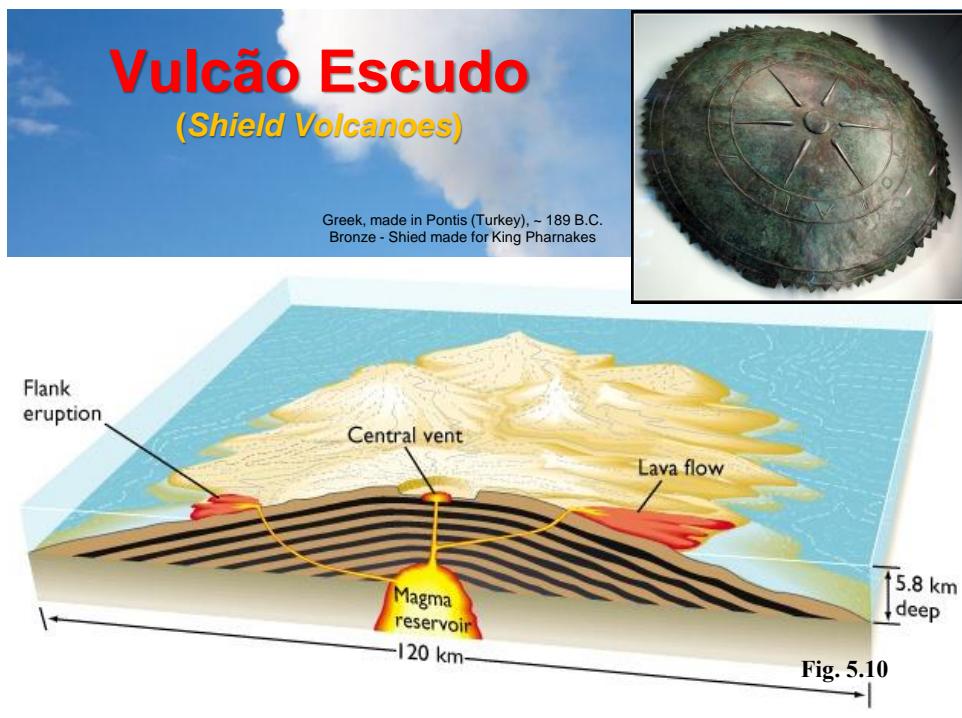
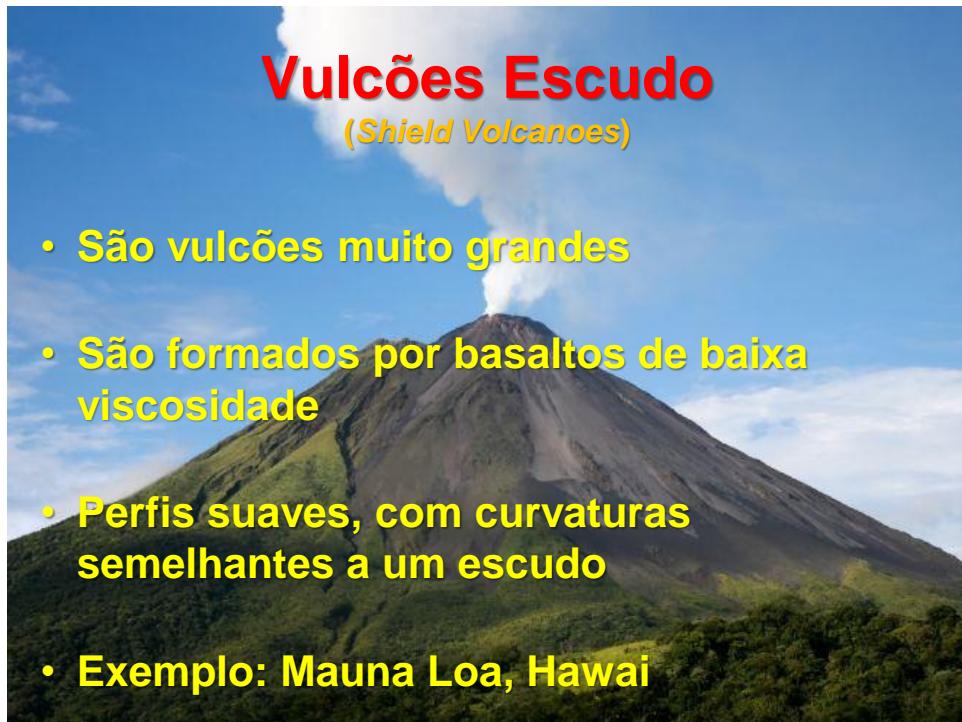
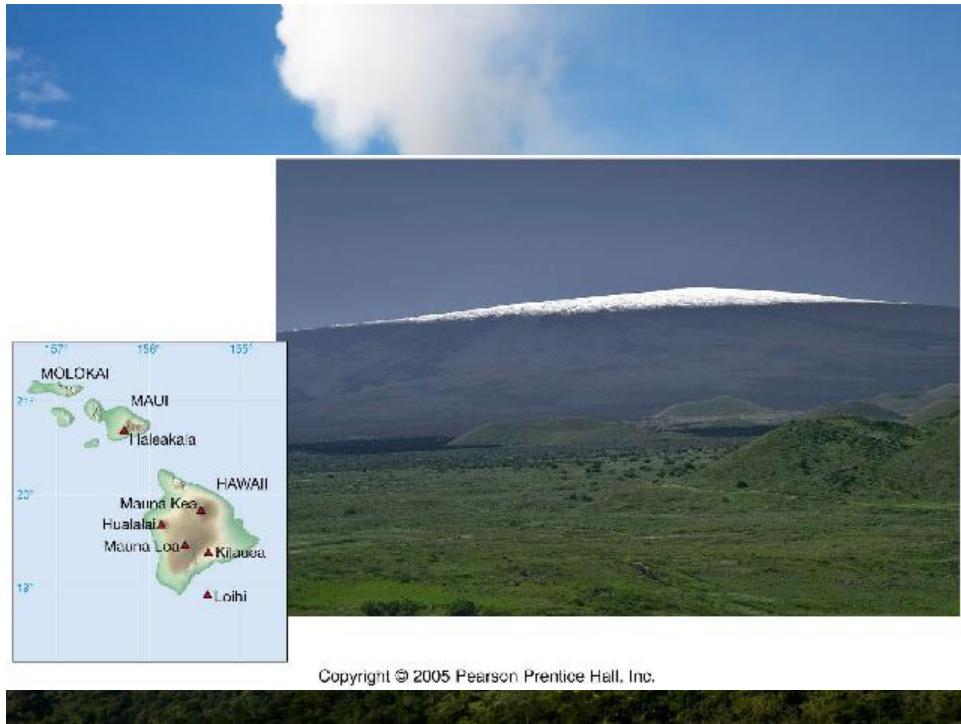


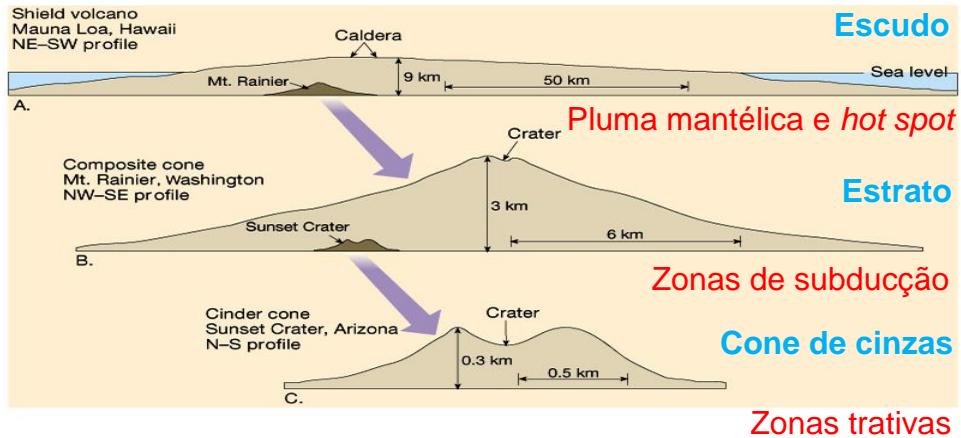


Copyright © 2005 Pearson Prentice Hall, Inc.



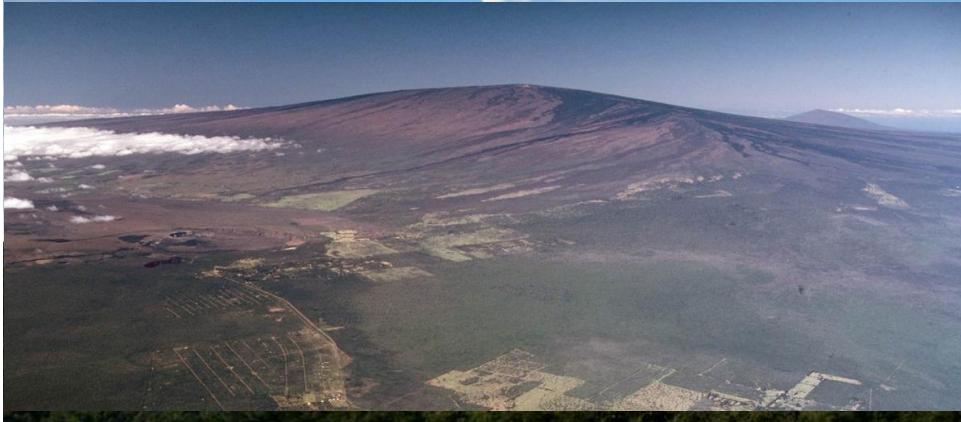


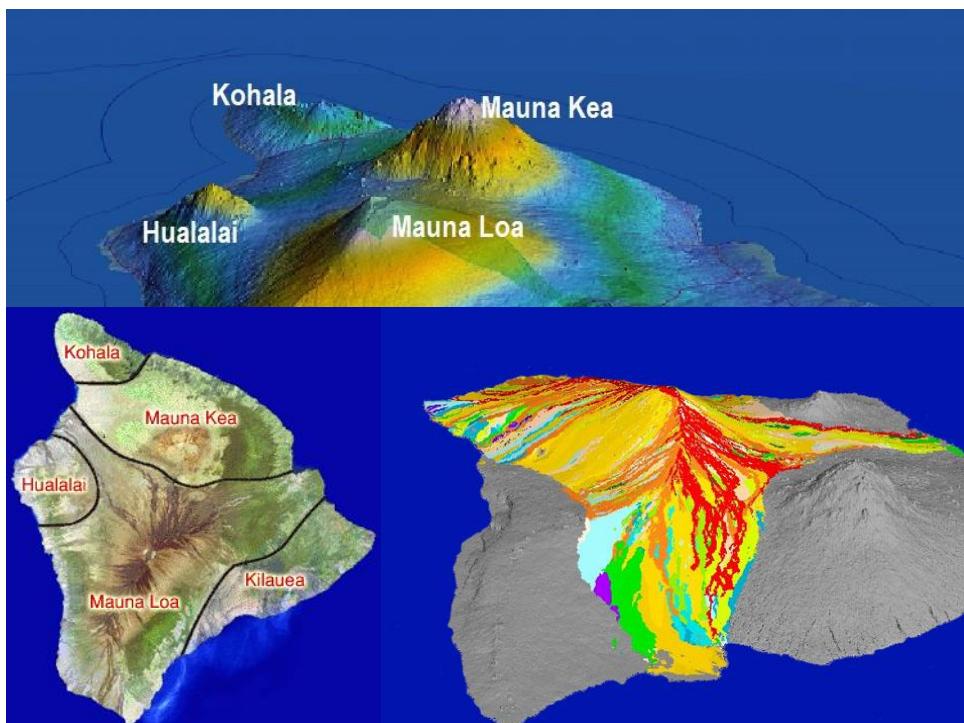
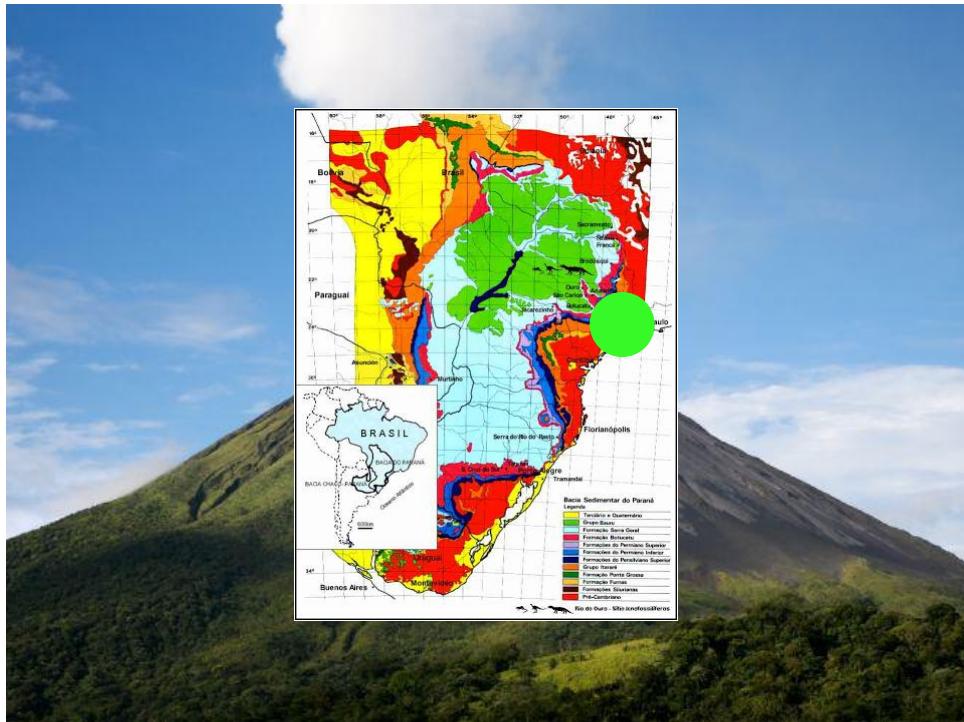
Dimensões dos principais tipos de vulcões

