

A photograph of a volcanic eruption. A large, dark mountain is visible in the foreground, with a massive plume of white ash and smoke rising from its summit. The sky is dark, and the overall scene is illuminated by the bright orange and red glow of the eruption. The text is overlaid on the image.

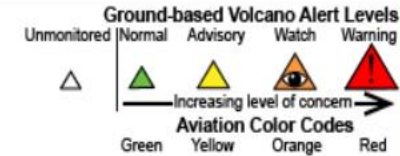
“How Can We Determine the  
Location, Size and Climate Effects  
of Volcanic Eruptions During the  
Past 2000 Years?”

Dallas Abbott

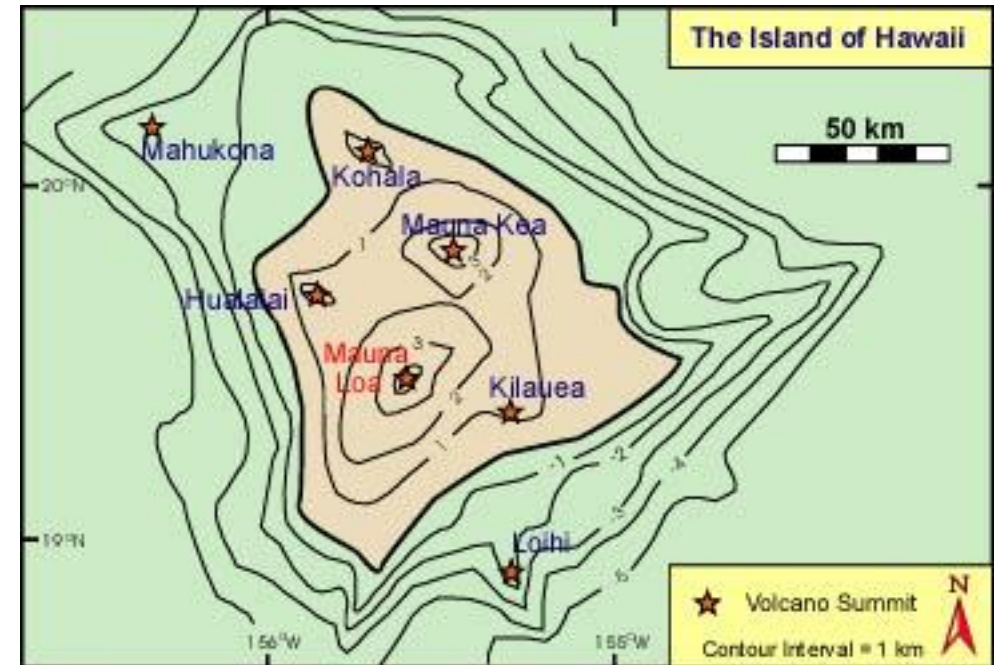
Originally presented 5 May 2018

**U.S. Volcanoes and Current Activity Alerts**

**Activity Alerts:** [Volcano Notification Service](#) | [Volcano Observatory Notices for Aviation](#)  
**Zoom to Region:** [Alaska](#) | [Hawaii](#) | [Mariana Islands](#) | [CA-NV](#) | [WA-OR](#) | [ID-WY](#) | [UT-CO-AZ-NM](#) | [All](#)  
**Volcano Status:**  Elevated |  Normal |  Unassigned



# Mauna Kea and other Hawaiian volcanoes

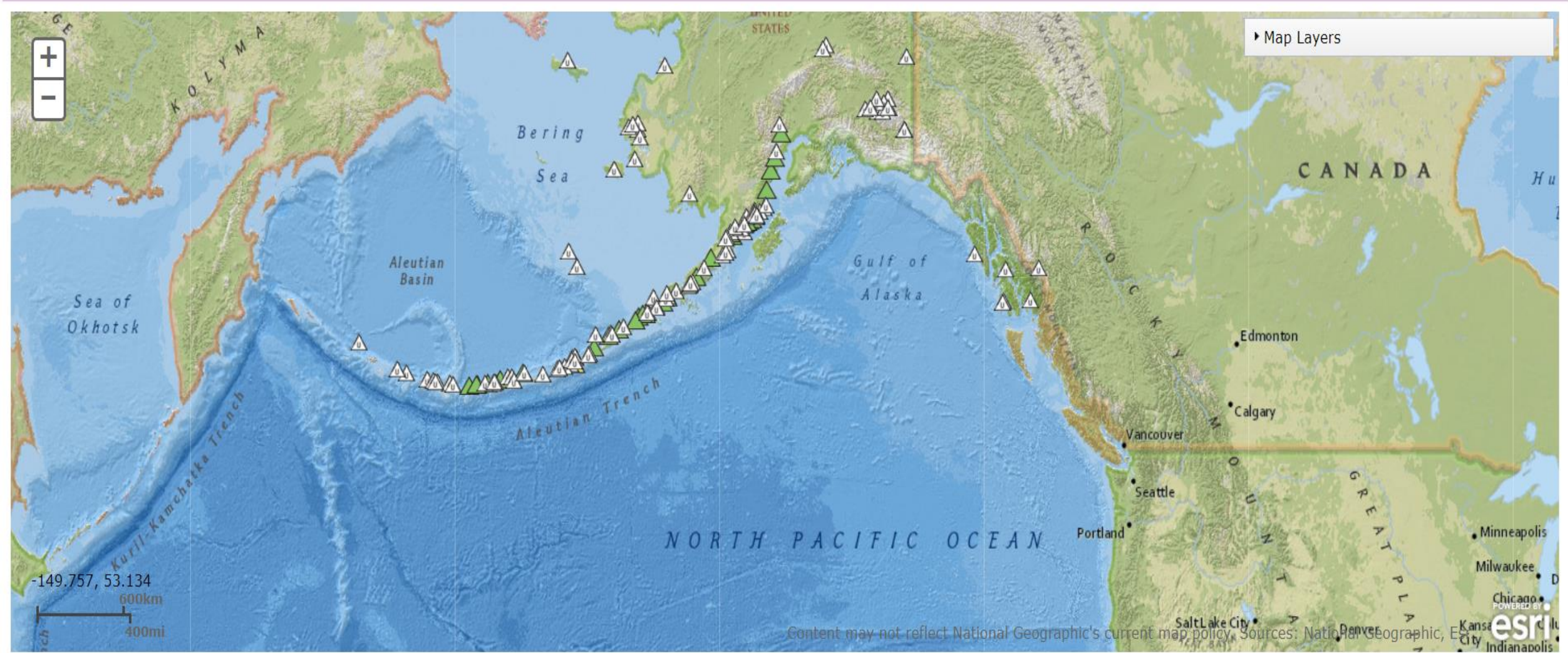


<https://www.soest.hawaii.edu/GG/HCV/maunaloa.html>



You are here: [Home](#) > [Volcano Information](#) > [Map & Alphabetical List](#)

