

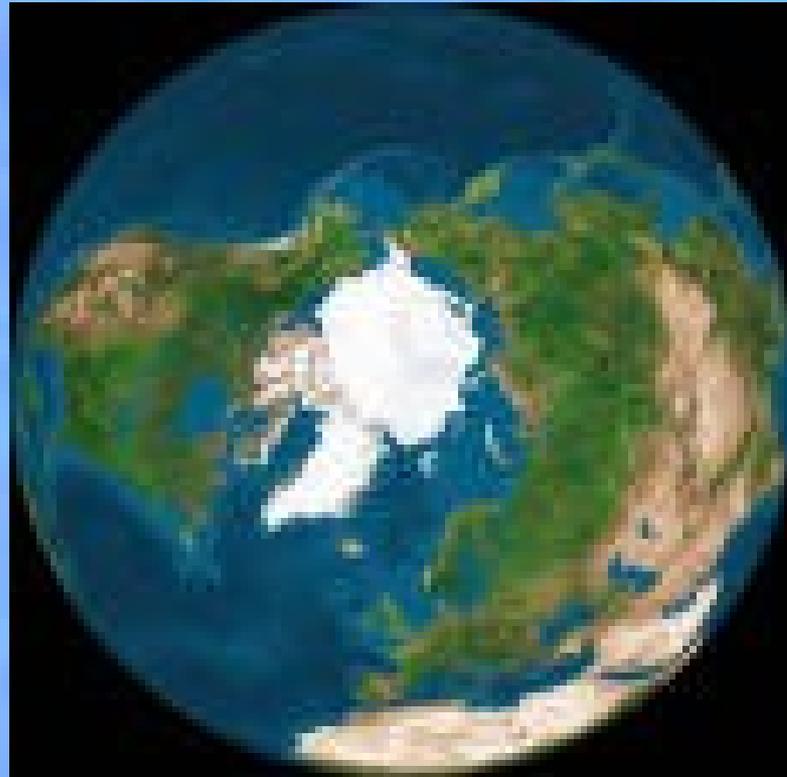


HIGHLIGHTS FROM CH 2

Marine

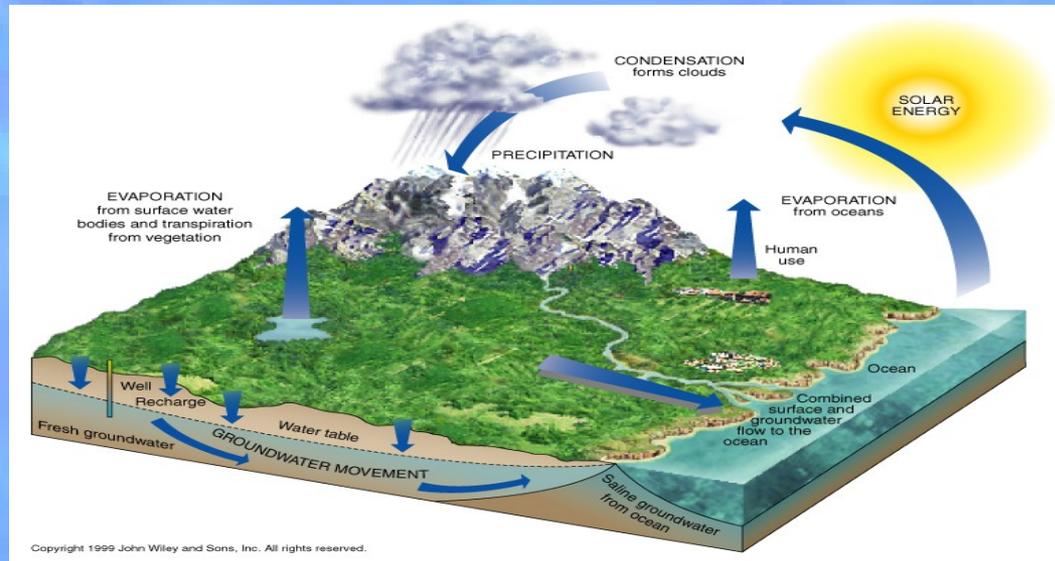
Science

Most of the land is in the
Northern hemisphere.

