

Earth's Dynamic Geosphere: Volcanoes Activity 4- Volcanic Hazards: Airborne Debris

This investigation will help you to:

- Preparing for the Chapter Challenge
- Learn more about particle types
- Learn more about distribution and hazards of volcanic ash
- Learn more about the volcanic explosivity index
- To stimulate the eruption of one of the three volcanoes, visit the following web site

Preparing for the Chapter Challenge

How does your study of the movement and hazards of volcanic ash affect the volcano in California.

- Map showing areas subject to potential hazards from future eruptions in California.
- Fact sheet about the potential hazards from future eruptions in the vicinity of Mount Shasta Volcano, Northern California.
- Fact sheet about the volcanic hazards of the Lassen Volcanic National Park Area, California.
- Map showing major Cascade Range Volcanoes in Washington, Oregon, and Northern California, and nearby population centers.

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Learn more about particle types

Ash, Tephra, Pumice, Scoria, etc. - USGS Cascades Volcano Observatory

Read a series of fact sheets to investigate further different types of volcanic particles. See a picture of a bear foot-print in volcanic ash.

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Learn more about distribution and hazards of volcanic ash

Volcanic Air Pollution - A Hazard in Hawaii

Hawaii serves as a good case study to demonstrate how the hazard of volcanic particles can spread over a wide range.

Volcanic Ash - Danger to Aircraft in the Northern Pacific

In 1989-1990, a series of eruptions of Redoubt Volcano in Alaska threatened airplane traffic throughout northern North America. Site includes several examples of the dangers volcanic eruptions can have on airplanes, even if the airplane is hundreds or thousands of miles from the volcano.

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Learn more about the volcanic explosivity index

The Volcanic Explosivity Index

Learn more about the classification system vulcanologists use to study volcanic eruptions.

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To stimulate the eruption of one of the three volcanoes, visit the following web site:

[Volcanic Ash Forecast Transport and Dispersion](#)

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