

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TABLE DESCRIBING METALLIFEROUS MINERAL DEPOSITS
IN THE WESTERN PART OF SOUTHERN ALASKA

TO ACCOMPANY
OPEN-FILE MAP 77-169F

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

Menlo Park, California
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TABLE DESCRIBING METALLIFEROUS MINERAL DEPOSITS
IN THE WESTERN PART OF SOUTHERN ALASKA

(To accompany open-file map 77-169F)

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EXPLANATORY STATEMENT

This table briefly describes all known deposits and principal occurrences of metal-bearing minerals in the western part of southern Alaska. The table and accompanying map are integral parts of the Regional Alaska Mineral Resource Assessment Program (RAMRAP) for southern Alaska. They are based on an extensive literature search, consultations with numerous government and industry geologists, and the firsthand knowledge of the authors. Published inventories of Alaskan mineral deposits, prepared by E.H. Cobb of the U.S. Geological Survey, constitute the basic framework data for our tabulation and map. Cobb's data were expanded by including more geologic and related data and augmented and updated by incorporating information derived from other sources. These sources include preliminary data from three 1:250,000 scale quadrangles that are being investigated under the Alaskan Mineral Resource Assessment Program (AMRAP), U.S. Bureau of Mines maps that depict locations of mining claims, and company geologists who generously provided information on recent mineral exploration in the area. MacKevett spent about three weeks in the study area endeavoring to gain firsthand knowledge of the most important deposit types. During this time he was accompanied by B.L. Reed of the U.S. Geological Survey, who provided valuable information on the region's mineral deposits and geology.

Despite our efforts, large disparities exist in the data base, as some deposits are poorly documented and scantily known while others have been well studied. However, information on almost all of the deposits is sufficient to assuredly determine their types and geologic settings. Regardless of their shortcomings, this table and map provide succinct and current summaries of the known metalliferous mineral deposits in the study area and references for sources of additional information on the deposits.

This report focuses on showing locations and providing brief descriptions of the known deposits and main occurrences of metal-bearing minerals in western southern Alaska. Another open-file report (78-1E) gives information on the region's mineral endowment and mineral resource potential. However, some information regarding the significance of a given deposit can be inferred from the table, particularly under the headings "Type" and "Brief Description".

The extent of western southern Alaska, as used in this report, and the 1:250,000 scale quadrangles that it contains are shown on index maps that supplement the accompany map. Western southern Alaska in our usage includes the southwestern part of the Alaska Range and contiguous areas to the northwest, the Alaska Peninsula, and an insular region south and southeast of the peninsula. It is bounded on the east by the 152° and 153° meridians, on the south by the Pacific Ocean, and on the extreme west by Unimak Pass. Its irregular northwestern boundary extends southwestward from near the northeast corner of the McGrath quadrangle to Bristol Bay.

EXPLANATION FOR TABLE 1/

TABLE HEADINGS

MAP NO. AND NAME(S) (if known)

Map no. refers to a specific deposit in a given quadrangle on the mineral deposits map and serves to link the map and table. Name(s) of mines or prospects are derived from published sources or from general usage. In some cases more than one mine, prospect, or occurrence are grouped under the same map number. Names in parentheses are duplicate and generally less valid names for the mine or prospect preceding the parentheses.

MAP COORDINATES, LOCATION

Map coordinates indicate the position of each deposit on the mineral deposits map using letters for each degree of longitude and numbers for each degree of latitude. Location refers to the standard township and range land designations relevant to specific parallels and meridians and requires a U.S. Geological Survey quadrangle map (or similar map) for satisfactory use.

CATEGORY

The terms mine, prospect, and occurrence are used as follows:

Mine -- a mineral deposit with recorded production.

Prospect -- a deposit that has been staked and, in most cases, has been scantily explored but lacks evidence of production. Probably many of the placer gold deposits that are listed as prospects have had at least meager production, but because of lack of substantiative evidence they are classified as prospects.

Occurrence -- a deposit that, as far as known, is unclaimed, and is mainly known from recent U.S. Geological Survey or Alaska Division of Geological and Geophysical Surveys field investigations. Numerous, apparently insignificant, minor occurrences are not included in the map and table.

M -- mine with no known post-1950 activity
M -- mine with known or probable post-1950 activity
p -- prospect with no apparent post-1950 activity
P -- prospect with apparent post-1950 activity
O -- occurrence

1/ The table is arranged by quadrangles in alphabetic sequence.

RESOURCE(S)

Indicates the main mineral commodity or commodities (by standard chemical symbols) that have been produced or for which the deposit is noteworthy. Minor constituents, byproducts, or potential by-products are shown in parentheses.

FORM

Denotes the physical aspect of a deposit.

TYPE

The deposits are classified according to generally used deposit types, most of which have genetic connotations. In a broad sense most metalliferous mineral deposits are hydrothermal; in many cases, deposits that don't readily conform to other types are listed in the table as hydrothermal. Due to the paucity of information, classifications for some deposits are arbitrary; in general such classifications are queried.

BRIEF DESCRIPTION

Provides brief descriptions of the geology and mineralogy of the deposits and, in some instances, production and historical data.

PRINCIPAL REFERENCES

Cites sources for information used in the table and map. A list of references cited follows the table.

Abbreviations used

Standard chemical symbols -- for example, Au for gold; Cu for copper.

Standard metric abbreviations -- for example, m for meter; km for kilometer.

Minerals

aspy -- arsenopyrite
az -- azurite
bn -- bornite
calc -- calcite
cc -- chalcocite
cp -- chalcopyrite
epid -- epidote
gn -- galena
hem -- hematite

mgt -- magnetite
ml -- malachite
mo -- molybdenite
po -- pyrrhotite
py -- pyrite
qz -- quartz
sb -- stibnite
sch -- scheelite
sl -- sphalerite

AFONKAK QUADRANGLE
(latitude, 58°-59°; longitude, 151°30'-154°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Malina Bay	L.6 T.22S., R.23W.	P	Au(Ag)	Vein	Hydrothermal	Old prospect on qz vein near contact between Jurassic granitic rocks and lower Mesozoic or upper Paleozoic metamor- phic rocks	Capps, 1937, p. 175
2. Raspberry Beach (Driver Bay)	L.6 T.24S., R.25W.	M	Au	Dissseminated	Placer	Mainly beach placers	Capps, 1937, p. 172
3	L.6 T.24S., R.25W.	C	Au(Ag)	Vein	Hydrothermal	Lode claims in Cretaceous flysch	U.S. Bureau of Mines, 1973
4	L.6 T.15S., R.26W.	P	Au?			Lode claims	U.S. Bureau of Mines, 1973

BRISTOL BAY QUADRANGLE
(latitude, 57°-58°; longitude, 158°-160°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Cinder River Beach	G,5 T.35S.,R.58W.	0	Au	Disseminated	Placer	Traces of flour gold in beach placers	Berryhill, 1963, p. 31-33

CHIGNIK QUADRANGLE
(latitude, 56°-57°; longitude, 158°-160°30')

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, CATEGORY LOCATION	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES	
1. Cathedral Creek	G,4 T.42S.,R.60W.	P	Cu(Ag,Zn,Hg?)	Disseminated	Porphyry	Strongly altered zones in Tertiary volcanic and subvolcanic rocks; U.S. Bur. Mines records show a mercury claim at this site	U.S. Geol. Survey, 1976, unpublished information; U.S. Bur. Mines, 1973
2. Mallard Duck Bay	G,4 T.45S.,R.59W.	P	Cu(Ag,Au)	Disseminated, veinlet	Porphyry	py- and cp- bearing altered zones in Tertiary plutons; recent diamond drilling	Atwood, 1911, p. 128, U.S. Geol. Survey, 1976, unpublished information
3. Warner Bay	G,4 T.46S.,R.58W.	P	Cu(Mo,Ag,Au, Pb,Zn)	Disseminated, veinlet, breccia, vein	Porphyry, hydrother- mal?	Extensive altered zone in Tertiary? plutons; local brecciation and veining, may reflect more than one stage of mineralization; contains cp, mo, py, probably other sulfides, and qz; recent diamond drilling	Atwood, 1911, p. 129; U.S. Geol. Survey, 1976, unpublished information
4.	F,4 Tps.39,40S., R.62W.	O	(Fe,Au)	Disseminated	Placer	Local concentrations of mgt and traces of Au in beach sands	Berryhill, 1963, p. 33-36
5.	G,4 T.46S.,R.60W.	P	Cu(Ag)	Disseminated	Porphyry	Altered zones mainly associated with Tertiary plutons	U.S. Bur. Mines, 1973
6.	G,4 T.46S.,R.59W.	P	Cu(Ag)	Disseminated	Porphyry	Altered zones associated with Tertiary plutons	----Do----
7.	F,4 T.42S.,Rs.66,67W.	P	Au(Cr,Fe,Mn)	Disseminated	Placer	Placer claims on beach sands	----Do----
8.	G,4 T.42S.,Rs.60,61W.	P	Cu(Au,Ag)	Disseminated	Porphyry	Prospect in an altered Tertiary pluton	U.S. Bur. Mines, 1973; U.S. Geol. Survey, 1976, unpublished information
9.	G,4 T.42S.,R.60W.	P	Cu(Au,Ag)	Disseminated	Porphyry	Prospect on altered zone in Cenozoic volcanic and subvolcanic rocks	----Do----
10.	G,4 T.42S.,R.60W.	P	Cu(Au,Ag)	Disseminated	Porphyry	Prospect on altered zone associated with Cenozoic subvolcanic pluton	----Do----
11.	G,4 T.42S.,R.60W.	P	Cu(Au,Ag,Hg?)	Disseminated	Porphyry	Hydrothermally altered zones in Tertiary volcanic and subvolcanic rocks	----Do----
12.	G,4 T.42S.,R.60W.	P	Cu(Au,Ag)	Disseminated	Porphyry	Claims on altered zones mainly asso- ciated with Tertiary subvolcanic plutons	----Do----
13.	G,4 T.42S.,R.60W.	P	Cu(Ag)	Disseminated	Porphyry	Altered zones in Tertiary subvolcanic plutons	----Do----
14.	G,4 T.42S.,R.59W.	P	Cu(Au,Ag)	Disseminated	Porphyry	Altered zones in Tertiary volcanic rocks and in ter- tiary subvolcanic plutons	----Do----

