Historically Active Volcanoes of Alaska

Alaska Division of Geological & Geophysical Surveys

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DEFINITION OF HISTORICALLY ACTIVE

The 52 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 the 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.

DATE OF LAST MAJOR ERUPTIVE EVENT

Where confidently known, the year of the most recent major eruptive event is listed below the volcano name.

For the purposes of this illustration a major eruptive event is considered to be one in which juvenile lava erupts as a lava flow or dome or as an explosive column reaching an altitude of several thousand meters above the vent.

Nome
Fairbanks
Delta Junction
Wrangell
Spurr 1992
Bethel
Anchorage
Valdez
Redoubt 2009
Iliamna
Griggs
Homer
Novarupta 1912
Augustine 2006
Snowy
Dillingham
Douglas
King Salmon
Kukak
Fourpeaked
Ukinrek Maars 1977
Katmai 1912
Kodiak
Mageik
Martin
Trident 1974
Chiginagak
Ugashik-Peulik
Amak
Kupreanof
Shishaldin 1999
Dutton
Aniakchak 1931
Fisher
Cold Bay
Sand Point
Veniaminof 1994
Pavlof 2007
Akutan 1991
Bogoslof 1992
Vsevidof
Makushin
Westdahl 1991
Gilbert
Unalaska, Dutch Harbor
Emmons Lake Volcanic Center
Okmok 2008
Nikolski
Carlisle
Kagamil
Cleveland 2009
Recheshnoi
Seguam 1977
Amukta 1963
Yunaska 1937
Kiska 1969
Little Sitkin
Semisopochnoi
Segula
Tanaga 1914
Great Sitkin 1974
Gareloi 1982
Kliuchef
Atka
Adak
Kanaga 1994
Kasatochi 2008
Korovin 1998
Aleutian Megathrust
Bering Sea
Pacific Ocean
65°N
60°N
55°N
50°N
180°W
175°W
170°W
165°W
160°W
155°W
150°W

Scale 1:3,000,000
100 50 0 100 miles
200 100 0 200 kilometers
Map Projection: Albers Equal Area Conic

SOURCES OF DATA

Historically Active Volcanoes
Cameron, C.E., and Alaska Volcano Observatory Staff, 2009
Geologic Database of Information on Volcanoes in Alaska (GeoDIVA)
accessed in October 2009 through the Alaska Volcano Observatory website
volcano information pages, http://www.avo.alaska.edu/volcano.

Measured and Estimated Seafloor Topography
by David T. Sandwell, Walter H.F. Smith, Stuart M. Smith, and Christopher Small (http://topex.ucsd.edu/marine_topo/mar_topo.html)
Data Reference: Smith, W.H.F., and Sandwell, D.T., 1977, Global seafloor topography from satellite altimetry
and ship depth soundings, Science, v. 277, p. 1957-1962.

Shaded Relief Image of Alaska
Riehle, J.R., Fleming, M.D., Molnia, B.F., Dover, J.H., Kelley, J.S., Miller, M.L, Plafker, George, and Till, A.B., 1997,
Shaded relief image of Alaska: U.S.G.S. Miscellaneous Investigations Series, MI-2585.

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