OCCURRENCES OF SELECTED CRITICAL AND STRATEGIC MINERAL COMMODITIES IN ALASKA

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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

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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]
20. Eightmile Creek: De Young, 1978 (MF-878-B), loc. 21 [Hg]
Limestone Creek: Brosge and Reiser, 1964 (1-375) [Pt]
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]
Baituk Creek: Idem, p. A3 [Sn]
Bannerr Creek: Idem, p. A3 [Sn]
Buhner (Buckner) Creek: Idem, p. A6 [Sn]
Kigezruk Creek: Idem, p. A13-A14 [Sn]
Diomede Creek: Idem, p. A9 [Sn]
Grouse Creek: Cobb, 1975 (OF 75-587) [Sn]
Peluk Creek: Idem, p. A15-A16 [Sn]
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Potato Mountain: Idem, p. A16 [Sn]
Sutter Creek: Idem, p. A18 [Sn]

Lost River area: Idem, p. A14-A15 [Mn, Sn]
Rapid River: Idem, p. A17 [Sn]

York Creek: Idem, p. A19 [Sn]


34. Bering Creek: Cobb, 1981c (OF 81-364A), p. A3 [Hg]
Eagle Creek: Idem, p. A9 [Hg]

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]


Gold Run: Idem, p. A10-A11 [Hg, Pt]

Willow Creek: Martin, 1919 (B 692), p. 20 [Sn]

Windy Creek: Idem, p. A19 [Hg]

Goldbottome 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]


45. Mascot Creek: Idem, p. A15 [Sn]


Wonder Gulch: Idem, p. A20 [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]

Hannun Creek: Idem, p. A11 [Sn]

Old Glory Creek: Idem, p. A16 [Sn]


56. Clear Creek tributary: West, 1953 (C 300), p. 6-7 (samples 2983, 2992, 2993, 2995) [Nb, Sn]
   Vulcan 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]
   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]
   Cox Gulch (Pup): Idem, p. 21 [Sn]
   Glacier Creek: Idem, p. 36 [Sn]
   Ruby Creek: Idem, p. 63-64 [Sn]
   Straight Creek: Idem, p. 73 [Sn]
   Trail Creek: Idem, p. 81-82 [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]
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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]
   Morelock Creek: Idem, p. A14-A15 [Sn]
   Boulder Creek: Idem, p. A4 [Cr]
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   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]
   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]
    Omega Creek: Idem, p. A15 [Hg]
    Pioneer Creek and tributaries: Idem, p. A16 [Hg]
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80. Hoosier Creek: Cobb, 1981e (OF 81-1313A), p. A10 [Hg]
    Hunter Creek: Cobb, 1981f (OF 81-1342A), p. A18 [Hg, Sn]
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]
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    Parker: Idem p. A27 [Cr, Ni]
    Ruth Creek: Idem, p. A30 [Cr, Hg]
    Unnamed occurrence: Idem, p. A40 [Mn]
    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]
    Fish Creek: Idem, p. A12 [Sn]
    Mizpah: Idem, p. A23 [Mn]
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]
    Yankee Creek: Cobb, 1976d (OF 76-633), p. 64 [Sn]
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Fox Creek: Eberlein and others, 1977 (OF 77-168D), p. 32 [Sn]
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Eagle Bluff: Cobb, 1977 (OF 77-845), p. 38 [Co]
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122. Chicken Creek: Cobb, 1976a (OF 76-576), p. 8-9 [Cr, Hg]
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123. Julian Creek: Eberlein and others, 1977 (OF 77-168D), p. 56 [Hg, Sn]
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]
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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]


132. Mount Joaquin: Eberlein and others, 1977 (OF 77-168D), p. 83 [Hg]

133. Yankee Gulch: Cobb and Reed, 1981 (OF 81-1343A), p. A22 [Hg]


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]


139. Merinser: Cobb, 1980a (OF 80-363), p. 69 [Hg]


141. Canyon Creek: Cobb and Reed, 1980 (OF 80-884), p. 15 [Pt, Sn]
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Willow Creek: Idem, p. 75 [Pt, Sn]

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143. Kahiltna 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]


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]
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154. Gun 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]
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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]
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169. Bobtail Creek: Eberlein and others, 1977 (OF 77-168D), p. 91 [Hg]
171. Bear Creek: Hoare and Cobb, 1977 (OF 77-156), p. 56-57 [Hg]
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177. Gemuk Mountain: Cobb, 1976b (OF 76-606), p. 66 [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]
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182. Landru: Cobb, 1976b (OF 76-606), p. 38 [Hg]
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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]
188. Mount Eklutna: Cobb, 1979c (OF 79-1095), p. 113 [Cr]
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189. Eklutna River: Cobb, 1979c (OF 79-1095), p. 33 [Cr]
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190. McRoberts Creek: Cobb, 1979c (OF 79-1095), p. 103 [Hg]
191. Unnamed occurrence: Cobb, 1979c (OF 70-1095), p. 166 [Cr]
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]
198. Dust Mountain: Cobb, 1979d (OF 79-1241), p. 38 [Cr]
199. Unnamed prospect: Idem, p. 152 [Cr]
203. Yakataga: Thomas and Berryhill, 1962 (RI 5986), p. 17, 19; Cobb, 1979e (OF 79-1246), p. 8-10 [Cr]
205. McCann Creek: Cobb, 1980b (OF 80-909), p. 23 [Cr]
207. Clara Creek: Idem, p. 16 [Cr, Pt]
208. Dowry Creek: Idem, p. 17 [Pt]
209. Dry Gulch: Idem, p. 18 [Pt]
210. Fox Gulch: Idem, p. 19 [Cr, Pt]
211. Last Chance Creek: Idem, p. 22 [Pt]
212. Platinum Creek: Idem, p. 24 [Cr, Pt]
213. Platinum-Salmon River beach: Idem, p. 25 [Cr, Pt]
217. Marsh Mountain: Cobb, 1979b (OF 79-860), p. 21 [Cr]
218. Hagemeister Strait: Cobb, 1980b (OF 80-909), p. 27 [Cr, Hg, Pt]
219. Squirrel Creek: Idem, p. 31 [Cr, Pt]
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]


225. Akwe Beach: Cobb, 1979e (OF 79-1246), p. 17 [Cr]


South Crillon Glacier: Idem, p. A15 [Co, Cr, Ni]


244. Blue Lake: Berg and others, 1981 (OF 81-122), p. 107 [Cr] 
Haley & Hanlon: Idem p. 107 [Co, Ni]


250. Snettisham: Berg and others, 1981 (OF 81-122), p. 120 [Pt]


259. Sultana: Idem, p. 201 [Ni]


REFERENCES CITED


COBALT

Prospect or occurrence
MANGANESE

Prospect or occurrence