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CHIGNIK QUADRANGLE (continued)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCE
15.	G.4 T.42S., R.60W.	<u>P</u>	Cu(Au,Ag)	Disseminated	Porphyry	Altered zones in Tertiary volcanic rocks and in Tertiary subvolcanic plutons	U.S. Bur. Mines, 1973; U.S. Geol. Survey, 1976, unpublished information
16.	G.4 T.43S., R.59W.	<u>P</u>	Cu(Ag,Au)	Disseminated, vein	Porphyry, hydrothermal	Altered zones and veins mainly in Mesozoic sedimentary rocks; probably related to Tertiary igneous activity	U.S. Bur. Mines, 1973
17.	G.4 T.43S., R.56W.	<u>P</u>	Cu(Ag)	Disseminated	Porphyry	Several altered zones in vicinity; related to Tertiary plutons	U.S. Bur. Mines, 1973; U.S. Geol. Survey, 1976, unpublished information
18.	G.4 T.42S., R.59W.	<u>P</u>	Cu(Au,Ag)	Disseminated	Porphyry	Numerous claims for porphyry type deposits in vicinity	U.S. Bur. Mines, 1973
19.	G.4 T.42S., R.59W.	<u>P</u>	Cu(Au,Ag)	Disseminated	Porphyry	Claims on altered zones; mainly in Tertiary volcanic and plutonic rocks	U.S. Bur. Mines, 1973; U.S. Geol. Survey, 1976, unpublished information
20.	G.4 T.41S., R.59W.	<u>P</u>	Au	Disseminated	Placer	Placer Au claims	U.S. Bur. Mines, 1973
21.	G.4 T.42S., R.58W.	<u>P</u>	Cu(Au,Ag)	Disseminated	Porphyry	Porphyry-type deposits and extensive altered zones associated with Tertiary plutons; recent exploration by diamond drilling	U.S. Geol. Survey, 1976, unpublished information
22.	G.4 T.46S., R.60W.	0	Cu	Disseminated	Porphyry	Extensive altered zones in composite Tertiary plutons; weakly mineralized	----Do----
23.	F.4 T.46S., R.62W.	0	Cu	Disseminated	Porphyry	Weakly mineralized large altered zone in Tertiary intrusive rocks	----Do----
24.	F.4 T.45S., R.63W.	0	Cu	Disseminated	Porphyry	Altered zone in Tertiary intrusive rocks	----Do----
25.	G.4 T.42S., R.56, 57W.	0	(Cu, Zn)	Disseminated	Porphyry	Altered zones in sedimentary rocks of Naknek Formation (Upper Jurassic) and in Tertiary diorite and dacite	R. L. Dettmerman, 1977, written communication
26.	G.4 T.46S., R.58W.	0	Cu(Mo,Ag)	Disseminated	Porphyry	Altered zone in Tertiary granodiorite and Tertiary volcanic rocks	----Do----
27.	G.4 T.46S., R.59W.	<u>P</u>	Cu(Mo,Ag)	Disseminated, vein	Porphyry	Altered zones in Tertiary intrusive rocks	----Do----

COLD BAY QUADRANGLE
(latitude 55°-56°, longitude 162°-164°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Moffet Point	C,3 T.54S.,R.87W.	0	Fa,Ti	Disseminated	Placer	Beach and dune sands that contain local con- centrations of titani- ferous magnetite	Berryhill, 1963. p. 45- 48
2.	C,3 T.59S.,R.90W.	0	Cu	Disseminated	Porphyry	Altered zone in Tertiary volcanic terrane	U.S. Geol. Survey, 1976, unpublished information
3.	C,3 T.59S.,R.88W.	0	Cu	Disseminated	Porphyry	-----do-----	-----Do-----
4.	C,3 T.59S.,R.86W.	0	Cu	Disseminated	Porphyry	Altered zone associated with Tertiary subvolcanic pluton	-----Do-----
5.	C,3 T.59S.,R.86W.	0	Cu	Disseminated	Porphyry	-----do-----	-----Do-----
6.	C,3 T.59S.,R.86W.	0	Cu	Disseminated	Porphyry	Altered zone in terrane of Tertiary sedimentary and subvolcanic intrusive rocks	-----Do-----
7.	C,3 T.59S.,R.86W.	0	Cu	Disseminated	Porphyry	-----do-----	-----Do-----
8.	C,3 T.59S.,R.85W.	0	Cu	Disseminated	Porphyry	Altered zone associated with Tertiary intrusive rocks	-----Do-----
9.	C,3 T.58S.,R.86W.	0	Cu	Disseminated	Porphyry	Altered zone in a terrane of Tertiary sedimentary rocks that is cut by Ter- tiary plutons	-----Do-----
10.	C,3 T.58S.,R.86W.	0	Cu	Disseminated	Porphyry	Altered zone in a terrane of Tertiary sedimentary rocks that is cut by Ter- tiary intrusive rocks	-----Do-----
11.	C,3 T.58S.,R.88W.	0	Cu	Disseminated	Porphyry	Altered zones associated with Tertiary plutons	-----Do-----
12.	C,3 T.57S.,R.85W.	0	Cu	Disseminated	Porphyry	-----do-----	-----Do-----
13.	C,3 T.57S.,R.84W.	0	Cu	Disseminated	Porphyry	-----do-----	-----Do-----
14.	C,3 T.58S.,R.84W.	0	Cu	Disseminated	Porphyry	-----do-----	-----Do-----

DILLINGHAM QUADRANGLE
(Approximate easternmost three quarters of quadrangle; latitude, 59°-60°; longitude, 156°-158°20')

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCE
1. Humble Oil and Refining Co. (Kemuk Mountain)	H,7 T.5S.,R.49W. and vicinity	P	Fe(Ti)	Disseminated	Magmatic	Buried titaniferous magnetite deposit discovered in 1958 on the basis of a 35,000 gamma magnetic anomaly (above regional values) identified in an airborne magnetometer survey. Based on ground geophysical surveys, including gravity, and diamond core drilling (16 holes to maximum depth of 600 m) it is estimated that a tabular, steeply south-eastward dipping magnetite-bearing pyroxenite intrusive at least 1250 m thick occurs under an area of 10 km ² or more. Host rock is silicified argillite, quartzite and limestone of Permian or perhaps Jurassic age. The deposit is believed to contain about 2.4 billion long tons of hypothetical resources averaging 15-17 percent total iron and 10.5-12 percent magnetic iron. Beneficiation test indicate the feasibility of producing a high grade concentrate (65 percent Fe) that averages 2-3 percent SiO ₂ , 0.005-0.015 percent P ₂ O ₅ and 2-3 percent TiO ₂ . The pyroxenite body is overlain by 25-120 m in glacial deposits	Berg and Cobb, 1967 p. 11; Ralph E. Taylor, 1963 (written commun.)
2. Muklung Hills	G,7 T.9S.,R.53W. (Approx.)	O	Au	Disseminated	Placer	Coarse gold reportedly found in a tributary of the Kokwok River along northeast slopes of Muklung Hills	Mertie, 1938, p. 91

FALSE PASS QUADRANGLE
(latitude 54°-55°, longitude 161°30'-164°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1.	8,2 T.63S., R.92W.	0	Cu	Disseminated	Porphyry	Altered zone in Tertiary volcanic rocks; probably indicative of porphyry-type mineralization	U.S. Geol. Survey, 1976, unpub. information
2.	8,2 T.62S., R.93W.	0	Cu	Disseminated?	Porphyry?	Altered zone in young volcanic terrane	-----Do.-----
3.	8,2 T.61S., R.93W.	0	Cu	Disseminated?	Porphyry?	-----do-----	-----Do.-----
4.	8,2 T.62S., R.93W.	0	Cu	Disseminated	Porphyry	Altered zone near Tertiary subvolcanic intrusive	-----Do.-----
5.	8,2 T.61S., R.92W.	0	Cu	Disseminated	Porphyry	Altered zone near Tertiary subvolcanic pluton; associated with tourmaline-bearing breccia	-----Do.-----
6.	8,2 T.60S., R.91W.	0	Cu	Disseminated	Porphyry	Altered zone in young volcanic terrane	-----Do.-----
7.	8,2 T.60S., R.91W.	0	Cu	Disseminated	Porphyry	Altered zone in young volcanic terrane; associated with breccia zone that contains tourmaline	-----Do.-----
8.	C,2 T.60S., R.89W.	0	Cu	Disseminated	Porphyry	Altered zone in Tertiary volcanic and subvolcanic rocks	-----Do.-----
9.	C,2 T.60S., R.89W.	0	Cu	Disseminated	Porphyry	-----do-----	-----Do.-----
10.	C,2 T.61S., R.86W.	0	Cu	Disseminated	Porphyry	Altered zone in Tertiary subvolcanic pluton	-----Do.-----
11.	C,2 T.61S., R.86W.	0	Cu	Disseminated	Porphyry	Altered zone in Tertiary subvolcanic pluton and adjacent volcanic rocks	-----Do.-----

