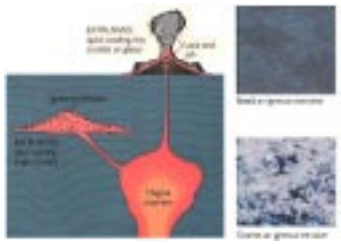
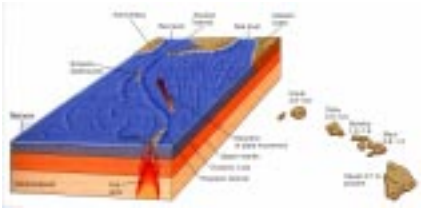
What is a volcano/volcanic activity?

Where do we find volcanoes?

Intrusive and extrusive processes:

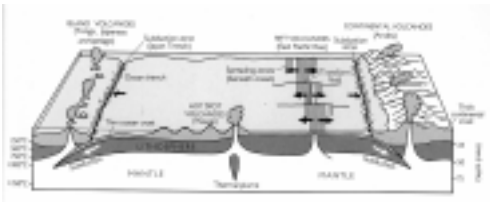


Large Igneous Provinces and Hotspots:

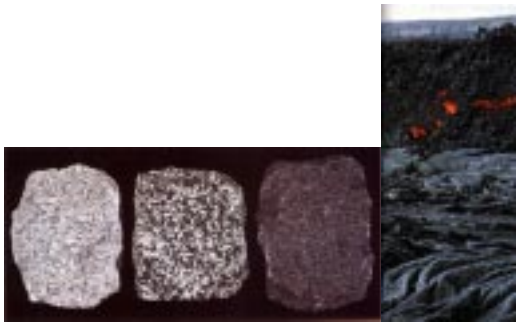


Major types of volcanoes:

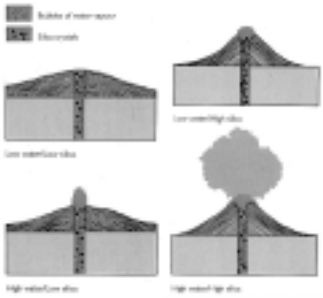
Why are volcanoes different?



The viscosity of lava



The eruption type of a volcano



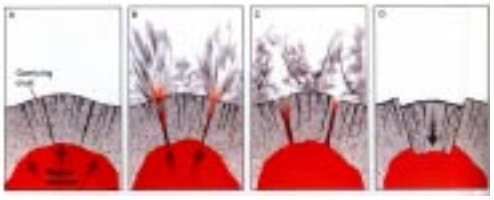
Examples for Shield Volcanoes:

Examples for Stratovolcanoes (Composite Volcanoes):

What makes Stratovolcanoes so dangerous?

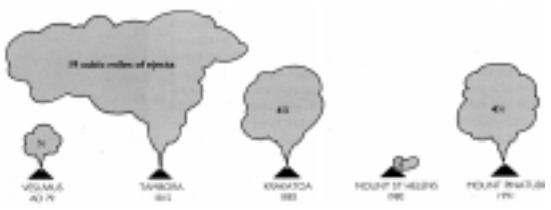
Examples of volcanic material:

Calderas:

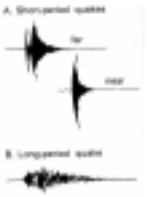


Other volcanic activity:

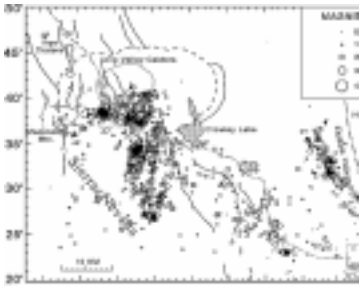
Environmental Impact of Volcanoes:



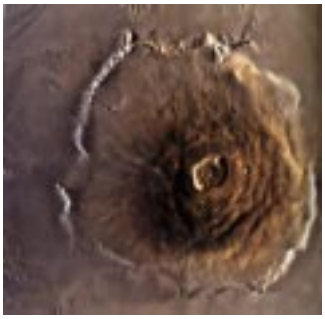
Volcanoes and Earthquakes/Earthquakes and Volcanoes:



The Monitoring of a Volcano (e.g. Pinatubo, St. Helens, Long Valley Caldera):



Volcanoes in the Solar System:



Volcanoes closest to home:

Igneous rocks at home:

Magma Types

	Mafic (basaltic)	**Intermediate (andesitic)**	**Felsic (rhyolitic)**
SiO2 Content	45-52%	53-65%	> 65%
typ. intrusive rock	Gabbro	Diorite	Granite
typ. extrusive rock	Basalt	Andesite	Rhyolite
melting temperature	>1000ºC	900ºC	800ºC
dissolved gas	little	lots	lots
extrusive type	effusive	explosive	explosive
typical location	oc.-ocean subduction	ocean-cont subduction	ocean-cont. subduction
		oc.-ocean subduction	
	oceanic hotspot	continental hotspot	continetal hotspot
	mid-ocean ridge	continental rift	
	large igneous provinces		

Cool Volcano Websites:

Smithsonian Institute: //www.volcano.si.edu/gvp
University of North Dakota: //volcano.und.edu
Michigan Technological University: //www.geo.mtu.edu/volcanoes
U.S. Geological Survey (CVO): //vulcan.wr.usgs.gov (Cascade Volcano Observatory)
U.S. Geological Survey (HVO): //hvo.wr.usgs.gov (for Hawaiian Volcano Observatory)
U.S. Geological Survey (LVO): //lvo.wr.usgs.gov (for Long Valley Observatory)