: Idem, p. 73 [Hg]
 Schaefer: Cobb, 1976b (OF 76-606), p. 74; Eberlein and others, 1977 (OF 77-168D), p. 116 [Hg]
177. Gemuk Mountain: Cobb, 1976b (OF 76-606), p. 66 [Hg]
178. Rhyolite: Eberlein and others, 1977 (OF 77-168D), p. 99 [Hg]
179. Egnaty Creek: Eberlein and others, 1977 (OF 77-168D), p. 97 [Hg]
180. George River: Cobb, 1976b (OF 76-606), p. 28 [Hg]
 Harvison: Eberlein and others, 1977 (OF 77-168D), p. 98 [Hg]
181. Alice & Bessie: Eberlein and others, 1977 (OF 77-168D), p. 96 [Hg]
 Ammeline: Idem, p. 96 [Hg]
 Barometer: Idem, p. 96 [Hg]
 Fairview: Cobb, 1976b (OF 76-606), p. 25 [Hg]
 McCally Creek: Idem, p. 39 [Hg]
 Mercury: Eberlein and others, 1977 (OF 77-168D), p. 98 [Hg]
 Red Devil: Cobb, 1976b (OF 76-606), p. 47-50 [Hg]
 Two Genevieves: Idem, p. 54 [Hg]
 Vermillion: Idem, p. 55 [Hg]
 Willis: Eberlein and others, 1977 (OF 77-168D), p. 100 [Hg]
 Unnamed prospect: Cobb, 1976b (OF 76-606), p. 58 [Hg]
182. Landru: Cobb, 1976b (OF 76-606), p. 38 [Hg]
 Mellick's: Idem, p. 40 [Hg]
183. Mountain Top: Cobb, 1976b (OF 76-606), p. 42 [Hg]
184. Taylor Creek: Eberlein and others, 1977 (OF 77-168D), p. 117 [Hg, Sn]
- *185. Kijik River: Cobb and Reed, 1981 (OF 81-1343A), p. A10 [Mn]
186. Kahiltna River: Cobb, 1979f (OF 80-86), p. 17-18 [Pt, Sn]
187. Gold Bullion: Cobb, 1979c (OF 79-1095), p. 41-42 [Hg]
188. Mount Eklutna: Cobb, 1979c (OF 79-1095), p. 113 [Cr]
 Thunder Bird Creek: Idem, p. 154 [Cr]
189. Eklutna River: Cobb, 1979c (OF 79-1095), p. 33 [Cr]
 Eklutna Tunnel: Idem, p. 34 [Hg]
 Highway: Idem, p. 57-58 [Cr, Pt]
 Pioneer Creek: Idem, p. 123 [Cr]

