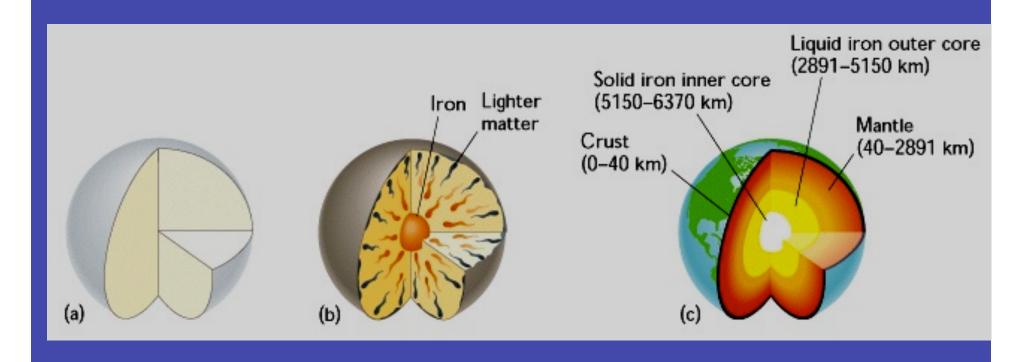
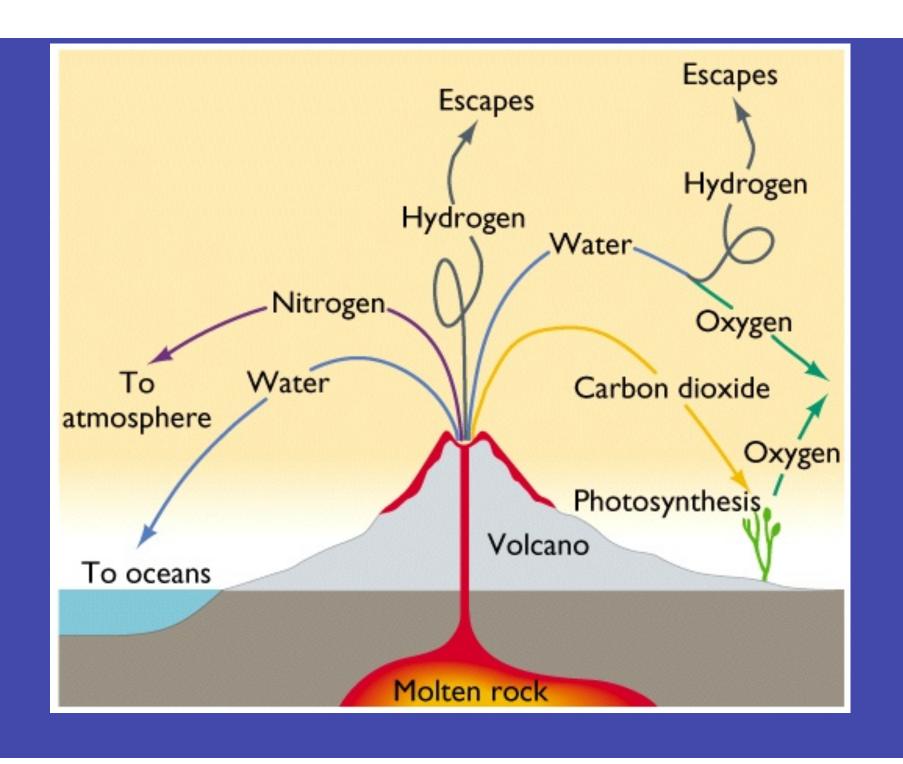
ERA	PERIOD	EPOCH	(Some Dates)
	Quaternary	Holocene	Last 10,000 years
CENOZOIC		Pleistocene	(Began 1.6 m.y.a.)
		Pliocene	
	Tertiary	Miocene Oligocene	
	leitiary	Eocene	
		Paleocene	(Began 65 m.y.a.)
MESOZOIC	Cretaceous		
	Jurassic		
	Triassic		(Began 251 m.y.a.)
PALEOZOIC	Permian		
	Carboniferous*		
	Devonian		
	Silurian		
	Ordovician		
	Cambrian		(Began 544 m.y.a.)