ULIAMNA QUADANGLE
(latitude 59°-60°, longitude 153°-156°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Frying Pan Lake	J,7 T.4S.,R.35W.	P	Fe(Ti)	Breccia	Magmatic	mgt-bearing pyroxenite blocks and fragments that are the dominant constituents of an intrusive breccia; the matrix consists of Jurassic granodiorite; the pyroxenite contains between 16 and 24 percent FeO	Reed and Detterman, 1965
2. Millet	K,7 T.4S.,R.30, 31W.	P	Cu(Au,Ag)	Massive, vein, disseminated	Replacement, contact meta- morphitic?	Mineralized zone 6 to 12 m wide and traceable for about 1,000 m; in Triassic marble; the zone contains irregular masses, veins, and disseminations of cp, py, calc, and qz; most samples contained less than 1 percent copper	Capps, 1935, p. 92 Detterman and Reed, 1977
3. Knutson	K,7 T.4S.,R.29W.	P	Cu(Au,Ag)	Vein	Hydrothermal	qz vein, as much as 2 m thick, in Cretaceous or Tertiary granitic rocks; the vein contains Cu minerals and minor amounts of precious metals	Martin and Katz, 1912, p. 123-124
4. Durand	X,7 T.5S.,R.28W.	P	Cu	Vein, disseminated	Hydrothermal, metamorphic?	qz vein about 3 m thick that contains py, cp, and secondary Cu minerals and cuts Lower Jurassic schistose greenstone	Capps, 1935, p. 91-92; Martin and Katz, 1912, p. 123
5. Dutton	L,7 T.6S.,R.28W.	P	Cu(Fe)	Massive, disseminated	Contact metamorphic	Extensive mineralized zone as much as 100 m wide at contact between marble and Tertiary or Upper Cretaceous granitic rocks; the deposits contain py, cp, mgt, calc, qz, garnet, epid, and rare mo	Martin and Katz, 1912, p. 117-121
6. Duryea	L,7 T.6S.,R.27W.	P	Ag,Au(Pb,Zn)	Vein, massive	Hydrothermal, replacement	Argentiferous gn-sl lodes in Lower Jurassic? limestone; the lodes are mainly veins and are locally marked by mangani-ferous gossans	Capps, 1935, p. 93-94
7. Copper King	L,7 T.6S.,R.26W.	P	Cu(Fe)	Massive, disseminated	Contact metamorphic	cp- and mgt-bearing skarns in marble and greenstone (Lower Jurassic?) near contact with Jurassic? granitic plutons	Capps, 1935, p. 91
8. Diamond Point	L,7 T.6S.,R.26W.	P	Cu(Au,Ag)	Disseminated, vein	Porphyry?	Meager data; reported mineralized zones in brecciated granitic rocks (Jurassic) and in adjacent greenstone (Triassic)	Martin and Katz, 1912, p. 125
9. Marsh Creek	L,7 T.4S.,R.24W.	O	Cu	Vein	Hydrothermal	Thin az- and ml-bearing vein that cuts Triassic marble	Detterman and Hortsock, 1966, p. 75
10. Iniskin Bay	L,7 T.5S.,R.24W.	O	Fe	Massive	Contact metamorphic	Small deposit of mgt in skarn developed in Triassic(?) marble	---Do.---
11.	K,7 Tps.6,7S., R.29W.	O	(Mo,Cu,Ag)	Disseminated?	Porphyry?	Minor showings of mo and cp in pyritized Tertiary? intrusive rocks	Reed, 1967, p. 13
12.	X,7 T.7S.,R.28W.	O	Mo	Disseminated	Porphyry	mo weakly disseminated in altered Tertiary? granite	---Do.---

ILIAMNA QUADRANGLE (continued)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
13. Fog Pond	K,7 T.8S.,R.30W.	P	Cu,Au(Ag)	Disseminated, veinlet	Porphyry	Altered Tertiary quartz porphyry that contains disseminated py and minor cp and Au-bearing pyrite stringers	Reed, 1967, p. 13
14.	K,7 T.11S.,R.31W.	P	Cu(Au,Ag)	Breccia	Hydrothermal	Intrusive breccia of quartz diorite that cuts gabbro; contains sparsely distributed sulfides	----Do,----
15.	K,7 T.12S.,R.33W.	P	Cu,Ag	Vein	Hydrothermal	Cu- and Au-bearing qz vein in Tertiary volcanic breccia	Berg and Cobb, 1967, p. 14

16.	Paint River	K,7 T.12S.,R.32W.	<u>P</u>	Cu(Fe)	Massive, disseminated	Contact metamorphic	mgt- and cp-bearing tac- tite adjacent to Creta- ceous or Tertiary grano- diorite	Richter and Herreid, 1965, p. 11-14
17.	McNeil	K,7 T.12S.,R.32W.	<u>M</u>	Cu(Fe,Au,Ag)	Massive, disseminated	Contact metamorphic	mgt- and cp-bearing tac- tite adjacent to Creta- ceous or Tertiary grano- diorite; also contains minor amounts of cc and secondary Cu minerals	-----Do.-----
18.		K,7 T.11S.,R.31W.	<u>P</u>	Fe(Ti)	Lenticular, disseminated	Magmatic	mgt-rich segregations in mafic Jurassic intrusive rocks	Detterman and Reed, 1977
19.	Chenik Mountain	K,7 T.11S.,R.30W.	<u>P</u>	Fe(Ti)	Lenticular, disseminated	Magmatic	mgt-rich segregations in mafic Jurassic plutonic rocks	-----Do.-----
20.		L,7 Tps.7,8S., R.27W.	<u>P</u>	Fe(Ti)	Lenticular, disseminated	Magmatic	mgt-bearing zones in mafic Jurassic plutonic rocks	-----Do.-----
21.		K,7 T.6S.,R.28W.	<u>P</u>	Fe	Disseminated	Metamorphic?	Sparsely distributed mgt in greenstone	-----Do.-----
22.		L,7 T.6S.,R.26W.	<u>P</u>	Fe(Ti)	Lenticular, disseminated	Magmatic	mgt-bearing mafic Juras- sic plutonic rocks	-----Do.-----
23.		L,7 T.5S.,R.25W.	<u>P</u>	Fe(Ti)	Lenticular, disseminated	Magmatic	-----do-----	-----Do.-----
24.		L,7 T.5S.,R.28W.	<u>P</u>	Fe(Ti)	Lenticular, disseminated	Magmatic	-----do-----	-----Do.-----
25.		K,7 T.13S.,R.33W.	<u>P</u>	Fe(Ti)	Disseminated	Magmatic	Fe claims in plutonic rocks	U.S. Bur. Mines, 1973
26.		K,7 T.12S.,R.32W.	<u>P</u>	Cu(Ag,Au,Fe)	Disseminated?	Contact metamorphic?	Several claims in vicini- ty, probably on Cu- bearing tactite	-----Do.-----
27.		K,7 T.11S.,R.31W.	<u>P</u>	Cu			Claims for Cu	-----Do.-----
28.		K,7 T.10S.,R.31W.	<u>P</u>	Fe(Ti)	Disseminated	Magmatic	Claims in Jurassic plu- tonic rocks	-----Do.-----
29.		K,7 T.9S.,R.35W.	<u>P</u>	Au	Vein?	Hydrothermal	Lode claims in Tertiary volcanic rocks	-----Do.-----
30.		K,7 T.9S.,R.29W.	<u>P</u>	Fe(Ti)	Disseminated	Magmatic	Claims in Jurassic plu- tonic rocks	-----Do.-----
31.		L,7 Tps.7,8,S., R.27W.	<u>P</u>	Fe(Ti)	Disseminated	Magmatic	-----do-----	-----Do.-----
32.		K-L,7 T.6S.,R.28W.	<u>P</u>	Fe(Ti)		Magmatic?	Lode claims for Fe	-----Do.-----
33.		L,7 Tps.5,6S., R.26W.	<u>P</u>	Cu		Contact metamorphic?	Claims for Cu	-----Do.-----
34.		K,7 T.6S.,R.33W.	<u>P</u>	Au	Disseminated	Placer	Au claims	-----Do.-----
35.		K,7 T.4S.,R.30W.	<u>P</u>	Au,Ag	Disseminated	Placer	Placer claims; lode claims also reported in vicinity	-----Do.-----

KAGUYAK QUADRANGLE
(latitude 56°-57°; longitude 152°-154°)

More than 90 percent of the quadrangle underlies the Pacific Ocean. Exposed rocks in the quadrangle are marine sedimentary and volcanic rocks that are probable correlatives of the lower Tertiary Orca Group. No mineral deposits are known in the quadrangle, but the quadrangle has some, probably low, potentials for submarine volcanogenic copper deposits and gold placers.

