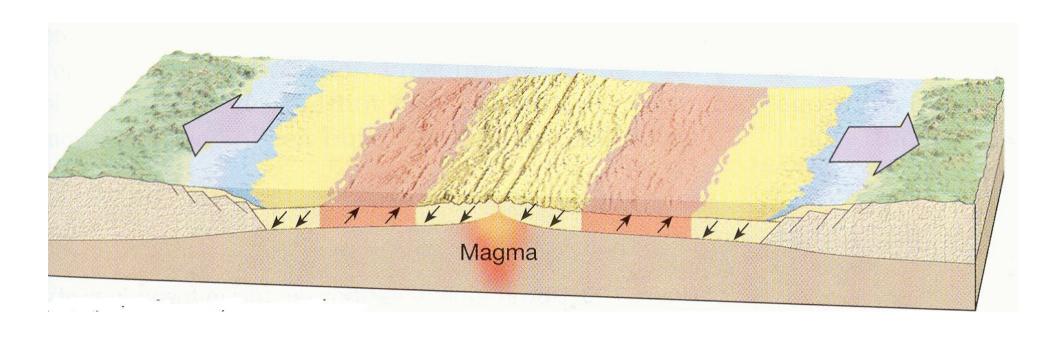
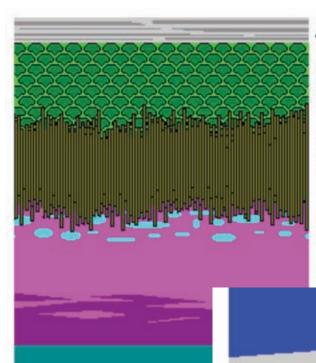