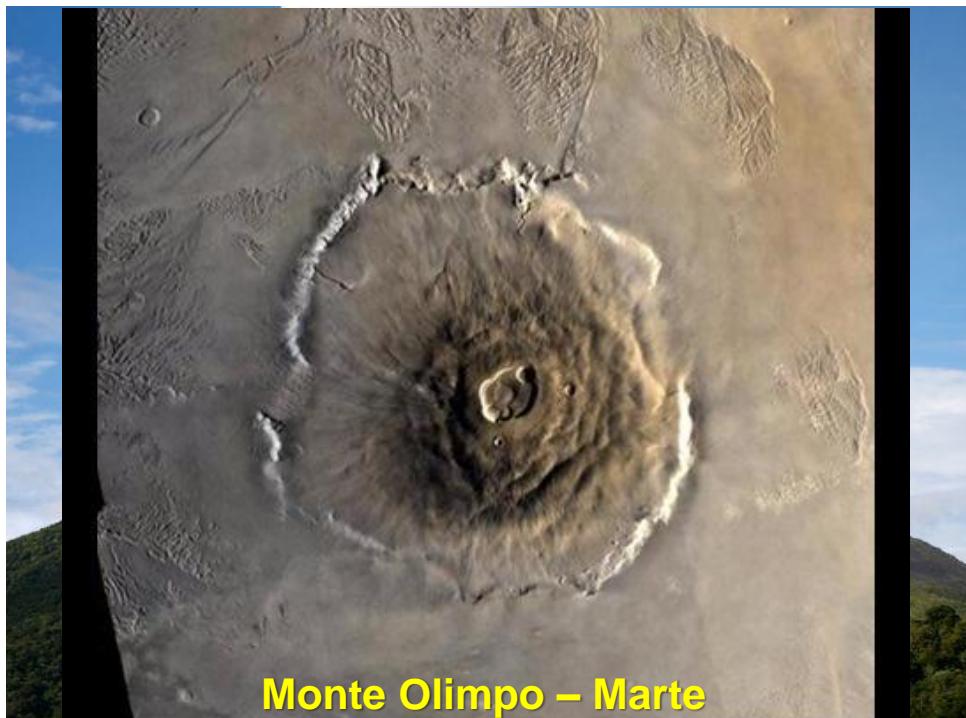


Mauna Loa, Hawai

- 120 x 103 km em planta - (Ilha do Hawai - 250 x 100 km)
- 4,17 km de altura da superfície
- + 5 km até o fundo do mar = 9,17 km



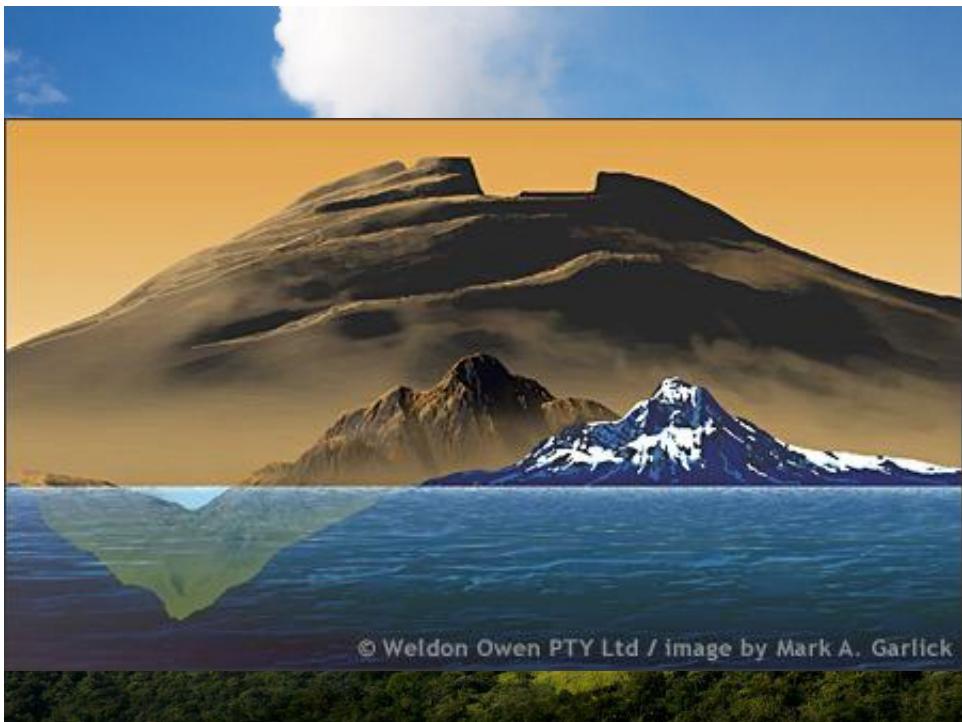
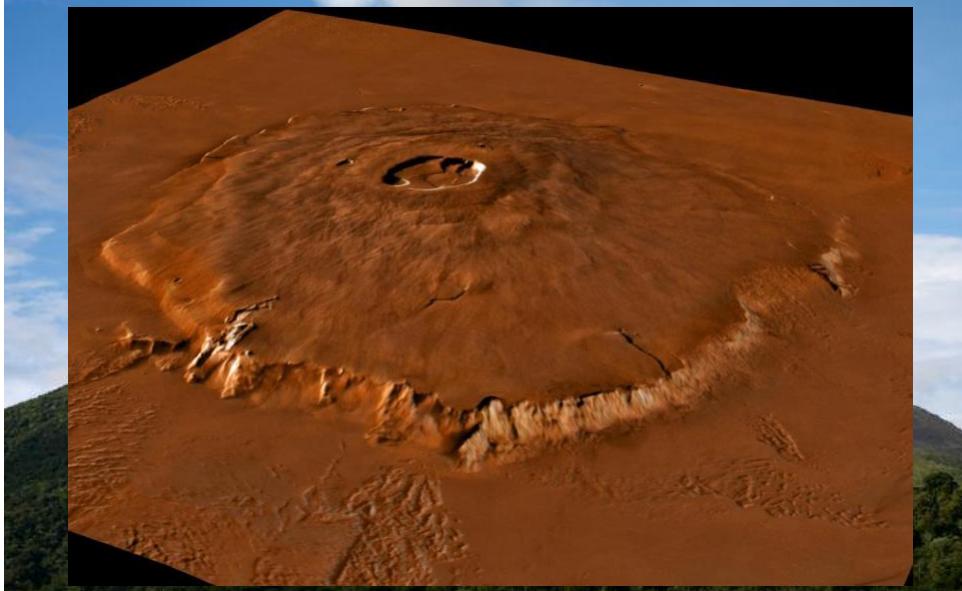




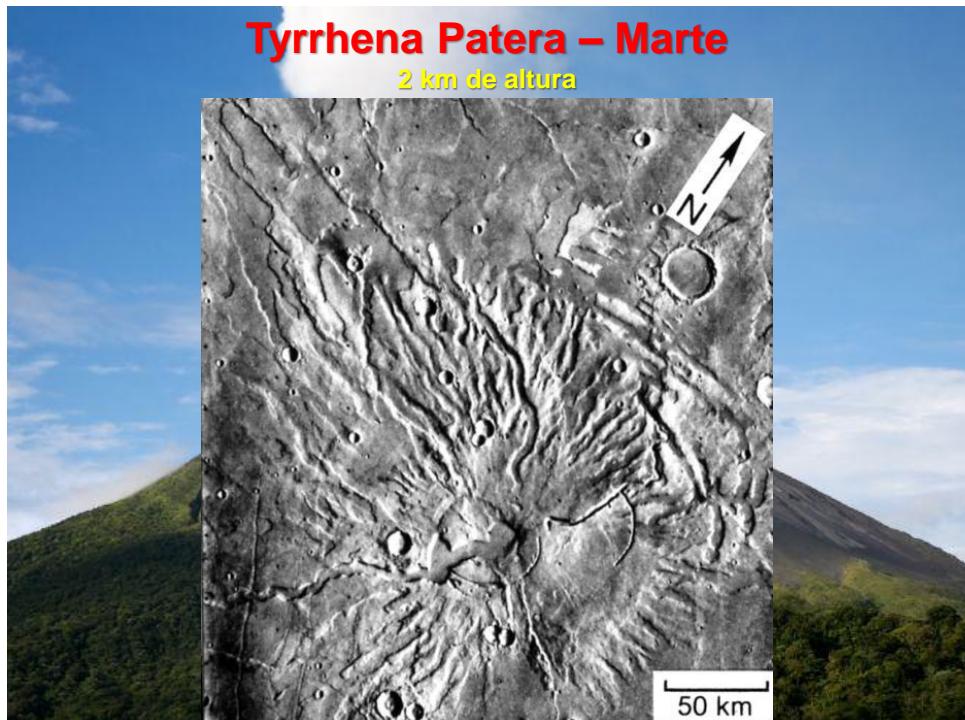
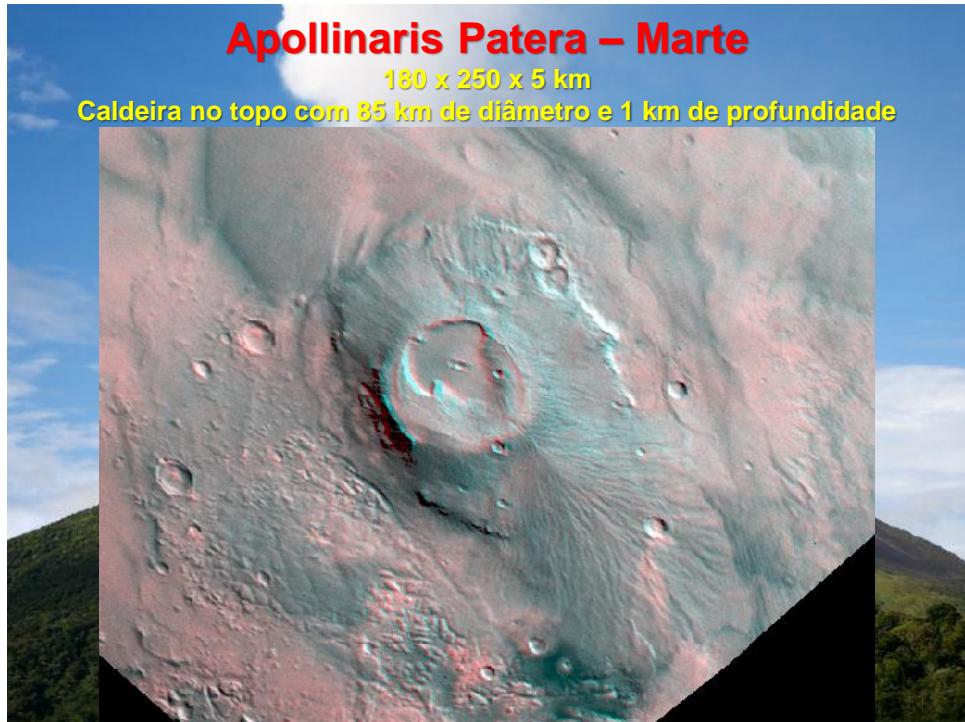
Monte Olimpo – Marte