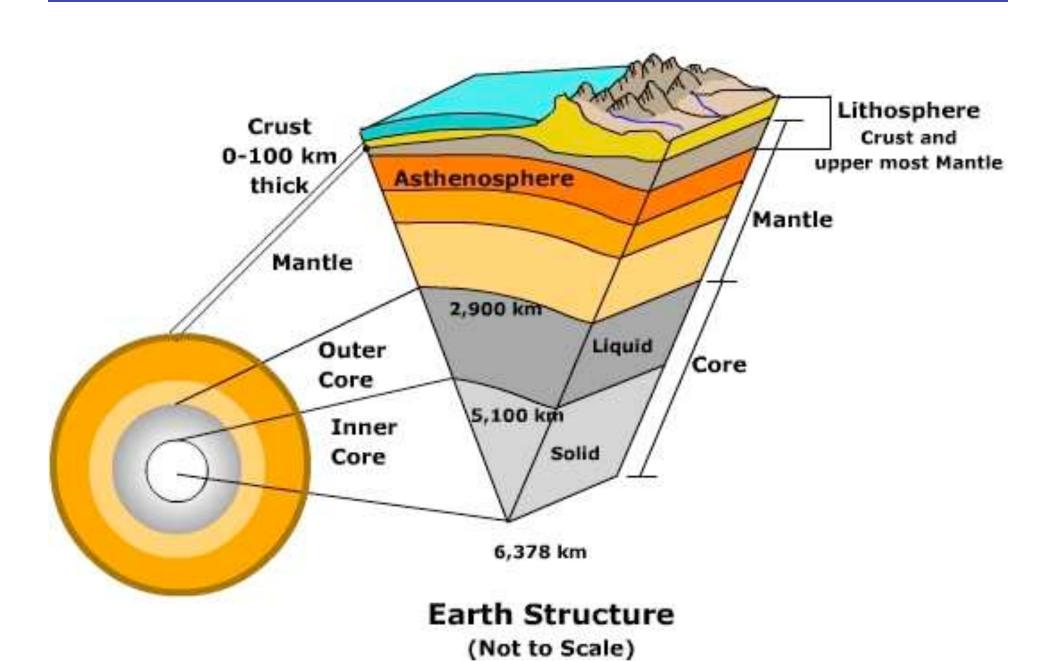
PRECAMBRIAN

4.6 BYA (age of the Earth)

Differentiation of the Earth







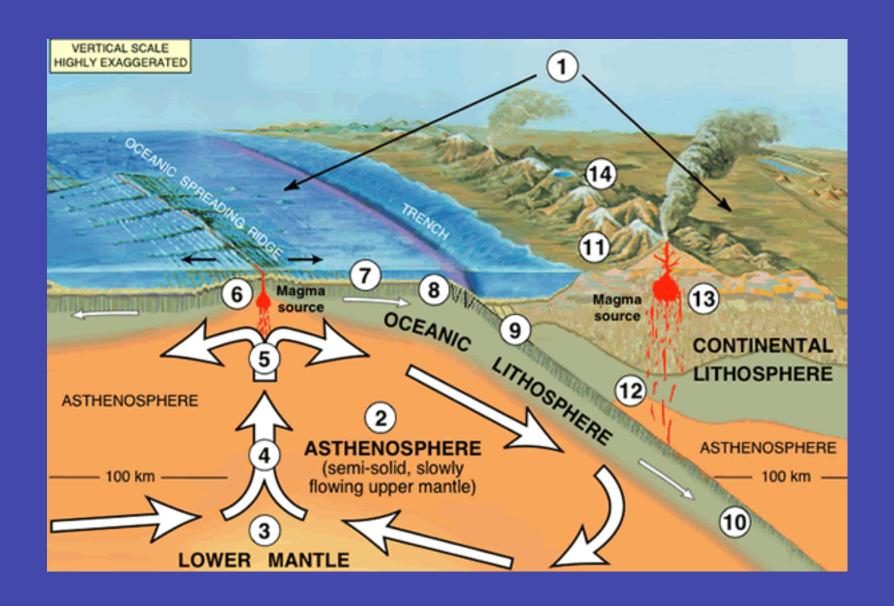
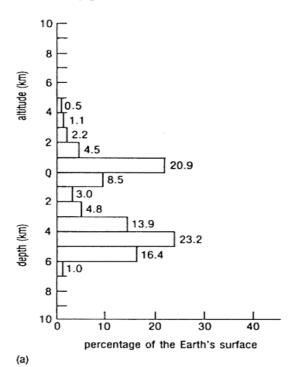
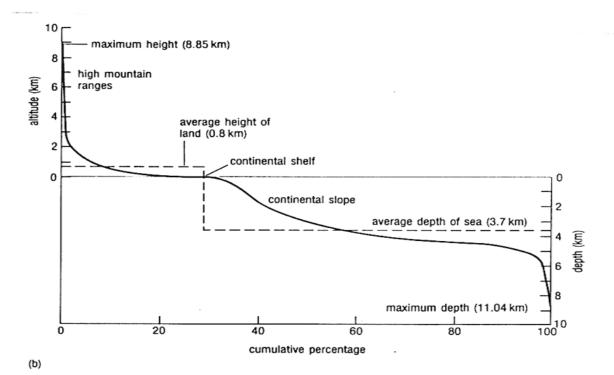
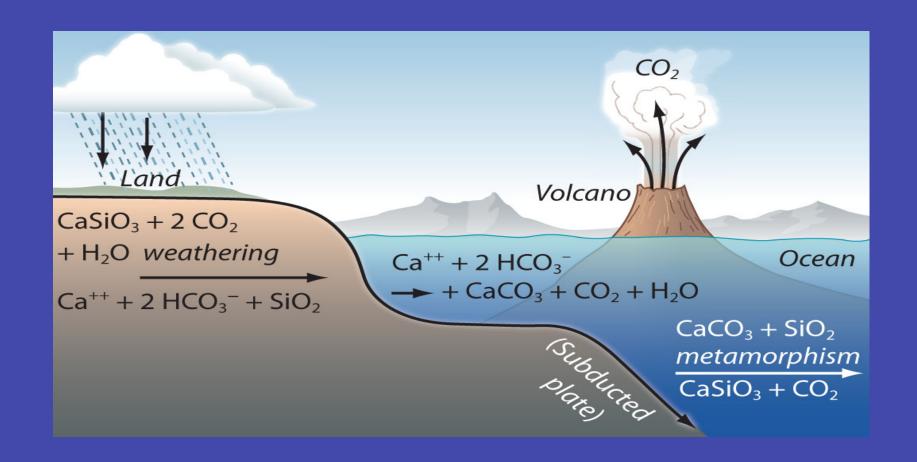


Figure 2.4 The distribution of levels on the Earth's surface.

- (a) A histogram showing the actual frequency distribution.
- (b) The hypsographic curve: a cumulative frequency curve based on (a). This is NOT a profile of the Earth's surface; it is a curve showing the percentages of the Earth's surface that lie above, below, or between any given levels.