Oceanic lithosphere formed at MOR





Abyssal Sediment

Pillow Basalt

Sheeted Dike Complex

Leucogabbro

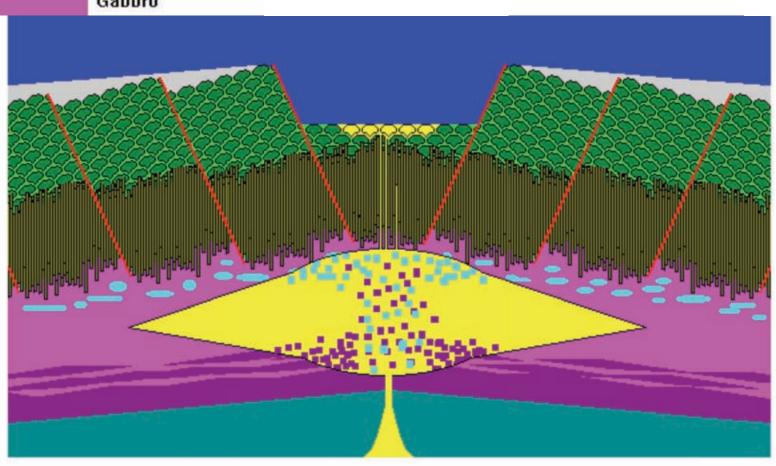
Gabbro

Mid-ocean ridge magma

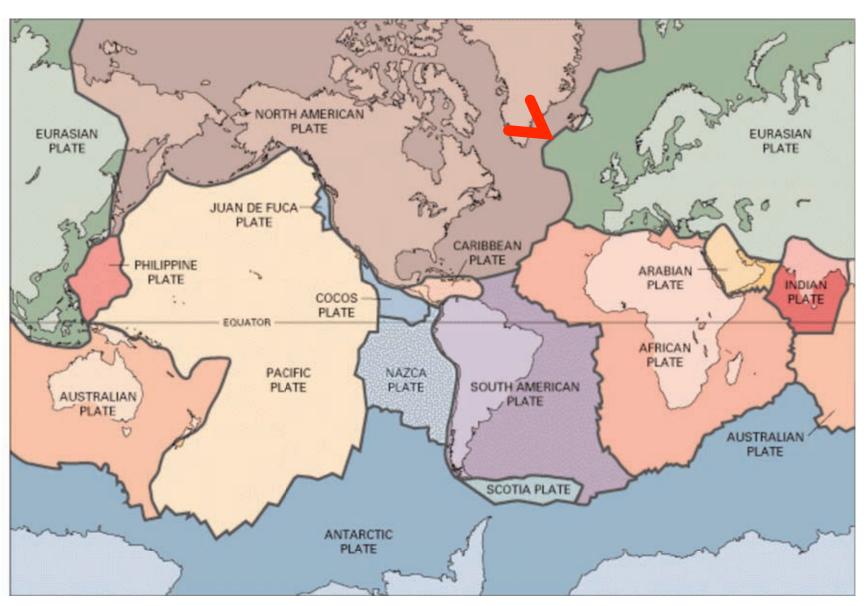
chamber

Oceanic crust

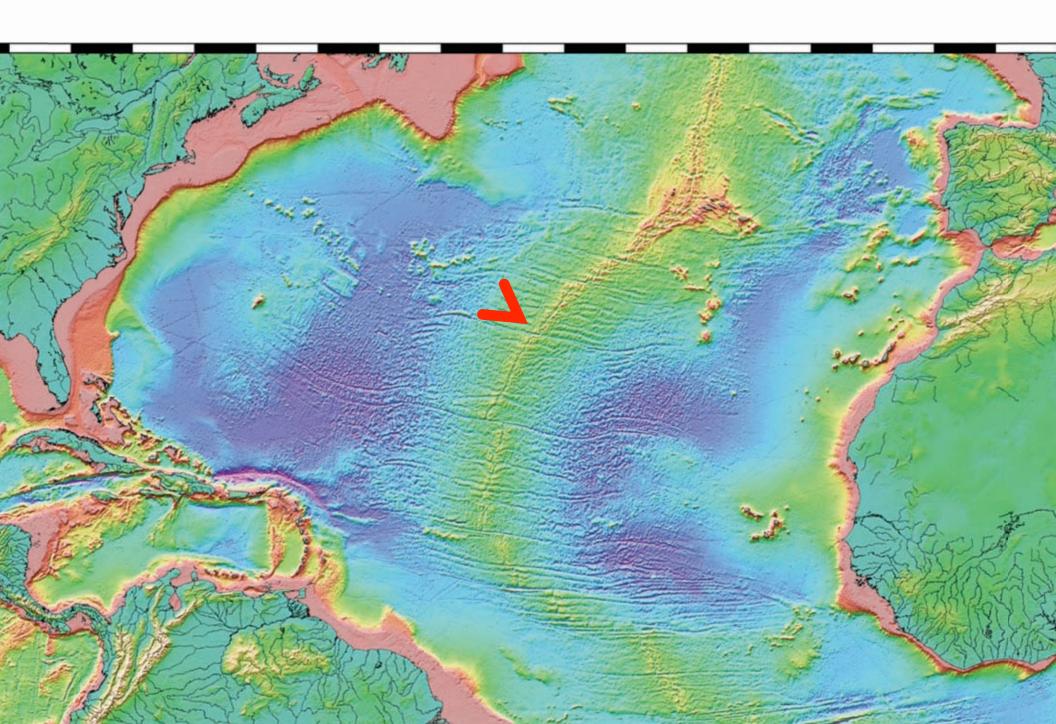
Ophiolite

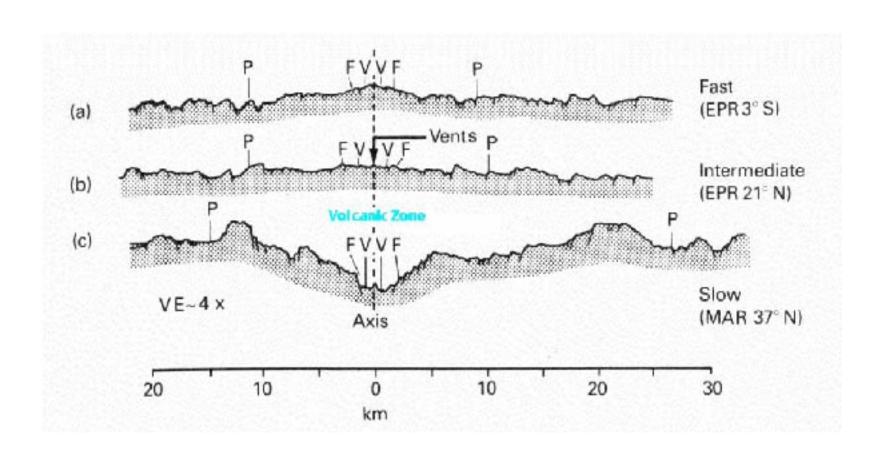


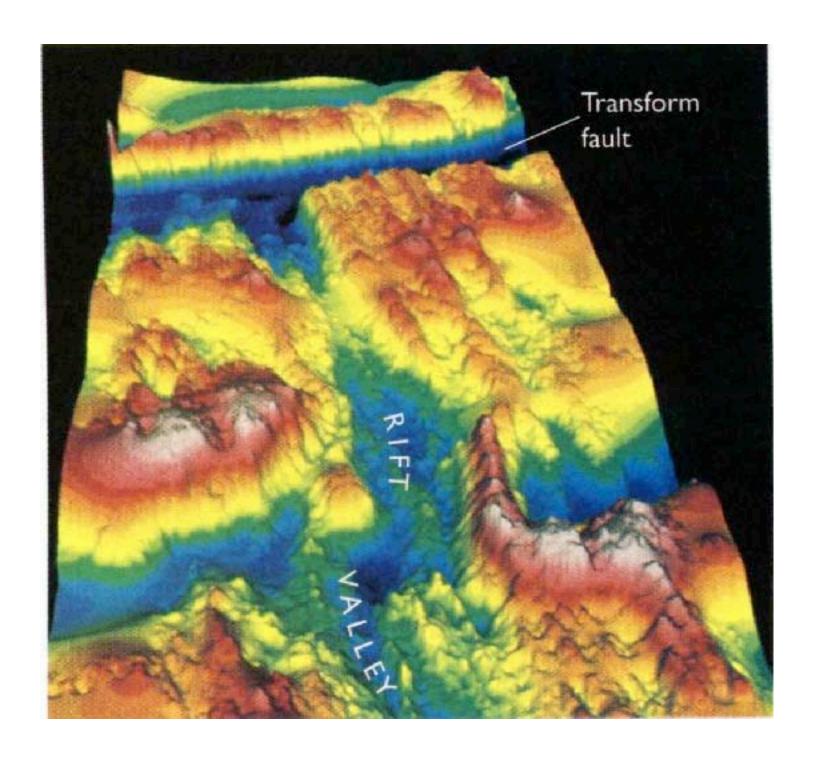
Mid-Atlantic ridge, slow spreading center, transform faults