190. McRoberts Creek: Cobb, 1979c (OF 79-1095), p. 103 [Hg]
191. Unnamed occurrence: Cobb, 1979c (OF 70-1095), p. 166 [Cr]
192. Metal Creek: Cobb, 1979c (OF 79-1095), p. 104-105 [Pt]
193. Nearhouse: Cobb and Tysdal, 1980 (OF 80-621), p. 167 [Hg]
194. Bertha Creek: Cobb and Tysdal, 1980 (OF 80-621), p. 35 [Hg]
195. Unnamed occurrence: Cobb and Tysdal, 1980 (OF 80-621), p. 263 [Hg]
196. Alfred Creek: Cobb, 1979c (OF 79-1095), p. 9 [Pt]
197. Bernard Mountain: Cobb, 1979d (OF 79-1241), p. 14 [Cr]
198. Dust Mountain: Cobb, 1979d (OF 79-1241), p. 38 [Cr]
 Unnamed prospect: Idem, p. 152 [Cr]
- ★199. Liberty Falls: Cobb, 1979d (OF 79-1241), p. 71 [Mn]
200. Spirit Mountain: Cobb, 1979d (OF 79-1241), p. 130-132 [Co, Ni, Pt]
 Summit Lake area: Winkler and others, 1981 (OF 80-892-B), locs. 106
 A, B, C, D [Ni]
201. Unnamed occurrences: Cobb and MacKevett, 1980 (OF 80-885), p. 102-103
 [Cr]
202. Yakataga: Thomas and Berryhill, 1962 (RI 5986), p. 17, 19; Cobb,
 1979e (OF 79-1246), p. 8-10 [Cr]
203. Yakataga: Thomas and Berryhill, 1962 (RI 5986), p. 17, 19; Cobb,
 1979e (OF 79-1246), p. 8-10 [Cr]
204. Goodnews Bay: Eberlein and others, 1977 (OF 77-168D), p. 47; Hoare
 and Cobb, 1977 (OF 77-156), p. 35 [Cr, Hg, Pt]
205. McCann Creek: Cobb, 1980b (OF 80-909), p. 23 [Cr]
 Platinum-Salmon River beach: Idem, p. 25 [Cr, Pt]
 Smalls River: Idem, p. 30 [Pt]
206. Boulder Creek: Cobb, 1980b (OF 80-909), p. 14 [Pt]
 Clara Creek: Idem, p. 16 [Cr, Pt]
 Dowry Creek: Idem, p. 17 [Pt]
 Dry Gulch: Idem, p. 18 [Pt]
 Fox Gulch: Idem, p. 19 [Cr, Pt]
 Last Chance Creek: Idem, p. 22 [Pt]
 Platinum Creek: Idem, p. 24 [Cr, Pt]
 Platinum-Salmon River beach: Idem, p. 25 [Cr, Pt]
 Red Mountain: Idem, p. 26 [Cr, Pt]
 Salmon River: Idem, p. 27 [Cr, Hg, Pt]
 Squirrel Creek: Idem, p. 31 [Cr, Pt]
207. Chagvan Bay: Cobb, 1980b (OF 80-909), p. 15 [Cr, Pt]
208. Butte Creek: Hoare and Cobb, 1977 (OF 77-156), p. 29 [Pt]
 Kowkow Creek: Hoare and Coonrad, 1961 (I-339); Hoare and Cobb, 1977
 (OF 77-156), p. 40 [Pt]
 Snow Gulch: Hoare and Cobb, 1977 (OF 77-156), p. 47 [Pt]
209. Bear Creek: Eberlein and others, 1977 (OF 77-168D), p. 47 [Pt]
210. Hagemeister Strait: Cobb, 1980b (OF 80-909), p. 21 [Cr]
211. Kagati Lake: Eberlein and others, 1977 (OF 77-168D), p. 48; Hoare and
 Cobb, 1977 (OF 77-156), p. 38 [Hg]
212. Marsh Mountain: Eberlein and others, 1977 (OF 77-168D), p. 27 [Hg]
213. Claim Point: Cobb, 1979g (OF 80-87), p. 11-13 [Cr]
214. Red Mountain: Cobb, 1979g (OF 80-87), p. 28-31 [Cr, Ni]
215. Unnamed occurrence: Tripp and Detra, 1980 (MF-1053-I) [Hg]
216. Unnamed occurrence: Tripp and Detra, 1980 (MF-1053-I) [Hg]
217. Unnamed occurrences: Tripp and Detra, 1980 (MF-1053-I) [Hg]
218. Unnamed occurrence: Tripp and Detra, 1980 (MF-1053-I) [Hg]
219. Unnamed occurrences: Tripp and Detra, 1980 (MF-1053-I) [Hg]
220. Kodiak Island, west coast beaches: Cobb, 1979b (OF 79-860), p. 7-8
 [Cr, Pt]
221. Kodiak Island, west coast beaches: Cobb, 1979b (OF 79-860), p. 7-8
 [Cr, Pt]