KARLUK QUADRANGLE
(latitude 57°-58°, longitude 154°-156°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Puale Bay	J,5 T.28S.,R.39W.	p	Cu(Au,Ag)	Lenticular		cp-bearing lenses; probably in a ter- rane of Upper Jurassic sedimentary rocks	Berg and Cobb, 1967, p. 7
2. Cape Kubugakli	J,5 T.27S.,R.35W.	p	Au(Sb,Mo)	Vein	Hydrothermal	Au-bearing qz stringers in felsic dikes that cut Jurassic sedimentary rocks; some contain minor amounts of sb, mo, and gn	Smith, 1925, p. 206-207
3. Cape Kubugakli	J,5 T.27S.,R.35W.	M	Au	Disseminated	Placer	Stream placers	----Do.----
4. Sevenmile Beach	K,5 T.29S.,R.30W.	M	Au	Disseminated	Placer	Beach placers	Martin, 1913, p. 134
5. Kodiak Island, west coast beaches	K,5 Tps.33-37S., Rs.33,34W.	M	Au(Pt)	Disseminated	Placer	Extensive beach placers	Maddren, 1919
6.	K,5 T.30S.,Rs.32,33W.	p	Au(Ag)	Vein?	Hydrothermal?	Lode claim for gold; probably on veins in Jurassic granitic rocks	U.S. Bur. Mines, 1973
7.	J,5 T.29S.,R.41W.	p	Au	Disseminated	Placer	Placer claims	----Do.----
8.	J,5 T.30S.,R.41W.	p	Au	Disseminated	Placer	Placer Au claims	----Do.----
9.	J,5 T.29S.,R.41W.	p	Au	Disseminated	Placer	----do----	----Do.----
10.	J,5 T.28S.,R.39W.	p	Au?	Disseminated?	Placer?	Probably placer gold claims	----Do.----
11.	J,5 T.29S.,R.40W.	p	Cu?(Au?)			Lode claims, probably mainly for copper, in a terrane dominated by Jurassic sedimentary rocks	----Do.----
12.	J,5 T.29S.,R.40W.	p	Au(Cu?)	Disseminated	Placer	Both placer and lode claims in vicinity	----Do.----
13.	K,5 T.34S.,R.33W.	M	Au(Pt)	Disseminated	Placer	Placer Au claims	----Do.----
14.	J,5 T.26S.,R.41W.	p	Au	Disseminated	Placer	----do----	----Do.----
15.	J,5 T.27S.,R.39W.	p	Au	Disseminated	Placer	----do----	----Do.----

KODIAK QUADRANGLE
(latitude 57°-58°, longitude 152°-154°)

MAP NO. AND NAMES(S) (if known)	MAP COORDINATES. LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Bear, Calaveras, Dan	L,5 T.31S.,R.29W.	M,p	Au	Vein	Hydrothermal	qz veins that average less than 1 m in thickness; localized in upper Mesozoic metaflysch; contain aspy, py, and minor gn; the Bear had minor production	Capps, 1937, p. 175
2. Amok, Wanberg, Matson	L,5 T.31S.,R.28W.	M,p	Au	Vein	Hydrothermal	py-bearing qz veins that average about 1 m in thickness and cut upper Mesozoic metaflysch, mainly slate	Capps, 1937, p. 175-176
3. Lake	L,5 T.30S.,R.28W.	p	Au	Vein	Hydrothermal	qz vein about 0.3 m thick that cuts upper Mesozoic slate and graywacke and contains a little aspy	Capps, 1937, p. 175
4. Wanberg and Boyer	L,5 T.29S.,R.29W.	p	Au	Vein	Hydrothermal	Narrow qz vein that cuts upper Mesozoic metaflysch	----Do.----
5. Barling Bay	L,5 T.34S.,R.26W.	p	Au(Ag)	Vein	Hydrothermal	Several prospects on qz veins that cut upper Mesozoic slate and graywacke; near a Tertiary dike	Capps, 1937, p. 181-182
6. Old Harbor	L,5 T.35S.,R.26W.	p	Cu	Disseminated, massive	Magmatic?, submarine volcanogenic	Disseminated and local massive sulfides including po, py, and cp at footwall contact between gabbro sill and Cretaceous? flysch	Berg and Cobb, 1967, p. 87-88
7. Moyle	L,5 T.27S.,R.25W.	p	Au(Ag)	Vein	Hydrothermal	Irregular stringers and bunches of py-bearing qz at contact between Tertiary granodiorite and metamorphosed upper Mesozoic slate and graywacke	Capps, 1937, p. 176-177
8. Baumann and Strickler	L,5 T.27S.,R.24W.	M	Au	Vein	Hydrothermal	Thin py-bearing qz vein in upper Mesozoic slate and graywacke; near a Tertiary felsic dike	Capps, 1937, p. 177
9. Brenneman	L,5 T.26S.,R.24W.	p	Au	Vein	Hydrothermal	qz vein, less than 1 m thick, that cuts upper Mesozoic flysch	----Do.----
10. Dry Spruce Island	L,5 T.26S.,R.23W.	M	Au	Vein	Hydrothermal	Network of thin qz veins and stringers in upper Mesozoic flysch	Capps, 1937, p. 178
11. Friedland and associates (Whale Island)	M,5 T.25S.,R.22W.	M	Au	Vein	Hydrothermal	qz vein cutting upper Mesozoic slate and graywacke	----Do.----
12. Cornelius Creek	M,5 T.27S.,R.21W.	p	W	Disseminated		Small zones of disseminated sch in upper Mesozoic graywacke	Rose and Richter, 1967, p. 4
13. Chalet Mountain	M,5 Tps.27,28S., R.21W.	p	W	Disseminated veinlet	Hydrothermal?	Small pods in upper Mesozoic graywacke that contain sch in veinlets and disseminations; associated with minor to trace amounts of aspy, py, and cp	Seitz, 1963

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
14. Anton Larsen Bay, Kizhuyak	M,5 Tps.26,27S., R.21W.	p	Au(Ag)	Vein, dissem- inated	Hydrothermal	Au-bearing qz veins locally as much as 1 m thick within a zone about 2 km long and 0.5 m wide; localized in Tertiary granodi- orite and quartz diorite, generally near upper Mesozoic flysch; most of the veins contain po, py, aspy, and minor to rare cp	Rose and Richter, 1967, p. 5-7; Capps, 1937, p. 180-181
15. Womens Bay	M,5 T.26S.,R.21W.	p	Au(Ag)	Vein	Hydrothermal	Persistent qz vein, as much as several meters thick, that cuts Ter- tiary granitic rocks; the vein contains minor amounts of aspy, py, cp, sl, gn, and their oxidation products	Capps, 1937, p. 178-180
16. Miners Point Beach	L,5 T.26S.,R.27W.	M	Au	Disseminated	Placer	Beach placers	Capps, 1937, p. 172
17. Uganik Beach	L,5 T.26S.,R.26W.	M	Au	Disseminated	Placer	-----do-----	-----Do.-----
18.	L,5 T.35S.,R.25W.	p	Cu(Au,Pb)		Submarine Volcanogenic?	Claims mainly in Tertiary sedimentary and volcanic rocks near fault contact with upper Mesozoic rocks	U.S. Bur. Mines, 1973
19.	M,5 T.31S.,R.21W.	p	Au	Disseminated	Placer	Placer Au claims	-----Do.-----
20.	M,5 T.30S.,R.20W.	p	Au	Disseminated	Placer	-----do-----	-----Do.-----
21.	L,5 T.29S.,R.24W.	p	Au	Vein	Hydrothermal	Lode claims, probably on qz veins in upper Mesozoic flysch	-----Do.-----
22.	M,5 T.29S.,R.22W.	p	Au	Vein	Hydrothermal	-----do-----	-----Do.-----
23.	M,5 T.28S.,R.19W.	p	Au	Vein	Hydrothermal	-----do-----	-----Do.-----
24.	M,5 T.28S.,R.20W.	p	Au	Vein	Hydrothermal	-----do-----	-----Do.-----
25.	L,5 T.28S.,R.29W.	p	Au	Disseminated	Placer	Placer gold claims	-----Do.-----
26.	L,5 T.27S.,R.28W.	p	Au	Disseminated	Placer	Placer claims	-----Do.-----
27.	L,5 T.27S.,R.24W.	p	Au	Vein	Hydrothermal	Lode claims in upper Mesozoic flysch; near Tertiary granodiorite	-----Do.-----
28.	M,5 T.27S.,R.19W.	p	Au	Vein	Hydrothermal	Lode claims probably on qz veins in upper Mesozoic flysch	-----Do.-----
29.	L,5 T.26S.,R.26W.	p	Cu,Ag			Lode claims near major fault that separates upper Mesozoic and lower Mesozoic rocks	-----Do.-----
30.	L,5 T.25S.,R.26W.	p	Au	Disseminated	Placer	Placer claims	-----Do.-----