## ALASKA VOLCANO MAP



### Interactive Map of Active Volcanoes and recent Earthquakes world-wide

Volcanoes (hide) - ▲all - ▲unrest - ▲warning/minor activity - ▲eruption stop animation | News

Quakes (hide) all >M3 >M4 >M5 >M6 M7+ / past 24h - past 48h - past week - past 2 weeks / Archive | List World

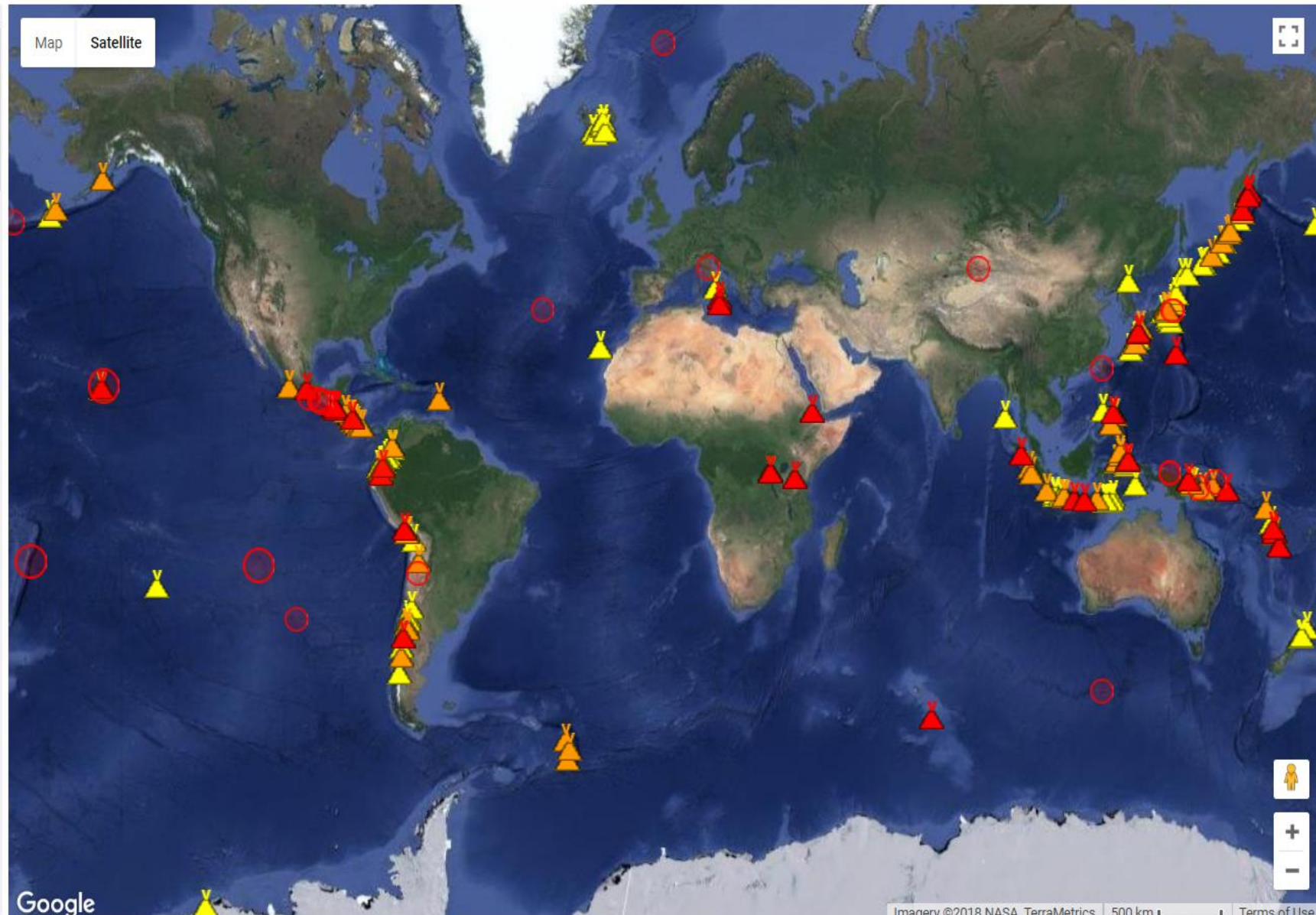
News: 1-14 Sep 2018: Ibu and Dukono Volcano Sp \_

#### List of latest earthquakes worldwide

(updated: 4 May, 17:02 UTC) (only quakes >=M1.8)