222. Kodiak Island, west coast beaches: Cobb, 1979b (OF 79-860), p. 7-8
[Cr, Pt]
223. Icy Bay: Cobb, 1979e (OF 79-1246), p. 12 [Cr]
224. Black Sand Beach: Cobb, 1979e (OF 79-1246), p. 19 [Pt]
225. Akwe Beach: Cobb, 1979e (OF 79-1246), p. 17 [Cr]
226. Mount Fairweather: Cobb, 1981a (OF 81-249A), p. A9 [Cr, Ni, Pt]
227. Desolation Glacier: Cobb, 1981a (OF 81-249A), p. A4 [Ni]
228. North Crillon Glacier: Cobb, 1981a (OF 81-249A), p. A10 [Cr, Ni, Pt]
South Crillon Glacier: Idem, p. A15 [Co, Cr, Ni]
229. Lituya Bay: Cobb, 1978c (OF 78-316), p. 32-34 [Pt]
230. Lituya Bay: Cobb, 1978c (OF 78-316), p. 32-34 [Pt]
231. Lituya Bay: Cobb, 1978c (OF 78-316), p. 32-34 [Pt]
232. Lituya Bay: Cobb, 1978c (OF 78-316), p. 32-34 [Pt]
233. Brady Glacier: Cobb, 1981a (OF 81-249A), p. A3 [Co, Ni, Pt]
Unnamed occurrence: Berg and others, 1981 (OF 81-122), p. 74, loc. 36
[Ni]
234. Geikie Inlet: Cobb, 1981a (OF 81-249A), p. A6 [Cr]
235. Dundas Bay, West Arm: Cobb, 1981a (OF 81-249A), p. A5 [Co]
236. Klukwan: Berg and others, 1981 (OF 81-122), p. 117 [Pt]
237. Berg Creek: Berg and others, 1981 (OF 81-122), p. 41 [Cr]
238. William Henry Bay: Cobb, 1978d (OF 78-374), p. 133 [Nb]
239. Admiralty-Alaska (Funter Bay): Berg and others, 1981 (OF 81-122), p.
57 [Co, Ni]
240. Sunrise Canyon: Berg and others, 1981 (OF 81-122), p. 126 [Mn]
241. Bohemia Basin: Berg and others, 1981 (OF 81-122), p. 98 [Ni]
242. Mirror Harbor: Berg and others, 1981 (OF 81-122), p. 100 [Ni]
243. Big Ledge: Berg and others, 1981 (OF 81-122), p. 108 [Ni]
244. Blue Lake: Berg and others, 1981 (OF 81-122), p. 107 [Cr]
Haley & Hanlon: Idem, p. 107 [Co, Ni]
Unnamed occurrence: Idem, p. 106 [Cr]
245. Hill: Cobb, 1978f (OF 78-787), p. 12 [Cr]
246. Red Bluff Bay: Cobb, 1978f (OF 78-787), p. 21 [Cr]
247. Snipe Bay: Berg and others, 1981 (OF 81-122), p. 94 [Ni]
248. Unnamed occurrence: Berg and others, 1981 (OF 81-122), p. 109, loc.
106a [Nb]
249. Ebba: Cobb, 1978e (OF 78-450), p. 39 [Ni]
250. Snettisham: Berg and others, 1981 (OF 81-122), p. 120 [Pt]
251. Kane Peak: Cobb, 1978h (OF 78-870), p. 23 [Ni]
252. Portage Mountain: Berg and others, 1981 (OF 81-122), p. 86 [Pt]
253. Blaske Islands: Berg and others, 1981 (OF 81-122), p. 91 [Cr, Pt]
254. Noyes Island: Cobb, 1978g (OF 78-869), p. 152 [Ni]
255. Rush & Brown: Cobb, 1978g (OF 78-869), p. 174-177 [Co]
Salt Chuck: Berg and others, 1981 (OF 81-122), p. 18 [Pt]
256. Union Bay: Cobb, 1978g (OF 78-869), p. 212-213; Berg and others,
1981 (OF 81-122), p. 35 [Cr, Pt]
257. Mount Andrew: Berg and others, 1981 (OF 81-122), p. 22 [Co]
258. Iron Crown: Cobb, 1978g (OF 78-869), p. 98 [Ni]
Sultana: Idem, p. 201 [Ni]
- ★259. Bokan Mountain; Staatz and others, 1980 (C 824), p. 19-21; Berg and
others, 1981 (OF 81-122), p. 38 [Nb]
260. Yellow Hill: Cobb and Elliott, 1980 (OF 80-1053), p. 114 [Cr, Pt]
261. Duke Island: Cobb and Elliott, 1980 (OF 80-1053), p. 137 [Cr, Ni, Pt]
262. Duke Island: Cobb and Elliott, 1980 (OF 80-1053), p. 137 [Cr, Ni, Pt]