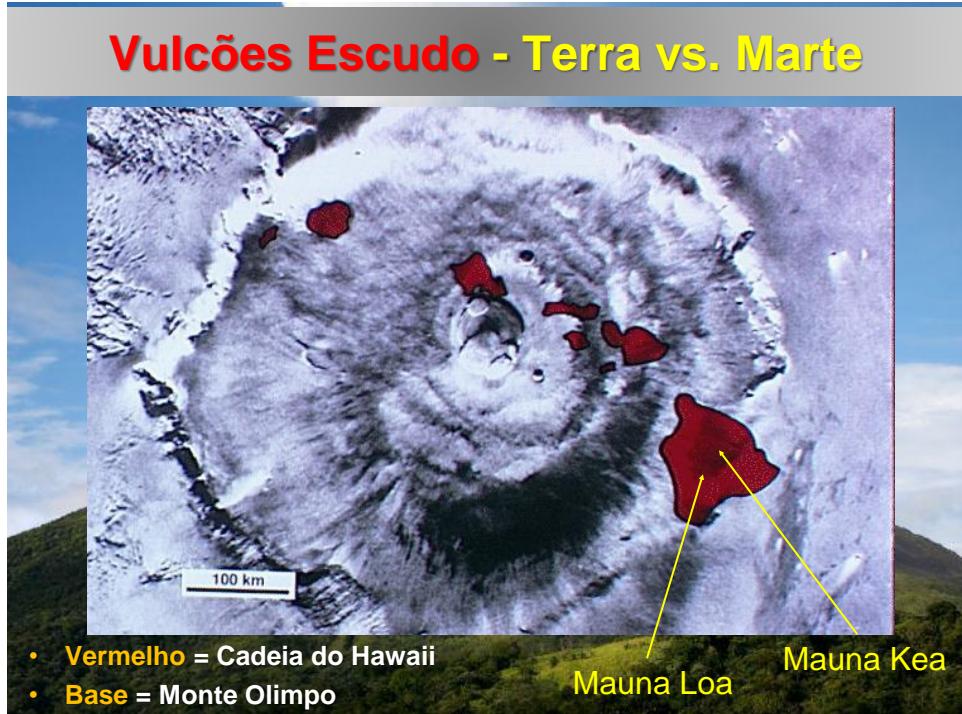
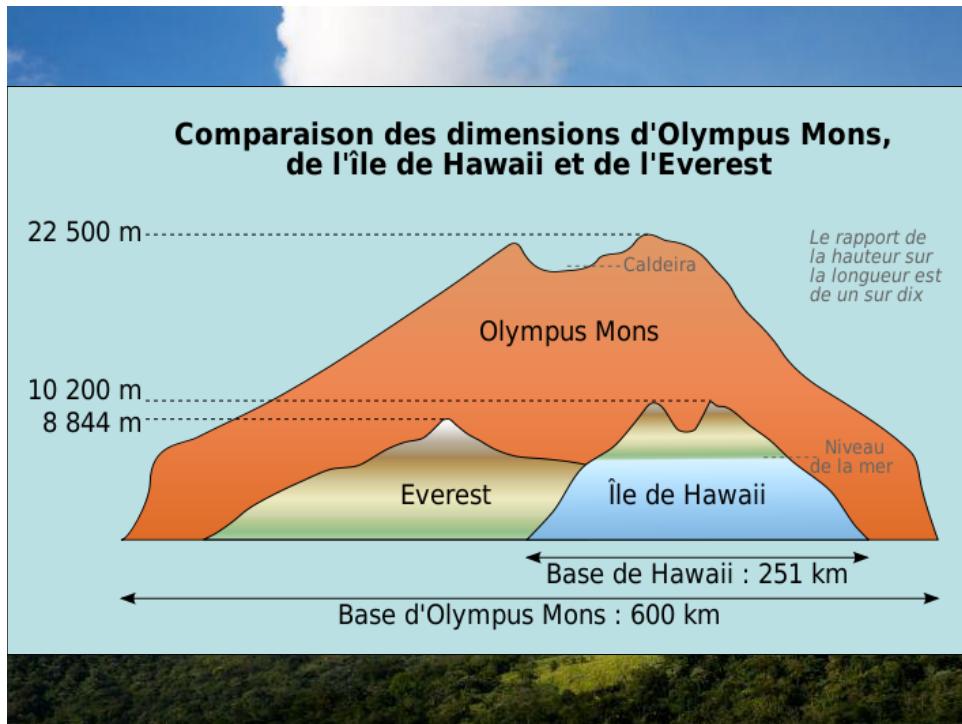
Monte Olimpo – Marte

624 km de diâmetro e 27 km de altura



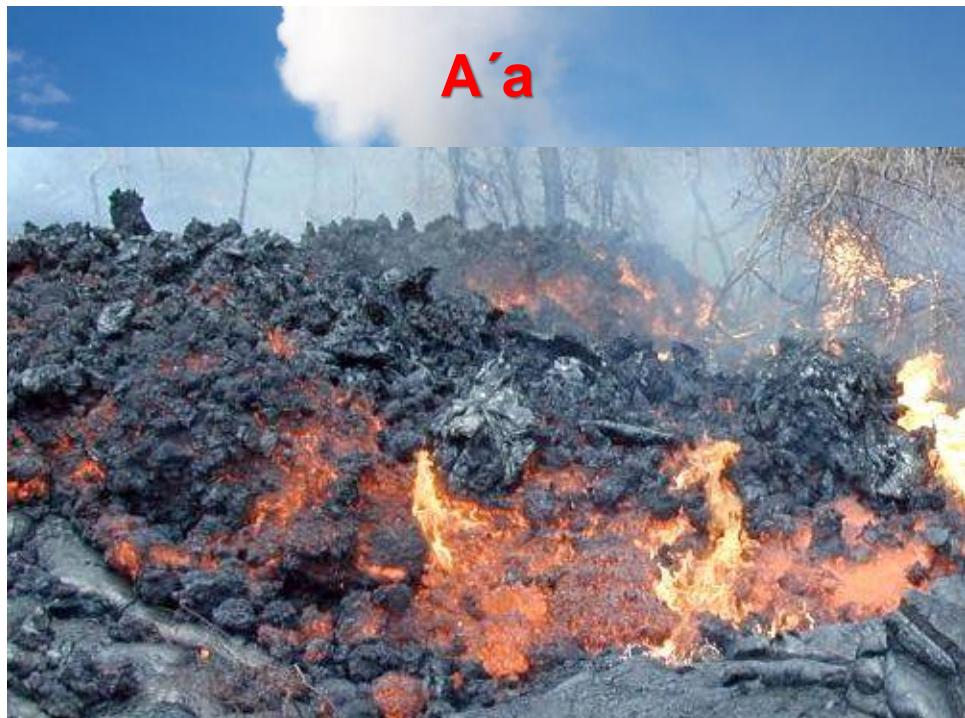
© Weldon Owen PTY Ltd / image by Mark A. Garlick





Tipos de lava basáltica

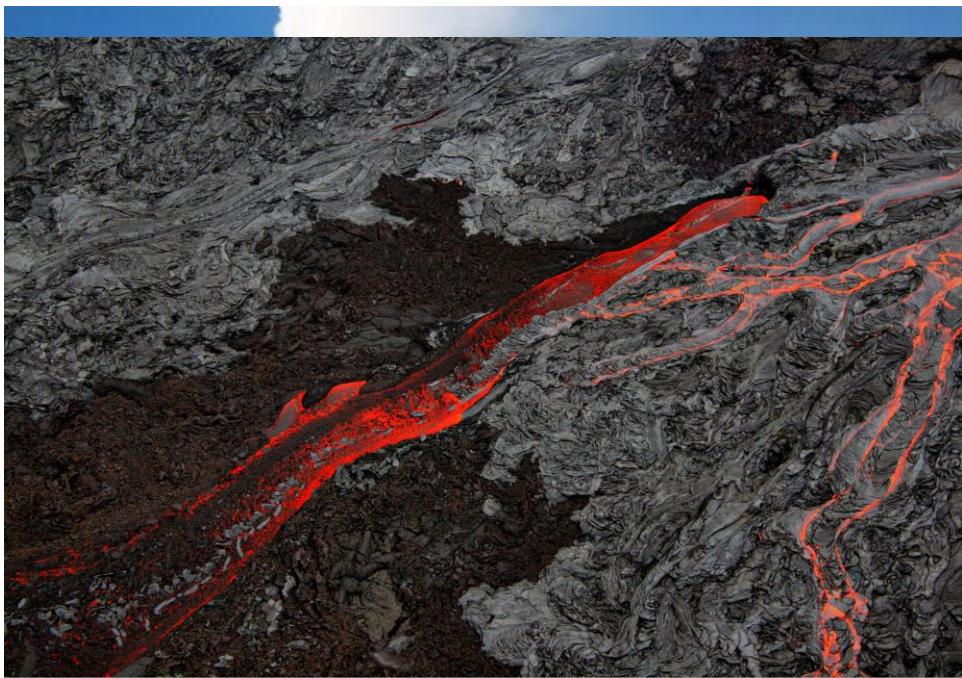
- A'a: derrames espessos e bem definidos
- Pahoehoe: derramas com fina crosta rugosa
- Pillow lava: derrames subaquáticos com tubos que resultam em formas arredondadas nos corte perpendiculares
- Lava Blocosa: lava mais fria, com formas irregulares quando consolidada



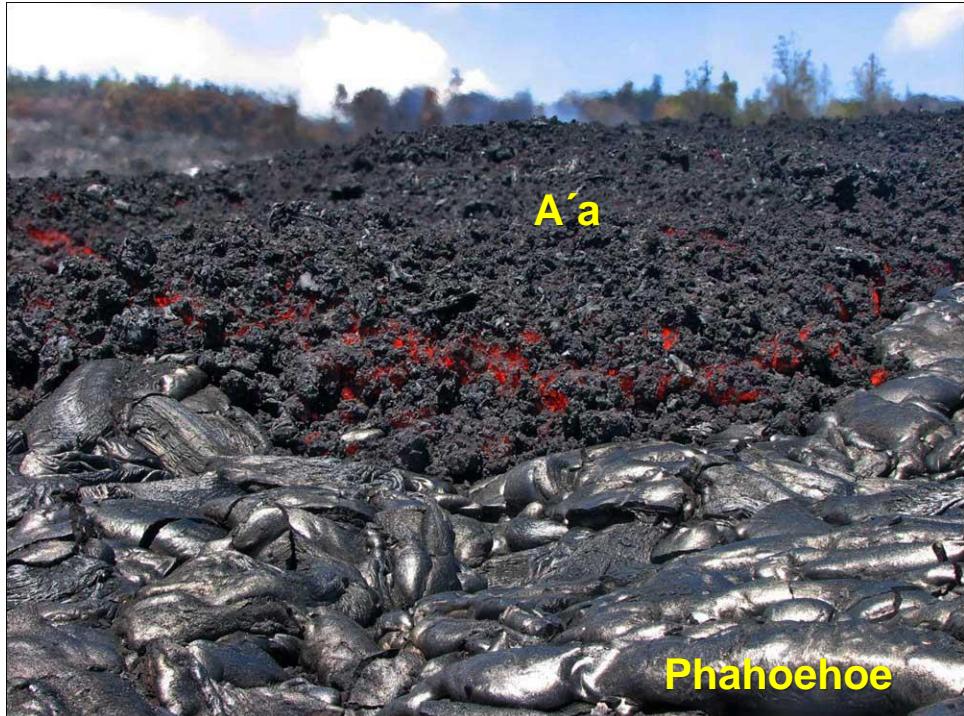


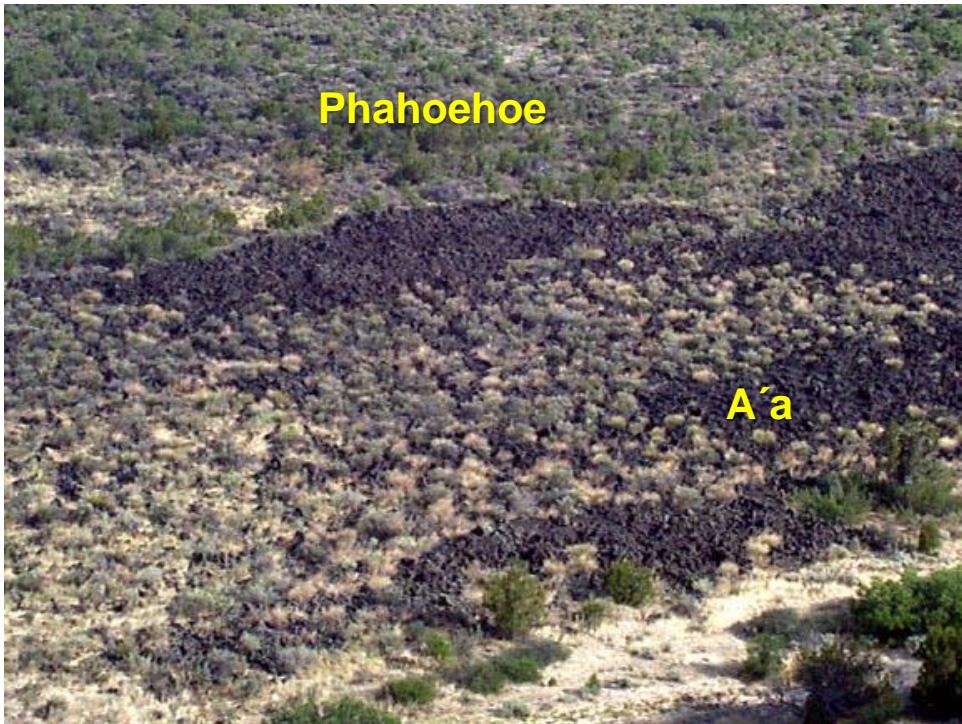


Lava. Ropy pahoehoe. Kilauea Volcano, Hawaii. 06-11-1995. Tari Noelani Matlox, USGS



