

Volcanic Hazards

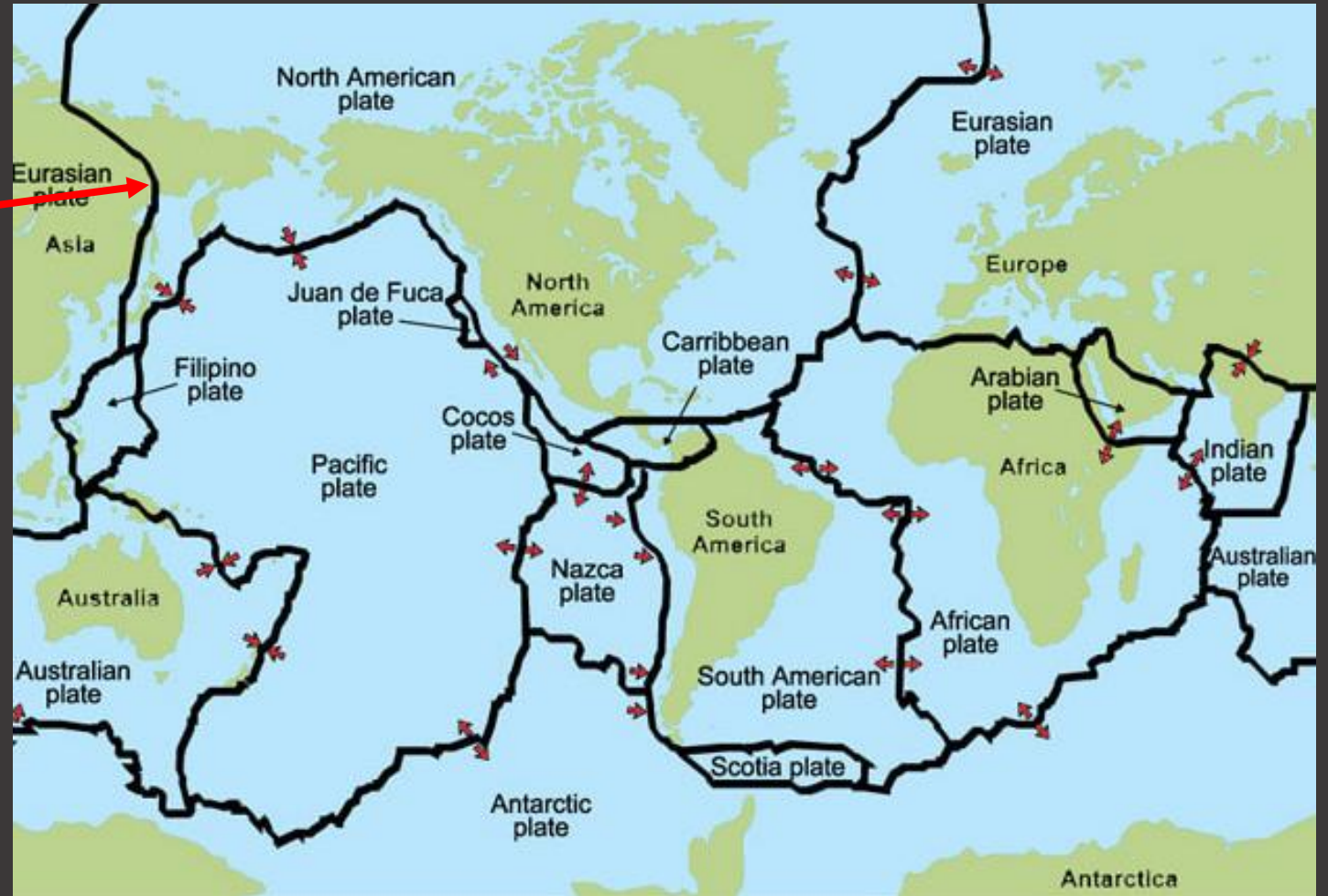
A volcanic hazard refers to any potentially dangerous volcanic process that puts human lives, livelihoods, or infrastructure at risk of harm.