##### Friday, 4 May 2018

Fri, 4 May 16:51:10 UTC	M 2.5 / 5.0km -	NEAR THE COAST OF WESTERN TURKEY	<a href="#">39.5300 / 26.0100</a>	<a href="#">EMSC</a>
Fri, 4 May 16:42:22 UTC	M 3.6 / 118.0km -	TARAPACA, CHILE - [I felt it]	<a href="#">-20.3900 / -68.8900</a>	<a href="#">EMSC</a>
Fri, 4 May 16:38:55 UTC	M 2.4 / 0.0km -	HAWAII REGION, HAWAII	<a href="#">19.4400 / -154.9600</a>	<a href="#">EMSC</a>
Fri, 4 May 16:38:28 UTC	M 3.4 / 47.8km -	9 km al O de Punitaqui - [I felt it]	<a href="#">-30.8580 / -71.3420</a>	<a href="#">GUG (U. Chile)</a>
Fri, 4 May 16:37:45 UTC	M 4.7 / 10.0km -	SOUTHERN QINGHAI, CHINA - [I felt it]	<a href="#">34.6000 / 96.5400</a>	<a href="#">EMSC</a>
Fri, 4 May 16:33:12 UTC	M 2.5 / 12.0km -	New Zealand	<a href="#">-37.4650 / 177.4122</a>	<a href="#">GEONET (NZ)</a>
Fri, 4 May 16:17:34 UTC	M 2.7 / 5.0km -	HAWAII REGION, HAWAII	<a href="#">19.3000 / -154.9300</a>	<a href="#">EMSC</a>
Fri, 4 May 16:11:19 UTC	M 2.1 / 22.0km -	SOUTHERN ITALY	<a href="#">41.5000 / 14.9900</a>	<a href="#">EMSC</a>
Fri, 4 May 16:07:06 UTC	M 2.2 / 1.0km -	ISLAND OF HAWAII, HAWAII	<a href="#">19.4100 / -155.2800</a>	<a href="#">EMSC</a>
Fri, 4 May 16:02:18 UTC	M 2.6 / 4.0km -	HAWAII REGION, HAWAII	<a href="#">19.4500 / -154.8400</a>	<a href="#">EMSC</a>
Fri, 4 May 15:47:27 UTC	M 1.8 / 18.6km -	4 km NW Castel d'Aiano (BO)	<a href="#">44.3052 / 10.9687</a>	<a href="#">INGV</a>
Fri, 4 May 15:45:57 UTC	M 2.5 / 6.0km -	HAWAII REGION, HAWAII	<a href="#">19.4000 / -154.9100</a>	<a href="#">EMSC</a>
Fri, 4 May 15:40:29 UTC	M 1.9 / 0.9km -	-5km WSW of Volcano, Hawaii	<a href="#">19.4022 / -155.2853</a>	<a href="#">USGS</a>
Fri, 4 May 15:35:10 UTC	M 1.8 / 4.0km -	-7km ESE of Leilani Estates, Hawaii	<a href="#">19.4420 / -154.8492</a>	<a href="#">USGS</a>
Fri, 4 May 15:33:00 UTC	M 2.8 / 7.0km -	032 km S 35	<a href="#">19.0500 / 121.2900</a>	<a href="#">PHILVOLCS</a>
Fri, 4 May 15:26:09 UTC	M 1.8 / 26.3km -	New Zealand	<a href="#">-39.2927 / 176.6717</a>	<a href="#">GEONET (NZ)</a>
Fri, 4 May 15:24:28 UTC	M 3.1 / 38.3km -	- 12km NNE of Anchor Point, Alaska - [I felt it]	<a href="#">59.8774 / -151.7170</a>	<a href="#">USGS</a>
Fri, 4 May 15:22:19 UTC	M 2.6 / 6.5km -	MEDITERRANEAN SEA	<a href="#">36.7107 / 26.6377</a>	<a href="#">KOERL-RETMC</a>
Fri, 4 May 15:16:59 UTC	M 4.5 / 10.0km -	Near Coast of Guerrero, Mexico - [I felt it] - <a href="#">f</a>	<a href="#">16.5300 / -98.8400</a>	<a href="#">GFZ</a>
Fri, 4 May 15:16:11 UTC	M 1.8 / 7.8km -	-2km NNE of Pinnacles, CA	<a href="#">36.5450 / -121.1378</a>	<a href="#">USGS</a>
Fri, 4 May 15:11:54 UTC	M 2.0 / 0.0km -	-71km WNW of Skagway, Alaska	<a href="#">59.7633 / -136.4368</a>	<a href="#">USGS</a>
Fri, 4 May 15:04:49 UTC	M 2.0 / 1.0km -	-6km ESE of Leilani Estates, Hawaii	<a href="#">19.4497 / -154.8618</a>	<a href="#">USGS</a>





Erebus, Antarctica

<http://volcano.oregonstate.edu/erebus>

# Submarine volcanoes

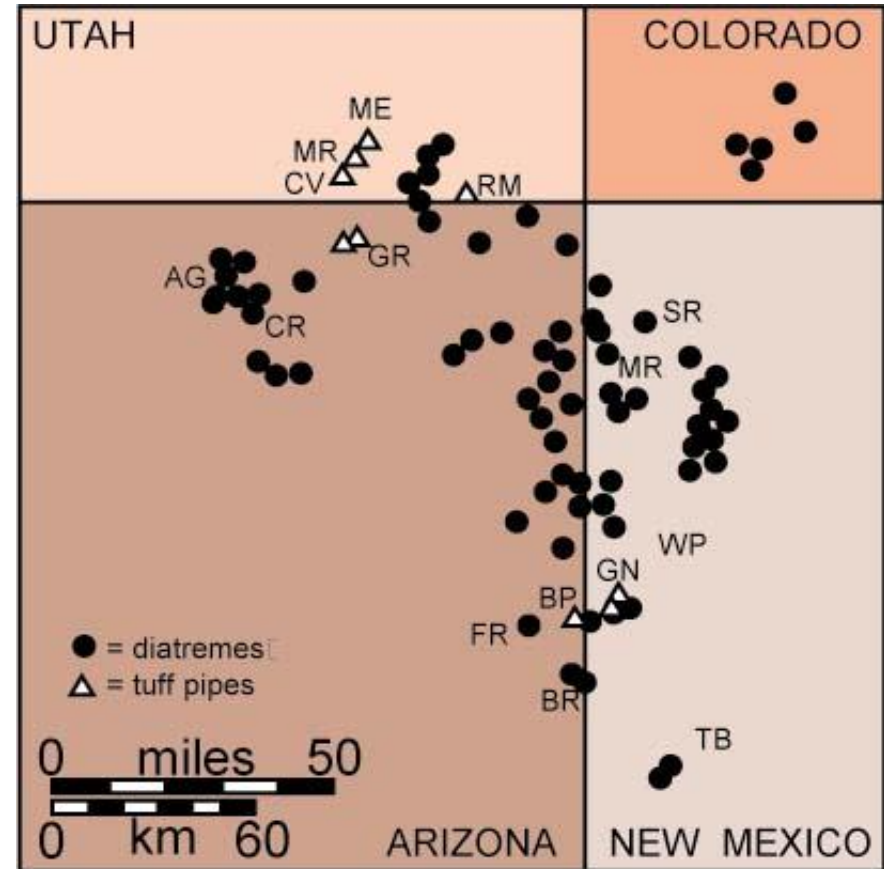
- 8,000 known volcanic eruptions in the last 10,000 years
- Only about 300 were submarine
- From 1975 to 1985, 160 volcanoes erupted
- Only 24 were submarine
- Mid-Ocean Ridges produces an estimated 75% of the annual output of magma
- “Black smokers”



