

Geology of Natural Hazards (Geo 105)
Web Exercise #2: Volcanic Eruptions & Hazards

1. Visit the site at (<http://quake.wr.usgs.gov/VOLCANOES/LongValley/index.html>) to learn about current activity at Long Valley caldera in eastern California and answer the following questions.

- (a) When (years ago) did Long Valley caldera form?

- (b) Why did scientists believe an eruption might happen at Long Valley in 1980?

- (c) What style of eruption is likely in the future (explosive or non-explosive?)

- (d) What are the approximate odds of an eruption at any point in the future?

- (e) What are some ways that scientists are monitoring volcanic-related activity at Long Valley caldera?

2) Go to the Hawaiian Volcanic Observatory site (<http://hvo.wr.usgs.gov/volcanowatch/>) to learn about recent ongoing activity of the big island of Hawaii. Answer the following questions.

- (a) Which volcano is currently active?

- (b) What is the name of the currently erupting vent?

- (c) When did Mauna Loa last erupt?

- (d) What are the principal types of hazards associated with Hawaiian volcanos?

(e) What causes the rare explosive eruptions on Hawaii, such as happened in 1924 and 1790?

(f) In what part of the island of Hawaii does most of the earthquake activity occur?

3) Go to the Cascades Volcanic Observatory page at (<http://vulcan.wr.usgs.gov/home.html>).

(a) What is the current status of volcanic-related activity at Mt. St. Helens?