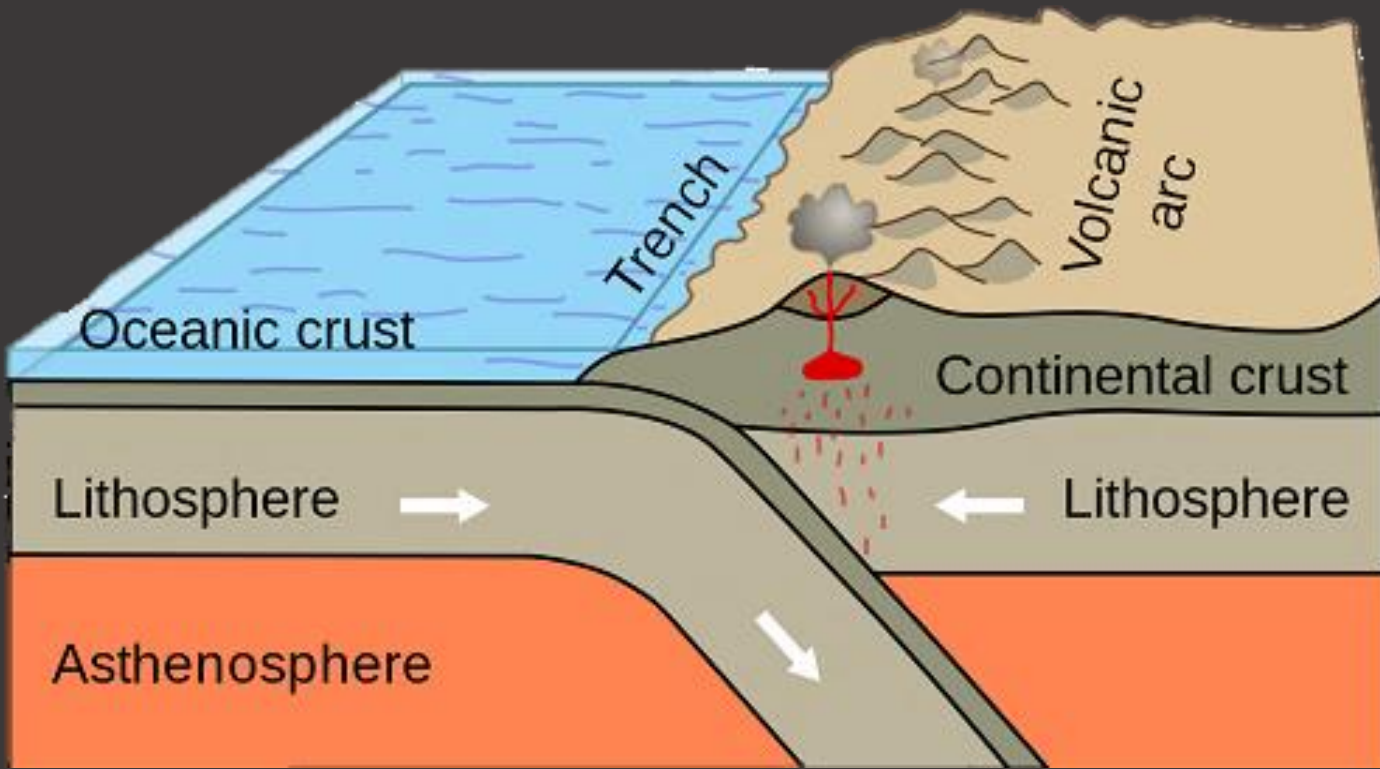


Sabancaya volcano erupting, Peru in 2017

Where do we find volcanoes?

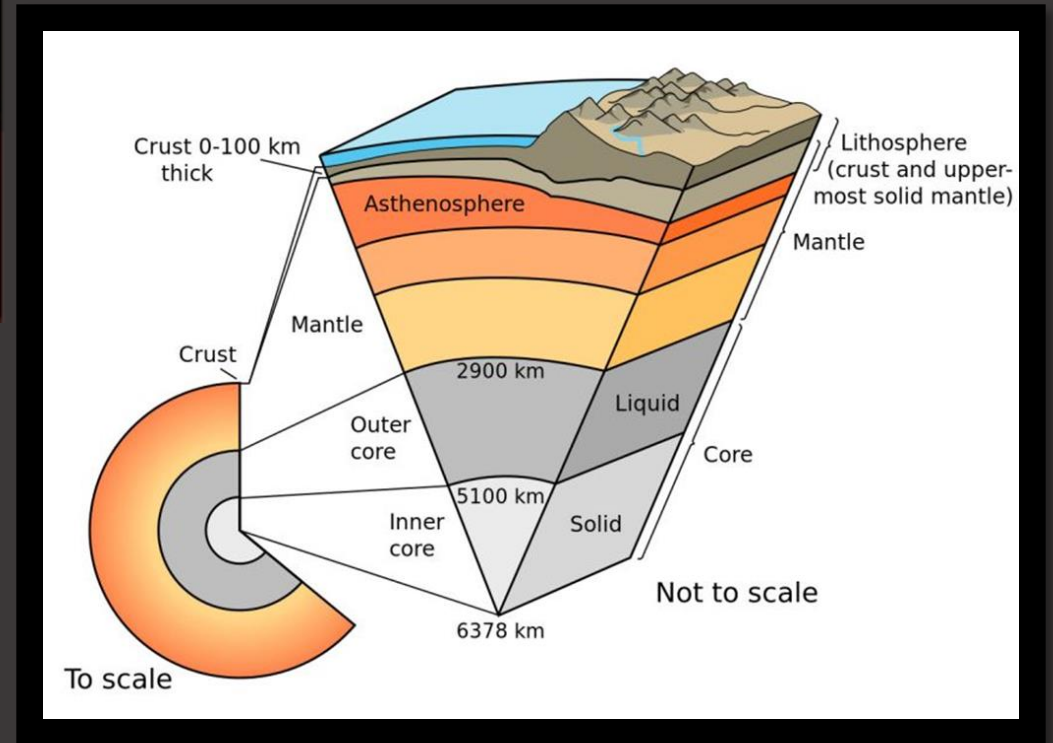
Plate boundaries!