# Shiprock and other extinct volcanoes of the US Southwest
























<https://upload.wikimedia.org/wikipedia/commons/0/0b/Shiprock.snodgrass3.jpg>

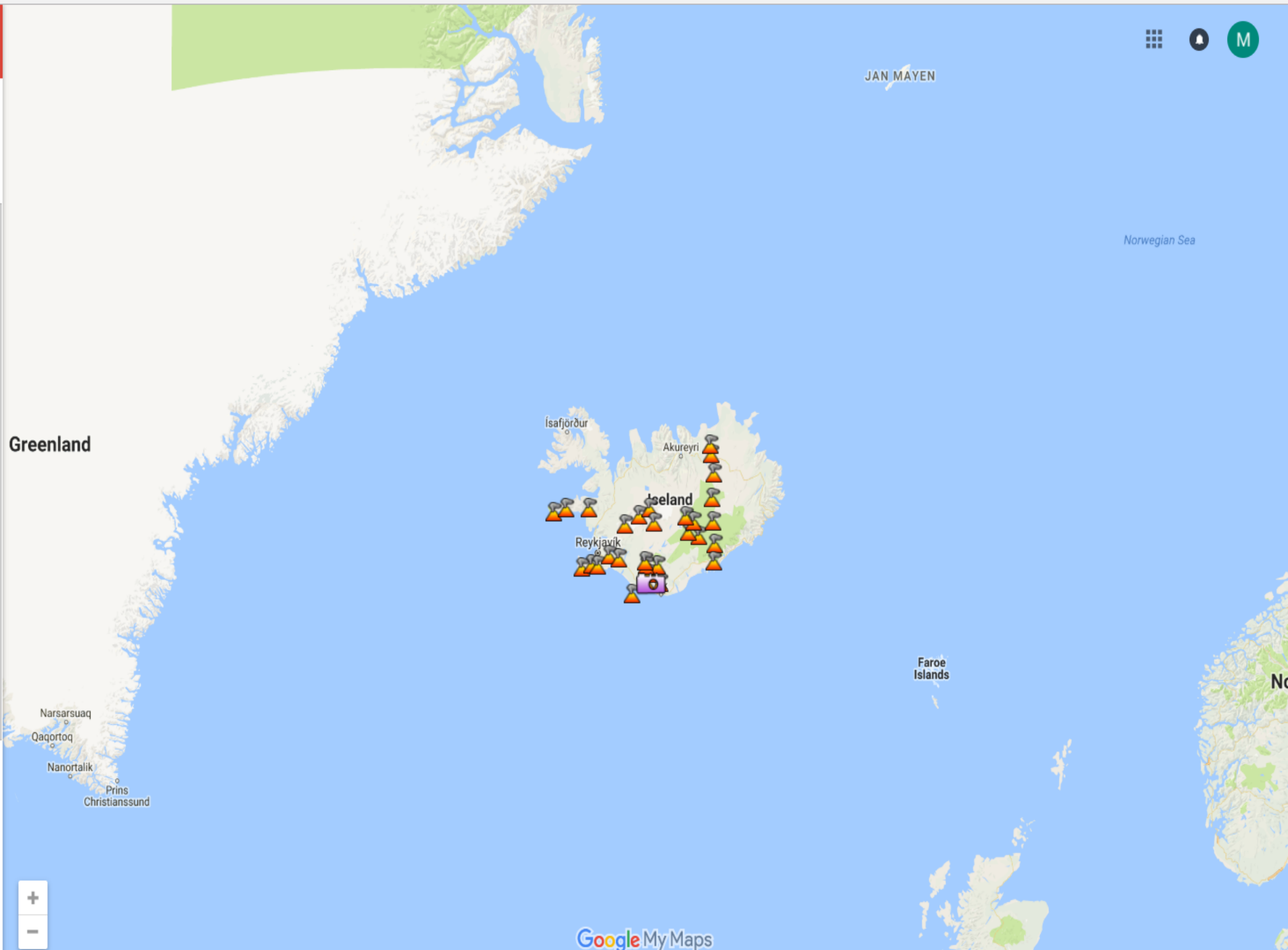


<http://volcano.oregonstate.edu/navajo-volcanic-field>





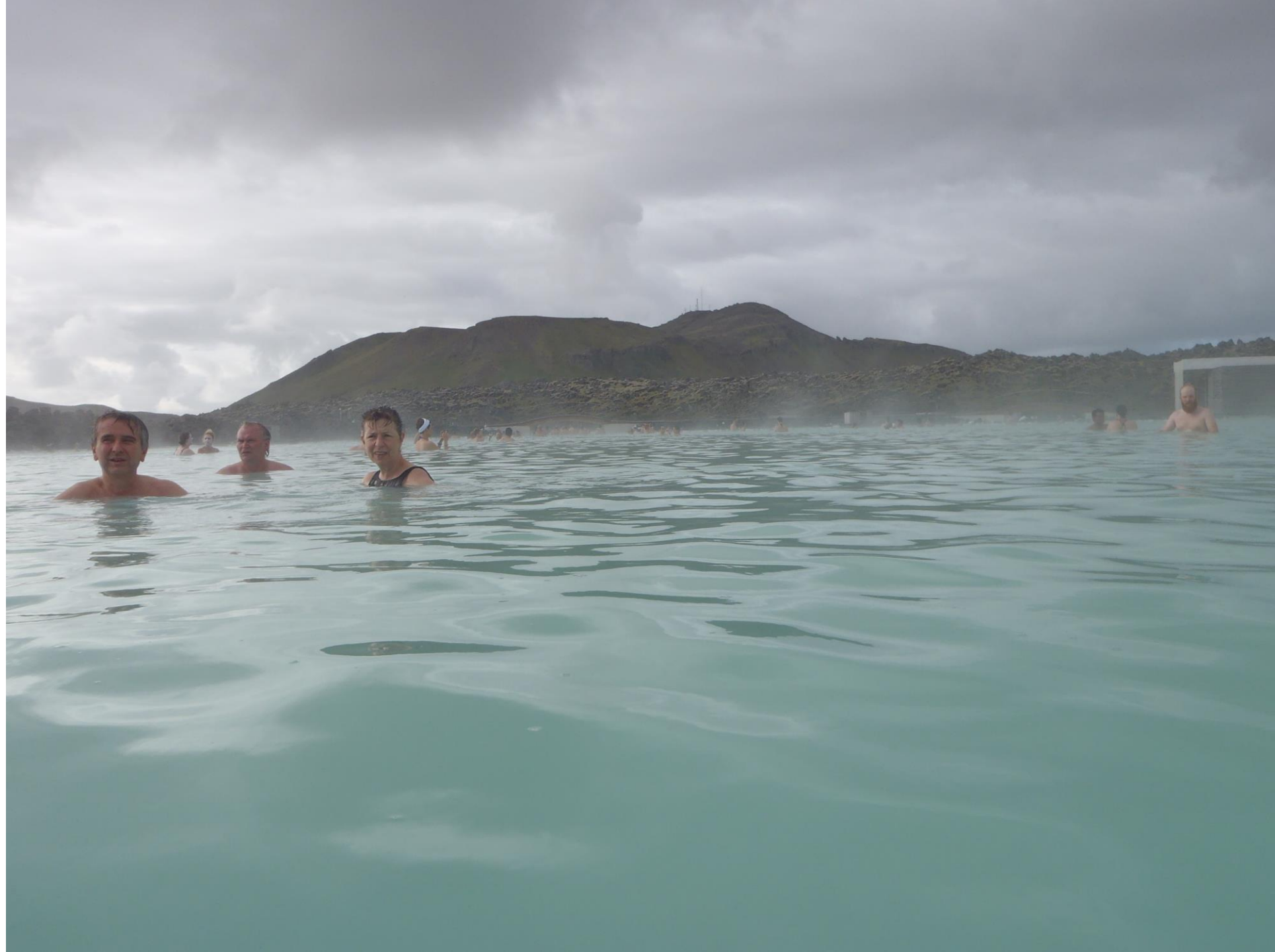
-  Snæfellsjokull
-  Lysuholl
-  Ljosufjoll
-  Reykjanes
-  Eyjafjallajokull
-  Askja
-  Krysuvik
-  Brennisteinsfjoll
-  Hengill
-  Grimsnes
-  Prestahnukur
-  Langjokull
-  Hofsjokull
-  Kerlingarfjoll
-  Vestmannaeyjar-Heimaey
-  Katla
-  Tindafjallajokull
-  Torfajokull
-  Vatnafjoll
-  Hekla
-  Esjufjoll
-  Grimsvotn
-  Loki-Fogrufljoll



What part of **Eyjafjallajökull** can't you understand?  
(aye -ya fyah dla jow kudl)