REFERENCES CITED

- * Barker, J. C., 1979, A trace element study of the Circle mining district, Alaska: U.S. Bureau of Mines Open-File Report 57-79, 74 p.
- * ———, 1981, Mineral investigations in the Porcupine River drainage, Alaska: U.S. Bureau of Mines Open-File Report 27-81, 189 p.
- Berg, H. C., Decker, J. E., and Abramson, B. S., 1981, Metallic mineral deposits of southeastern Alaska: U.S. Geological Survey Open-File Report 81-122, 136 p.
- Berryhill, R. V., 1962, Reconnaissance sampling of beach and river mouth deposits, Norton Bay and Kotzebue Sound, Seward Peninsula, Alaska: U.S. Bureau of Mines Open-File Report, 13 p.
- Brosge, W. P., and Reiser, H. N., 1964, Geologic map and section of the Chandalar quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-375, scale 1:250,000.
- Bundtzen, T. K., and Laird, G. M., 1980, Preliminary geology of the McGrath-upper Innoko River area, western interior Alaska: Alaska Division of Geological and Geophysical Surveys Open-File Report 134, 35 p.
- Chapman, R. M., Coats, R. R., and Payne, T. G., 1963, Placer tin deposits in central Alaska: U.S. Geological Survey Open-File Report, 53 p.
- Clautice, K. H., 1978, Mineral deposits of the Kanuti River area - a summary report: U.S. Bureau of Mines Open-File Report 66-78, 15 p.
- Cobb, E. H., 1975, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Teller quadrangle, Alaska: U.S. Geological Survey Open-File Report 75-587, 141 p. (unnumbered).
- , 1976a, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Iditarod and Ophir quadrangles, Alaska: U.S. Geological Survey Open-File Report 76-576, 101 p.
- , 1976b, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Dillingham, Sleetmute, and Taylor Mountains quadrangles, Alaska: U.S. Geological Survey Open-File Report 76-606, 92 p.
- , 1976c, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Charley River and Coleen quadrangles, Alaska: U.S. Geological Survey Open-File Report 76-632, 45 p.
- , 1976d, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Circle quadrangle, Alaska: U.S. Geological Survey Open-File Report 76-633, 72 p.
- , 1976e, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Fairbanks quadrangle, Alaska: U.S. Geological Survey Open-File Report 76-662, 174 p.
- , 1976f, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Livengood quadrangle, Alaska: U.S. Geological Survey Open-File Report 76-819, 241 p.
- , 1976g, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Candle, Holy Cross, Norton Bay, Nulato, and Unalakleet quadrangles, Alaska: U.S. Geological Survey Open-File Report 76-866, 102 p.
- , 1977, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Eagle quadrangle, Alaska: U.S. Geological Survey Open-File Report 77-845, 122 p.
- , 1978a, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Nome quadrangle, Alaska: U.S. Geological Survey Open-File Report 78-93, 213 p.

- Cobb, E. H., 1978b, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Beaver, Bettles, and Medfra quadrangles, Alaska: U.S. Geological Survey Open-File Report 78-94, 55 p.
- _____, 1978c, Summary of references to mineral occurrences (other than mineral fuels and construction materials), in the Mount Fairweather and Skagway quadrangles, Alaska: U.S. Geological Survey Open-File Report 78-316, 128 p.
- _____, 1978d, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Juneau quadrangle, Alaska: U.S. Geological Survey Open-File Report 78-374, 155 p.
- _____, 1978e, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Sitka quadrangle, Alaska: U.S. Geological Survey Open-File Report 78-450, 123 p.
- _____, 1978f, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Port Alexander quadrangle, Alaska: U.S. Geological Survey Open-File Report 78-787, 32 p.
- _____, 1978g, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Craig quadrangle, Alaska: U.S. Geological Survey Open-File Report 78-869, 261 p.
- _____, 1978h, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Petersburg quadrangle, Alaska: U.S. Geological Survey Open-File Report 78-870, 52 p.
- _____, 1978i, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Healy quadrangle, Alaska: U.S. Geological Survey Open-File Report 78-1062, 112 p.
- _____, 1979a, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Mount Hayes quadrangle, Alaska: U.S. Geological Survey Open-File Report 79-238, 140 p.
- _____, 1979b, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Afognak, Karluk, Kodiak, and Trinity Islands quadrangles, Alaska: U.S. Geological Survey Open-File Report 79-860, 47 p.
- _____, 1979c, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Anchorage quadrangle, Alaska: U.S. Geological Survey Open-File Report 79-1095, 183 p.
- _____, 1979d, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Valdez quadrangle, Alaska: U.S. Geological Survey Open-File Report 79-1241, 166 p.
- _____, 1979e, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Bering Glacier, Icy Bay, Middleton Island, and Yakutat quadrangles, Alaska: U.S. Geological Survey Open-File Report 79-1246, 40 p.
- _____, 1979f, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Kenai and Tyonek quadrangles, Alaska: U.S. Geological Survey Open-File Report 80-86, 26 p.
- _____, 1979g, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Seldovia quadrangle, Alaska: U.S. Geological Survey Open-File Report 80-87, 47 p.
- _____, 1980a, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Mount McKinley quadrangle, Alaska: U.S. Geological Survey Open-File Report 80-363, 150 p.