LAKE CLARK QUADRANGLE
(latitude, 60°-61°; longitude, 153°-156°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1 Bonanza Creek	K,8 T.7N., R.31W.	p,0	Au	Vein	Hydrothermal	Thin qz veins that contain py and minor aspy in shear zone that cuts upper Mesozoic sedimentary rocks; several similar occurrences in vicinity	Jasper, 1961, p. 61
2 Thompson	K,8 T.3N., R.30W.	p	Mo	Disseminated?	Porphyry?	mo-bearing granite that cuts Lower Jurassic rocks	Moxham and Nelson, 1952, p. 4
3 Thompson	K,8 T.3N., R.29W.	p	Ag(Pb,Cu)	Vein, veinlet	Hydrothermal	Several prospects in vicinity on veins and veinlets in shear zones and along joints in Tertiary granite; the deposits consist of aspy and a little gn, cp, and py in the gangue of calc and rhodochrosite	Moxham and Nelson, 1952, p. 4
4 Kasma Creek	K,8 T.1N., R.28W.	p	Cu(Fe)	Massive, disseminated	Contact metamorphic	Large mineralized zones in metamorphosed Triassic limestone near contact with Tertiary granitic rocks; the deposits contain specular hem, mgt, cp, py, amphibole, garnet, qz, and calc	Warfield and Rutledge, 1951; Reed, 1967, p. 13-16
5 Bonanza Creek	K,8 Tps. 7, 8N., Rs. 31, 32W.	M	Au	Disseminated	Placer	Stream placers in a region dominated by upper Mesozoic flysch that is cut by small granitic plutons	Jasper, 1961, p. 58-64; Smith, 1917, p. 126-137
6 Scynneva Creek	K,8 T.7N., R.31W.	M	Au	Disseminated	Placer	Stream placers in a region of upper Mesozoic flysch and small granitic plutons	Jasper, 1961, p. 60-61, 64
7 Pass Creek	K,8 T.8N., R.31W.	M	Au	Disseminated	Placer	Stream placers	Jasper, 1961, p. 60-61
8 Portage Creek	K,8 T.3N., R.27W.	M	Au	Disseminated	Placer	Stream placers	Capps, 1935, p. 94
9	L,8 T.1N., R.27W.	0	Zn(Mo,Cu,Pb)	Vein?	Hydrothermal	Small amounts of Zn, Cu, Mo, and Pb detected by geo- chemical sampling of altered zones in Tertiary? felsite	Eakins, 1970, p. 18
10	K,8 Tps. 1N., 1S., R.	p	Fe	Massive?	Contact Metamorphic?	Claims for Fe; probably skarn-type deposits in Triassic limestone near granitic rocks	U.S. Bur. Mines, 1973
11	J,8 T.1N., R.34W.	p	Au			Gold claims, probably on qz veins	---Do.---
12	K,8 T.2N., R.29W.	p	Au(Cu,Pb)			Lode claims	---Do.---
13	K,8 T.2N., R.29W.	p	Au	Disseminated	Placer	Placer Au claims	---Do.---
14	K,8 T.3N., R.29W.	p	Mo			Mo claim; probably on qz veins associated with Tertiary granite	---Do.---
15	K,8 Tps. 3, 4N., R.27W.	p	Au			Lode claims	---Do.---
16	J,8 T.4N., R.34W.	p	Au	Disseminated	Placer	Placer Au claims	---Do.---

LAKE CLARK QUADRANGLE (Continued)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
17 Telaquana River	L,8 T.10N.,R.24W.	0	Mo	Disseminated?	Porphyry?	mo in pyritized zones in Tertiary quartz diorite, schistose roof pendants	Resource Associates of Alaska, 1976, p. 27
18 Telaquana Pass	L,8 T.10N.,Rs.23,24W.	0	Mo	Veinlet, disseminated	Porphyry	mo associated with qz, py, and mgt in a composite Tertiary granitic pluton	Resource Associates of Alaska, 1976, p. 28
19 Neacola River	L,8 T.10N.,R.21W	0	Cu(Mo)	Disseminated, veinlet	Porphyry	Cu minerals associated with py and some mo in Tertiary granitic rocks	Resource Associates of Alaska, 1976, p. 29-30
20 Twin Lakes East	L,8 T.7N.,R.25W.	0	Cu	Disseminated	Submarine volcanogenic	cp and bn generally with po; in andesitic volcanic rocks near Tertiary granite	Resource Associates of Alaska, 1976, p. 31-32
21 Twin Lakes West	L,8 T.7N.,R.26W.	0	Zn(Pb,Cu)	Disseminated, veinlet	Breccia, volcanogenic	py, sl, cp, and gn in silicified felsic Tertiary? volcanic rocks; mainly in volcanic breccia	Resource Associates of Alaska, 1976, p. 33-34
22 Otter Lake	L,8 T.5N.,R.26W.	0	Cu(Zn)	Disseminated, massive	Submarine volcanogenic	py-rich deposits that contain some cp and sl; in Paleozoic? schists, largely of volcanic derivation; both mafic and felsic volcanic schist represented	Resource Associates of Alaska, 1976, p. 35-36
23 Pass Lake West	K,8 T.4N.,R.31W.	0	Cu,Ag(Zn,Mo)	Disseminated	Hydrothermal?	Local anomalous concentrations associated with Tertiary granite, rhyolite, and rhyodacite	Resource Associates of Alaska, 1976, p. 37-38
24 Pass	K,8 T.3N.,R.30W.	P	Cu,Ag(Zn,Pb)	Veinlet, disseminated	Breccia pipe	Brecciated zone in Tertiary? dacite porphyry; mineralized with py, po, cp, gn, and sl	Resource Associates of Alaska, 1976, p. 23-24
25 Kijik Lake	K,8 T.3N.,R.30W.	0	Ag(Cu,Zn)	Disseminated	Breccia	Silicified zones in porphyritic and brecciated Tertiary? dacite; contain py and some cp and Ag	Resource Associates of Alaska, 1976, p. 39
26 Kijik River	K,8 T.3N.,R.29W.	0	(Cu,Ag)	Veinlet, disseminated	Hydrothermal porphyry?	Weakly mineralized zones in Tertiary granodiorite and rhyolite	Resource Associates of Alaska, 1976, p. 40-41
27 Kijik Mountain	K,8 Tps.3,4N.,R.29W.	0	Zn(Ag,Pb)	Disseminated	Volcanogenic?	Widespread anomalous metal concentrations associated with silicified zones in Tertiary? felsic volcanic rocks	Resource Associates of Alaska, 1976, p. 42-43
28 Currant Creek	L,8 T.3N.,R.27W	0	Cu	Disseminated, veinlet	Breccia pipe	py and cp in a Tertiary? volcanic - intrusive complex	Resource Associates of Alaska, 1976, p. 44-45
29 South Current Creek	L,8 T.2N.,R.26W.	0	Cu(Au,Zn)	Disseminated	Contact metamorphic	Low-grade mineralized zones, mainly in metamorphosed carbonate rocks near granitic plutons	Resource Associates of Alaska, 1976, p. 46-47
30 Upper Current	L,8 T.2N.,R.25W.	0	Cu(Mo)	Disseminated	Porphyry	Apparently low-grade mineralized zones in altered Tertiary or Cretaceous granitic rocks	Resource Associates of Alaska, 1976, p. 48

LAKE CLARK QUADRANGLE (Continued)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, CATEGORY LOCATION		RESOURCE(S) Minor constituents or potential byproducts in parenthesis	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
31 East Gladiator	L,8 T.1N.,R.27W.	0	Cu(Ag,Pb,Zn,Sn)	Vein, vein- let, disse- minated	Hydrothermal	Polymetallic deposits in diverse geologic settings; mainly in metamorphic rocks near Cretaceous or Early Tertiary granite	Resource Associates of Alaska, 1976 p. 49-51
32 West Gladiator	L,8 T.2N.,R.27W.	0	Cu(Ag,Zn)	Vein	Hydrothermal	Polymetallic veins that cut granitic and meta- morphitic rocks	Resource Associates of Alaska, 1976, p. 52-53
33 Kontrashibuna	X,8 T.1N.,R.27W	0	Mo,Ag(Cu,Pb,Zn)	Vein	Hydrothermal, pegmatite	Two modes of mineral occurrences in vicini- ty; (1) qz veins and pegmatites that contain mo and py and cut metabasalt and granite, (2) silici- fied shear zones that contain Pb, Cu, and Zn minerals and Ag	Resource Associates of Alaska, 1976, p. 58-59
34 West Ospeak	L,8 T.1N.,R.27W.	0	Cu(Mo,Pb)	Veinlet, disseminated	Porphyry?	Probably a porphyry type deposit; contains py with some cp, mgt, and mo mainly loca- lized near contact be- tween Cretaceous or Ter- tiary granite and older metavolcanic rocks	Resource Associates of Alaska, 1976, p. 60-61
35 Upper Tazimina	L,8 T.1S.,R.27W	0	Cu(Ag,Zn)	Disseminated	Contact metamorphic	Apparently small con- tact-metamorphic deposits near contact between Cretaceous or Tertiary granitic rocks and older metavolcanic rocks	Resource Associates of Alaska, 1976 p. 62-63
36 Little Tazimina	L,8 T.1S.,R.27W	0	Cu(Mo,Ag,Zn,Pb)	Disseminated	Contact metamorphic	Contact metamorphic de- posits similar to (35); the deposits contain disseminated cp and its alteration products and minor amounts of other ore minerals	Resource Associates of Alaska, 1976 p. 64-65
37 Tazimina	L,8 T.1S.,R.27W	P	Cu			Probably a contact- metamorphic deposit that contains disse- minated cp	Resource Associates of Alaska, 1976 fig. 4
38	L,8 T.10N.,R.24W	0	Cu(Ag,Zn)	Disseminated	Porphyry	py, po, and minor amounts of cp and sl in Tertiary granite and in metasedimentary roof pendants	U.S. Geol. Survey 1977, unpublished information