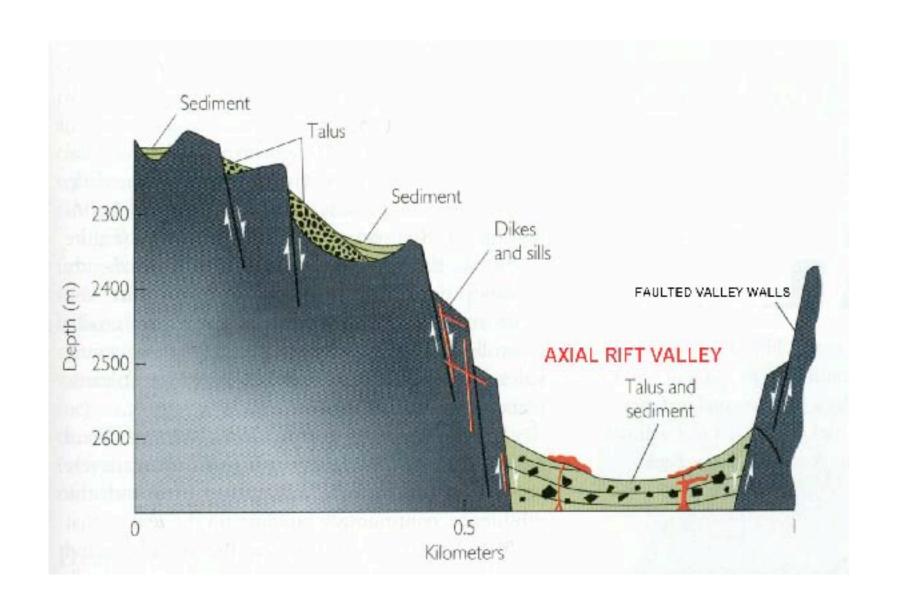


Mid Atlantic ridge, axial graben –rough topography

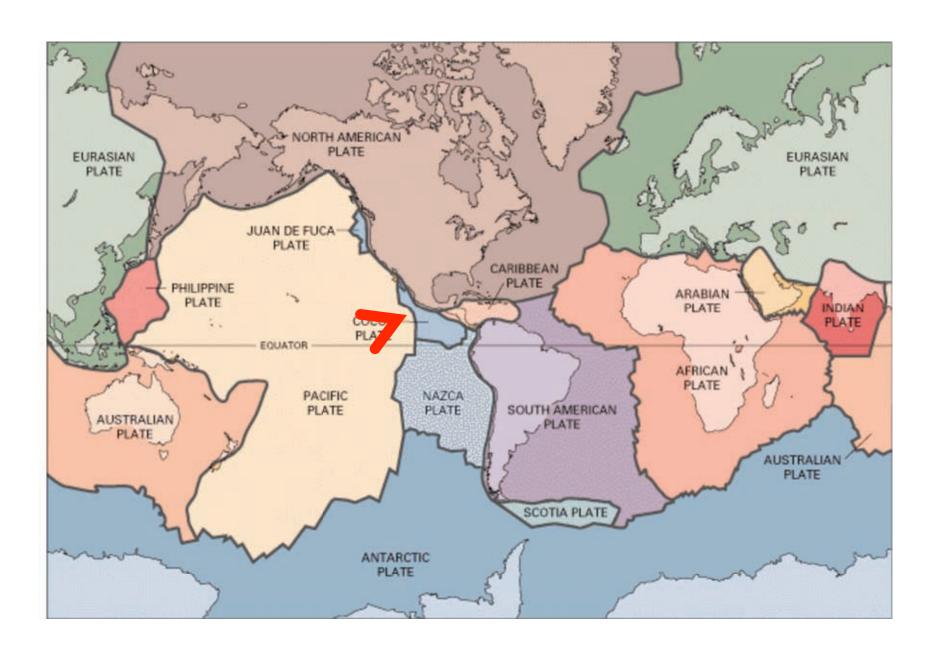


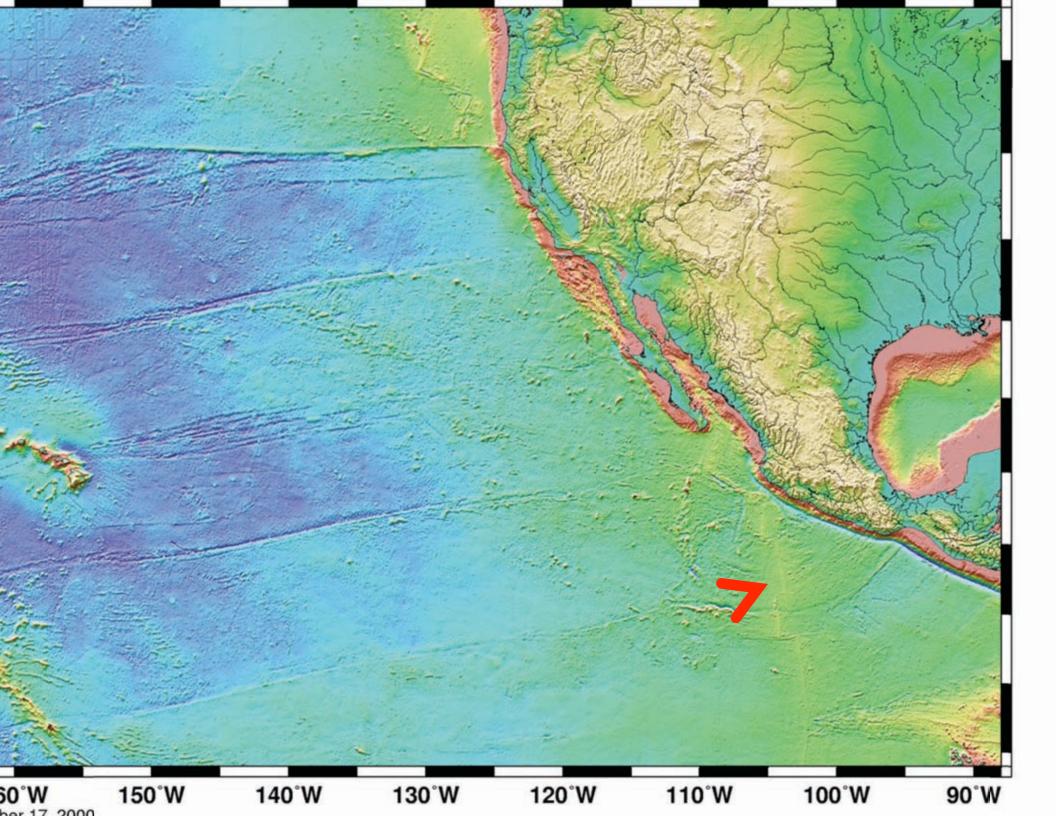


