

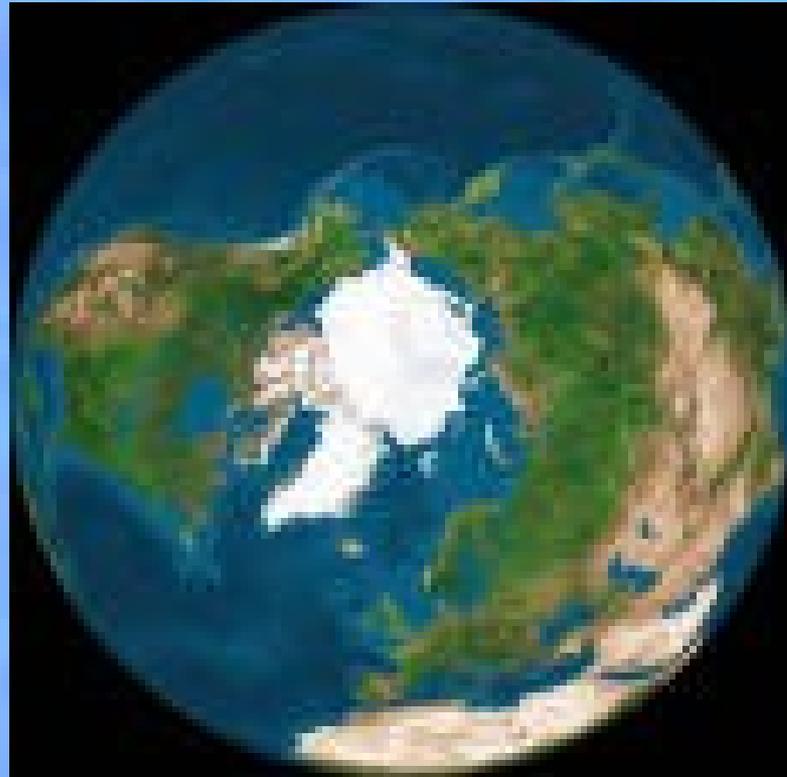


# HIGHLIGHTS FROM CH 2

Marine

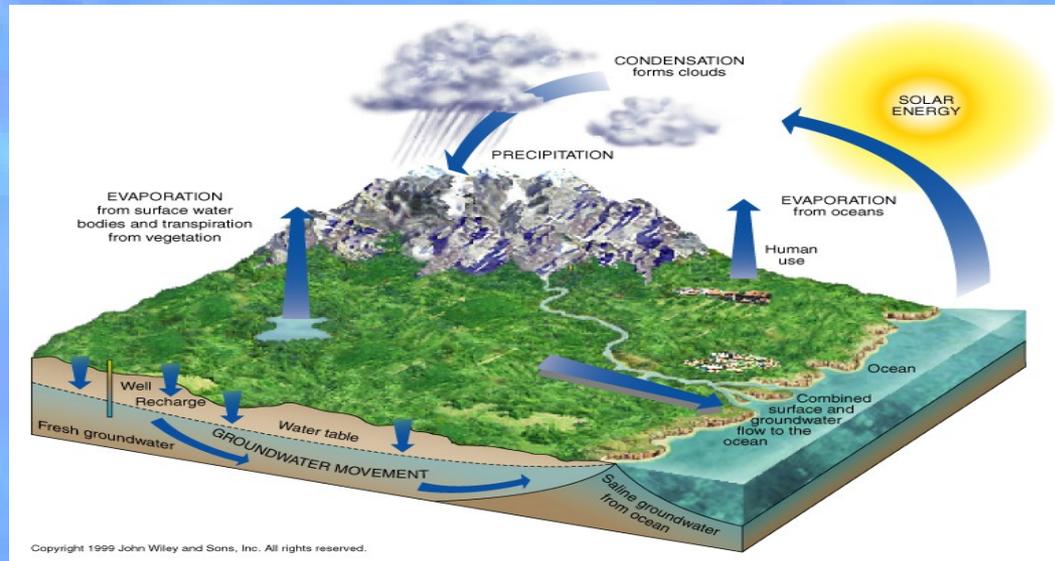
Science

Most of the land is in the  
Northern hemisphere.