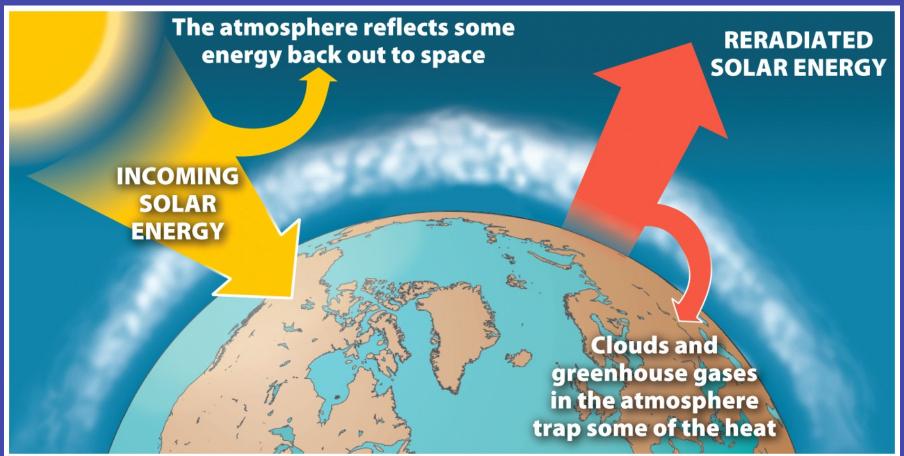
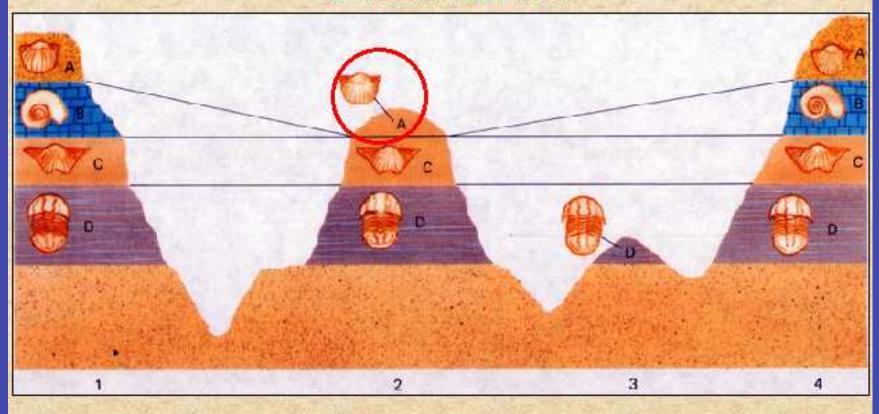


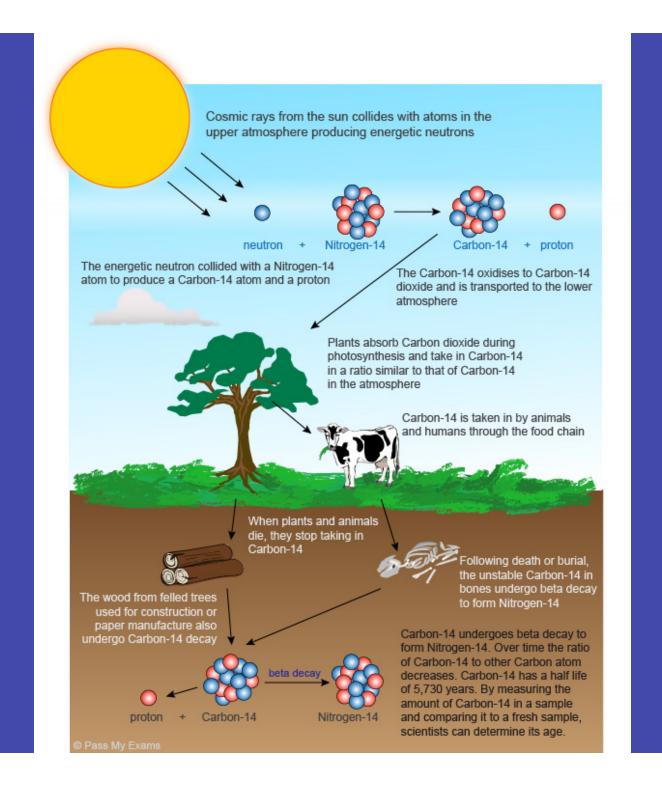
Figure 1-18
Environmental Geology, Second Edition
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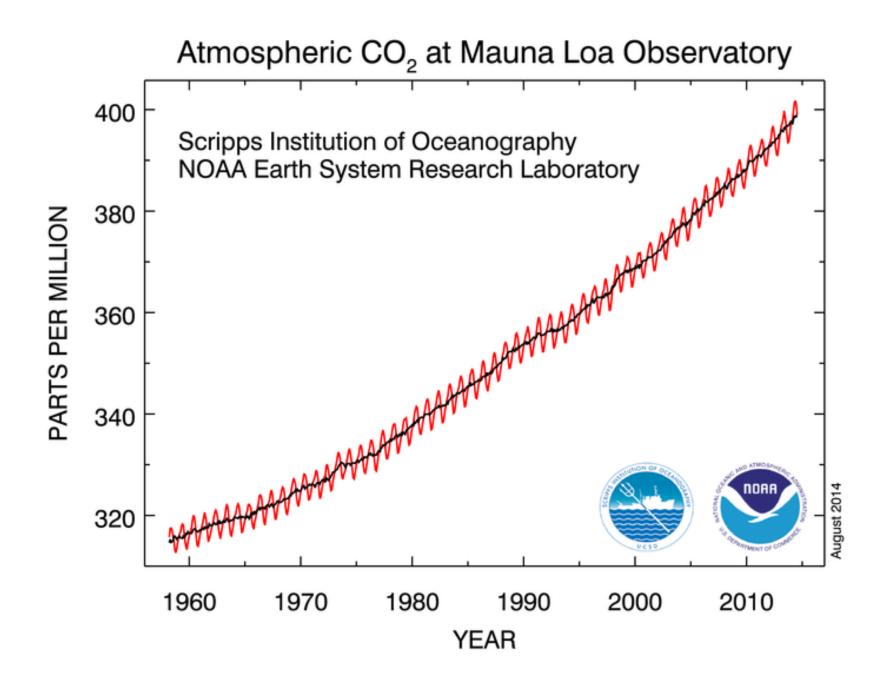
Principles of relative age dating:

- 1. superposition
- 2. original horizontality
- 3. fossil succession

Correlation





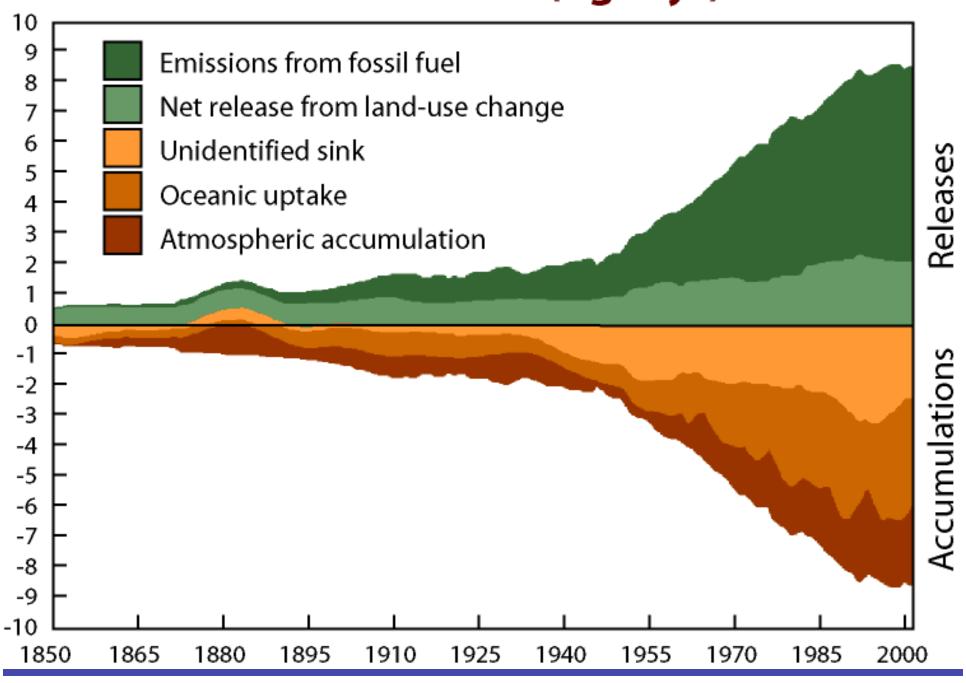


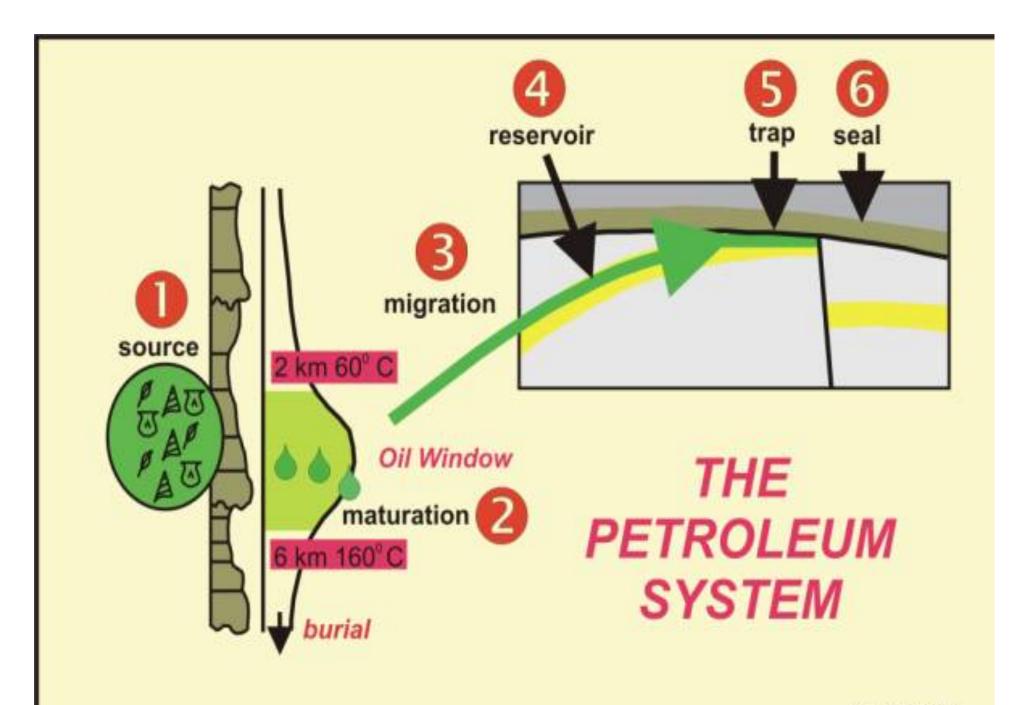
The Global Carbon Cycle Atmospheric Pool 720 **GPP** 120 60 Land R_{P} plants 560 R_D