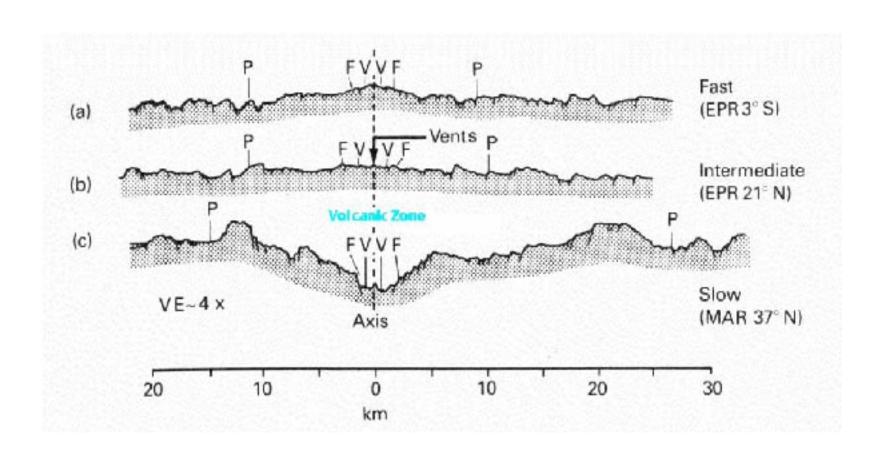


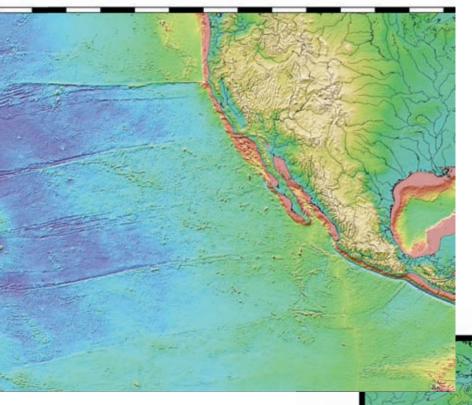


East Pacific rise, fast spreading center, triple junction