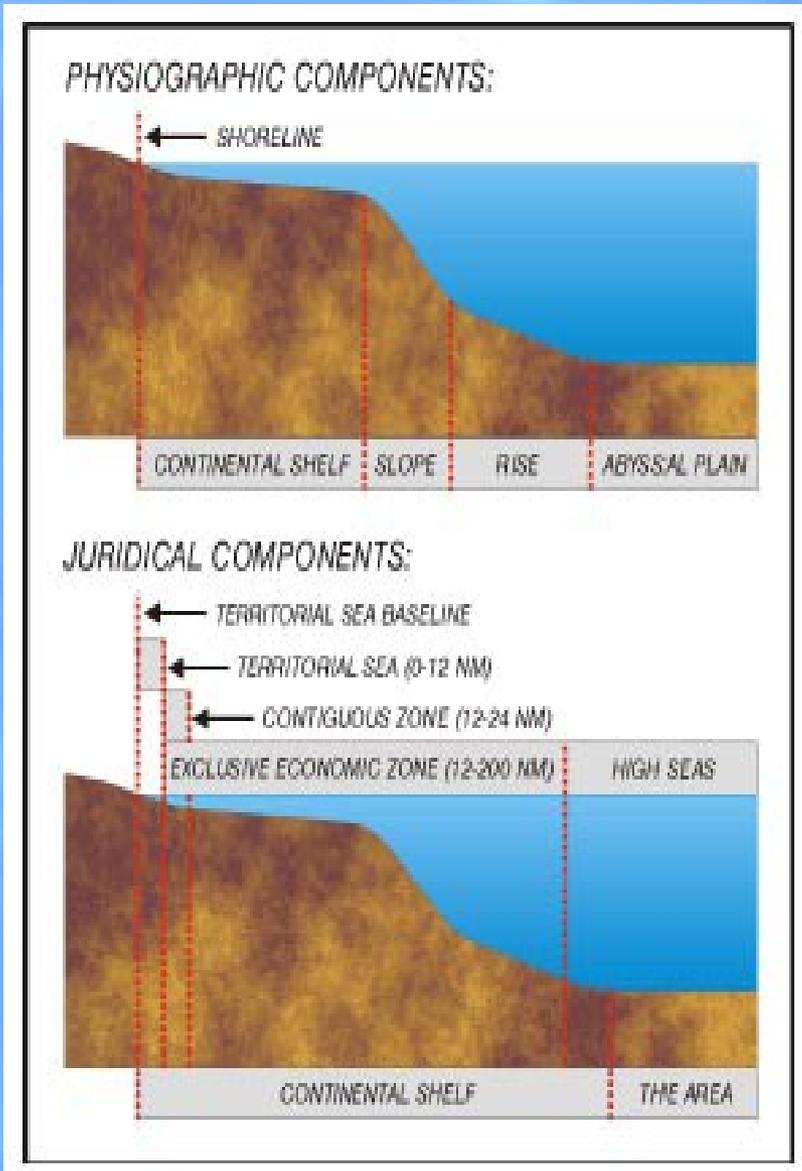


52% of all water on Earth is in the Pacific...25% Atlantic, 20% Indian, 2% is ice. Only 0.01% is lakes, rivers, and atmosphere.

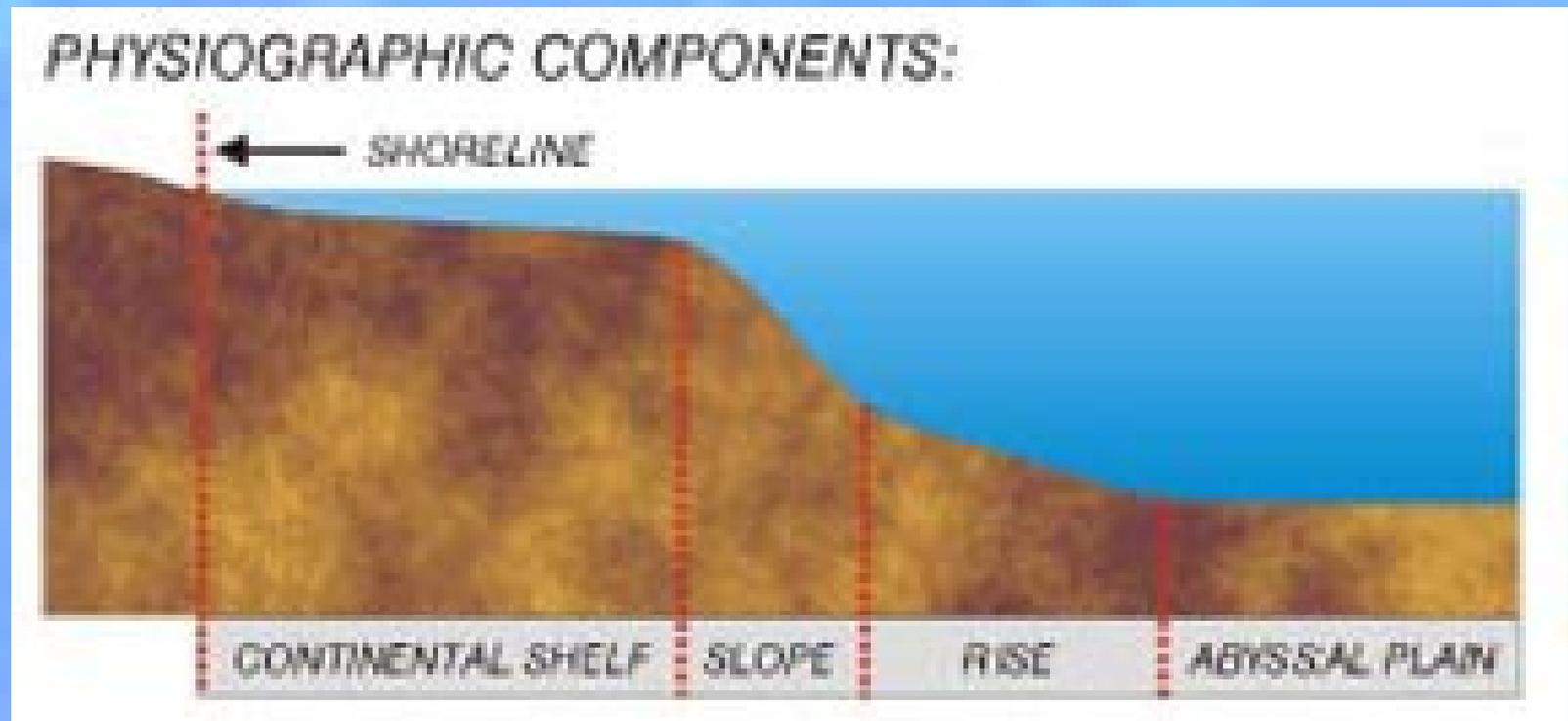
The interaction between the hydrosphere & atmosphere is the **water cycle**: evaporation, condensation, precipitation, run off, infiltration, percolation, transpiration.