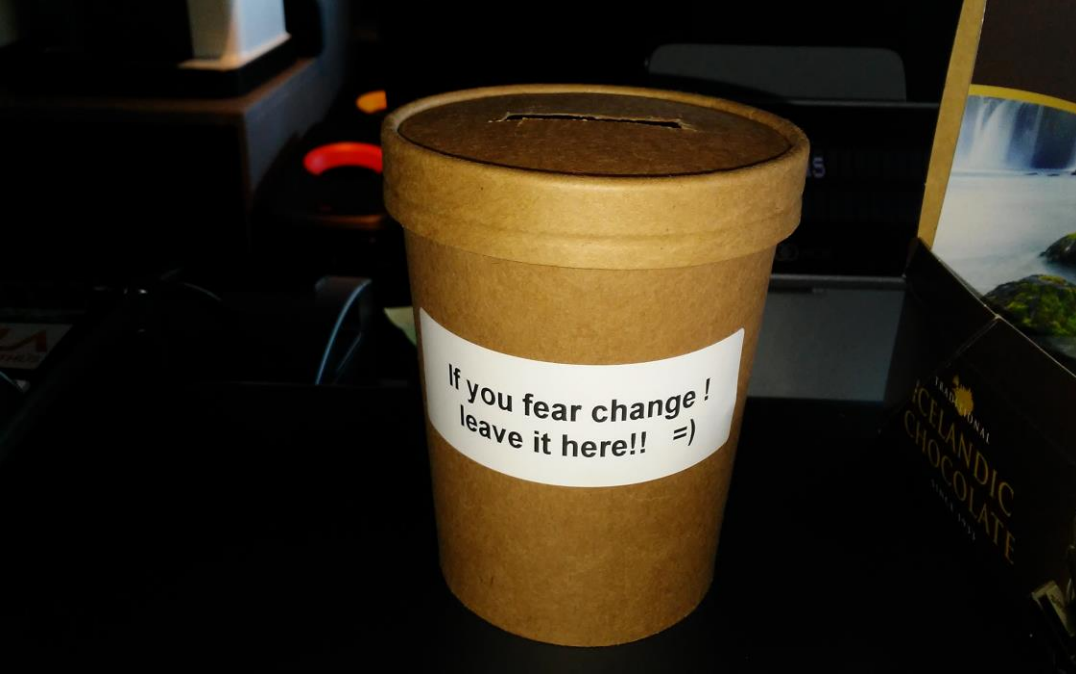


# The original geyser











***Bjarngerður (l) and Rögnvaldur (r),  
two of the “Hidden People” of Iceland***



- Home
- Reports
- Database
- Learn
- Research
- Info & Contacts

### Pinatubo



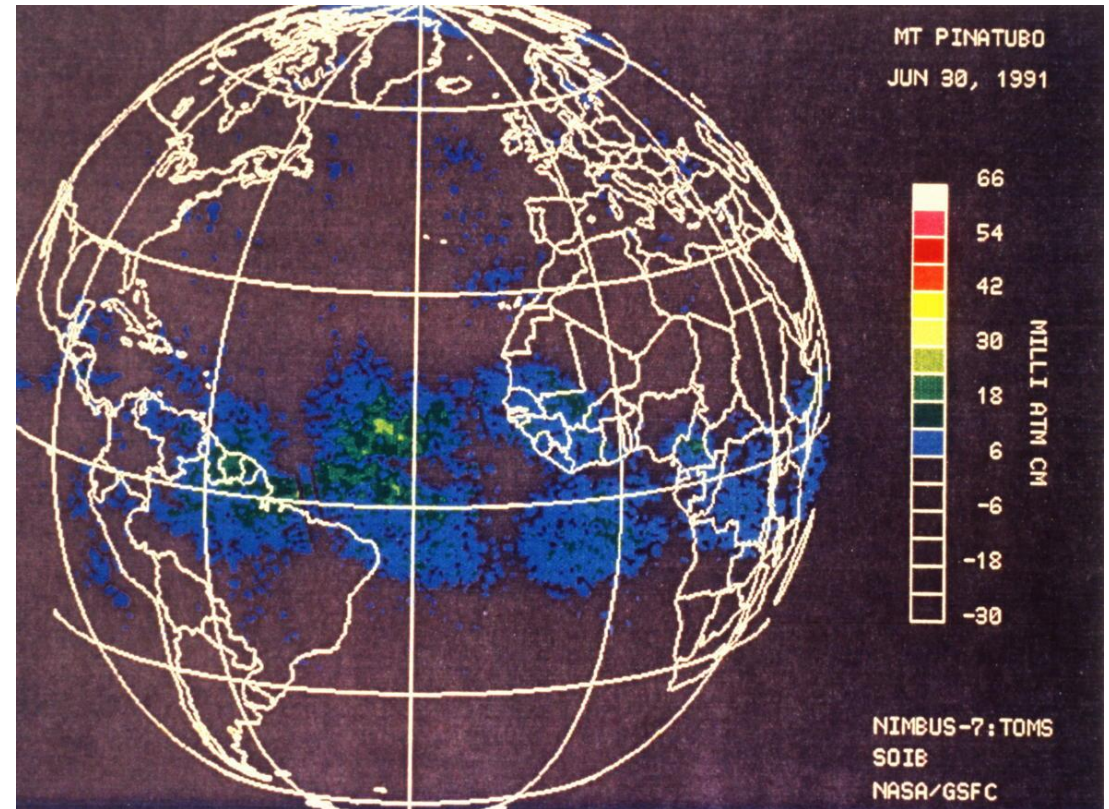
Country	Philippines
Volcanic Region	Philippines and SE Asia
Primary Volcano Type	Stratovolcano
Last Known Eruption	1993 CE
Latitude	15.13°N
Longitude	120.35°E
Summit Elevation	1486 m 4874 ft
Volcano Number	273083

- Google Earth Placemark with Features
- Cite Volcano Profile