LINE HILLS QUADRANGLE (APPROXIMATE SOUTHEASTERN HALF)
(latitude, 61°-62°; longitude, 153°-154°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1	L, 9 T. 19N., R. 24W.	0	Mo	Vein	Hydrothermal	Narrow qz vein that cuts Tertiary quartz diorite and contains less than 2 percent mo	Reed and Elliot, 1970, p. 22
2	L, 9 T. 18N., R. 24W.	0	Sb	Vein	Hydrothermal	Float of massive sb as much as 0.3 m thick, probably from nearby veins that cut upper Mesozoic argillite and graywacke	Reed and Elliot, 1970, p. 18, 22
3	L, 9 T. 17N., R. 24W.	0	Cu, (Zn)	Vein, disseminated	Hydrothermal	Sulfide-bearing veins and disseminations in or near shear zones that cut upper Mesozoic shale, argillite, and graywacke; the sulfides include py, uspy, po, cp, and rare sl	Reed and Elliot, 1970, p. 17, 22
4	L, 9 T. 16N., R. 25W.	0	Pb(Cu, Zn, Ag)	Breccia	Breccia pipe?	Boulder, about 0.6 m in diameter, of volcanic breccia; contains about 60 percent sulfide minerals, including gn, sl, cp, py, and bornonite	Reed and Elliot, 1970, p. 23
5	L, 9 T. 17N., R. 23W.	P	Cu	Breccia		Boulders of brecciated Tertiary quartz diorite and gneiss that contain tourmaline, as much as 15 percent cp, and py; nearby claims	Reed and Elliot, 1970, p. 22
6	L, 9 T. 16N., R. 23, 24W.	0	Mo, Au(Cu, Zn)	Vein	Hydrothermal	Sulfide-bearing qz cobbles; also qz veins in or near diorite that carry aspy and minor amounts of Au	Reed and Elliot, 1970, p. 22-23
7	L, 9 T. 17N., R. 22W.	0	Cu	Disseminated, veinlet	Porphyry	Altered Tertiary quartz monzonite stock weakly mineralized with cp and other sulfides	Reed and Elliot, 1970, p. 14, 20
8 Jimmy Lake	L, 9 T. 19N., R. 22W.	P	Mo, (Cu, Zn, Au, Pb)	Disseminated, veinlet, breccia	Porphyry	Altered Tertiary granite that contains gn, sl, cp, mo, and fluorite	Reed and Elliot, 1970, p. 12-13, 19
9	L, 9 T. 18N., R. 21W.	0	Cu(Zn, Pb)	Vein, disseminated	Hydrothermal, porphyry	cp and secondary Cu minerals in a shear zone in Tertiary granite; nearby granite float contains disseminated sulfides	Reed and Elliot, 1970, p. 13-14, 19-20
10 Styx River	L, 9 T. 17N., R. 21W.	0	(Pb, Zn, Au)	Veinlet, disseminated	Hydrothermal, placer, porphyry	Weakly mineralized dissemina- tions and veinlets in altered Tertiary granite; small amounts of placer gold nearby	Reed and Elliot, 1970, p. 15, 20-21
11 Chilligan River	L, 5 T. 16N., R. 22W.	P	Pb, Zn, (Ag, Cu)	Disseminated, vein, breccia	Hydrothermal, porphyry	gn and sl mainly in shear zones in metamorphic rocks near com- plex Tertiary and Cretaceous granitic plutons; local porphyry-type mineralized zones in the plutons	Reed and Elliot, 1970, p. 14, 20; Resource Associ- ates of Alaska, 1976, p. 79-83
12 Chill Group	L, 9 T. 16N., R. 21W.	P	Cu, Ag(Zn, Pb, Au)	Disseminated, vein, massive	Porphyry, hydrothermal,	Several types of deposits covered by claims in vicinity: (1) porphyry-type Cu deposits related to Tertiary granitic rocks; (2) Sulfide rich float that contains sl and py; (3) qz-tourmaline-sulfide vein	Reed and Elliot, 1970, p. 21; Resource Associ- ates of Alaska, 1976, p. 76-79
13	K, 9 T. 16N., R. 27W.	P	Au			Lode claims, probably on qz veins in Tertiary granite	U.S. Bur. Mins., 1973
14	L, 9 T. 19N., R. 22W.	P	Au			Lode claims	

LIME HILLS QUADRANGLE (APPROXIMATE SOUTHEASTERN HALF) (Continued)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
15 West Chillingan	L,9 T.16N.,R.22W	0	Cu(Mo,Ag,Zn,Pb)	Veinlet, vein, disseminated	Porphyry, hydrothermal	Mainly porphyry-type deposits that are related to Tertiary plutons that have intruded older gran- itic rocks; the deposits contain py, cp, mo and some gn and sl	Resource Associates of Alaska, 1976, p. 84-85
16 Pass Lake	L,9 T.15N.,R.22W	0	Mo(Cu,Zn)	Vein, disseminated	Porphyry	Low-grade deposits that contain mo, py, po, and some cp and sl; asso- ciated with Tertiary granite	Resource Associates of Alaska, 1976, p. 88-89
17 Necons and Stony Rivers	L,9 T.14N.,R.25W.	0	Cu	Disseminated, massive	Contact metamorphic	cp,py, and po as blebs and disseminations in metasedimentary rocks near Tertiary granite	Resource Associates of Alaska, 1976, p. 90-01
18 Merrill Pass	L,9 T.13N.,R.23W.	Q	Ag(Pb,Zn)	Disseminated	Porphyry?	Anomalous amounts of Ag associated with Ter- tiary quartz monzonite or quartz porphyry	Resource Associates of Alaska, 1976, p. 92-93
19 Another River	L,9 T.12N.,R.22W.	0	Mo(Pb,Zn)	Disseminated, vein	Porphyry, hydrothermal	mo and py-bearing dis- seminations and qz veins in Tertiary granitic rocks; local gn and sl-bearing veins nearby	Resource Associates of Alaska, 1976, p. 94-95
20 Two Lakes	L,9 T.12N.,R.23W.	0	Cu,Mo(Zn,Au)	Disseminated, vein	Porphyry	mo and Cu minerals associated with Ter- tiary rhyolite plugs and flows	Resource Associates of Alaska, 1976, p. 96-97
21	L,9 T.16N.,R.21W.	0	Ag,Pb,Zn(Cu,Au)	Vein	Hydrothermal	Float of Ag-bearing veins that contain abundant gn and sl	U.S. Geol. Survey, 1977, unpublished information
22	L,9 T.11N.,R.27W.	P	Au	Disseminated	Placer	Recent placer activity along and near Necons River	U.S. Geol. Survey, 1977, unpublished information

SOUTHEAST QUARTER OF McGRATH QUADRANGLE
(latitude, 62°-62°30'; longitude, 153°-154°30')

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1 Tin Creek tributary	L, 10 Tps. 27, 28N., R. 24W	0	(Cu, Zn)	Veinlet	Hydrothermal	Veinlets in shear zone that cuts Ordovician to Devonian limestone and shale; near felsic in- trusive rock; contain po with subordinate sl and cc	Reed and Elliott, 1968b, p. 5-7
2 Ozzna Creek	L, 10 Tps. 25, 26N., R. 25W	0	Ag(Pb, Zn)	Podiform, lenticular, vein	Hydrothermal, breccia pipe?	Two deposits localized in shear zones that mainly cut Tertiary in- trusive rocks, inclu- ding intrusive breccia; the deposits contain po, py, sl and argenti- ferous gn	Reed and Elliott, 1968b, p. 4-8
3 Sheep Creek, Rat Fork	L, 10 T. 26N., R. 25W.	P	Ag, Cu, (Zn, Pb)	Massive, disseminated, vein	Contact metamorphic, hydrothermal	Two types of deposits in vicinity; (1) po- cp-sl bearing skarn zones as much as 3 m wide developed in Paleozoic carbonate rocks adjacent to Tertiary? quartz dio- rite; (2) py-asp-py-sl- argenterous gn vein as much as 3 m thick that is being explored	Reed and Elliott, 1968b, p. 4, 6-7
4 Sheep Creek	L, 10 T. 26N., R. 24, 25W.	0	Cu (Zn, Pb)	Vein	Hydrothermal	Highly oxidized vein in fault zone that sepa- rates Paleozoic argil- lite and limestone; the vein is as much as 3 m thick and contains po, cp, and sl	Reed and Elliott, 1968b, p. 6-7
5 Sheep Creek	L, 10 T. 26N., R. 24W	0	Zn	Lenticular	Hydrothermal?	Small lenses that con- tain po and sl; loca- lized in shear zones that cut Tertiary? granitic dikes in a terrane dominated by Paleozoic sedimentary rocks	Reed and Elliott, 1968b, p. 5-8
6 Hipple Creek	L, 10 T. 25N., R. 24W.	0	Ag (Pb)	Vein, veinlet	Hydrothermal	Thin calc veins and veinlets, mainly in Paleozoic carbonate rocks near border of a Tertiary? granitic complex; the deposits contain py and argen- tiferous gn	Reed and Elliott, 1968b, p. 5-8
7	L, 10 T. 25N., R. 24W.	0	Ag (Pb)	Vein, veinlet	Hydrothermal	Thin sulfide-bearing vein in Paleozoic limestone; near con- tact with Tertiary? felsite sill	Reed and Elliott, 1968b, p. 6-7
8 Bowser Creek	L, 10 T. 24N., R. 24W.	P	Ag (Zn, Pb)	Massive, vein	Replacement, hydrothermal	Lodes include po-sl- rich masses in Paleo- zoic limestone and sulfide-bearing veins rich in silver--from argenterous gn--in the limestone or brecciated intrusive rocks	Reed and Elliott, 1968a
9 Chip-Loy	K, 10 T. 24N., R. 28W.	P	Ni (Cu)	Massive, disseminated	Magmatic	Massive and dissemi- nated sulfides, chiefly po, in a dia- base pluton that cuts Paleozoic metasedi- mentary rocks; a few other po-bearing occurrences nearby	Herreid, 1968, p. 8
10 West Fork of Post River	L, 10 T. 22N., R. 25W.	0	Cu (Zn)	Lenticular, disseminated	Magmatic	Scattered small sulfide lenses and dissemi- nations in mafic dikes; mainly contain po; sub- ordinate cp and sl	Reed and Elliott, 1968b, p. 6-7