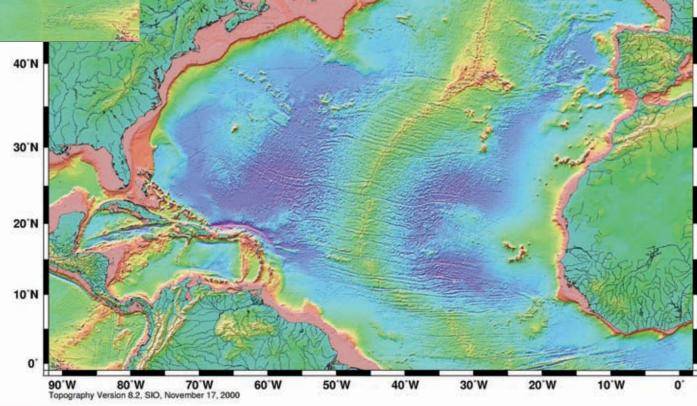


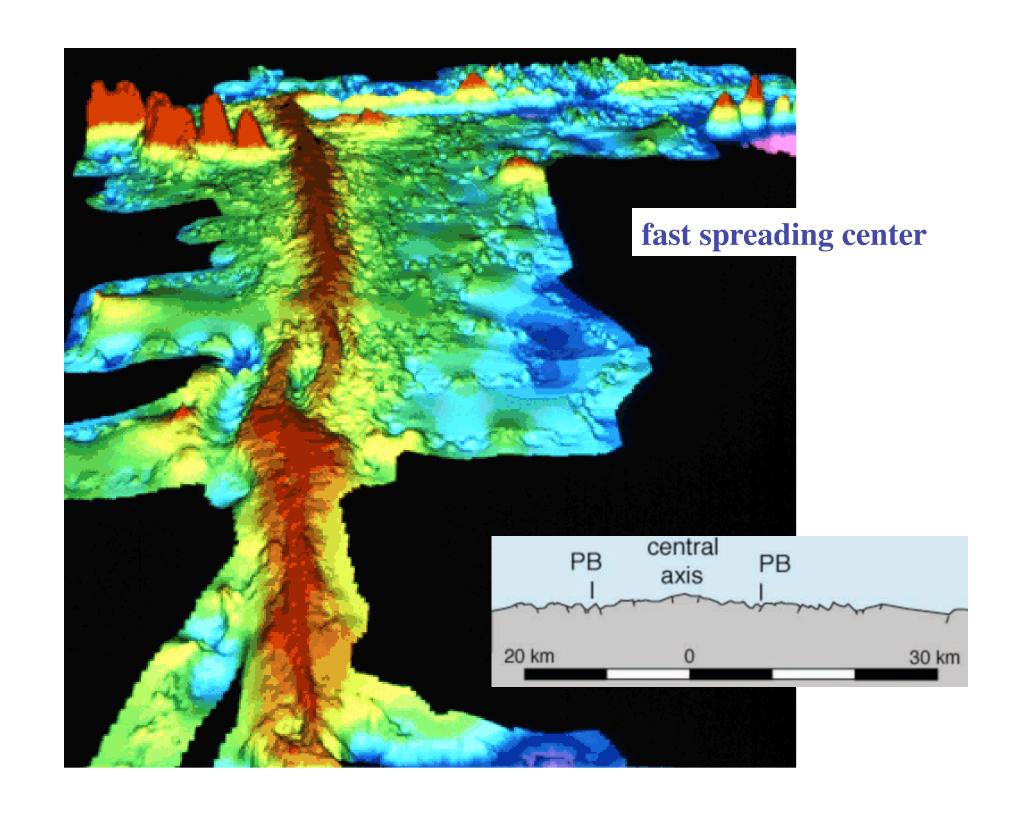




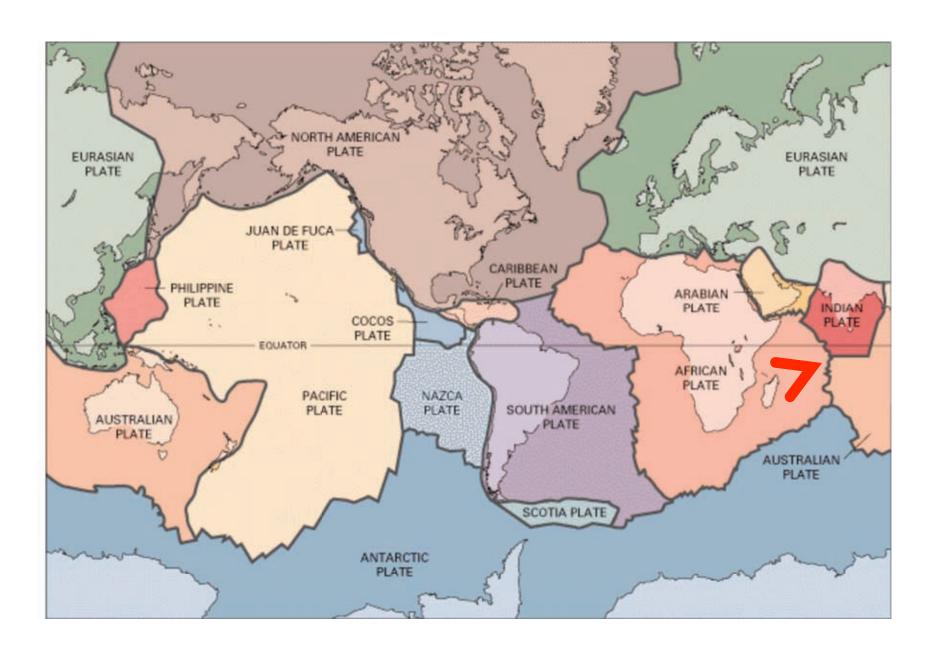


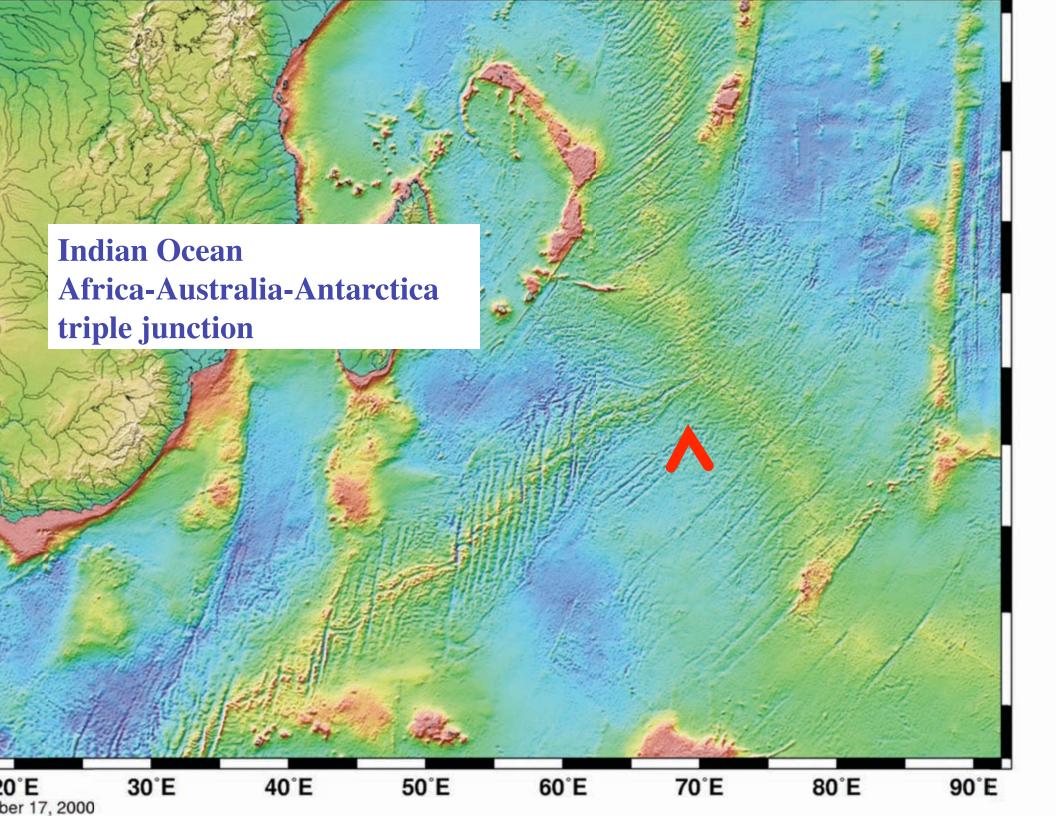