- Cobb, E. H., 1980b, Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in fifteen quadrangles in southwestern and west-central Alaska (Atka, Attu, Bristol Bay, Chignik, Cold Bay, Hagemeister Island, Mount Katmai, Naknek, Port Moller, Rat Islands, Saint Lawrence, Stepovak Bay, Ugashik, Unalaska, Unimak): U.S. Geological Survey Open-File Report 80-909, 103 p.
- _____, 1981a, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Mount Fairweather quadrangle, Alaska, Supplement to Open-File Report 78-316; Part A -- Summaries of data to January 1, 1980: U.S. Geological Survey Open-File Report 81-249A, p. A1-A20.
- _____, 1981b, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Bendeleben quadrangle, Alaska, Supplement to Open-File Report 75-429; Part A -- Summaries of data to January 1, 1980: U.S. Geological Survey Open-File Report 81-363A, p. A1-A25.
- _____, 1981c, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Teller quadrangle, Alaska, Supplement to Open-File Report 75-587; Part A -- Summaries of data to January 1, 1980: U.S. Geological Survey Open-File Report 81-364A, p. A1-A25.
- _____, 1981d, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Solomon quadrangle, Alaska, Supplement to Open-File Report 78-181; Part A -- Summaries of data to January 1, 1981: U.S. Geological Survey Open-File Report 81-504A, p. A1-A30.
- _____, 1981e, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Tanana quadrangle, Alaska, Supplement to Open-File Report 77-432; Part A -- Summaries of data to June 1, 1981: U.S. Geological Survey Open-File Report 81-1313A, p. A1-A23.
- _____, 1981f, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Livengood quadrangle, Alaska, Supplement to Open-File Report 76-819; Part A -- Summaries of data to August 1, 1981: U.S. Geological Survey Open-File Report 81-1342A, p. A1-A48.
- Cobb, E. H., and Chapman, R. M., 1981, Mineral occurrences (other than mineral fuels and construction materials) in the Kantishna River and Ruby quadrangles, Alaska: U.S. Geological Survey Open-File Report 81-170, 94 p.
- Cobb, E. H., and Csejtey, Béla, Jr., 1980, Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in the Talkeetna Mountains quadrangle, Alaska: U.S. Geological Survey Open-File Report 80-716, 63 p.
- Cobb, E. H., and Eberlein, G. D., 1980, Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in the Big Delta and Tanacross quadrangles, Alaska: U.S. Geological Survey Open-File Report 80-1086, 76 p.
- Cobb, E. H., and Elliott, R. L., 1980, Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in the Ketchikan and Prince Rupert quadrangles, Alaska: U.S. Geological Survey Open-File Report 80-1053, 156 p.
- Cobb, E. H., and MacKevett, E. M., Jr., 1980, Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in the McCarthy quadrangle, Alaska: U.S. Geological Survey Open-File Report 80-885, 156 p.