Rivers 107 105 0.4 Soils Net destruction 1500 of vegetation Ocean 38,000

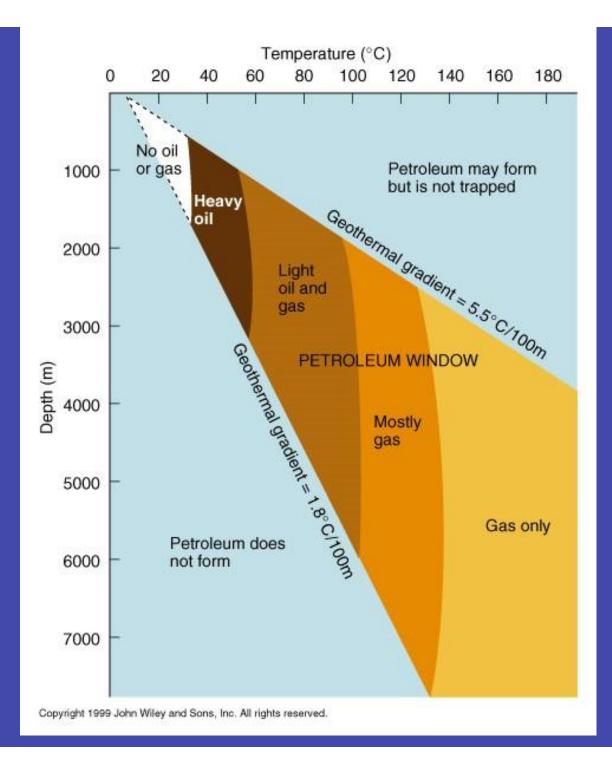
Figure 11.1 The present-day global carbon cycle. All pools are expressed in units of 10^{15} g C and all annual fluxes in units of 10^{15} g C/yr.