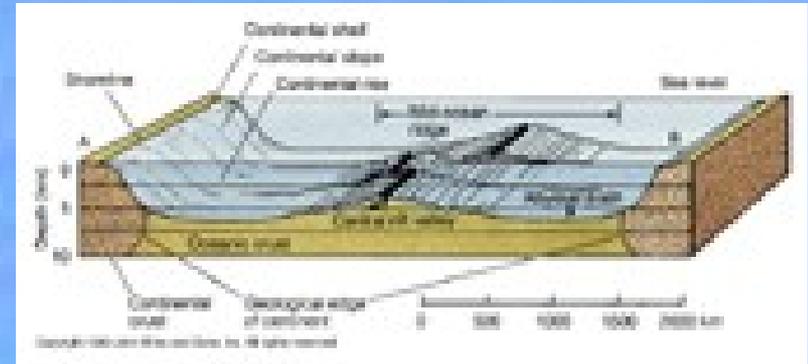
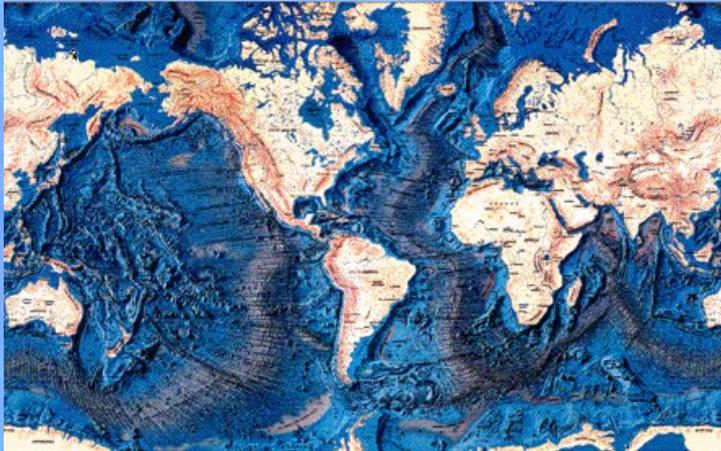


Continental Margins are made up of shelf, slope, & rise and the sea floor (abyssal plain) is broken up by trenches and mid-ocean ridges.



