

Volcanism is a ubiquitous process across the surface of the Earth (and other terrestrial bodies)

The term "volcanism" comes from Vulcan, the Roman god of fire, metalworking, and the forge. On Earth, volcanism occurs at:

- Convergent tectonic plate boundaries (i.e., subduction zones and arcs)
- Hot spot settings (i.e., hot spots and rifts)

Volcanism occurs when magma derived from Earth's mantle

erupts on the surface

Once magma erupts on the surface, it is called lava.

- Lava flows across Earth's surface
- Magma and lava are both $\sim 1000^\circ\text{C}$ compared to the temperatures in the Earth's surface
- $\sim 100^\circ\text{C}$ below $\sim 100^\circ\text{C}$

Two Types of Volcanic Eruptions:

- **Hawaiian type**: non-explosive eruption of magma, which slowly flows over the surface of the Earth
- **Explosive type**: eruptions occur with a sudden explosion, which lead to the most dangerous volcanic activity

Types of Magma:

- **Basaltic** (most common on Earth)

• **Basaltic**

- MgSiO_3 (high $\sim 1000^\circ\text{C}$) and SiO_2 (low)
- $\sim 100^\circ\text{C}$ below

• **Andesitic**

- SiO_2 (low)

• **Rhyolitic**

- SiO_2 (high $\sim 1000^\circ\text{C}$)

- $\sim 100^\circ\text{C}$ below

There are 3 types of magma:

- **Basaltic**: high compressions, SiO_2 (high), weak and explosive in their water content
- **Andesitic**: intermediate compressions, SiO_2 (low), weak and explosive in their water content
- **Rhyolitic**: high compressions, SiO_2 (low), weak and explosive in their water content

Volcanism Study Guide Earth Science

Edward J. Tarbuck



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L. Sharpton, Peter D. Ward, 1990 The conference was held in Snowbird Utah October 1988 as a sequel to the Conference on
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through improved constraints on the effects of volcanic gases on atmospheric composition chemistry and radiative transfer
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