Compare with EPR with MAR

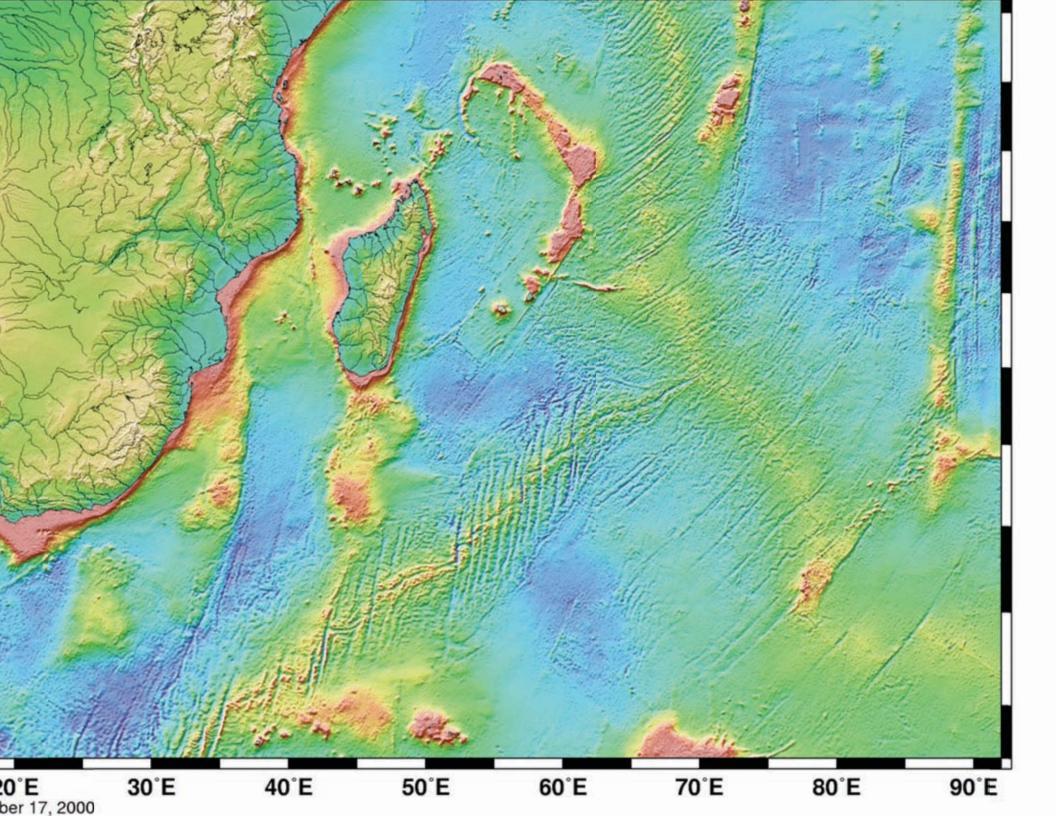




Indian Ocean, triple junction







Age of ocean floor:

Magnetic anomalies

