Volcanoes







Three (Main) Types of Volcanoes

- ·Shield
- ·Cinder Cone
- · Composite

Shield volcano

- ·Broad, gentle slopes
- ·Built by fluid basalt lava
- ·Flows across the ground easily
- ·Enables lava to flow tens of km
- ·Builds enormous, low-angle cones
- ·Largest volcanoes on Earth

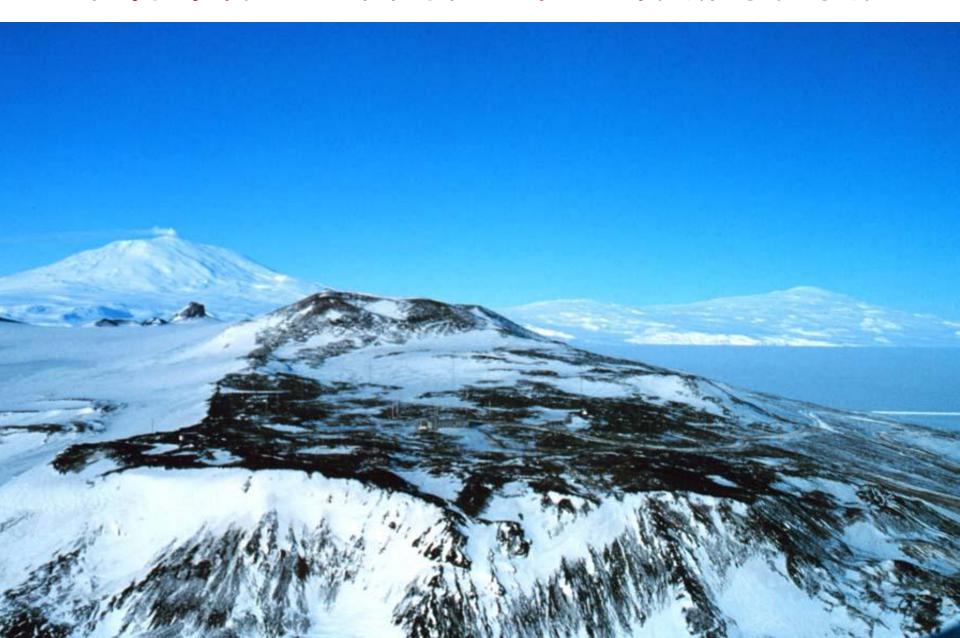
Shield volcano



Shield volcano



Mount Terror in Antarctica



Kilauea Most active volcano on Earth





Cinder Cone Volcano

- ·Most common type of volcano
- Built from lava fragments (called cinders)
- ·Steep hill forms above a vent
- ·Are not famous for their eruptions and usually don't cause any loss of life
- ·Grow rapidly and soon approach their maximum size
- Rarely exceed 250m in height and 500m in diameter.