SOUTHEAST QUARTER OF McGRATH QUADRANGLE
(latitude, 62°-62°30'; longitude, 153°154°30')

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
11	L, 10 T. 26N., R. 24W.	0	(Pb, Cu, Zn)	Veinlet	Hydrothermal	Veinlets in altered dikes: contain ps and py and minor amounts of gn, cp, and sl	Reed and Elliott, 1968b, p.5-7
12	K, 10 T. 24N., R. 27W.	0	Cu (Ag, Au)	Gossan		Several small gos- sars in vicinity	Herreid, 1968, p.9
13	K, 10 T. 23N., R. 27W.	<u>P</u>	Ag?			Lode claims	U. S. Bur. Mines, 1973
14	K, 10 T. 24N., R. 28W.	<u>P</u>	Ag?			Lode claims	U. S. Bur. Mines, 1973
15	L, 10 T. 24N., R. 24W.	<u>P</u>	Ag (Pb, Zn)			Lode claims	U. S. Bur. Mines, 1973
16	K, 10 Tps. 24, 25N., R. 26W.	<u>P</u>	Ag?			Lode claims	U. S. Bur. Mines, 1973
17	L, 10 T. 25N., R. 25W.	<u>P</u>	Au	Disseminated	Placer	Placer Au claims	U. S. Bur. Mines, 1973
18	K, 10 Tps. 25, 26N., R. 26W.	<u>P</u>	Au			Lode claims	U. S. Bur. Mines, 1973
19	L, 10 T. 26N., R. 25W.	<u>P</u>	Ag (Pb, Zn)			Lode claims	U. S. Bur. Mines, 1973
20	L, 10 T. 26N., R. 24W.	<u>P</u>	Ag, Au			Lode claims	U. S. Bur. Mines, 1973
21	L, 10 T. 27N., R. 25W.	<u>P</u>	Au			Lode claims	U. S. Bur. Mines, 1973

MT. KATMAI QUADRANGLE
(latitude 58°-59°, longitude 154°-156°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Kukak Bay	K,6 T.22S.,R.31W.	p	Cu			Old Cu prospect; geologic setting not known but probably associated with Tertiary subvolcanic plutons	Berg and Cobb, 1967, p. 16
2. Nix	J,6 T.14S.,R.34W.	p	Au	Disseminated	Placer	Stream placers	U.S. Geol. Survey, unpublished information
3. Kami	K,6 T.15S.,R.31W.	<u>p</u>	Cu	Vein	Hydrothermal, porphyry?	ch-bearing veins near border of a Jurassic quartz diorite pluton	-----Do.-----
4.	J,6 T25S.,R.38W.	p	Au	Disseminated	Placer	Placer Au claims	U.S. Bur. Mines, 1973
5.	K,6 T.24S.,R.33W.	p	Au	Disseminated	Placer	-----do-----	-----Do.-----
6.	K,6 T.24S.,R.32W.	p	Au	Disseminated	Placer	-----do-----	-----Do.-----
7.	K,6 T.23S.,R.32W.	p	Au	Disseminated	Placer	-----do-----	-----Do.-----
8.	K,6 T.22S.,R.31W.	p	Au	Disseminated	Placer	-----do-----	-----Do.-----
9.	J,6 Tps.14,15S.,R.38W.	p	Au	Disseminated	Placer	-----do-----	-----Do.-----

NAKNEK QUADRANGLE
(latitude, 58°-59°; longitude, 156°-153°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Keefer's (Keefer's) Bar	H,6 T.15S.,R.51W.	p	Au	Disseminated	Placer	Locally distributed flour gold	Martie, 1938, p. 91
2. Egegik Beach	H,6 T.24S.,R.51W.	p	Fe(Ti,Au)	Disseminated	Placer	Local concentrations of titaniferous mag- netite and traces of flour gold in beach placers	Berryhill, 1963, p. 28-30

PORT MOLLER QUADRANGLE
(latitude 55°-56°, longitude 160°-162°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Port Moller	E,3 T.57S.,R.71W.	P	Au	Vein?	Hydrothermal	Altered zone in Tertiary basalt near Tertiary granitic pluton	Atwood, 1911, p. 128
2. Balboa Bay	E,3 T.53S.,R.74W.	P	Cu	Vein	Hydrothermal	Shear zone in Tertiary andesitic lavas that contains Cu minerals; Tertiary granitic pluton exposed nearby	Atwood, 1911, p. 129
3. Popof Island	E,3 T.56S.,R.73W.	P	Au	Vein, disseminated	Hydrothermal	Several prospects in Tertiary andesitic rocks near Tertiary granitic plutons	Atwood, 1911, p. 125
4. Shumagin	E,3 T.57S.,R.74W.	P	Au	Vein	Hydrothermal	qz ledges (veins?) as much as 15 m thick in shear zones in Tertiary volcanic rocks; near Tertiary granitic plutons	Atwood, 1911, p. 127
5. Sitka	E,3 T.57S.,R.74W.	M	Au(Pb,Zn)	Vein	Hydrothermal	qz veins in shear zones in Tertiary andesite and dacite; small Tertiary granitic plutons in vicinity	Atwood, 1911, p. 125-127
6. Apollo	E,3 T.58S.,R.74W.	M	Au(Ag,Pb,Zn,Cu)	Vein	Hydrothermal	Reticulated qz veins in fractured Tertiary andesite and dacite; near Tertiary granitic plutons, ore zone as much as 12 m thick; contains minor amounts of base metals and silver and gold	Atwood, 1911, p. 125-126
7. Nelson Lagoon	D,3 T.48S.,R.76W.	O	Fe,Ti	Disseminated Placer		Local concentrations of titaniferous magnetite in beach sands	Berryhill, 1963, p. 42-45
8. Port Moller	E,3 T.49S.,R.72W.	O	Fe,Ti(Au)	Disseminated Placer		Beach deposits that contain local concentrations of titaniferous magnetite and traces of gold	Berryhill, 1963, p. 39-42
9. Popof Island	E,3 T.56S.,R.73W.	M	Au	Disseminated Placer		Beach placers worked in early 1900's	Atwood, 1911, p. 125
10. Pyramid	E,3 T.53S.,R.74,75W.	P	Cu(Mo)	Veinlet, stockwork	Porphyry	Extensive altered zone and porphyry-type mineralization in a Neogene porphyry complex that intrudes Eocene sedimentary rocks	Christie and Wolfhard, 1977, p. 12
11.	E,3 T.56S.,R.73W.	P	Au(Ag)	Vein	Hydrothermal	Lode claims in Tertiary volcanic and granitic rocks	U.S. Bur. Mines, 1973
12.	E,3 T.56S.,R.73W.	P	Au	Disseminated Placer		Placer gold claims	-----Do.-----
13.	E,3 T.58S.,R.74W.	P	Au,Cu	Vein?	Hydrothermal?	Lode claims	-----Do.-----
14.	E,3 T.58S.,R.73W.	M	Au	Disseminated Placer		Placer gold claims	-----Do.-----

PORT MOLLER QUADRANGLE (continued)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
15.	E.3 T.57S.,R.74W.	0	Cu	Disseminated?	Porphyry?	Altered zones in Tertiary volcanic and intrusive rocks	U.S. Geol. Sur- vey, 1976, un- pub. information
16.	E.3 T.56S.,R.75W.	0	Cu	Disseminated?	Porphyry?	Altered zones related to Tertiary plutons	-----Do.-----
17.	E.3 T.56S.,R.74W.	0	Cu	Disseminated?	Porphyry?	Altered zones in Tertiary volcanic terrane	-----Do.-----
18.	E.3 T.56S.,R.70W.	0	Cu	Disseminated?	Porphyry	-----do-----	-----Do.-----
19.	E.3 T.54S.,R.73W.	0	Cu	Disseminated?	Porphyry?	Altered zones in Tertiary rocks	-----Do.-----
20.	E.3 T.53S.,R.72W.	0	Cu	Disseminated?	Porphyry?	-----do-----	-----Do.-----
21.	E.3 T.53S.,R.73W.	0	Cu	Disseminated?	Porphyry?	Altered zones in Tertiary granitic rocks	-----Do.-----
22.	E.3 T.52S.,R.74W.	0	Cu	Disseminated?	Porphyry?	Altered zones, probably related to Tertiary granitic rocks	-----Do.-----
23.	E.3 T.51S.,R.74W.	0	Cu	Disseminated?	Porphyry?	-----do-----	-----Do.-----
24.	E.3 T.52S.,R.72W.	0	Cu	Disseminated?	Porphyry?	Altered zone in Tertiary rocks	-----Do.-----

SIMEONOF ISLAND QUADRANGLE
(latitude 54°-55°, longitude 159°-161°30')

The Simeonof Island quadrangle is more than 90 percent covered by the Pacific Ocean. Its few islands, in the northeastern part of the quadrangle, consist of Eocene granitic rocks. No mineral deposits are known in the quadrangle, and its potential for mineral resources can be regarded as low. The meager potential is for gold lodes and for porphyry-type copper-molybdenum deposits.