Magnetic reversal time scale

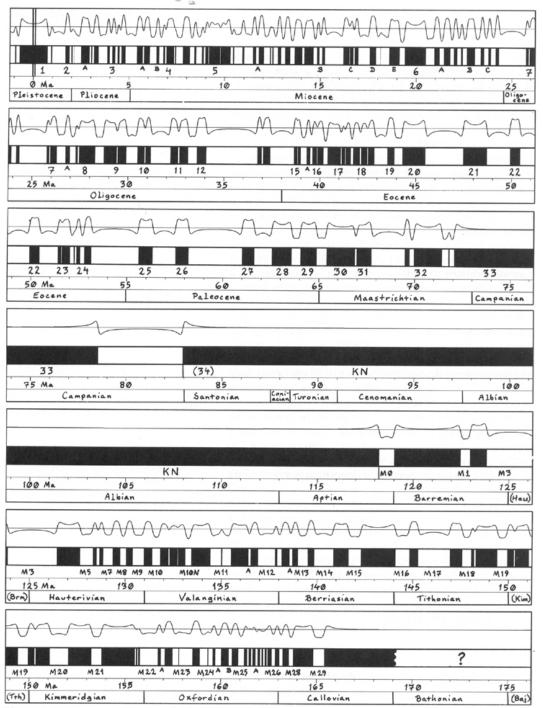
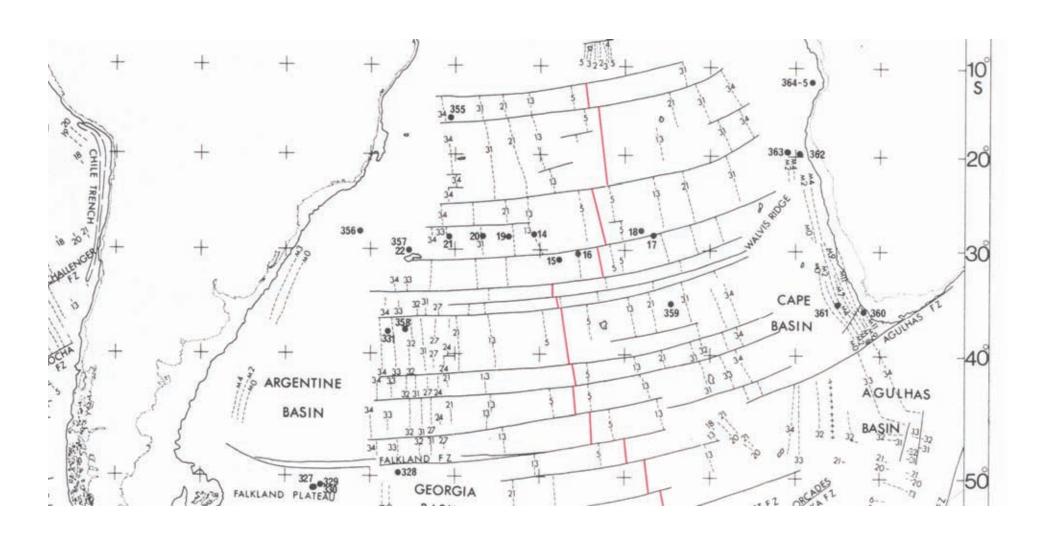


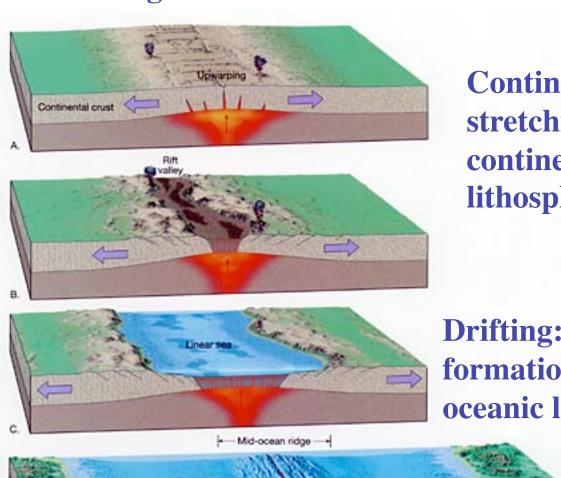
Figure 8-9.