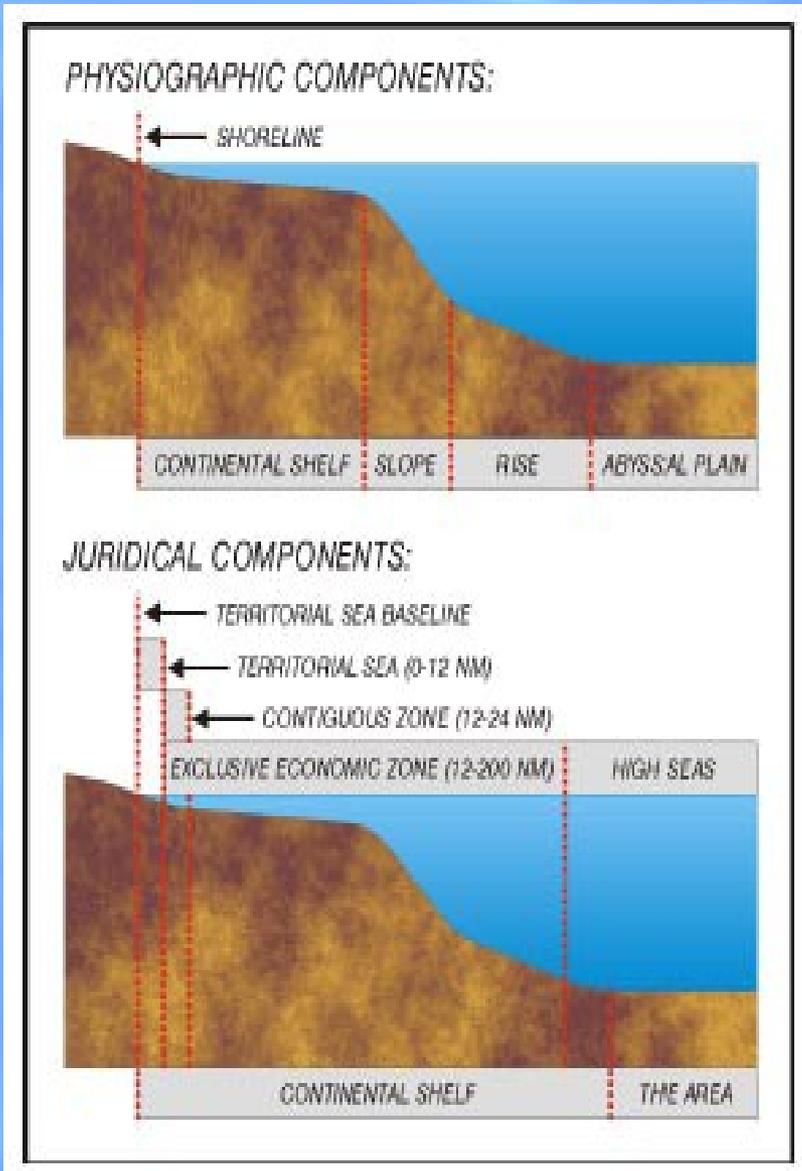


52% of all water on Earth is in the Pacific...25% Atlantic, 20% Indian, 2% is ice. Only 0.01% is lakes, rivers, and atmosphere.

