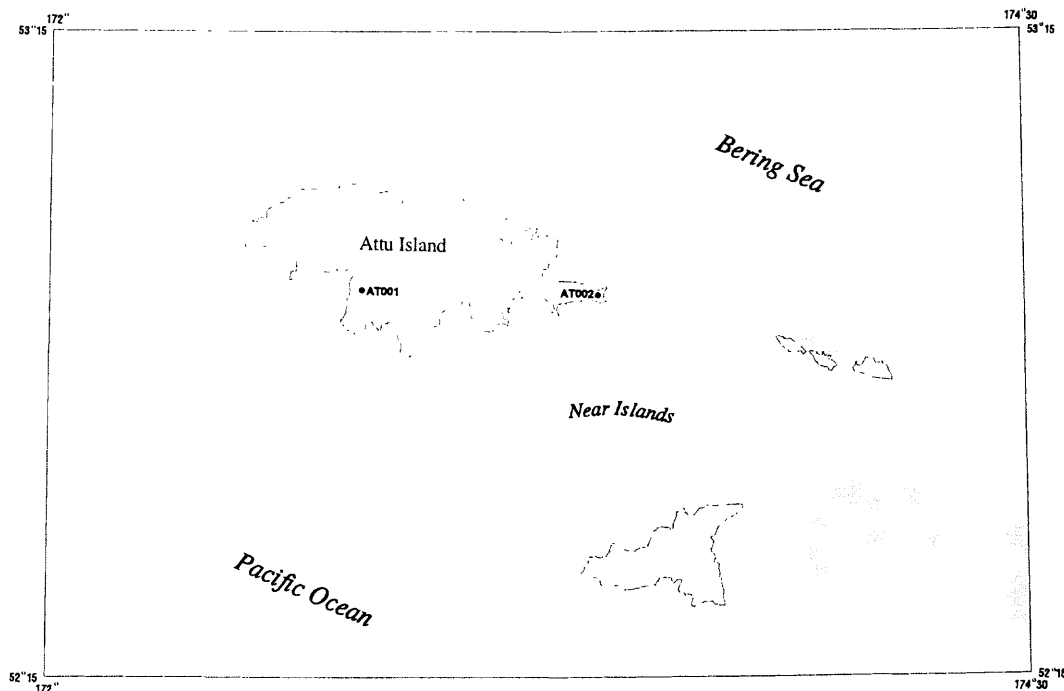


## Attu quadrangle

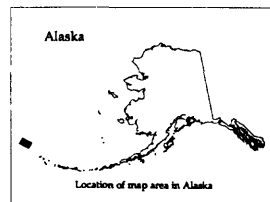
Descriptions of the mineral occurrences shown on the accompanying figure follow. See U.S. Geological Survey (1996) for a description of the information content of each field in the records. The data presented here are maintained as part of a statewide database on mines, prospects and mineral occurrences throughout Alaska.



*Distribution of mineral occurrences in the Attu  
1:250,000-scale quadrangle, Aleutian Islands, Alaska*

This and related reports are accessible through the USGS World Wide Web site <http://ardf.wr.usgs.gov>. Comments or information regarding corrections or missing data, or requests for digital retrievals should be directed to: Frederic Wilson, USGS, 4200 University Dr., Anchorage, AK 99508-4667, e-mail [fwilson@usgs.gov](mailto:fwilson@usgs.gov), telephone (907) 786-7448. This compilation is authored by:

Steven H. Pilcher  
Anchorage, AK



*This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic code. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.*

**OPEN-FILE REPORT 00-028**

**Site name(s):** Unknown (east of Abraham Bay)

**Site type:** Occurrence

**ARDF no.:** AT001

**Latitude:** 52.85

**Quadrangle:** AT C-4

**Longitude:** 172.82

**Location description and accuracy:**

This site represents numerous occurrences east of Abraham Bay on Attu Island. Its specific location is not known. The map site is plotted at an elevation of about 1,200 feet and about 3 miles east of Abraham bay, and is probably accurate to within 3 miles.

