HISTORICALLY ACTIVE VOLCANOES OF ALASKA

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Definition of Historically Active

The 53* volcanoes displayed on this map meet at least one of the following criteria since 1700 CE:

- Documented, unquestioned eruption **OR**
- A strongly suspected eruption, often an eruption documented in a historical account with very little information. Current geologic knowledge must not contradict the eruption account, **OR**
- Persistent (usually on the order of decades, but certainly longer than several months) fumaroles, with temperatures (where measured) within ~10°C of the boiling point, **OR**
- Significant, measured, volcanic-related, non-eruptive deformation, **OR**
- Documented earthquake swarm with strongly suspected volcanic cause

** The number of active volcanoes is revised as we refine our understanding of Alaska's complex volcanic systems. Previous versions of this publication listed Korovin and Kliuchef separately, however, both these vents are part of the Atka Volcanic Complex that includes several satellite vents including Sarichef, Kliuchef, Konia, and Korovin. Korovin is the most recently active vent and last erupted in 1998.*

Date of Last Eruptive Event

Where confidently known, the year of the most recent eruptive event is listed below the volcano name. See the accompanying data table for a field containing the year of suspected eruptive events for those volcanoes with no certain historical eruptions.

Sources of Data

See accompanying data file for a description of how each volcano met the historically active criteria and up to three overview references pertinent to the historical activity of the volcano.

Historically Active Volcanoes

Digital data for the Historically Active Volcanoes of Alaska can be accessed as an interactive map or Digital Data Series (DDS):
Cameron, C.E., and Schaefer, J.R., 2020, Historically active volcanoes of Alaska: Alaska Division of Geological & Geophysical Surveys Digital Data Series 6, http://doi.org/10.14509/historically_active_volcanoes. http://doi.org/10.14509/30426

This DDS is compiled from the AVO Geologic Database and website:
Cameron, C.E., and Alaska Volcano Observatory Staff, 2020 Geologic Database of Information on Volcanoes in Alaska (GeoDIVA), accessed January 26, 2022, through the Alaska Volcano Observatory website volcano information pages, http://www.avo.alaska.edu

Measured and Estimated Seafloor Topography

by Walter H.F. Smith and David T. Sandwell (http://topex.ucsd.edu/marine_topo/mar_topo.html) Data Reference: Smith, W. H. F., and D. T. Sandwell, Global seafloor topography from satellite altimetry and ship depth soundings, Science, v. 277, p. 1957-1962, 26 Sept., 1997.http://doi.org/10.1126/science.277.5334.1956

Shaded Relief and Elevation Data

Elevation data are from the United States Geological Surveys (USGS) Alaska National Elevation Dataset, which is part of the National Geospatial Program. Elevation data can be viewed and downloaded using The National Map Viewer. https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map

Nome
Hooper Bay
Bethel
Fairbanks
Healy
Tok
Wasilla
Anchorage
Valdez
Seward
Homer
Dillingham
Naknek
Kodiak
Port Heiden
Port Moller
Cold Bay
Sand Point
Unalaska
Adak
Atka

Wrangell
Spurr 1992
Redoubt 2009
Iliamna
Augustine 2006
Novarupta 1912
Douglas
Griggs
Fourpeaked 2006
Mageik
Kukak
Snowy
Martin
Katmai 1912
Trident 1974
Ukinrek Maars 1977
Aniakchak 1931
Ugashik-Peulik
Chiginagak
Veniaminof 2021
Emmons Lake Volcanic Center
Amak
Pavlof 2022
Kupreanof
Dutton
Shishaldin 2020
Westdahl 1992
Gilbert
Fisher
Akutan 1992
Makushin 1995
Bogoslof 2017
Okmok 2008
Recheshnoi
Vsevidof
Kagamil
Carlisle
Amukta 1996
Yunaska 1937
Herbert
Tana
Cleveland 2020
Nikolski
Seguam 1993
Atka* 1998
Great Sitkin 2022
Tanaga 1914
Kanaga 2012
Gareloi 1989
Kasatochi 2008
Semisopochnoi 2022
Segula
Little Sitkin
Kiska 1990

Bering Sea
Pacific Ocean
Aleutian Megathrust

65° N
60° N
55° N
50° N
180° W
175° W
170° W
165° W
160° W
155° W
150° W
145° W

SCALE1: 2,800,000
50 25 0 50 100 150 200 MILES
50 25 0 50 100 150 200 KILOMETERS

Map Projection: Alaska Albers Equal Area Conic
Map Datum: North American Datum of 1983

Cartography by J.M. Perreault, P. G. Ekberg

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