South Atlantic magnetic anomalies



Spreading rate and direction

Rifting: formation of a new MOR



Continental rifting: stretching of old continental lithosphere

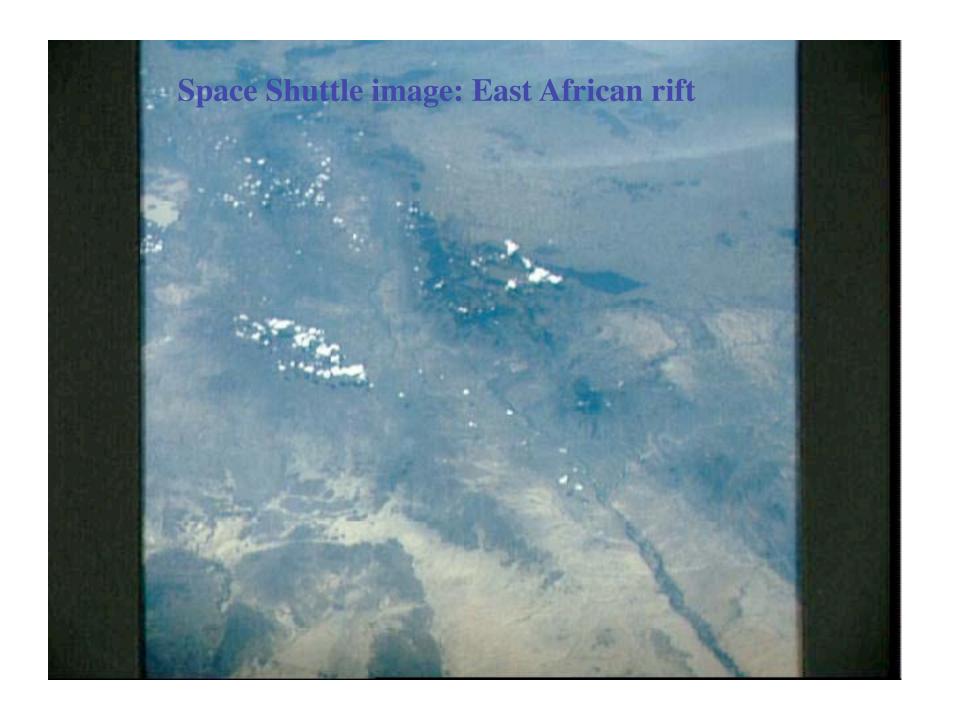


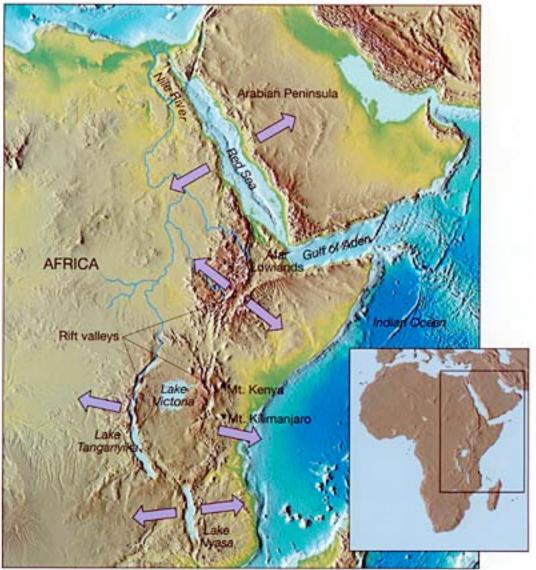
Oceanic crust



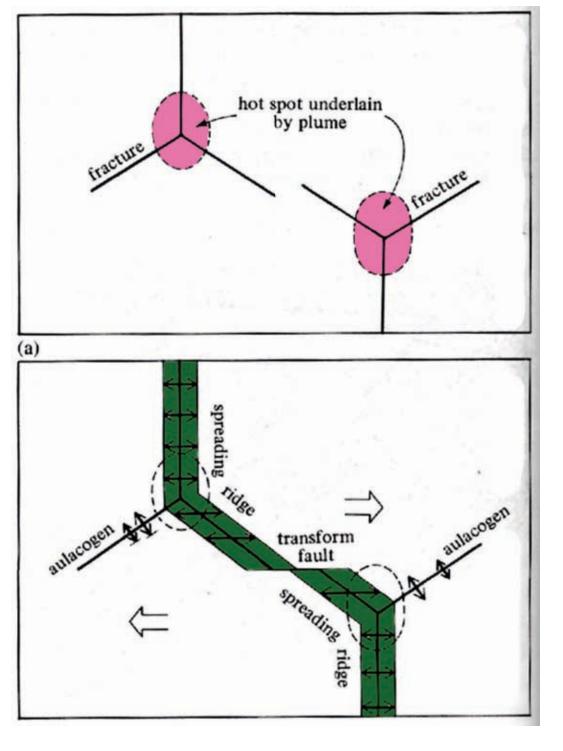
Rift initiation: East African rift

Initiation at a triple junction





New spreading center: Red Sea



Triple junction and start of spreading