By Brocken Inaglory - Own work, CC BY-SA 3.0, <https://commons.wikimedia.org/w/index.php?curid=4401455>

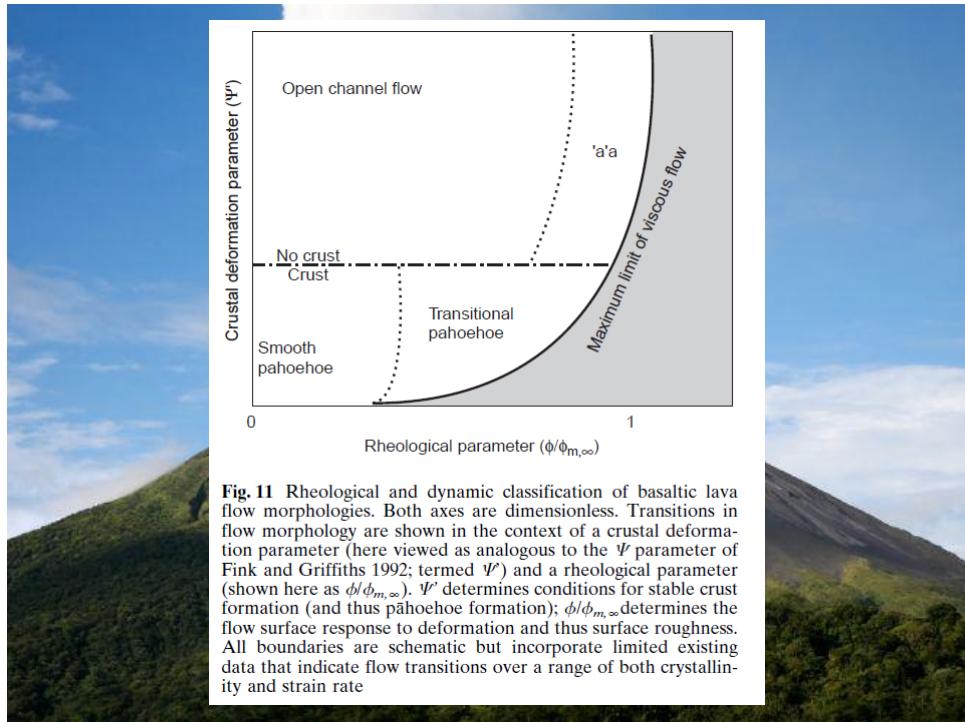


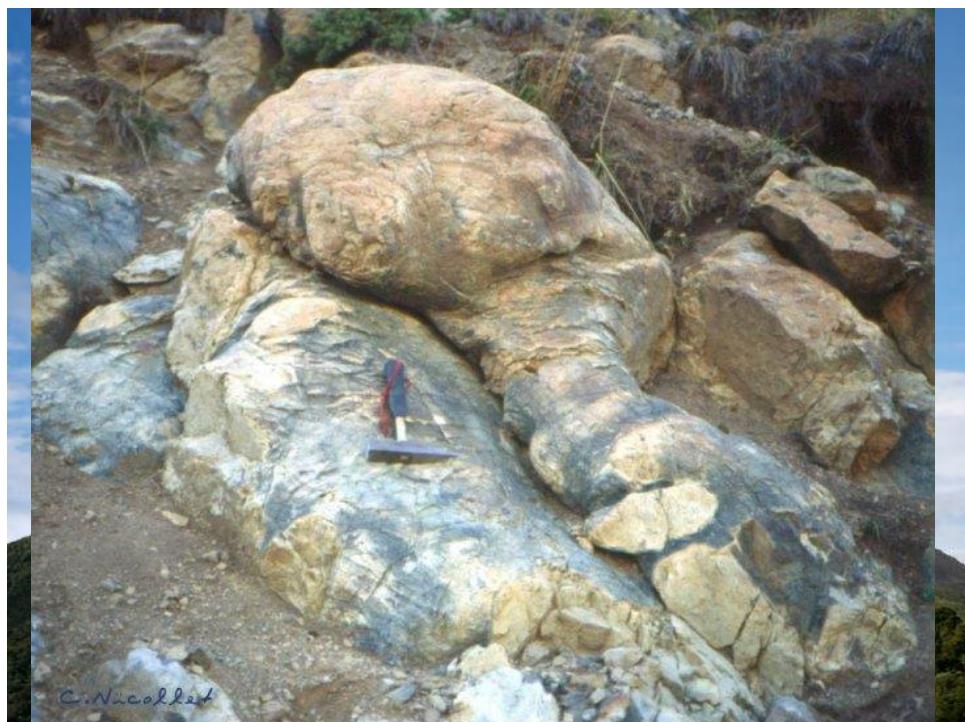
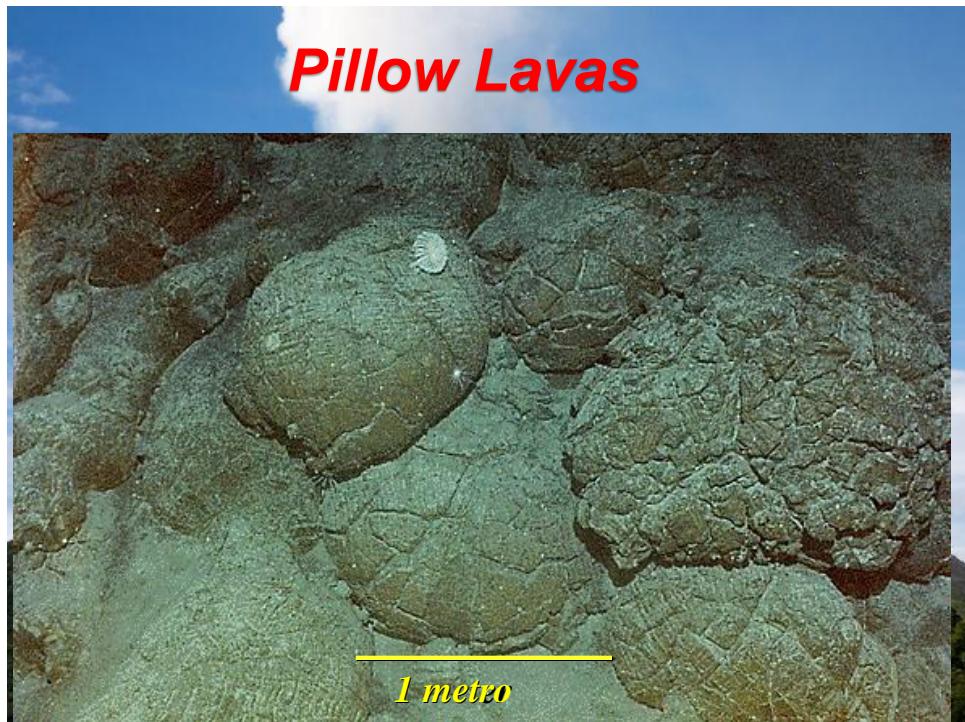


Lava Blocosa (*Blocky lava*)







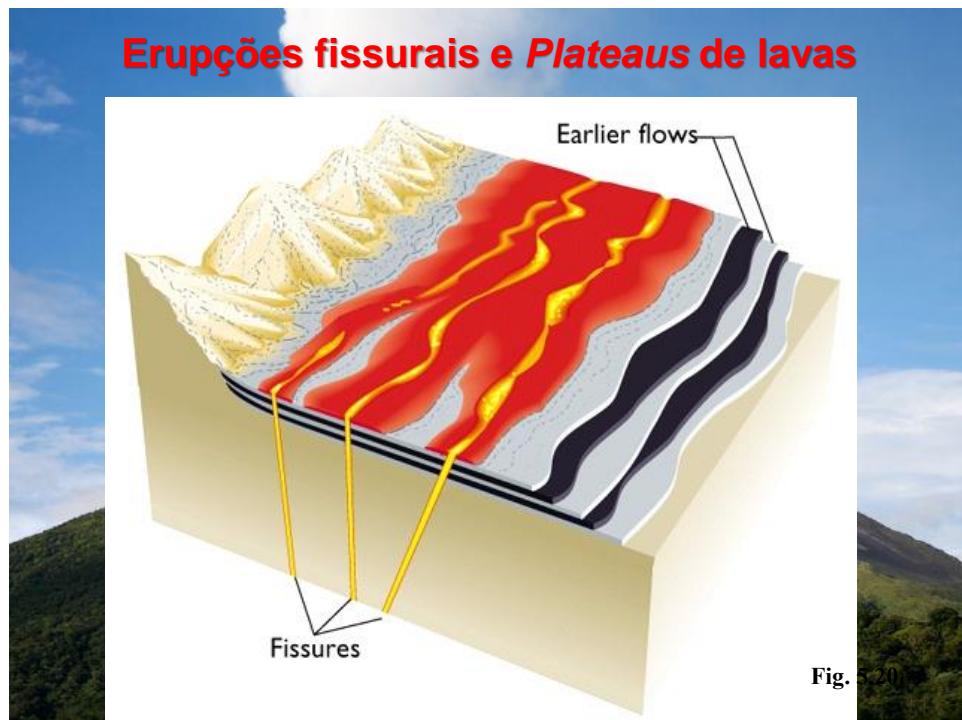
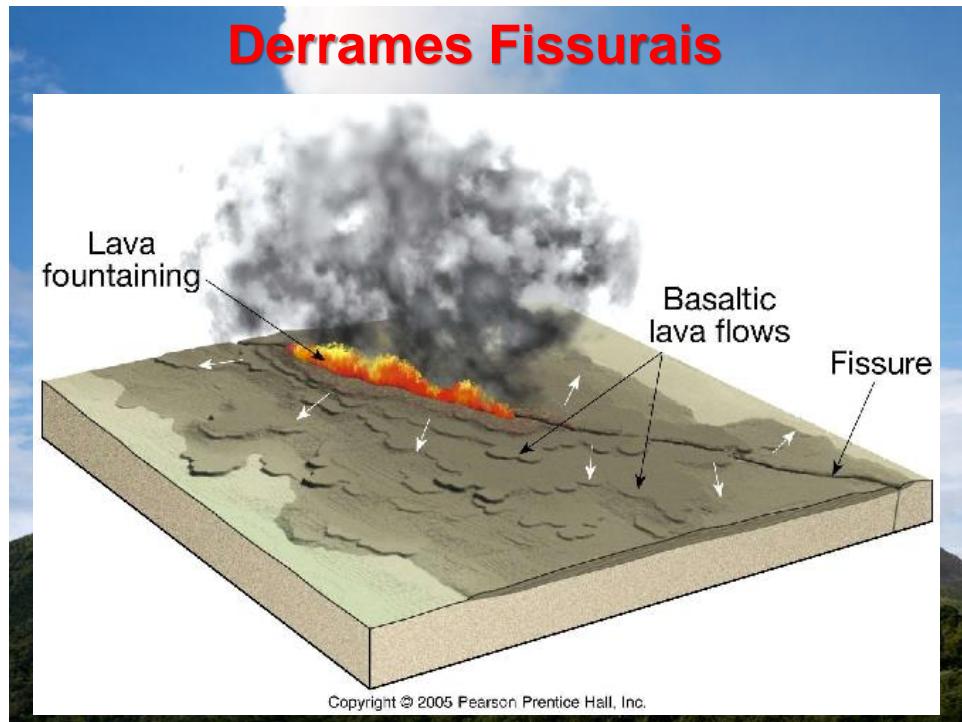






Erupções Fissurais

- São muito grandes, formam lençóis de lavas a partir de grande fendas, com diversos vulcões ao longo da zona de extrusão
- Forma principalmente derrames de basaltos
- Exemplos: *Columbia river basalts*, Bacia do Paraná, Islândia