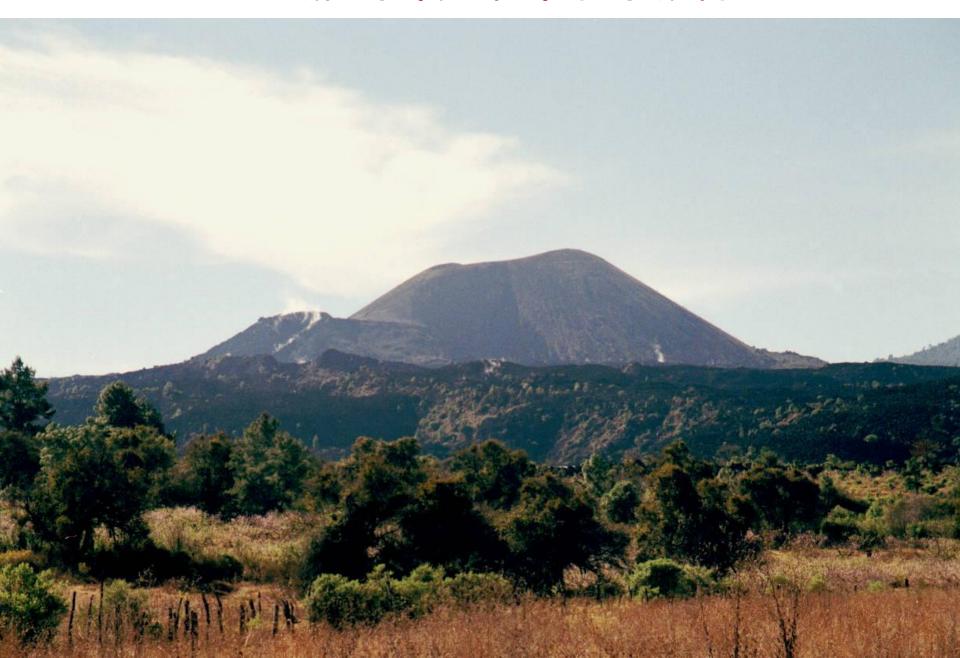
Cinder Cone Volcano



Cinder Cone Volcano



Paricutin Volcano



Composite Volcanos

- Composite volcanoes, also called strato-volcanoes
- Formed by alternating layers of lava and rock fragments.
- Strato-volcanoes often form impressive, snow-capped peaks which are often exceeding 2500m in height
- · Between eruptions they are often so quiet they seem extinct





- Composite volcanoes usually erupt in an explosive way.
- When magma rises to the surface, it usually clogs the crater pipe and gas gets locked up.
- Pressure will increase resulting in an explosive eruption