- Cobb, E. H., and Mayfield, C. F., 1981, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Ambler River quadrangle, Alaska, Supplement to Open-File Report 75-628; Part A -- Summaries of data to January 1, 1981: U.S. Geological Survey Open-File Report 81-570A, p. A1-A13.
- * Cobb, E. H., Mayfield, C. F., and Brosgé, W. P., 1981, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in eleven quadrangles in northern Alaska, Supplement to Open-File Report 75-628; Part A -- Summaries of data to January 1, 1981: U.S. Geological Survey Open-File Report 81-767A, p. A1-A24.
- * Cobb, E. H., and Miller, T. P., 1981, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Hughes, Kotzebue, Melozitna, Selawik, and Shungnak quadrangles, west-central Alaska, Supplement to Open-File Report 75-627; Part A -- Summaries of data to January 1, 1981: U.S. Geological Survey Open-File Report 81-847A, p. A1-A14.
- * Cobb, E. H., and Reed, B. L., 1980, Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in the Talkeetna quadrangle, Alaska: U.S. Geological Survey Open-File Report 80-884, 106 p.
- * ———, 1981, Summaries of data on and lists of references to metallic and selected nonmetallic mineral occurrences in the Iliamna, Lake Clark, Lime Hills, and McGrath quadrangles, Alaska, Supplement to Open-File Report 76-485; Part A -- Summaries to January 1, 1981: U.S. Geological Survey Open-File Report 81-1343A, p. A1-A25.
- Cobb, E. H., and Richter, D. H., 1980, Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in the Nabesna quadrangle, Alaska: U.S. Geological Survey Open-File Report 80-927, 116 p.
- Cobb, E. H., and Tysdal, R. G., 1980, Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in the Blying Sound and Seward quadrangles, Alaska: U.S. Geological Survey Open-File Report 80-621, 284 p.
- De Young, J. H., Jr., 1978, Mineral resources map of the Chandalar quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-878-B, scale 1:250,000, 2 sheets.
- Dillon, J. T., Moorman, M. A., and Lueck, Larry, 1981, Geochemical reconnaissance of the southwest Wiseman quadrangle; summary of data on rock samples: Alaska Division of Geological and Geophysical Surveys Open-File Report 133B, 164 p.
- Eakins, G. R., Jones, B. K., and Forbes, R. B., 1977, Investigation of Alaska's uranium potential: Alaska Division of Geological and Geophysical Surveys Open-File Report 109, 202 p.
- Eberlein, G. D., Chapman, R. M., Foster, H. L., and Gassaway, J. S., 1977, Map and table describing known metalliferous and selected nonmetalliferous mineral deposits in central Alaska: U.S. Geological Survey Open-File Report 77-168D, 132 p. + map, scale 1:1,000,000.
- Hoare, J. M., and Cobb, E. H., 1977, Mineral occurrences (other than mineral fuels and construction materials) in the Bethel, Goodnews, and Russian Mission quadrangles, Alaska: U.S. Geological Survey Open-File Report 77-156, 98 p.
- Hoare, J. M., and Coonrad, W. L., 1961, Geologic map of the Goodnews quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-339, scale 1:250,000.

- Martin, G. C., 1919, The Alaskan mining industry in 1917: U.S. Geological Survey Bulletin 692, p. 11-42.
- Mertie, J. B., Jr., 1938, Gold placers of the Fortymile, Eagle, and Circle districts, Alaska: U.S. Geological Survey Bulletin 897-C, p. 133-261.
- Richter, D. H., Singer, D. A., and Cox, D. F., 1975, Mineral resources map of the Nabesna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-655K, scale 1:250,000.
- Staatz, M. H., Hall, R. B., Macke, D. L., Armbrustmacher, T. J., and Brownfield, I. K., 1980, Thorium resources of selected regions in the United States: U.S. Geological Survey Circular 824, 32 p.
- Thomas, B. L., and Berryhill, R. V., 1962, Reconnaissance studies of Alaskan beach sands, eastern Gulf of Alaska: U.S. Bureau of Mines Report of Investigations 5986, 40 p.
- Tripp, R. B., Curtin, G. C., Day, G. W., Karlson, R. C., and Marsh, S. P., 1976, Maps showing mineralogical and geochemical data for heavy-mineral concentrates in the Tanacross quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-767 O, scale 1:500,000, 2 sheets.
- Tripp, R. B., and Detra, D. E., 1980, Map showing mineralogic data for selected minerals in nonmagnetic heavy-mineral concentrates of stream sediments in the Chignik and Sutwik Island quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1053-I, scale 1:250,000, 2 sheets.
- West, W. S., 1953, Reconnaissance for radioactive deposits in the Darby Mountains, Seward Peninsula, Alaska, 1948: U.S. Geological Survey Circular 300, 7 p.
- Winkler, G. R., Miller, R. J., MacKevett, E. M., Jr., and Holloway, C. D., 1981, Map and summary table describing mineral deposits in the Valdez quadrangle, southern Alaska: U.S. Geological Survey Open-File Report 80-892-B, scale 1:250,000, 2 sheets.

