

Volcanoes

Shield Volcanoes

low angle profile; large successive basaltic flows

Non-explosive (mafic) eruptions

Low viscosity flow produces various morphologies (lava flow, fissure eruptions, pillow basalts, etc)

Stratovolcanoes

steep-sloped, built up from *tephra*; layered pyroclastics + viscous lava

Explosive (intermediate/felsic) eruptions

Higher viscosity flow produces composite or stratovolcanoes, domes, and calderas (crater-like volcanoes)

Tephra - Volcanic rock fragments from explosion including ashfall< lapilli, bombs, and blocks

Earthquake Hazards

Liquifaction - When water-saturated, unstable sediments are transformed into substance that acts like liquid

Tsunamis - Seismic sea waves that occur when earthquakes change the seafloor; Tsunamis can harm multiple countries.

Earthquakes

An earthquake occurs from a sudden displacement of rocks along a fault. The released energy radiates out as *seismic waves*. Body waves turn into surface waves when they encounter earth's surface

Body waves:

P-wave - The fastest seismic wave and are the first signal from an earthquake to arrive and produce a push pull motion in the direction of travel (shaking).

S-wave - Perpendicular to P-waves, S-waves produce a side to side motion and are more destructive.

Surface waves:

Love waves - Move horizontally and cause horizontal shifting side to side

Surface R-waves - Last to arrive, land surface behaves like water rotating in an up and down motion.

Seismic waves - The energy from an earthquake that travels through earth in vibrations



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