Erupção Fissural em 1971, Kilauea, Hawaii



Islândia

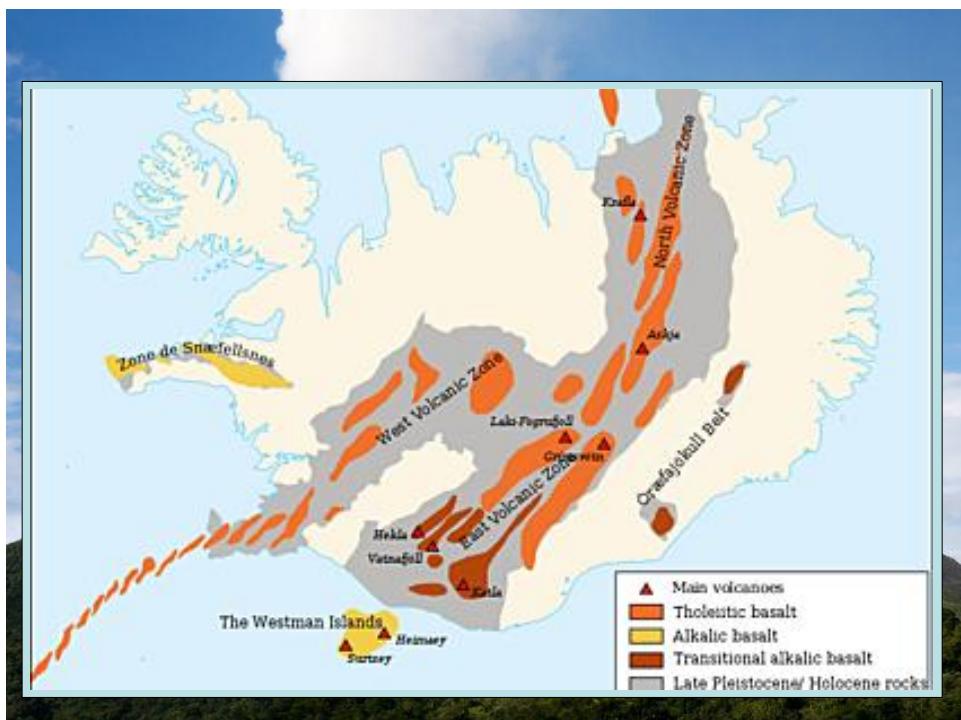


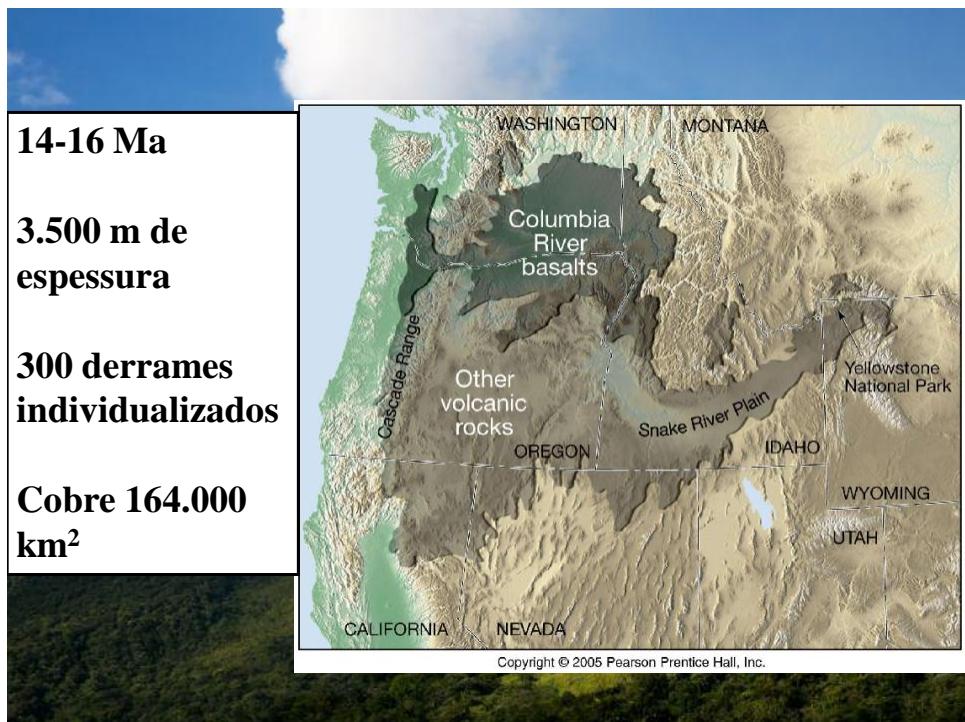
Islândia

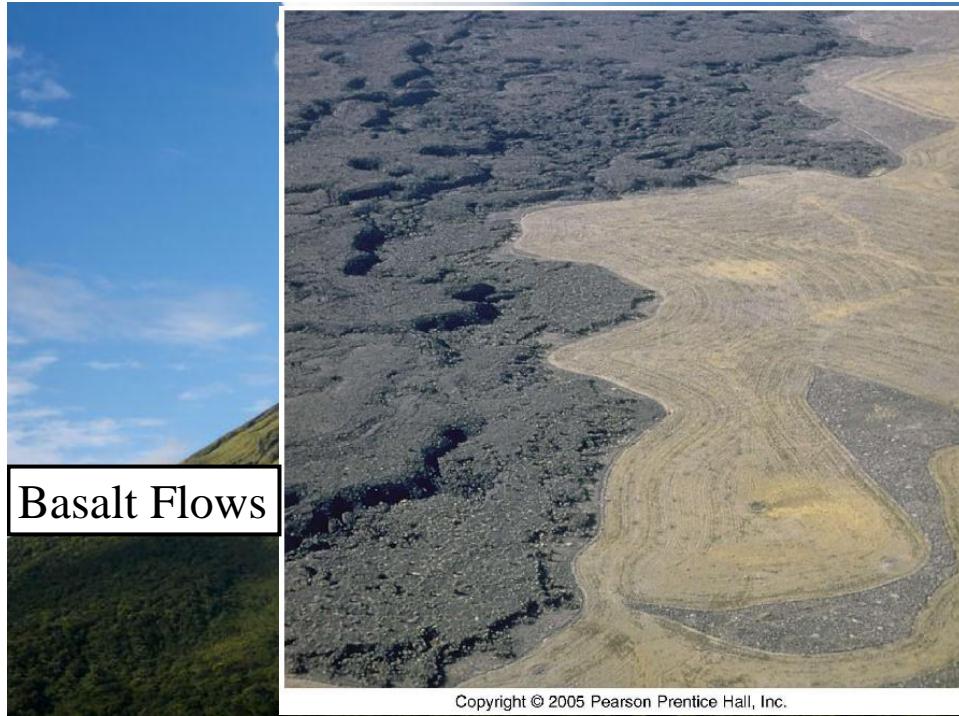


Islândia



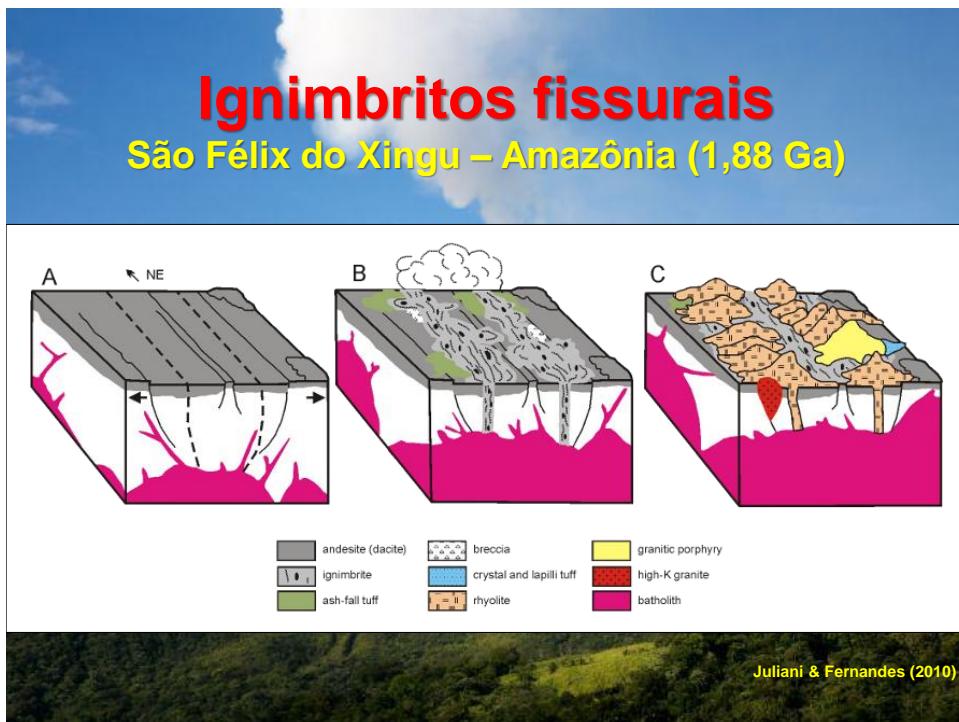
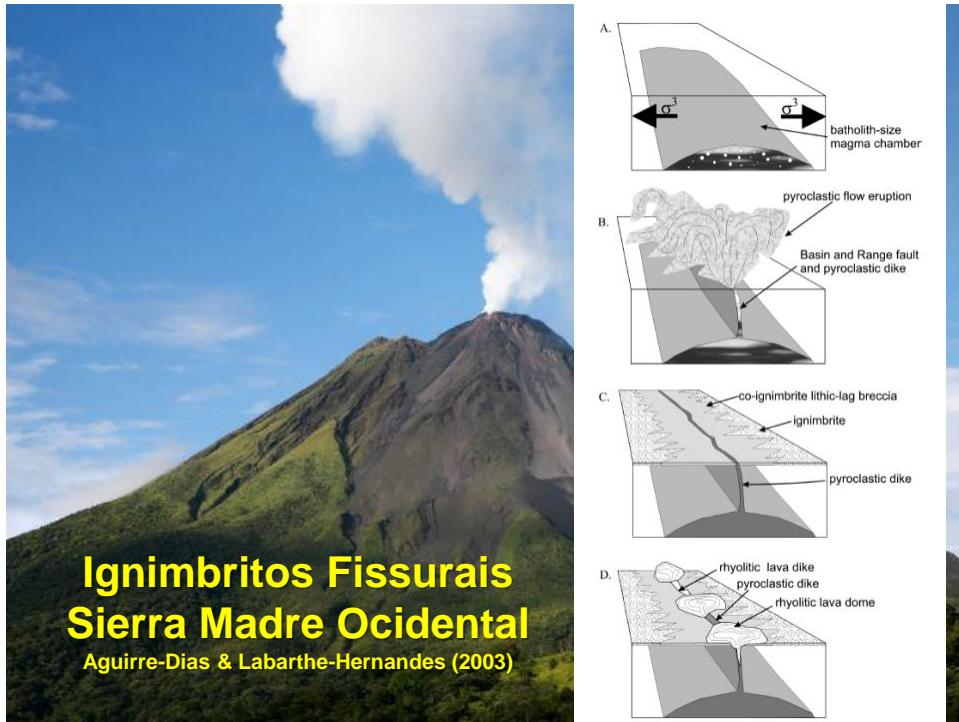






Columbia Plateau Flow Basalts





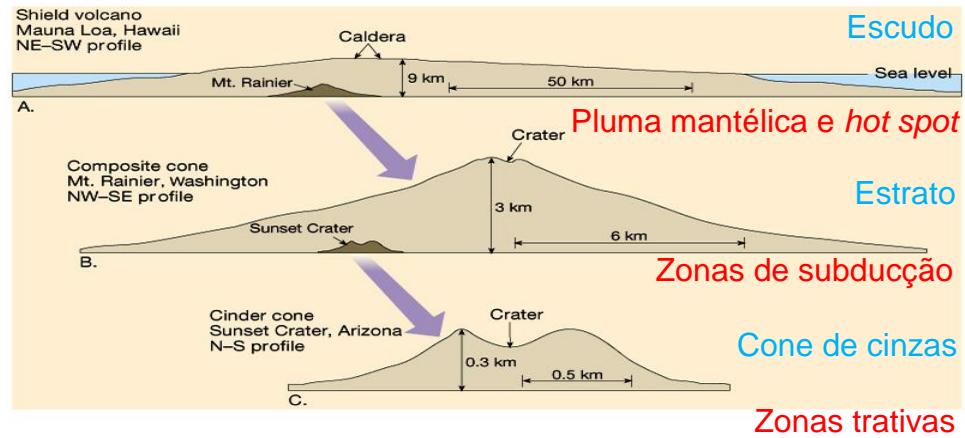


Volcanic Explosivity Index (VEI)