- Latest Activity Reports
- Weekly Reports
- Bulletin Reports
- Synonyms & Subfeatures
- General Information
- Eruptive History
- Deformation History
- Emission History
- Photo Gallery
- Smithsonian Samples
- Affiliated Sites



# Pinatubo's impact and worldwide effects (1991)



<https://www.usgs.gov/media/images/toms-satellite-image-showing-how-ash-had-circled-globe-30-jun-91>

# Mt St Helens (1980)

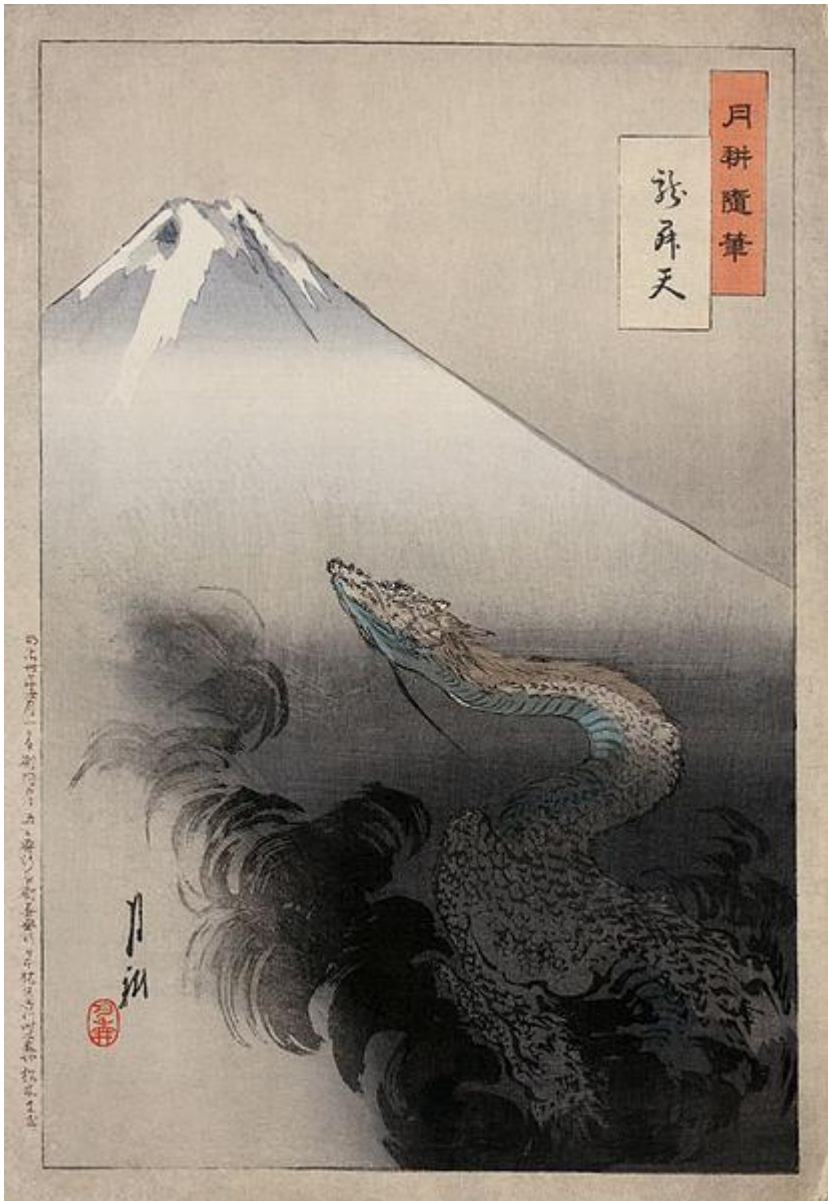
[https://volcanoes.usgs.gov/volcanoes/st\\_helens/](https://volcanoes.usgs.gov/volcanoes/st_helens/)



