

Listening for Magma: How to Forecast a Volcanic Eruption

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A list of materials about this topic provided by Aldean Kilbourn,
Geophysical Institute Keith B. Mather Library



Internet Resources

GENERAL INFORMATION (ALL SITES ACCESSIBLE AS OF 15 FEBRUARY 2010)

Alaska Volcano Observatory. <<http://www.avo.alaska.edu/>>.

This site has current information on volcanoes, a searchable "library," images of volcanoes in a myriad of formations, the ability to search, links to other websites.

Annenberg Media Learner.Org: Volcanoes – Forecasting.

<<http://www.learner.org/interactives/volcanoes/forecast.html>>.

Ball, Jessica. *Predictions, Forecasting and Eruptions*. Magma Cum Laude (blog).

<<http://magmaCumLaude.blogspot.com/2009/01/predictions-forecasting-eruptions.html>>.

CUSVO: Consortium of US Volcano Observatories - Alaska, Cascades, Hawaii, Long Valley, Yellowstone. <<http://www.cusvo.org/>>.

Dartmouth College (New Hampshire). The Electronic Volcano. <<http://www.dartmouth.edu/~volcano/>>.

Older website, but with different information than is found elsewhere online.

Geophysical Institute, University of Alaska, Fairbanks. *Geophysical Institute Quarterly*.

<<http://www.gi.alaska.edu/Quarterly/>>.

Look to archives for articles on various volcanoes, eruptions, and impacts of volcanic activity.

Geophysical Institute, University of Alaska Fairbanks. *Alaska Science Forum*: Volcanoes Index.

<<http://www.gi.alaska.edu/ScienceForum/volcanoes.html>>.

Global Volcanism Program: World-wide Holocene Volcano and Eruption Information. Washington,

D. C.: Smithsonian Institution. <<http://www.volcano.si.edu/faq/index.cfm?faq=08>>.

Links to world volcanoes, by region, name, eruption date, etc.

Institute of Volcanology and Seismology. Holocene Kamchatka Volcanoes.

<<http://www.kscnet.ru/ivs/volcanoes/holocene/main/main.htm>>.

International Association of Volcanology and Chemistry of the Earth's Interior. About Volcanoes.

<<http://www.iavcei.org/IAVCEI.htm>>. Volcano links.

King, H.M. Geology.com: Volcanoes and Volcanic Eruptions. 2009. <<http://geology.com/volcanoes/>>.

Looking at articles by topic, there are many for volcanoes.

Lorditch, E. 2009. *Research: Volcanic quakes help forecast eruptions*. InsideScience.org, 28 Dec 2009.

<http://www.insidescience.org/research/volcanic_quakes_help_forecast_eruptions>.

National Weather Service Forecast Office. Volcano Coordination.

<<http://pafc.arh.noaa.gov/volcano.php>>.

NOAA Satellite and Information Services: The Washington Volcano Ash Advisory.

[modified 2009 April 8] <<http://www.ssd.noaa.gov/VAAC/>>.

United States Geological Survey. Geology Research and Information. <<http://geology.usgs.gov/>>

Variety of links, including for volcanoes.



Book Resources

Burleigh, R., Giraudon, D., Bourseiller, P. 2003. Volcanoes: Journey to the Crater's Edge.

New York: Harry N. Abrams, 80p.

Recommended for 4th to 9th grades.

O'Meara, D. 2005. Into the Volcano. Tonawanda, NY: Kids Can Press, 56p.

Recommended for ages 9 to 14.

Trombley, R.B. 2006. The Forecasting of Volcanic Eruptions. Lincoln, NE: iUniverse. 130p.



Video and Electronic Resources

Mount St. Helens, Keeper of the Fire. Directed by David Rosen ; written and conceived by Otto Sieber.

VHS, 30 min., Finley-Holiday Film Corp., 1980.

"Otto Sieber and his film crew staggered down the ruined slopes of Mt. St. Helens. Blinded by ash and near death from exposure, he carried with him footage taken of the volcanic eruption and its devastating aftermath. Included is the only photographic sequence ever recorded of the instant a volcano blasted itself apart, with the force of 500 atomic bombs. "-Noel Wien Catalog, Fairbanks, AK public library

TEACHER RESOURCES THROUGH FAIRBANKS NORTH STAR BOROUGH SCHOOL DISTRICT'S LIBRARY MEDIA CENTER

Nye B. Bill Nye The Science Guy: Volcanoes. DVD, 26 min., Disney 2005.

The Fire Below Us: Remembering Mount St. Helens. VHS, 30 min., Great Plains Network 1995.

In the Path of a Killer Volcano. DVD, 56 min., WGBH Educational Foundation, 2006.

Philippines' Mount Pinatubo volcanic eruption

Plate Tectonics! : A GEMS kit. Carolina Biological Supply Co, 2008. multimedia kit + Guide.

Volcano! An Event-Based Science Module. Science/Boreal Lab 2001.

Multimedia kit; Teacher's guide, 1 student manual, and 1 video.



Teacher Resources

Decker, R., Decker, B. 1998. *Volcanoes (Academic Version with CD-ROM)*. 3rd ed.
New York: Freeman and Company.

Geological Society of America - Education Resources.

<<http://www.geosociety.org/educate/resources.htm>>.

This site links to lesson plans and resources for topics in Earth Science such as volcanoes, energy, paleontology, space, weather and more. The lesson plans are sorted by topic or by age group (elementary, intermediate and secondary).

NOVA. *Forecasting Volcanic Eruptions*. Teachers' Domain.

<<http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.forecast.vol/>>.

Lesson plans, video, links.

Oracle Education Foundation's ThinkQuest Library. Meltdown.

<<http://library.thinkquest.org/TQ0312395/index.htm>>.

Oracle Education Foundation's ThinkQuest Library. Volcanic Ash. 1998.

<<http://library.thinkquest.org/17457/volcanoes/hazards.ash.php>>.

Oregon State University. Volcano World. <<http://volcano.oregonstate.edu/>>.

Oregon State University. Volcano World for Educators.

<<http://volcano.oregonstate.edu/education/index.html>>.

Schmincke, H-U. 2004. *Volcanism*. New York: Springer. 324 p.

Useful due to many illustrations, diagrams and photos that help explain text.

Tyson, P. Can we predict eruptions? NOVA online.

<<http://www.pbs.org/wgbh/ova/vesuvius/predict.html>>.

United States Geological Survey. Volcano Resources for Educators.

<<http://volcanoes.usgs.gov/about/edu/index/php>>.

University of Alaska Fairbanks Geophysical Institute; the USGS Hawaiian Volcano Observatory;
National Park Service, Hawai'i Volcanoes National Park; and ALU LIKE, Inc. Ola Ka Honua:
Volcanoes Alive. <<http://www.volcanoesalive.com/>>.

Key words for browser searches:

predict volcanic eruptions	volcano	can we predict volcanic eruptions	volcano eruption news
regional name and volcano	volcanoes	predict volcano eruptions	volcanic activity
reports scientists predict volcanic eruptions		specific volcano name	volcanic activity map