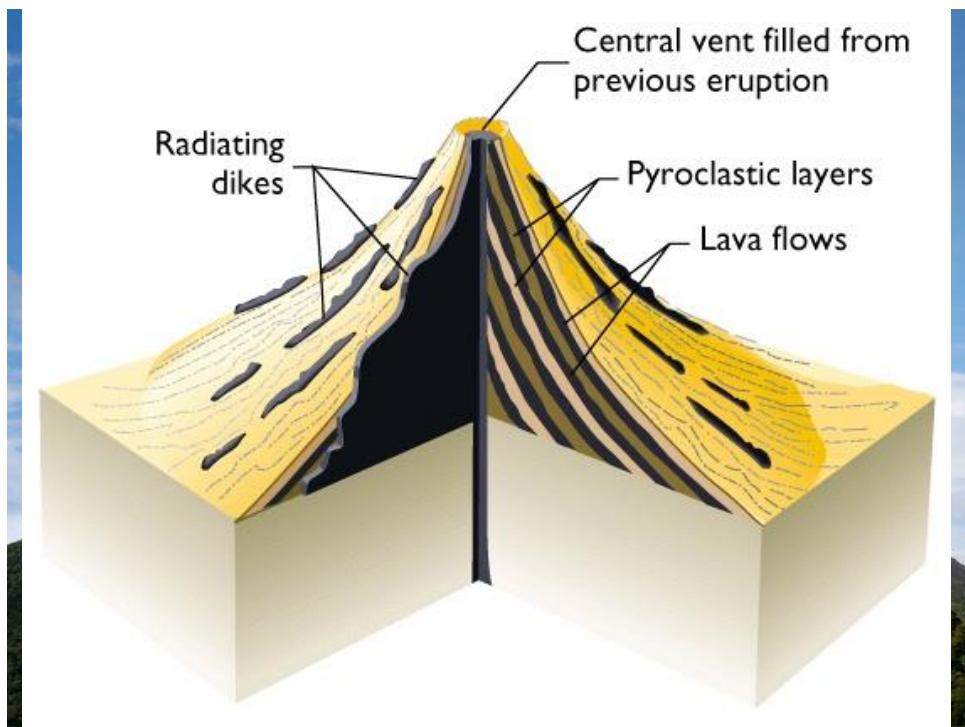
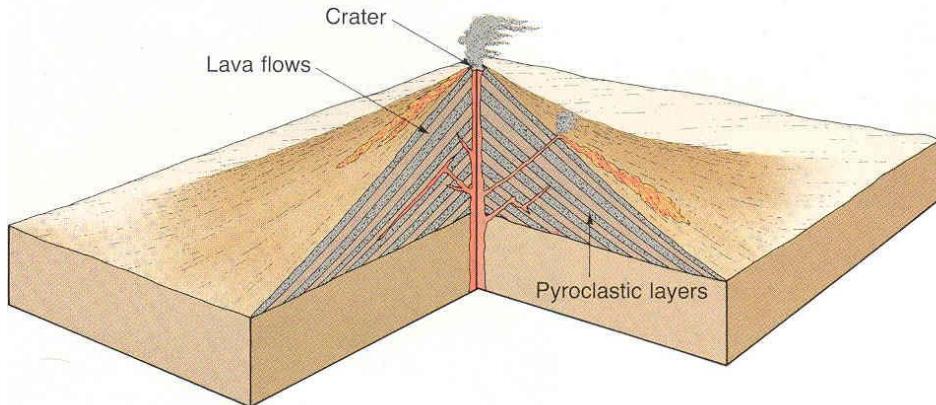
VEI	Description	Plume Height	Volume	Classification	How often	Example
0	non-explosive	<100 m	1,000 m ³	Hawaiian	daily	Kilauea
1	gentle	100-1000 m	10,000 m ³	Haw/Strombolian	daily	Stromboli
2	explosive	1-5 km	1,000,000 m ³	Strom/Vulcanian	weekly	Galeras, 1992
3	severe	3-15 km	10,000,000 m ³	Vulcanian	yearly	Ruiz, 1985
4	cataclysmic	10-25 km	100,000,000 m ³	Vulc/Plinian	10's of years	Galunggung, 1982
5	paroxysmal	>25 km	1 km ³	Plinian	100's of years	St. Helens, 1981
6	colossal	>25 km	10 km ³	Plin/Ultra-Plinian	100's of years	Krakatau, 1883
7	super-colossal	>25 km	100 km ³	Ultra-Plinian	1000's of years	Tambora, 1815
8	mega-colossal	>25 km	1,000 km ³	Ultra-Plinian	10,000's of years	Yellowstone, 2 Ma

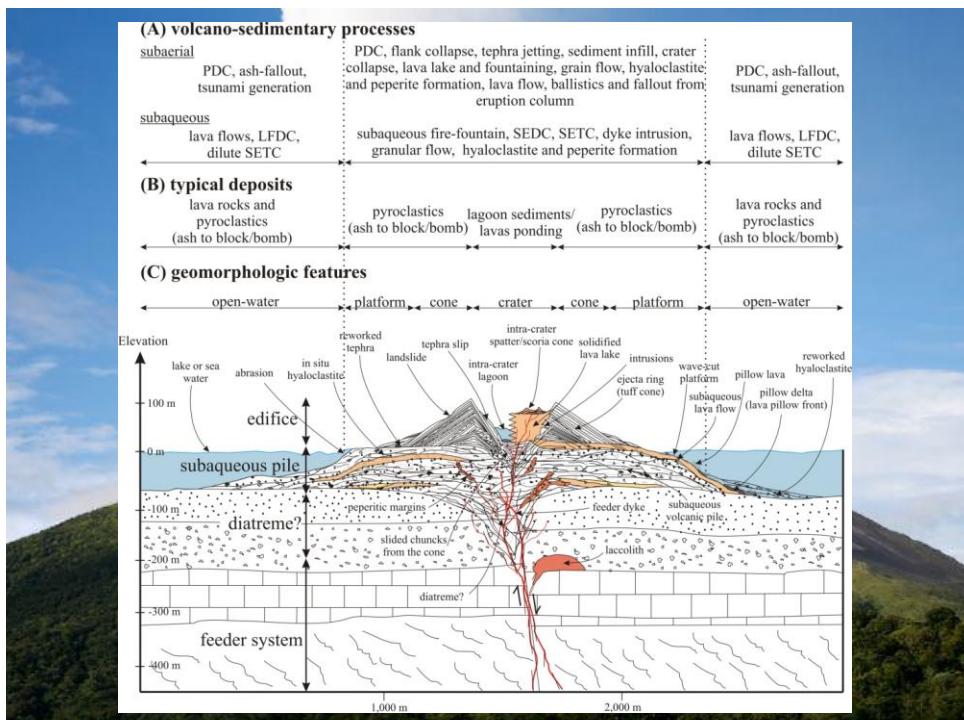
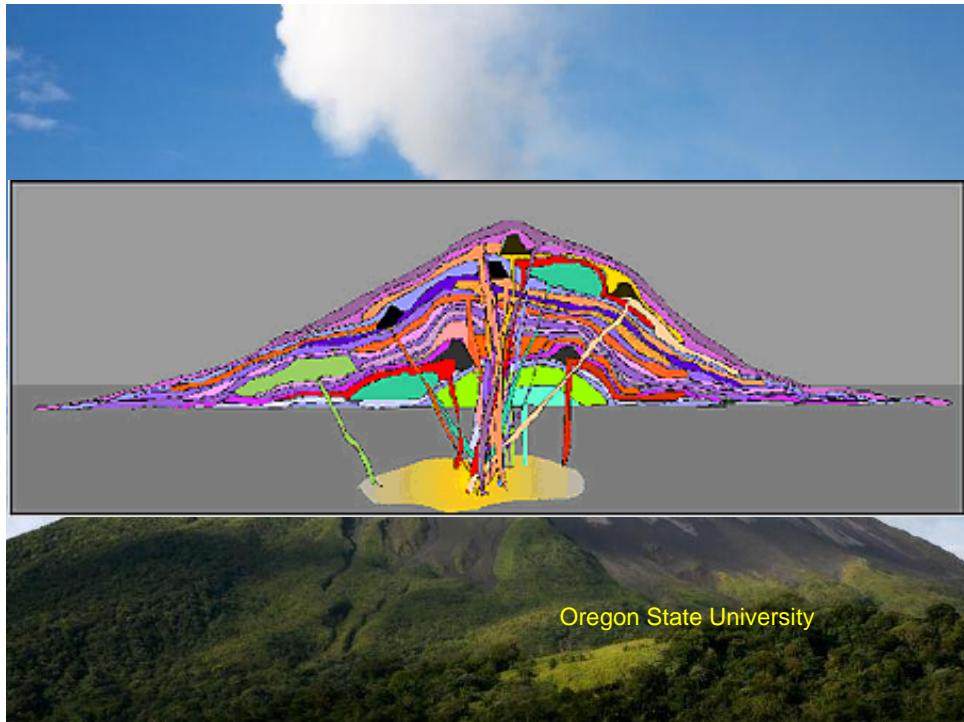


Dimensões dos principais tipos de vulcões



Estrato-vulcões (ou vulcões compostos)





Vulcão Arenal – Costa Rica



Fujiyama (Japão)



Monte Rainier (WA-EUA)



Monte Rainier - cidade de Tacoma (EUA)



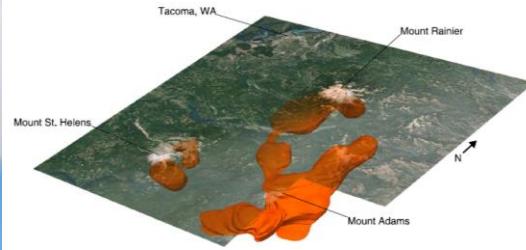
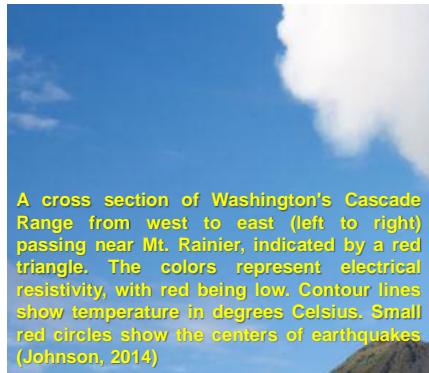
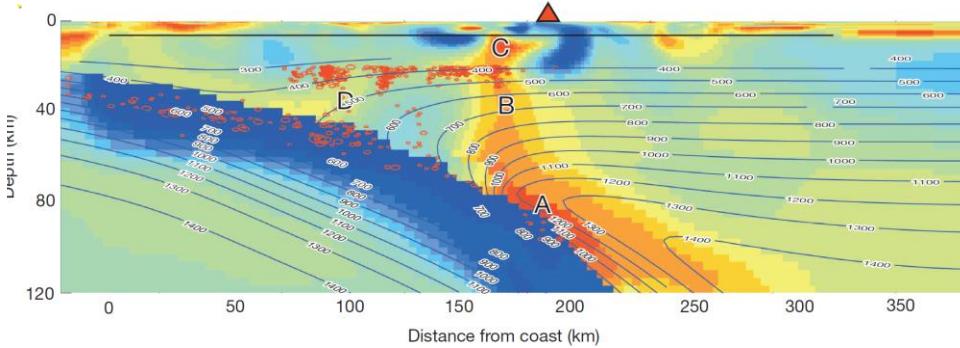