Mount Fuji

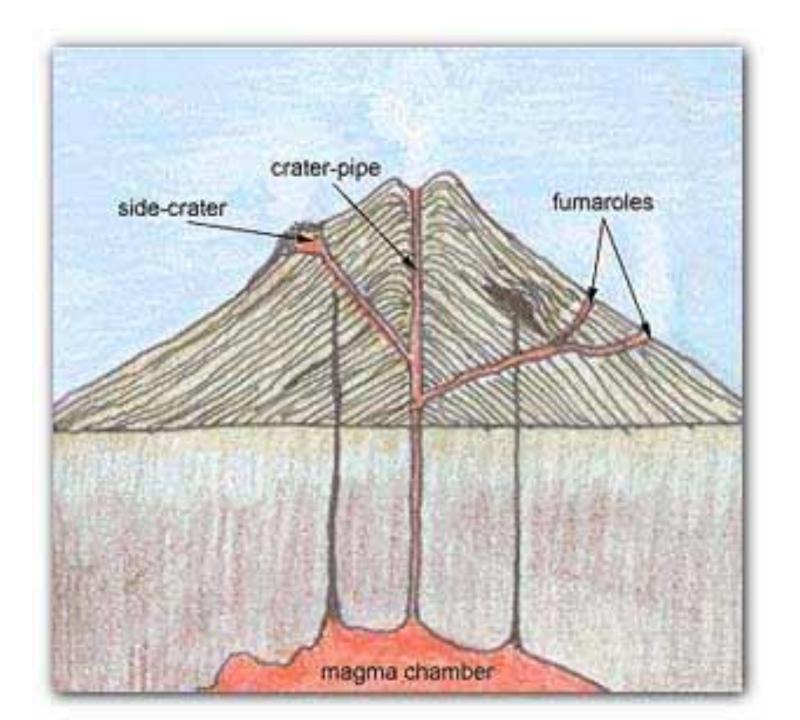


Composite Volcano



Composite Volcano





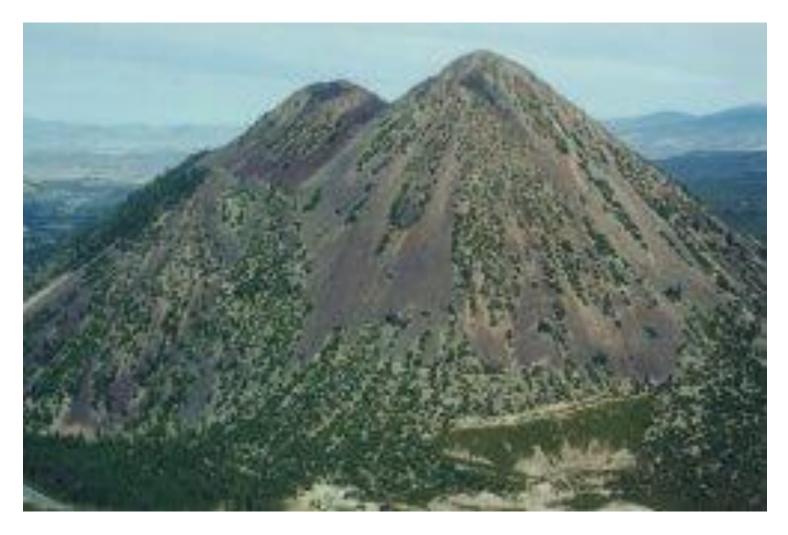


Special Types

Lava Dome Volcano

- Has very steep sides
- Formed from pasty lava "squeezed" out of a central vent
- Relatively small volcanoes
- Usually "plug" themselves after a short time

Plug Dome Volcano

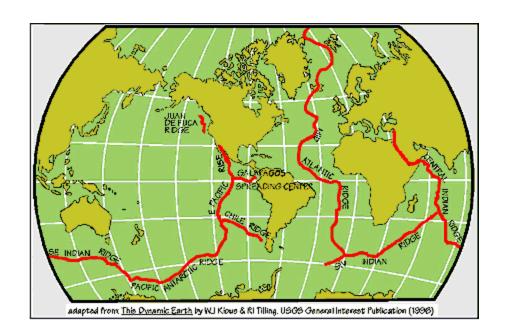


Black Butte – California



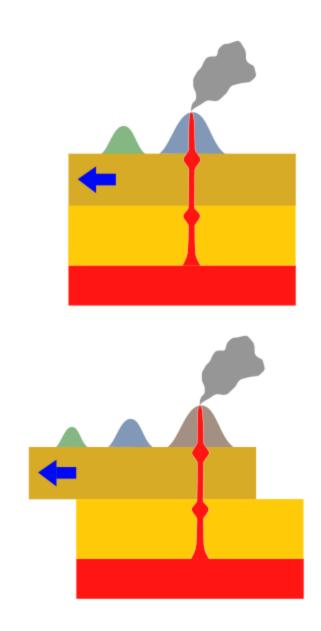
Mid Ocean Ridges

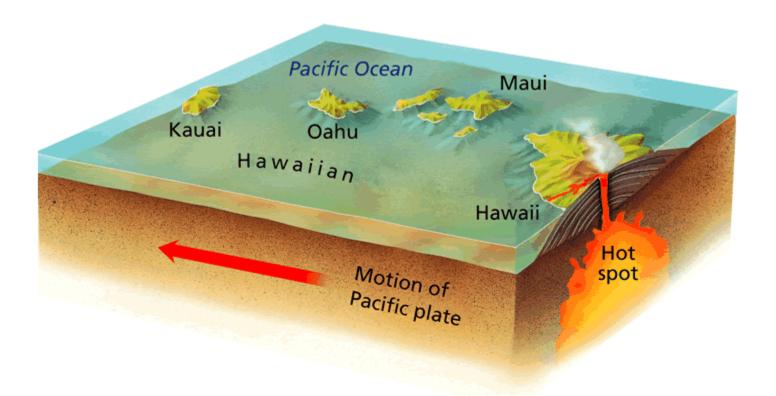
- Volcanoes on the ocean floor
- Plate diverge from each other and magma rises



Hot Spots

- One chamber pipe creates multiple volcanoes over time
- The chamber pipe stays in the same spot
- Since the plates move, the pipe creates a new volcano in a new spot
- This is what created the Hawaiian Islands







What type of volcanoes are these?