**Commodities:**

**Main:** Fe

**Other:** Cu, Pb

**Ore minerals:** Chalcopyrite, galena, pyrite

**Gangue minerals:**

**Geologic description:**

On Attu Island partly oxidized zones of pyrite occur in many rock types, including basalt and andesite flows and pyroclastics (Gates and others, 1971). The zones range in size from small isolated pods a few feet in diameter to broad areas 2 to 3 miles long and one mile wide. Many elongate zones or small, isolated patches trend or are aligned east-west.

The pyritic zones are associated with swarms of hornblende-bearing dikes and are rich in pyrite, calcite, albite, and zeolites. Base metals are rare and only a few crystals of chalcopyrite and galena have been noted.

**Alteration:**

Albite, calcite, iron-oxides, and zeolites (descriptions are not clear and some of these may represent gangue minerals).

**Age of mineralization:**

Tertiary or younger.

**Deposit model:**

**Deposit model number (After Cox and Singer, 1986 or Bliss, 1992):**

**Production Status:** None

**Site Status:** Inactive

**Workings/exploration:**

**Production notes:**

**Reserves:**

**Additional comments:**

Site is located in Alaska Maritime Natural Wildlife Refuge.

**References:**

Gates and others, 1971; Cobb, 1980 (OFR 80-909).

**Primary reference:** Gates and others, 1971

**Reporter(s):** S.H. Pilcher (Anchorage)

**Last report date:** 1/22/00

**Site name(s): Unnamed (west of Chirikof Point)****Site type:** Occurrence**ARDF no.:** AT002**Latitude:** 52.82**Quadrangle:** AT C-2**Longitude:** 173.42**Location description and accuracy:**

This site is located west of Chirikof Point on Attu Island. Its specific location is not known. The map site is probably accurate to within 3 miles.

**Commodities:****Main:** Fe**Other:** Cu, Pb**Ore minerals:** Chalcopyrite, galena, pyrite**Gangue minerals:****Geologic description:**

On Attu Island partly oxidized zones of pyrite occur in many rock types, including basalt and andesite flows and pyroclastics (Gates and others, 1971). The zones range in size from small isolated pods a few feet in diameter to broad areas 2 to 3 miles long and one mile wide. Many elongate zones or small, isolated patches trend or are aligned east-west.

At Chirikof Point pyritic mineralization is associated with flows and hornblende-bearing dikes and shows evidence of silicification and albitization with accompanying epidote and chlorite. The mineralized zones carry traces of copper and lead.

**Alteration:**

The altered rocks contain silica, albite, epidote, chlorite, and iron-oxides.

**Age of mineralization:**

Tertiary or younger.

**Deposit model:****Deposit model number (After Cox and Singer, 1986 or Bliss, 1992):****Production Status:** None

**Site Status:** Inactive

**Workings/exploration:**

**Production notes:**

**Reserves:**

**Additional comments:**

Site is located within Aleutian Maritime Wildlife Refuge.

**References:**

Gates and others, 1971.

**Primary reference:** Gates and others, 1971

**Reporter(s):** S.H. Pilcher (Anchorage)

**Last report date:** 1/22/00

## References

- Gates, O., Powers, H.A., and Wilcox, R.E., 1971, Geology of the Near Islands, Alaska: U.S. Geological Survey Bulletin 1028-U, 113 p., 3 map sheets, scale 1:63,360.
- Cobb, E.H., 1980, Summaries of data and lists of references to metallic and selected nonmetallic mineral deposits in fifteen quadrangles in southwestern and west-central Alaska: U.S. Geological Survey Open-File Report 80-909, 103 p.
- Ransome, A.L., and Kerns, W.H., 1954, Names and definitions of regions, districts, and subdistricts in Alaska: U.S. Bureau of Mines Information Circular 7679, 91 p.