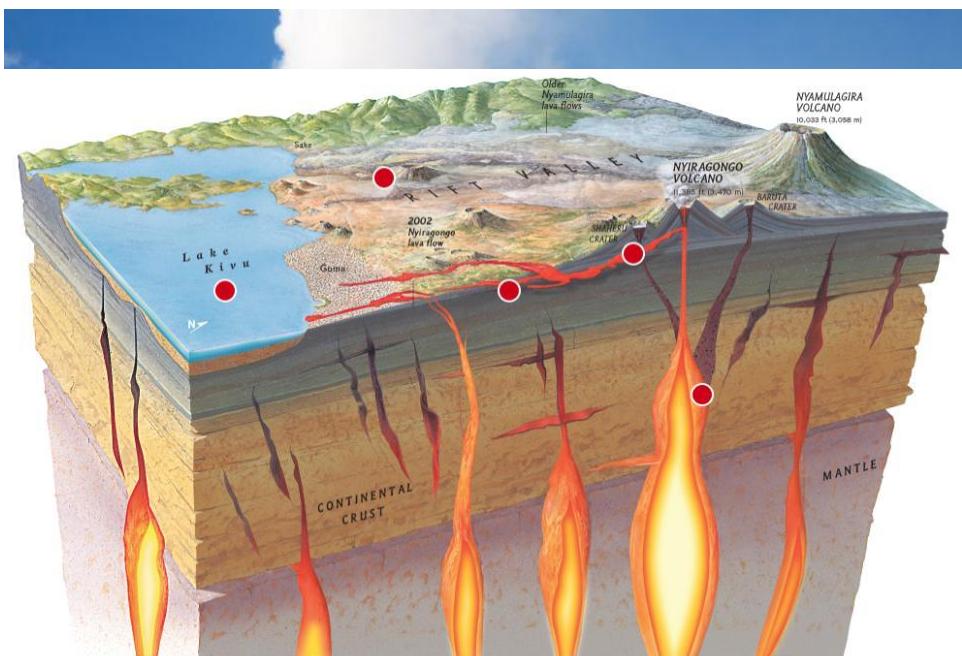
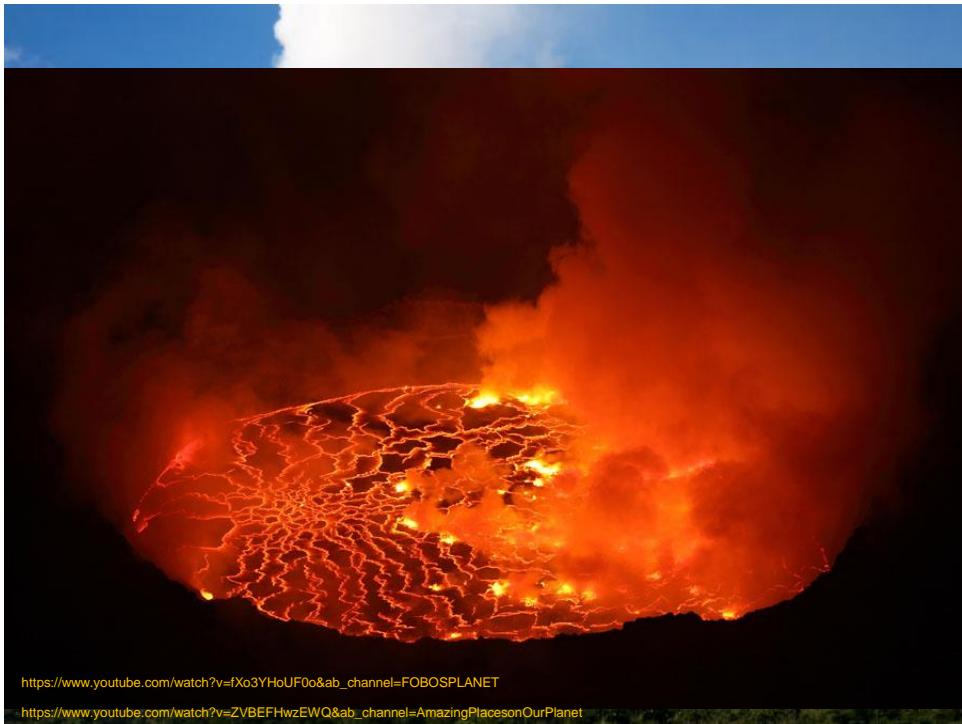
Figure 5. Aerial Image of Southwest Washington and 7% Slow V, isosurface (~6% melt). The SWC-LVZ defined by the >7% slow V, isosurface, equivalent to ~6% partial melt (volume/melt fractions calculations exclude the WRSZ and Mount Rainier magma reservoir). Additional slow bodies are shown for Mount Rainier's/St. Helen's magmatic system, the WRSZ, and the SHZ. The city of Tacoma Washington is seen to the northwest. Imagery available from the U.S. Geological Survey. Figure made with Generic Mapping Tools⁴⁶ (GMT) v5.2.



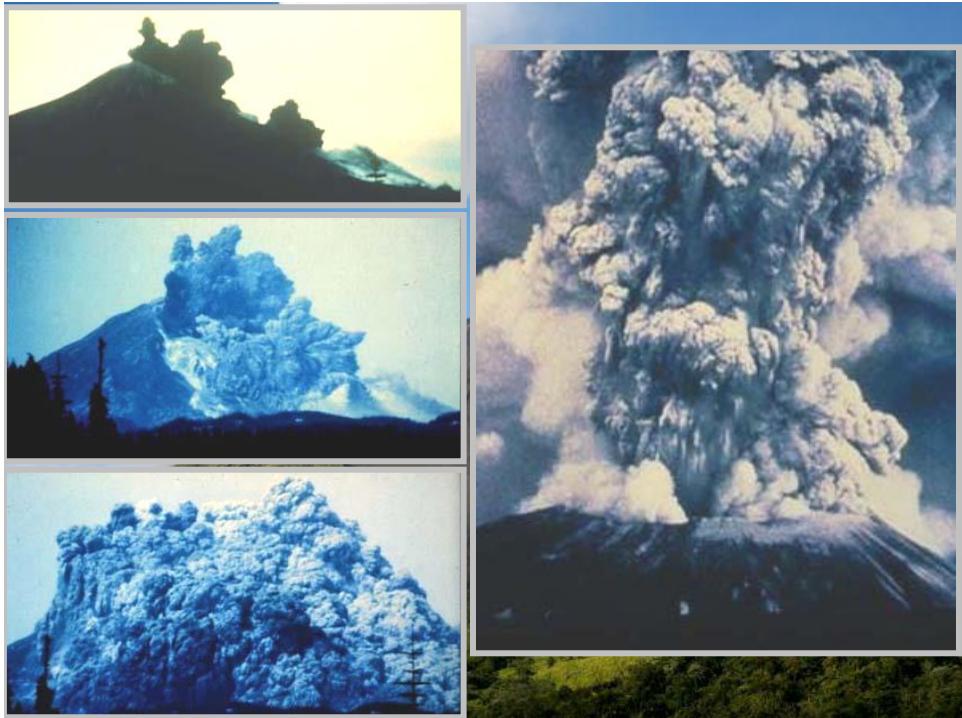
Lago de Lava (*Lava lake*)

Nyiragongo (República do Congo)





WILLIAM E. MCNAULY AND LISA R. RITTER, NDM STAFF ART: GARY HINCKS
SOURCES: DAVID TEDESCO, UNITED NATIONS OFFICE FOR PROJECT SERVICES AND
SECOND UNIVERSITY OF NAPLES; KLAUS TIETZE, GAS BEARING LAKES AND OCEAN
BASINS CONSULTANCY, POT GMBH

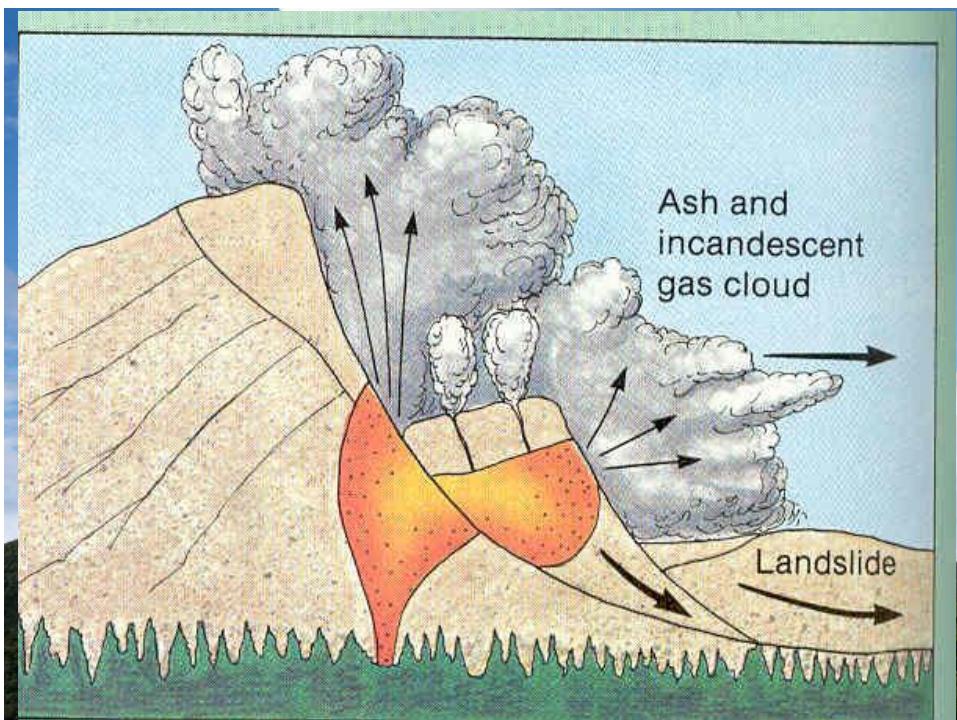
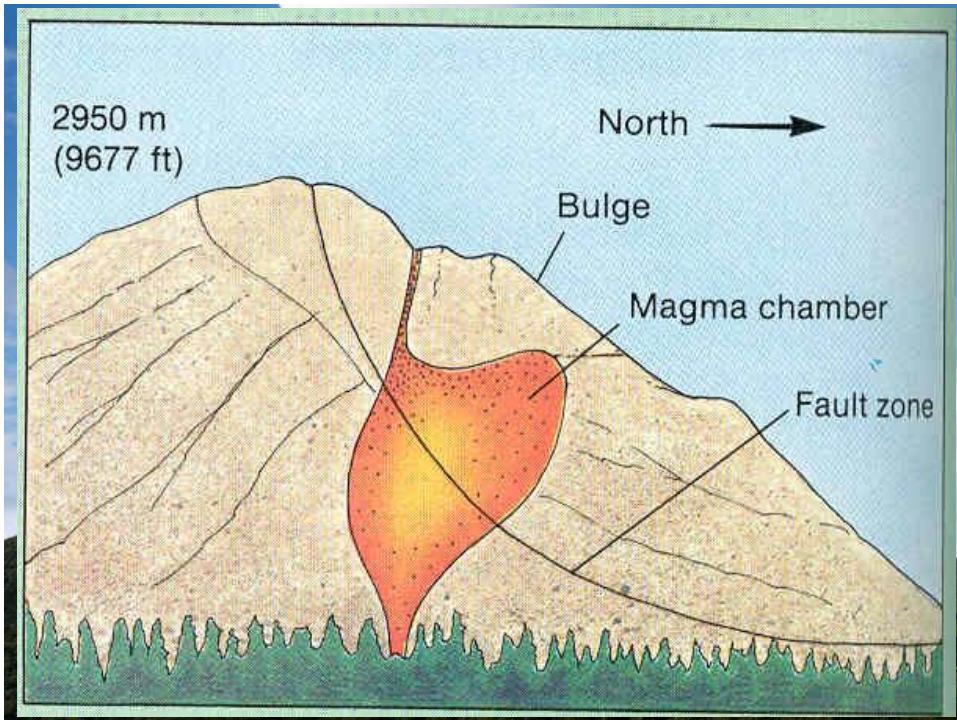


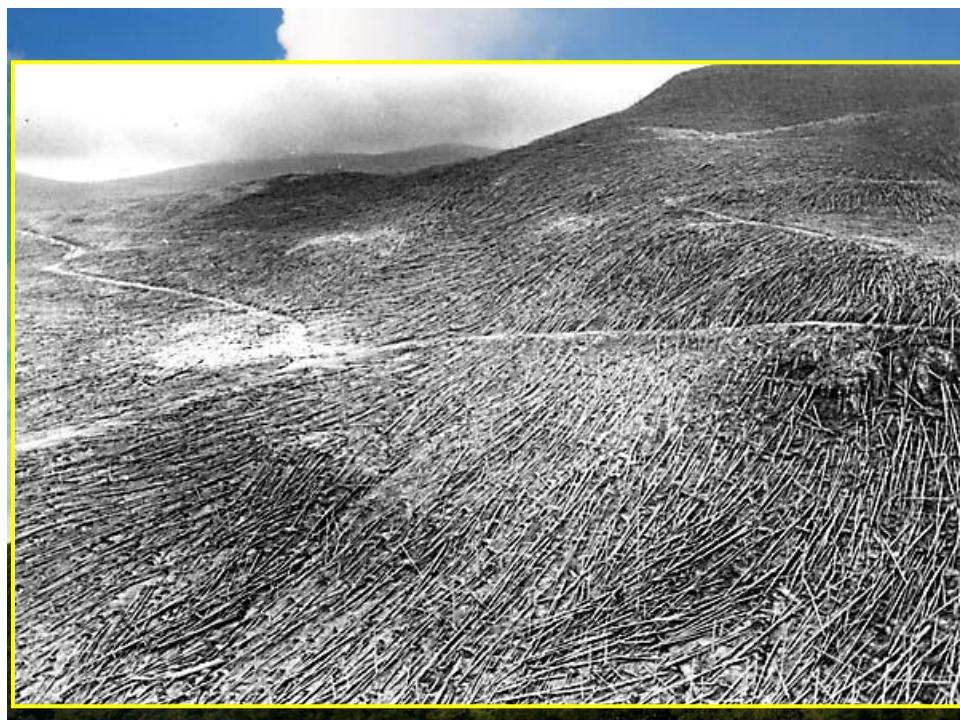
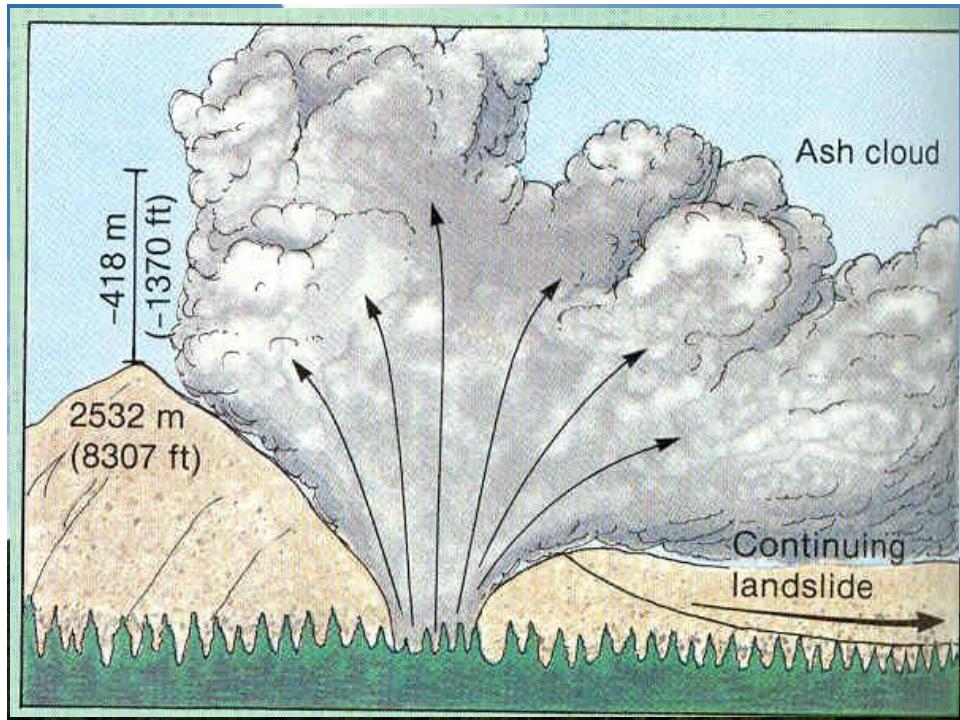