The Earth is made up of lots of layers. The crust is the top layer.

We find them in lots of different countries and climates!



Mount Vesuvius, Italy

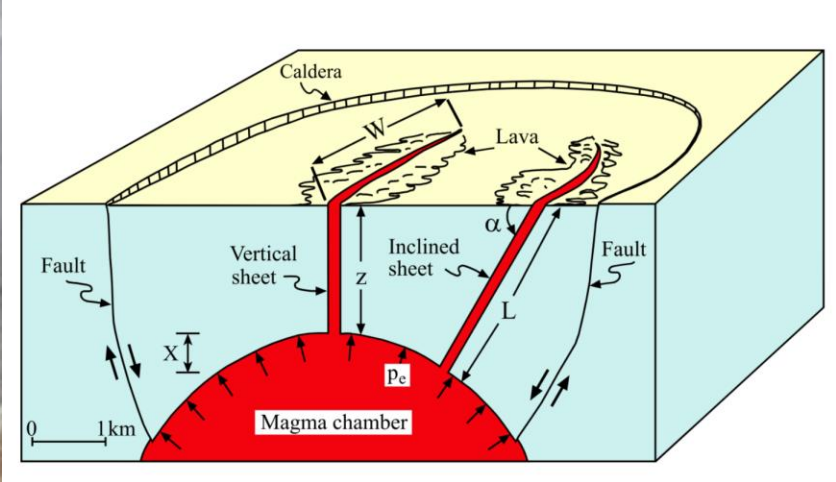


Sakurajima, Kagoshima, Japan.



Cumbre Vieja, La Palma, Canary Islands





A new eruption in Iceland soon?

Washington Post

Types of hazards




Lava racing on the slopes of Volcano Fuego in Antigua, Guatemala, after an eruption.



**Lava
flows**

Lava flow in La Palma, 2021

A photograph of a volcanic eruption. A massive, billowing plume of white ash and steam rises from the summit of a mountain, filling much of the sky. The mountain's rocky, grey slopes are visible, with some green vegetation at the base. The sky is a clear, pale blue. In the foreground, there are some green trees and a utility pole with wires.


**Pyroclastic
flows**
(pyroclastic
density
currents)

Pyroclastic flow races down the flanks of Mount Merapi, Indonesia, during a volcanic event in 2006. PHOTOGRAPH COURTESY USGS, VOLCANO DISASTER ASSISTANCE PROGRAM

An aerial photograph of Mount Saint Helens, showing a large, dark, conical deposit of volcanic ash and debris (a lahar) flowing down a snow-covered slope. The mountain's peak is partially obscured by a plume of white smoke or ash. The surrounding landscape is rugged and covered in ash, with some snow patches. The sky is clear blue with scattered white clouds.

Lahars

**Lahar (dark deposit on snow) on Mount Saint Helens after the March 19, 1982, eruption.
Tom Casadevall/U.S. Geological Survey**

A dramatic volcanic eruption scene. A massive, billowing plume of white ash and steam rises from a dark, rocky vent, partially obscuring a bright orange and red lava flow. In the foreground, a dark, jagged rock formation is partially covered in a layer of white ash. The sky is filled with the intense colors of the lava, creating a stark contrast with the white ash plume.

**Jökulhlaups
(yo-kool-
lahp)**

Volcanoes and cities



Popocatepetl, Mexico



Mount Fuji, Japan.



Mount Sakurajima, Kagoshima.



Mount Vesuvius, Naples.



El Misti, Peru