[https://volcanoes.usgs.gov/volcanoes/st\\_helens/](https://volcanoes.usgs.gov/volcanoes/st_helens/)



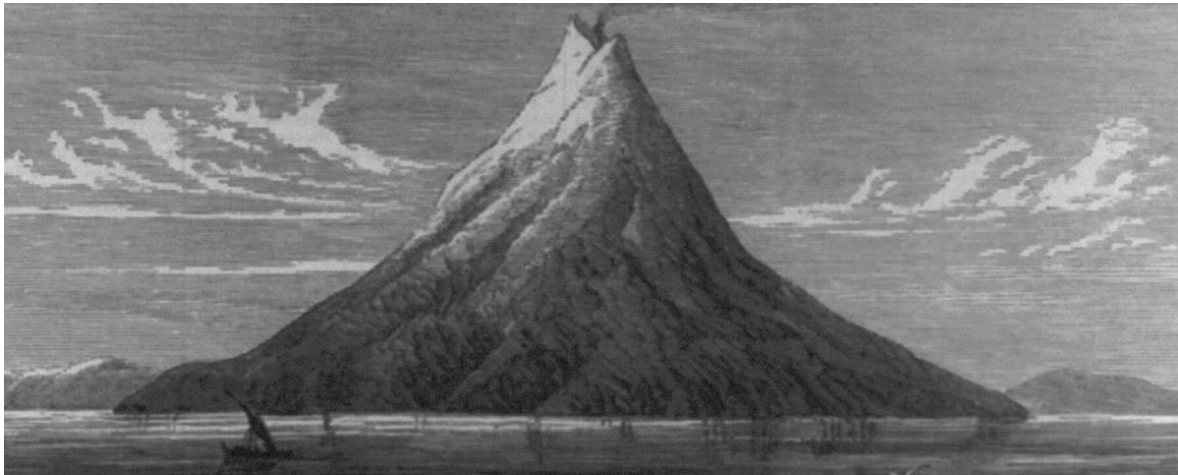
[https://en.wikipedia.org/wiki/1980\\_eruption\\_of\\_Mount\\_St.\\_Helens#/media/File:MSH80\\_eruption\\_mount\\_st\\_helens\\_05-18-80-dramatic-edit.jpg](https://en.wikipedia.org/wiki/1980_eruption_of_Mount_St._Helens#/media/File:MSH80_eruption_mount_st_helens_05-18-80-dramatic-edit.jpg)



[Japanese volcanoes](#)

# Krakatau (not Krakatoa) (1883)

<http://volcano.oregonstate.edu/krakatau>



<https://www.ncei.noaa.gov/news/day-historic-krakatau-eruption-1883>



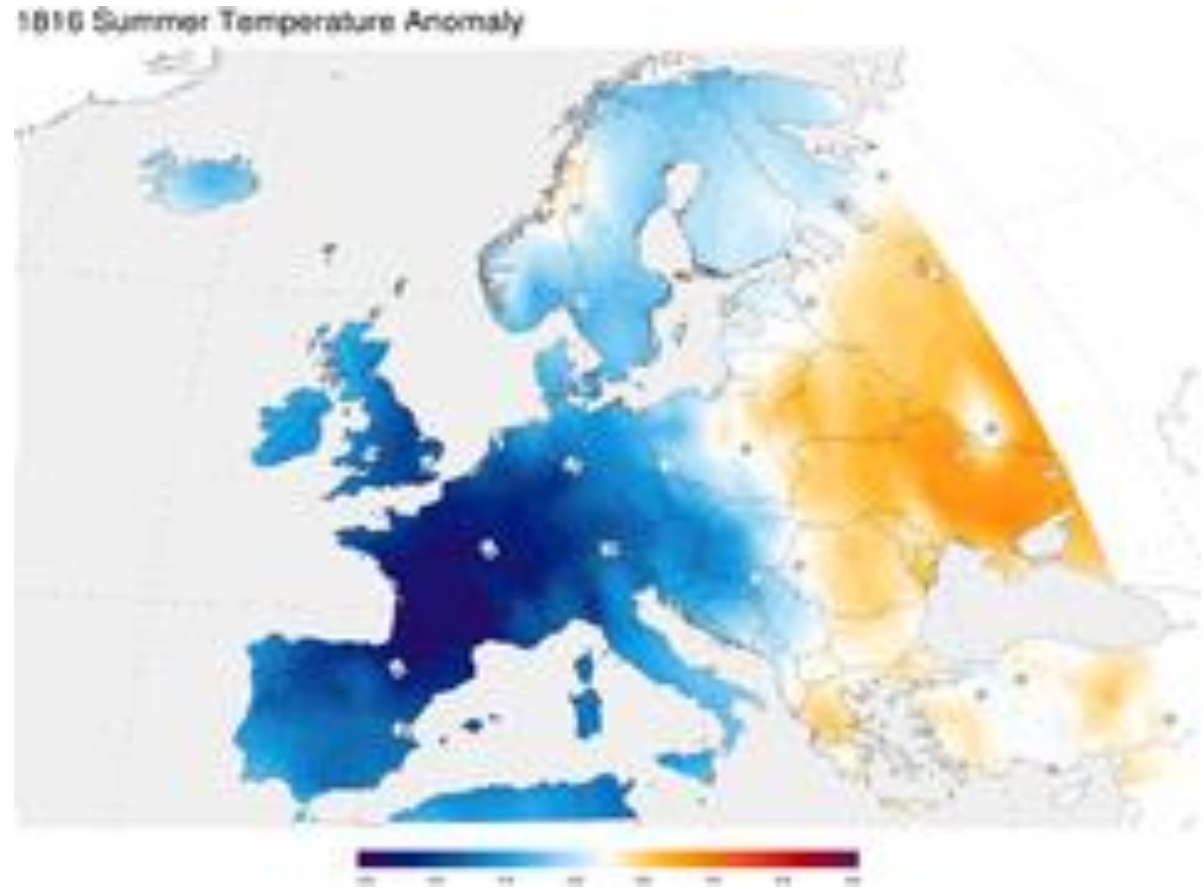
<http://www.indonesia-tourism.com/banten/krakatoa-volcano.html>