Depois de 1980



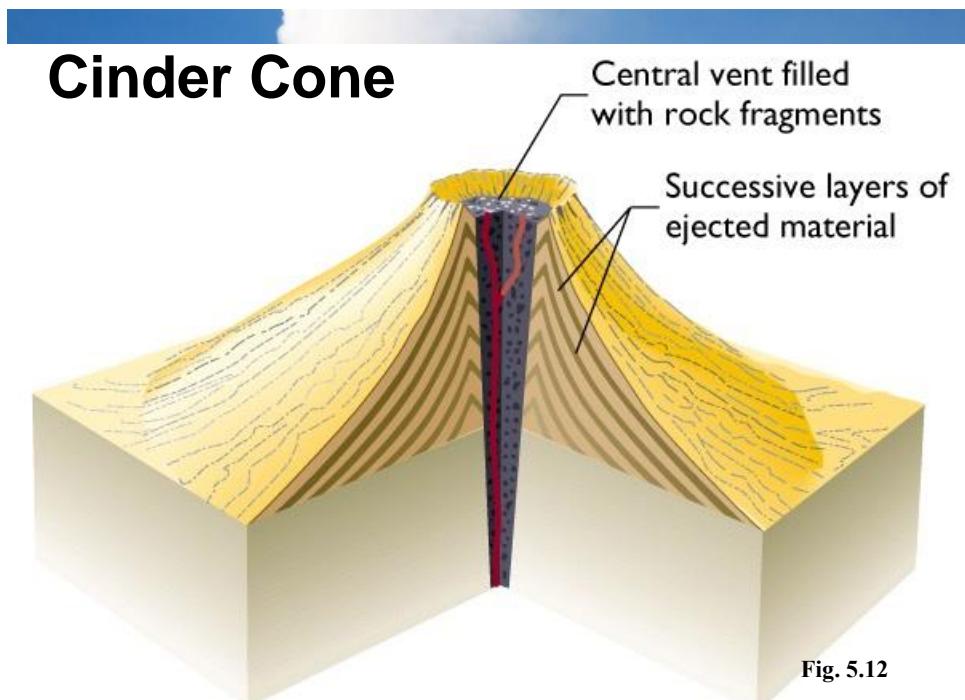
David Weintraub/Photo Researchers



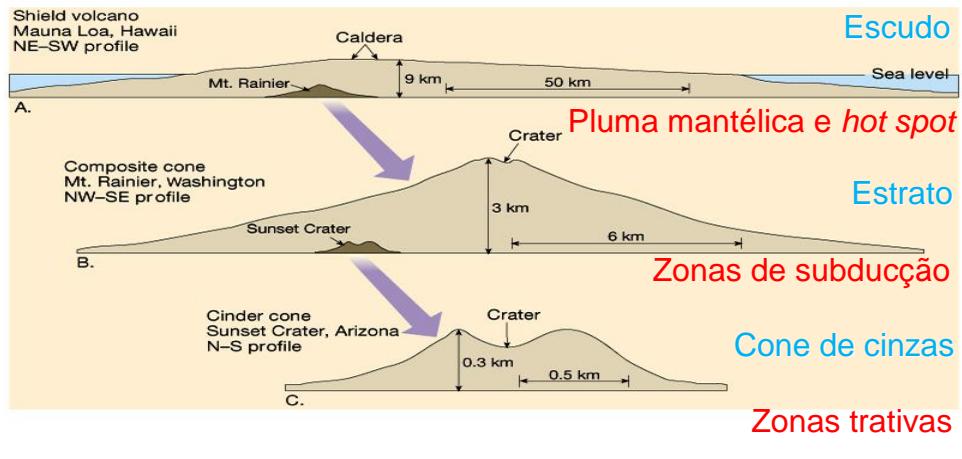








Dimensões dos principais tipos de vulcões



Paricutin (México)

Início da atividade em 1943,
alcançando 336 m de altura em 1952



Paricutín (México)



Mark Hurd Aerial Surveys

Cerro Negro
Cinder Cone

Managua,
Nicaragua
1968

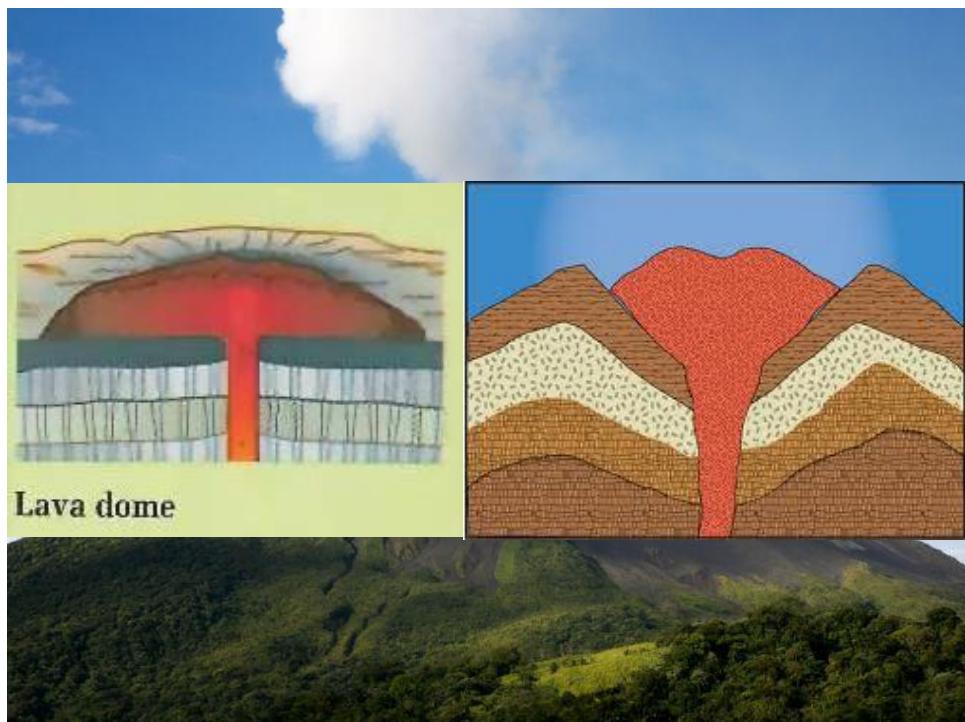


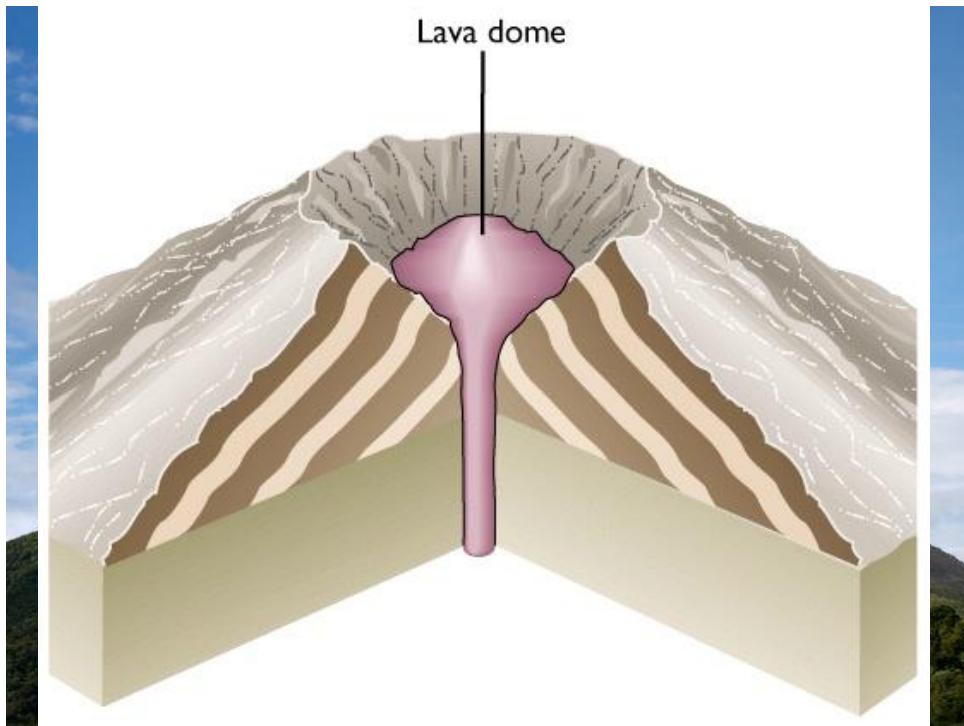
Sunset Crater (Arizona)



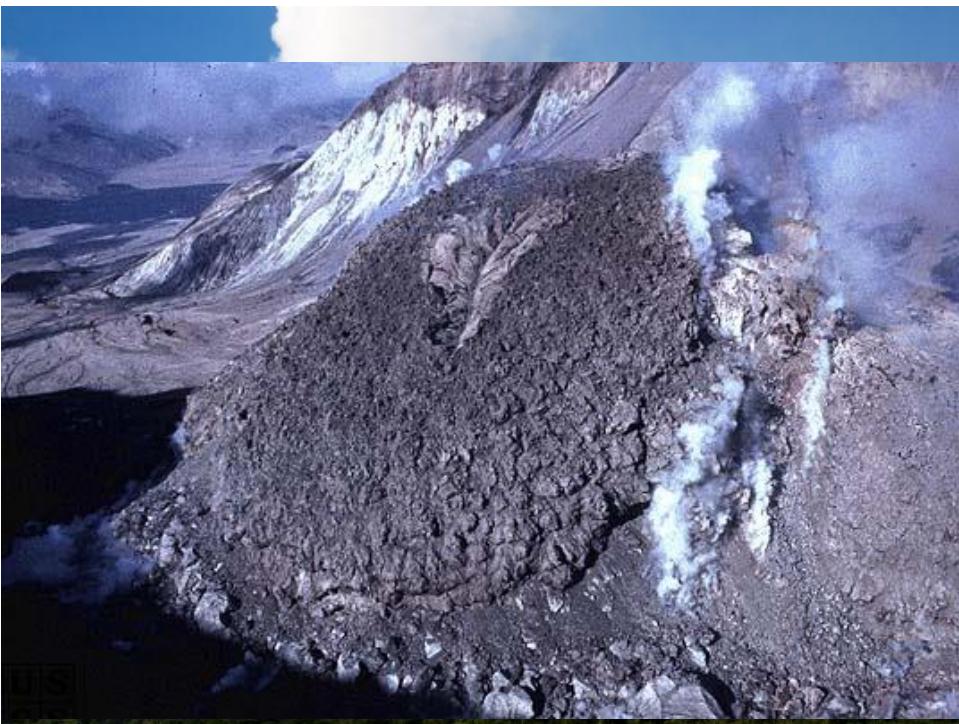
Sunset Crater in Arizona







Domo no Monte Santa Helena (300 x 34 m), com seis dias após o início da erupção



Domo vulcânico Kelud, Java, Indonésia.



Ngancar - East Java, Indonesia •

Inyo craters (California)