# Anatomy of the Continental Margin (see slide)



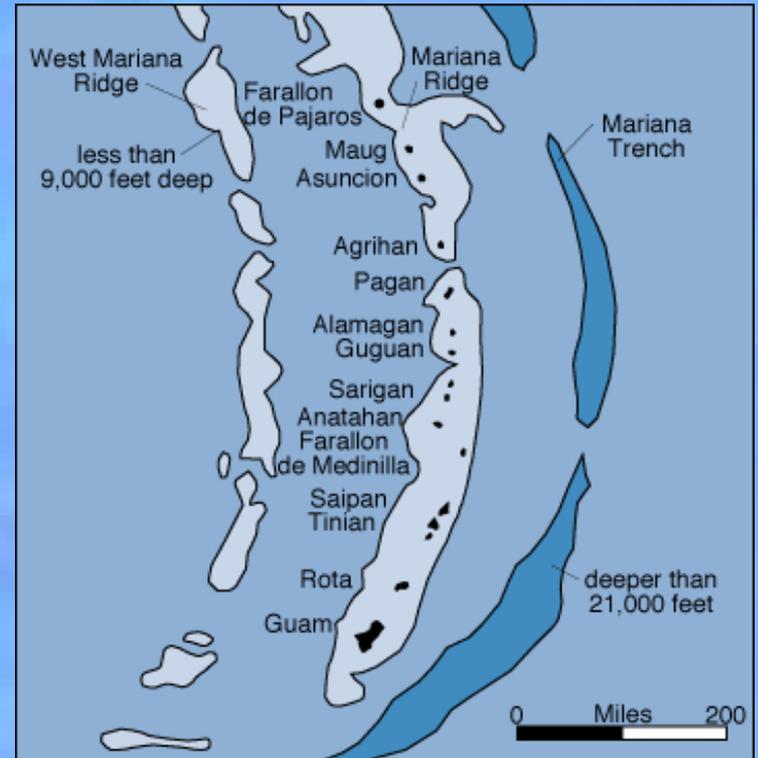


Mid-ocean ridges cover 23% of Earth! They are 1-3 km “high” often with a rift valley 1-2 km “deep” and may be 50 km wide! They have lots of fracture zones (faults).

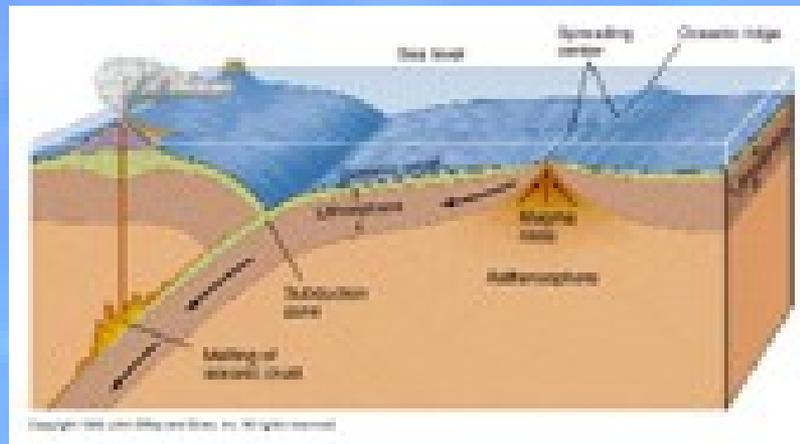
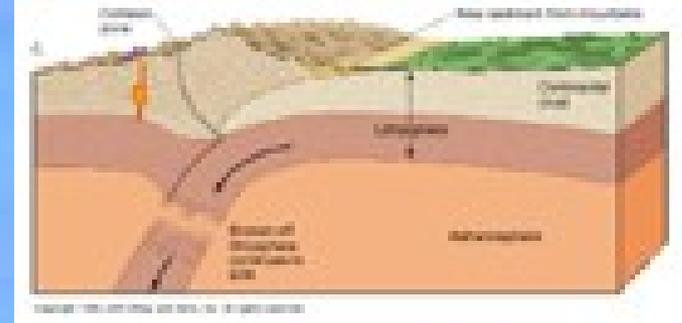
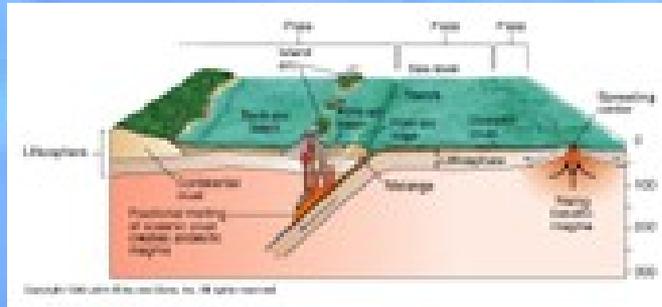
The deep ocean floor (4km+) is basically flat or hilly.

Trenches are the deepest part of the ocean floor...3-4km deeper, may be 10-30km wide & 1000s of km long!

The deepest spot  
on the Earth is the  
Mariana Trench  
southeast of  
Japan...11.035km



# Anatomy of Subduction Zones



Volcanoes and active areas occur near edges of ocean basins...some form islands and more are eroded away and form sea mounts.