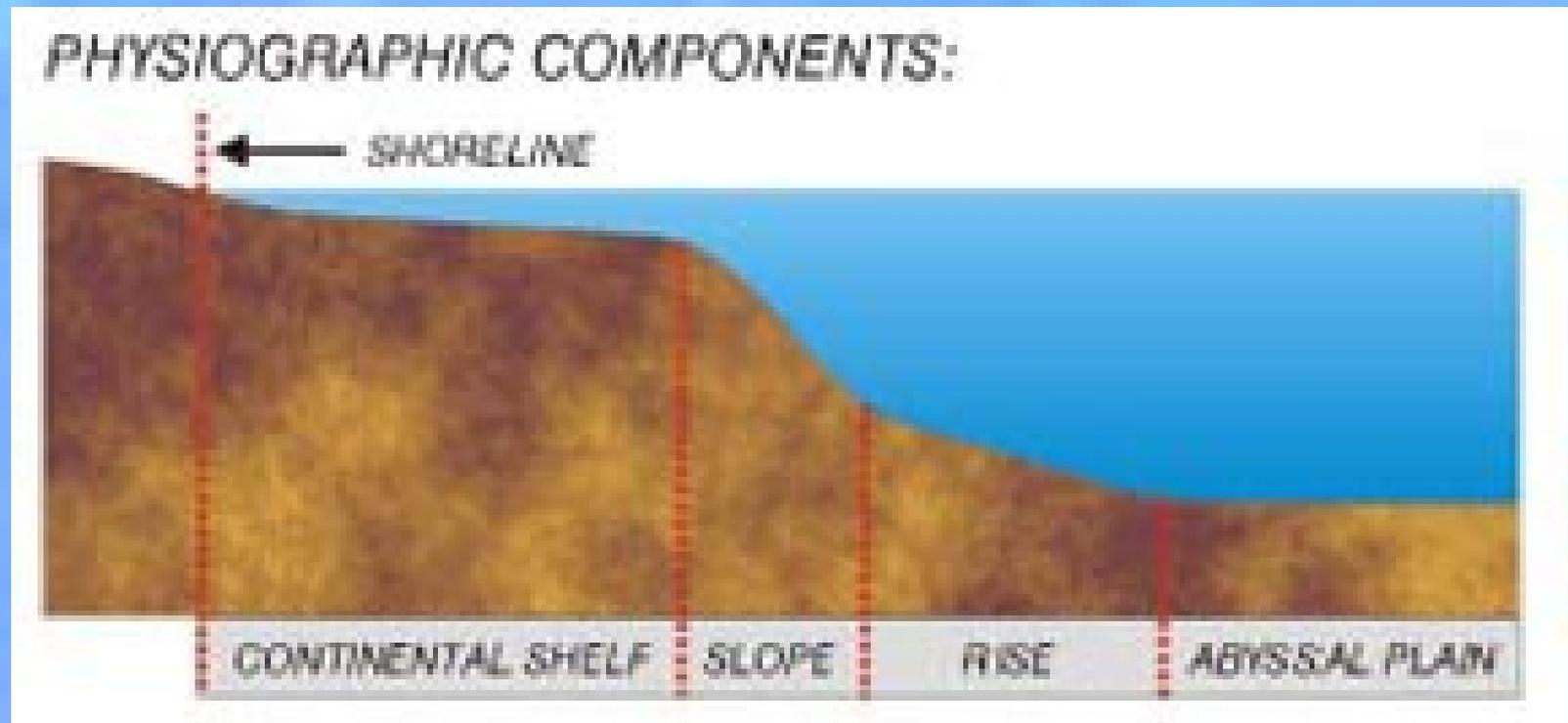
The interaction between the hydrosphere & atmosphere is the **water cycle**: evaporation, condensation, precipitation, run off, infiltration, percolation, transpiration.

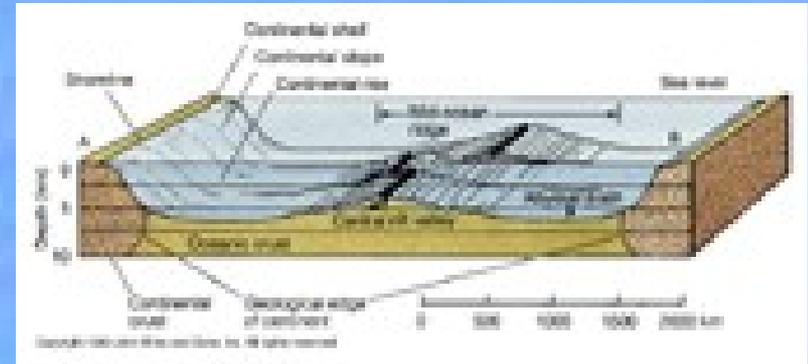
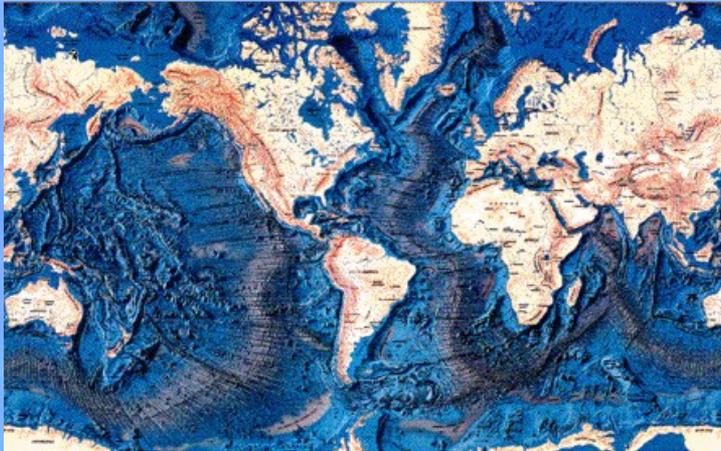


Continental Margins are made up of shelf, slope, & rise and the sea floor (abyssal plain) is broken up by trenches and mid-ocean ridges.