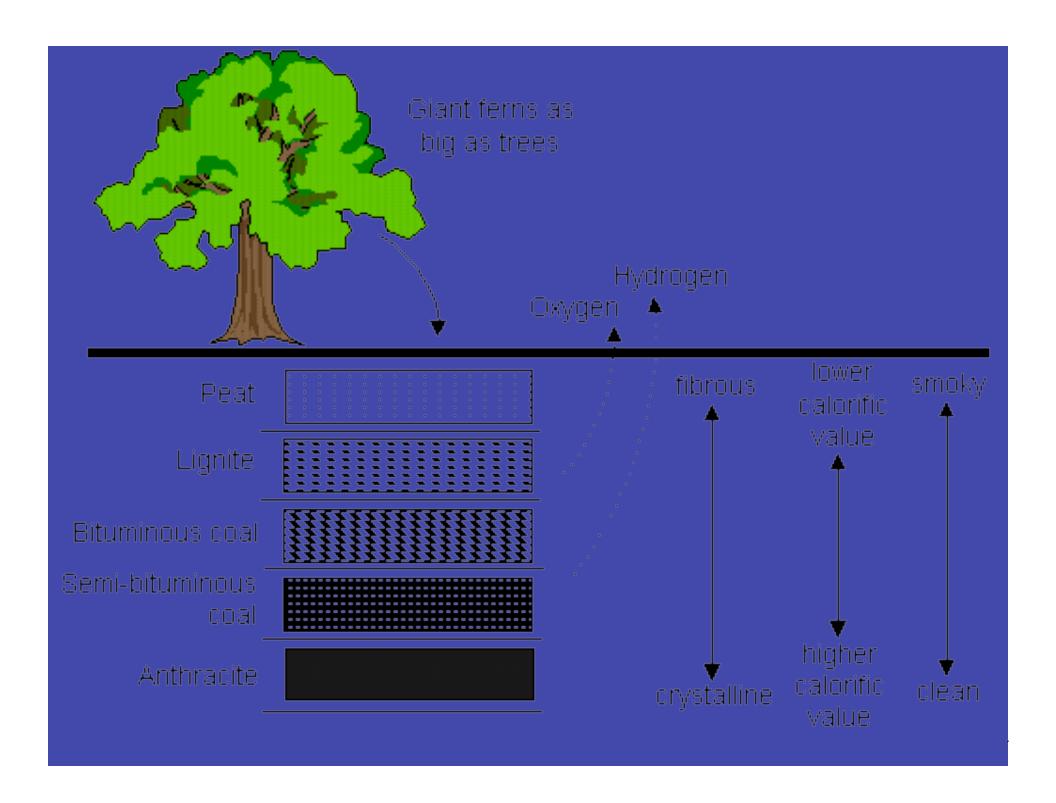
Burial 0.1

Flux of Carbon (Pg C/yr)



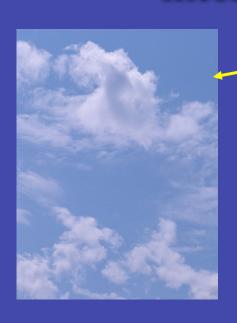






Soil

*The dynamic biogeochemical interface between the



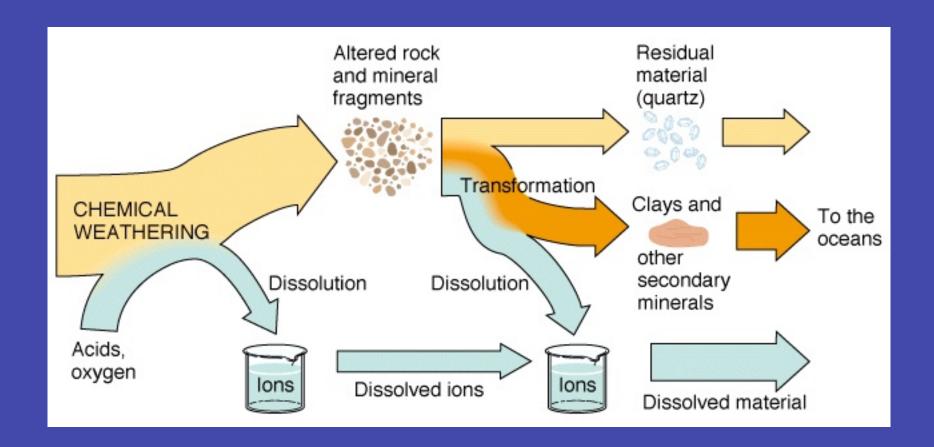
- atmosphere
- hydrosphere
- biosphere
- lithosphere







From Text (Fig. 6-7)



Essentials of Chemical Weathering