CHROMITE

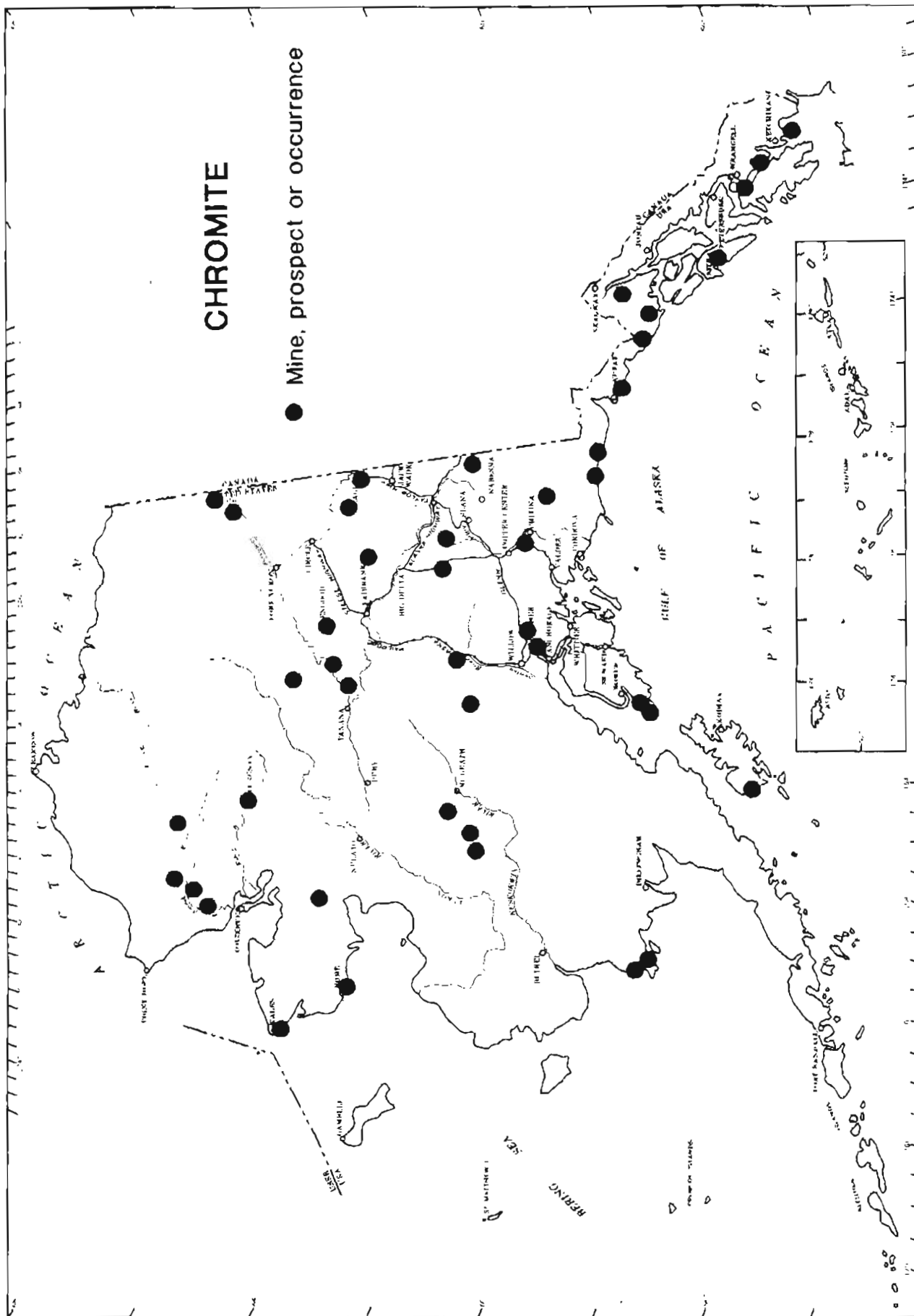
● Mine, prospect or occurrence

Map of Alaska showing the distribution of chromite. The map includes the state of Alaska, the Gulf of Alaska, and the Pacific Ocean. Numerous black dots indicate the locations of chromite mines, prospects, or occurrences. Key locations labeled include Barrow, Prudhoe Bay, Bettendorf, and various points along the coast. An inset map shows the location of Alaska within the North American continent.