Anatomy of the Continental Margin (see slide)



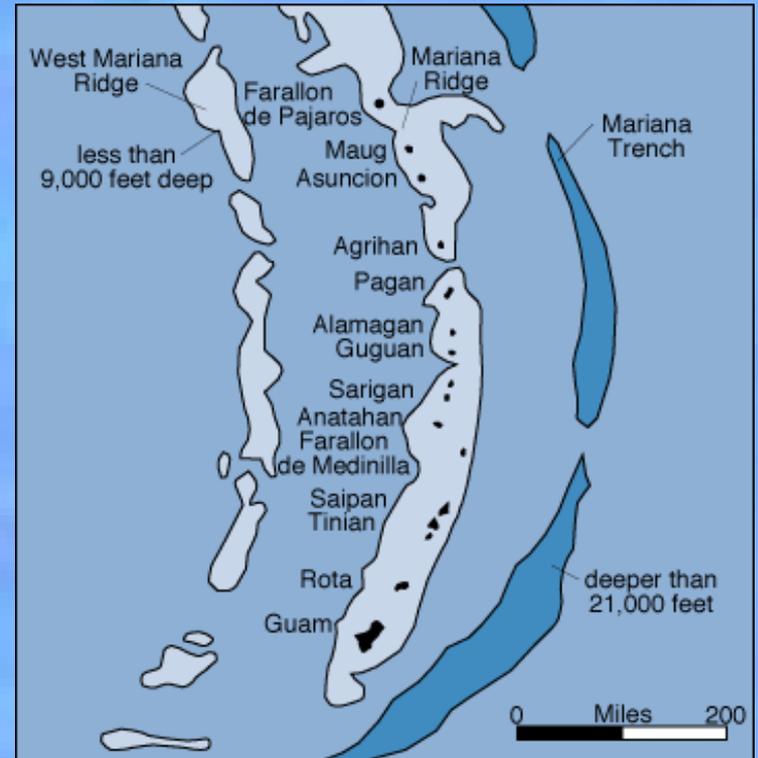


Mid-ocean ridges cover 23% of Earth! They are 1-3 km “high” often with a rift valley 1-2 km “deep” and may be 50 km wide! They have lots of fracture zones (faults).

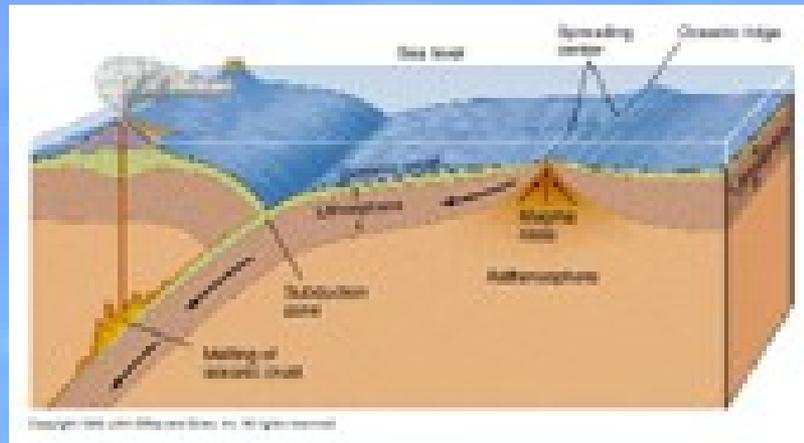
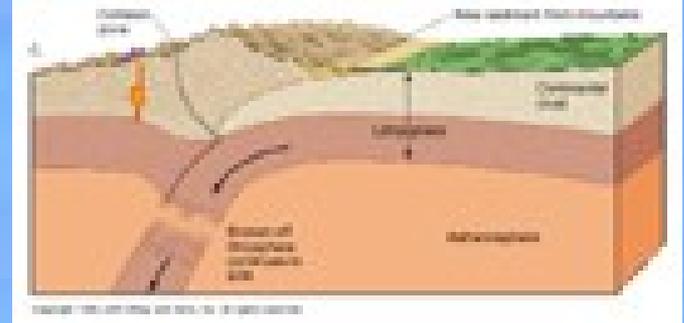
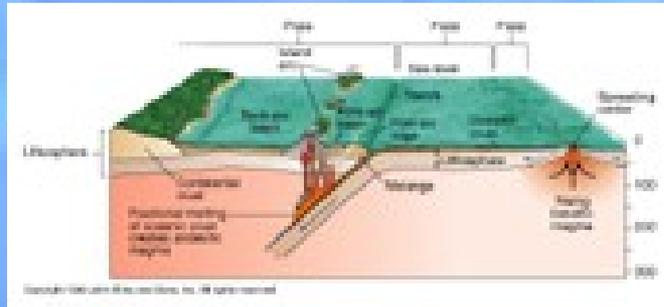
The deep ocean floor (4km+) is basically flat or hilly.

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.