# Tambora (1815) and “The Year without Summer”

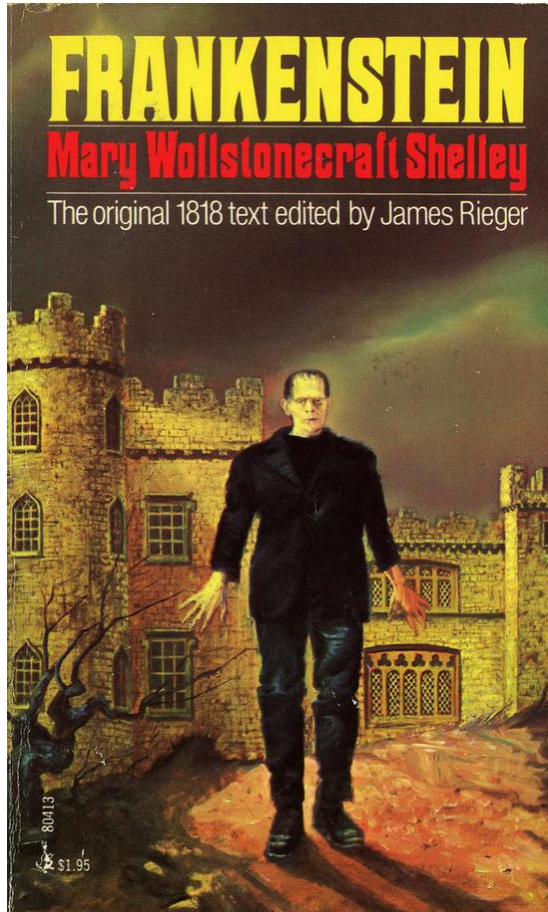


- Largest observed eruption in recorded history
- >71,000 deaths
- “Eighteen hundred and froze to death”



[https://en.wikipedia.org/wiki/Year\\_Without\\_a\\_Summer](https://en.wikipedia.org/wiki/Year_Without_a_Summer)

This is what you get when cooped up in a cold vacation house in Italy in 1816



- Mary Wollstonecraft Godwin (1797-1851), later [Mary Shelley](#), devised this Gothic novel in 1816 while staying at Lake Geneva with [Lord Byron](#), John Polidori, Claire Clairmont and her future husband [Percy Bysshe Shelley](#).
- Byron proposed that the group should write ghost stories. The text was penned at a time when scientists were investigating the possibility of regenerating corpses with electricity.

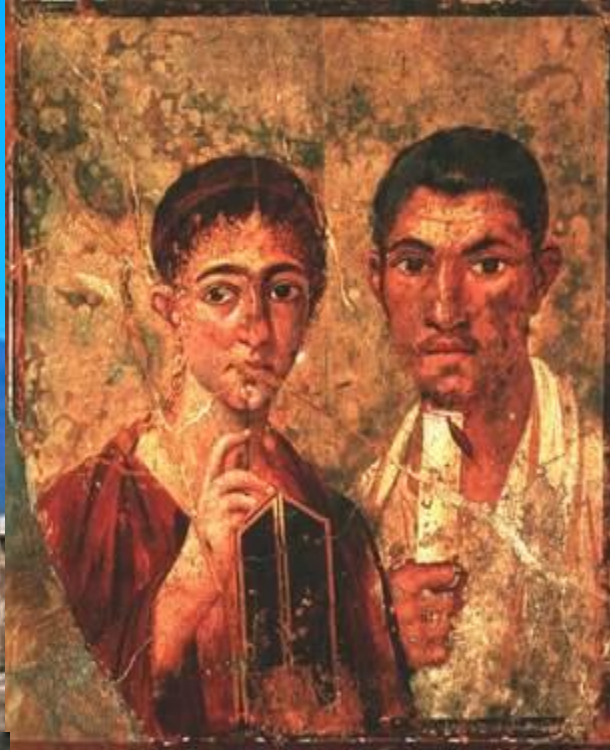


<https://www.livescience.com/58427-mount-etna-volcano-eruptions-photos.html>

1944  
Eruption



<https://www.earthmagazine.org/article/benchmarks-march-17-1944-most-recent-eruption-mount-vesuvius>





<http://revolverwarholgallery.com/portfolio/vesuvius-365/>



Many 18<sup>th</sup> – 19<sup>th</sup>  
Century buildings were  
influenced by the  
discovery of the Roman  
buildings in Pompeii

“Neoclassical style”





**FOR MORE INFORMATION ABOUT VOLCANOES IN GENERAL, SEE THE FEB 2018 E2C WEBPAGES**



"Volatiles and Volcanic Vigor"

[Home](#) / ["Volatiles and Volcanic Vigor"](#)

"Volcanic Eruptions: How Wet? How Hot? How Fast?"  
with Terry Plank, Megan Newcombe, and Anna Barth  
Originally presented 10 Feb 2018



(Images: USGS)

What causes some eruptions to be more explosive than others? Is it the total driving gas fuel, or how fast the gas escapes? This talk examines both the volatile content and the speed of magma ascent immediately prior to eruption. Chemical zonation preserved inside glass pockets and