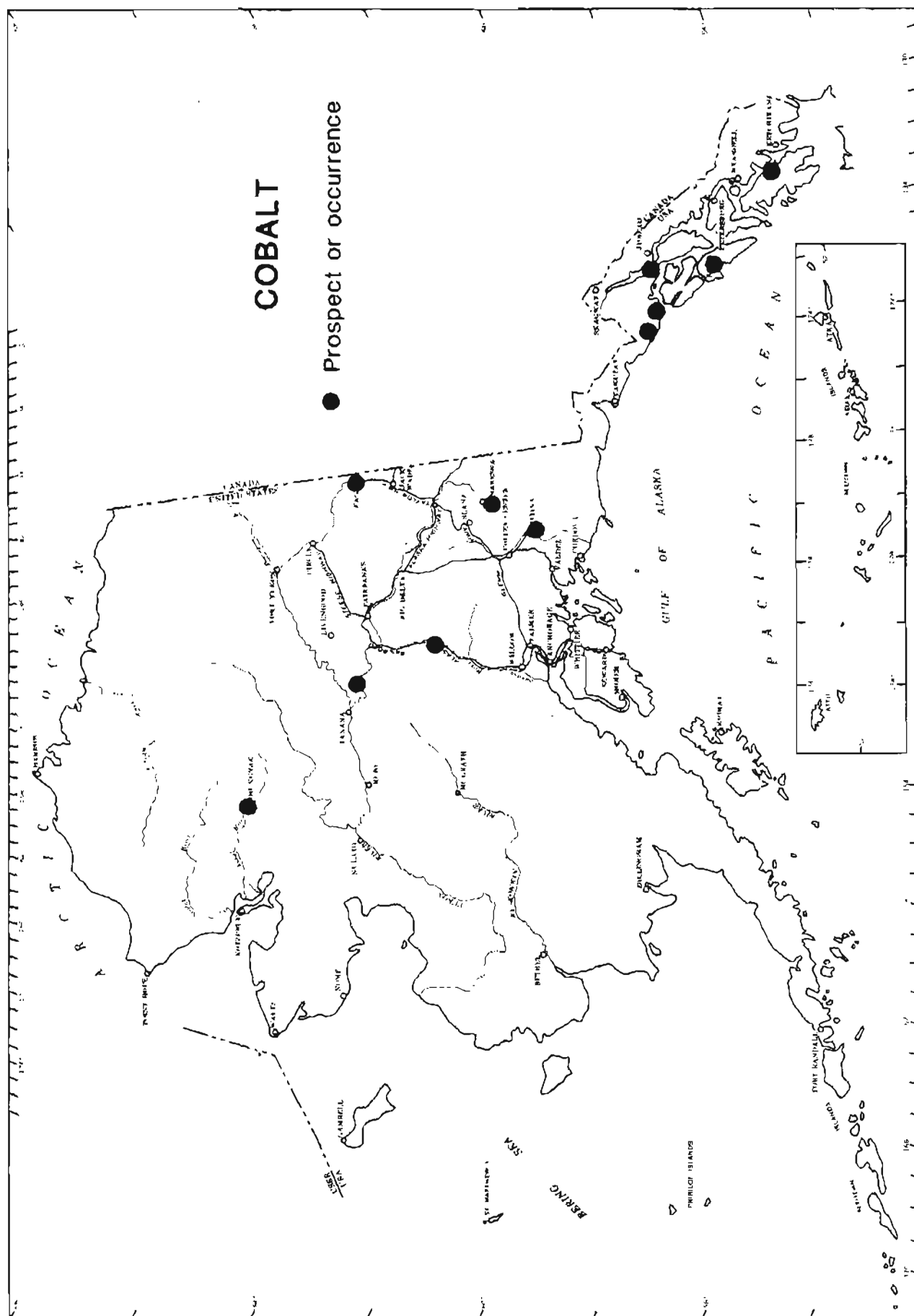
CHROMITE

● Mine, prospect or occurrence

Map of Alaska showing the distribution of chromite. The map includes the state of Alaska, the Gulf of Alaska, and the Pacific Ocean. Numerous black dots indicate the locations of chromite mines, prospects, or occurrences. Key locations labeled include Barrow, Prudhoe Bay, Bettendorf, and various points along the coast. An inset map shows the location of Alaska within the North American continent.



- Prospect or occurrence



MANGANESE

● Prospect or occurrence

Map of Alaska showing Manganese Prospects or Occurrence. The map includes the Gulf of Alaska, Bering Sea, and various Alaskan locations. A legend indicates that black dots represent 'Prospect or occurrence'. Numerous locations are marked with dots, including Barrow, Kotzebue Sound, and various points along the coast. An inset map shows the location of Alaska within the Pacific Ocean.

MANGANESE

● Prospect or occurrence

Map of Alaska showing Manganese Prospects or Occurrence. The map includes the Gulf of Alaska, Bering Sea, and various Alaskan locations. A legend indicates that black dots represent 'Prospect or occurrence'. Numerous locations are marked with dots, including Barrow, Kotzebue Sound, and various points along the coast. An inset map shows the location of Alaska within the Pacific Ocean.