STEOVAK BAY QUADRANGLE
(latitude, 55°-56°; longitude, 158°-160°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Ivanof	F,3 T.50S.,R.66W.	<u>P</u>	Cu	Veinlet, stockwork	Porphyry	Porphyry-type deposits in Tertiary granitic pluton and invaded Tertiary sedimentary rocks; extensive al- teration zones in vicinity	U.S. Geological Survey, 1976, unpublished in- formation
2.	F,3 T.51S.,R.69W.	0	Cu	Veinlet, dissemin- ated?	Porphyry	Altered zone associated with Tertiary pluton	----Do.----
3.	F,3 T.50S.,R.69W.	0	Cu	Veinlet, dissemin- ated?	Porphyry	Altered zone associated with Tertiary granitic pluton	----Do.----
4.	F,3 T.49S.,R.69W.	0	Cu		Porphyry?	Altered zones in Tertiary rocks	----Do.----
5.	F,3 T.48S.,R.68W.	0	Cu		Porphyry?	----do----	----Do.----
6.	F,3 T.51S.,R.66W.	0	Cu	Dissemin- ated?, veinlet	Porphyry	Several altered zones in Tertiary rocks, in or near Tertiary gra- nitic plutons	----Do.----
7.	F,3 T.49S.,R.63W.	0	Cu	Veinlet	Porphyry	Altered zone associated with Tertiary granitic rock	----Do.----
8.	G,3 T.49S.,R.63W.	0	Cu	Veinlet	Porphyry	----do----	----Do.----
9.	G,3 T.48S.,R.62W.	0	Cu	Veinlet	Porphyry	Altered zone associated with Tertiary granitic pluton	-

SUTWIK ISLAND QUADRANGLE
(latitude 56°-57°, longitude 156°-158°)

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1.	H.4 Tps. 44, 45S., Rs. 54, 55W.	P	Cu(Ag)	Disseminated	Porphyry	Strongly altered zones in Tertiary volcanic and intrusive rocks	U.S. Geol. Sur- vey, 1977, un- published infor- mation; U.S. Bur. Mines, 1973
2.	H.4 T. 39S., Rs. 52, 53, 54W.	P	Au	Disseminated	Placer	Claims on stream placers	U.S. Bur. Mines, 1973
3.	H.4 T. 41S., R. 52W.	O	Cu(Ag)	Disseminated	Porphyry	Extensive altered zone associated with weakly mineralized Tertiary hypabyssal rocks	U.S. Geol. Sur- vey, 1976, un- published infor- mation
4.	H.4 T. 37S., R. 51W.	O	Cu	Disseminated	Porphyry	Altered zone associated with Tertiary pluton	----Do.----
5.	H.4 T. 37S., R. 50W.	O	Cu	Disseminated	Porphyry	-----do.-----	----Do.----
6.	H.4 T. 42S., R. 49W.	O	(Cu, Ag, Zn, Pb)	Disseminated	Porphyry	Strongly altered zone in Tertiary hypabyssal and volcanic rocks	R. L. Detterman, 1977, written communication
7.	H.4 T. 41S., R. 52W.	O	Cu	Disseminated	Porphyry	Altered zone in Ter- tiary hypabyssal rocks	----Do.----
8.	H.4 T. 44S., R. 55W.	O	Cu(Mo, Ag)	Disseminated	Porphyry	Strongly altered zone in Tertiary volcanic rocks and Tertiary sub- volcanic pluton	----Do.----

SMALL AREA IN SOUTHEASTERN PART OF TAYLOR MOUNTAINS QUADRANGLE
(between latitude, 60°-60°15'; longitude, 156°-157°30')

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Steibat Mountain	H.8 T.1S., R.45W.	M	Au	Vein	Hydrothermal	Small qz gash veins near margin of a granitic stock (Up- per Cretaceous or lower Tertiary); very little produc- tion; placer Au claims nearby	Mertie, 1938, p. 91; U.S. Bur. Mines, 1973

TRINITY ISLANDS QUADRANGLE AND CHIRIKOF ISLAND
(latitude 56°-57°, longitude 154°-156°)--(latitude 55°45'-55°55', longitude 155°30'-155°45')

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. Cape Allak	K,4 T.39S.,R.32W.	M	Au	Disseminated	Placer	Beach placers and gold-bearing dune deposits	Capps, 1937, p. 172-173
2. Kodiak Island, west coast beach	K,4 T.37S.,R.32,33W.	M	Au(Pt)	Disseminated	Placer	Extensive beach placers	Madden, 1919, p. 311-319
3. Chirikof Island	J,3 T.49S.,R. 2	p	Au	Disseminated	Placer	Placer Au claims	U.S. Bur. Mines, 1973
4.	K,4 T.42S.,R.32W.	<u>p</u>	Au	Disseminated	Placer	Placer Au claims, mainly on beach placers	-----Do.-----
5.	K,4 T.43S.,R.35W.	<u>p</u>	Au	Disseminated	Placer	Placer Au claims, probably beach placers	-----Do.-----

UGASHIKU QUADRANGLE
(latitude 57°-59°; longitude 156°-159°)
RESOURCE(S)
Minor constituents
or potential
byproducts in
parentheses

MAP NO. AND NAME(S) (if known)	MAP COORDINATES, LOCATION	CATEGORY	RESOURCE(S) Minor constituents or potential byproducts in parentheses	FORM	TYPE	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1. "Mike"	H.S. T. 36S., R. 49W.	<u>P</u>	Mo	Disseminated, coating	Porphyry	mo in altered Tertiary (?) sedimentary or vol- canic rocks and to a lesser extent in porphy- ritic quartz diorite dikes (Tertiary(?)); extensive altered zones in general vicinity; current explor- ation	M.L. Silberman, 1977, written communication
2. "Rex"	H.S. T. 34S., R. 49W.	<u>P</u>	Cu	Disseminated	Porphyry	Porphyritic Tertiary dior- itic pluton that contains py; fairly extensive al- tered zones	-----Do.-----
3.	I.S. T. 32S., R. 44W.	<u>p</u>	Au	Disseminated	Placer	Placer gold claims	U. S. Bur. Mines, 1973
4.	I.S. Tps. 30, 31S., R. 42W.	<u>P</u>	Fe		Magmatic?	Numerous lode claims for iron in general area; probably on mgf-rich segregations in mafic phases of Tertiary plutons	-----Do.-----
5.	I.S. Tps. 30, 31S., Rs. 42, 43W.	<u>P</u>	Fe		Magmatic?	-----do-----	-----Do.-----
6.	I.S. T. 30S., R. 44W.	<u>p</u>	Au	Disseminated	Placer	Claims on stream placers	-----Do.-----
7.	I.S. T. 29S., R. 42W.	<u>p</u>	(Mo?, U?)	Disseminated	Placer?	Placer claims reportedly for U and Mo; possibly radioactive heavy minerals in the placers	-----Do.-----
8.	I.S. T. 29S., R. 43W.	<u>p</u>	Cu?			Lode claims; probably for copper in lower Jurassic volcanic rocks	-----Do.-----
9.	H.S. Tps. 25, 26, 27S., R. 51W.	<u>P</u>	Fe(Ti)	Disseminated	Placer	Claims on beach placers	-----Do.-----
10.	I.S. T. 36S., R. 48W.	<u>O</u>	Cu?, Mo?		Porphyry?	Alteration zone asso- ciated with Tertiary subvolcanic pluton	U. S. Geol. Survey, 1976, unpublished information
11.	I.S. T. 36S., R. 46W.	<u>O</u>	Cu?, Mo?		Porphyry?	Numerous alteration zones in general vicinity; prob- ably associated with Tertiary plutons	-----Do.-----
12.	I.S. T. 35S., R. 47W.	<u>O</u>	Cu?, Mo?		Porphyry?	Alteration zone; probably associated with Tertiary pluton	-----Do.-----
13.	I.S. T. 35S., R. 44W.	<u>O</u>	Cu?, Mo?		Porphyry?	-----do-----	-----Do.-----

UNIMAK QUADRANGLE (northeast of Unimak Pass)
(latitude 54°-55°, longitude 164°-166°)

The Unimak quadrangle northeast of Unimak Pass is underlain by part of Unimak Island and by parts of the Bering Sea and Pacific Ocean. Marine water covers about half of the area. The land is dominated by Quaternary volcanic rocks, but it contains local areas of Quaternary surficial deposits and a few glaciers. No metalliferous mineral deposits are known in the quadrangle, and the potential for mineral resources is low. Based on its geologic setting, the quadrangle has some possibility of containing porphyry copper deposits, precious metal lodes, and gold placers.

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