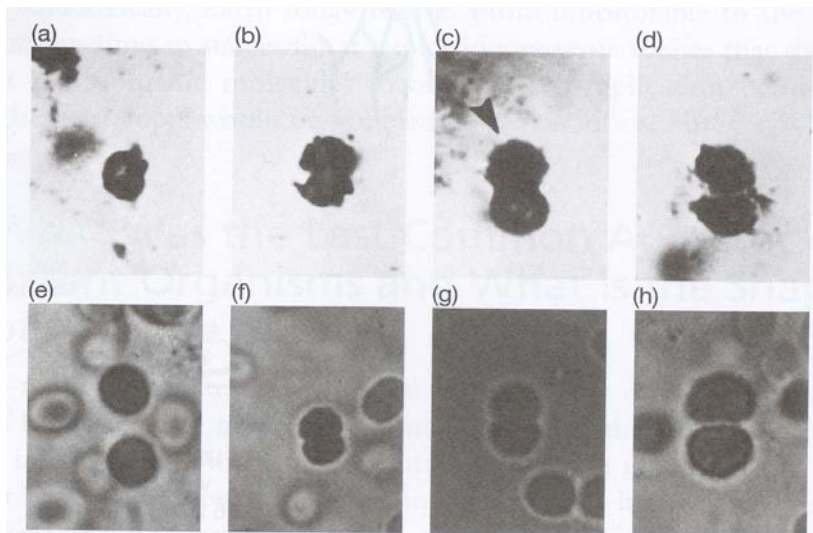
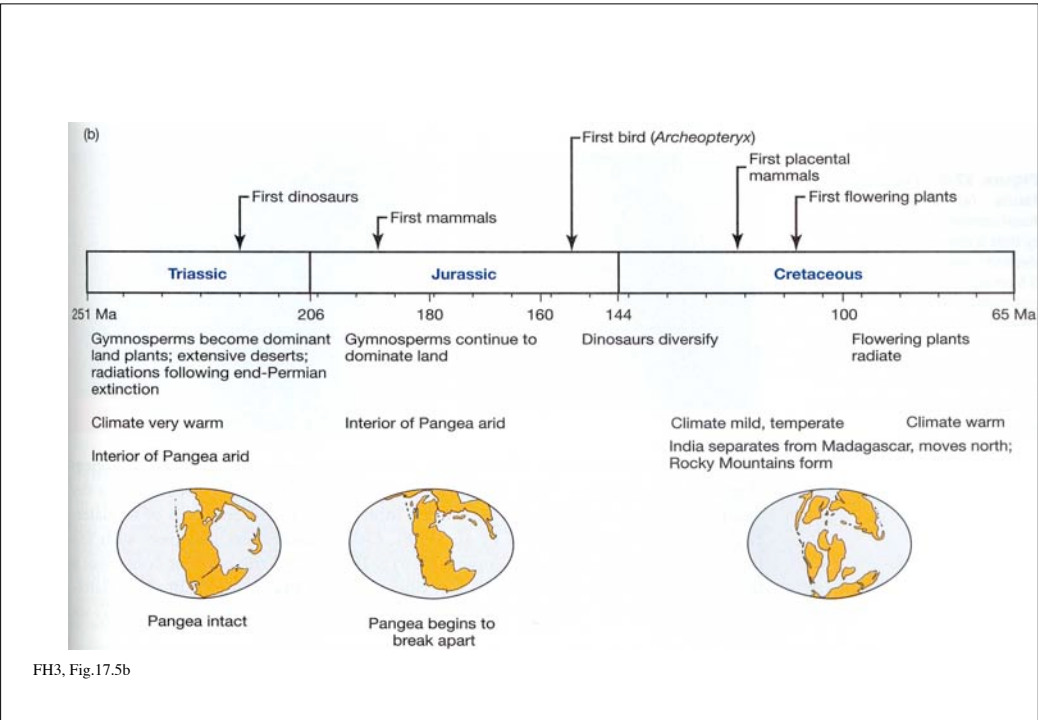
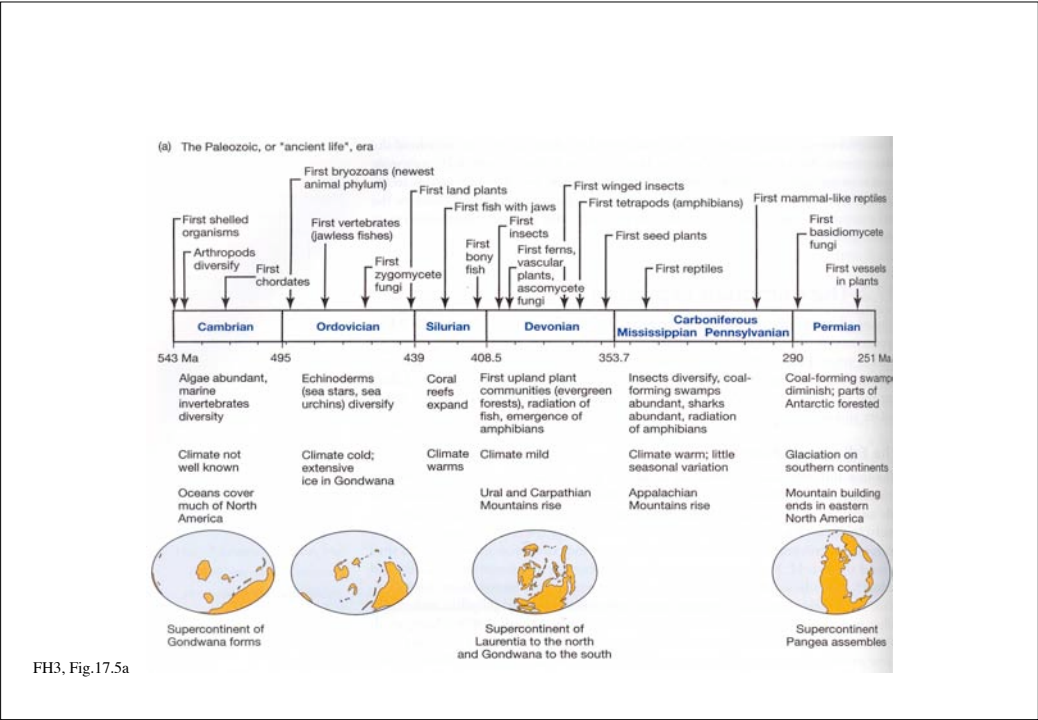


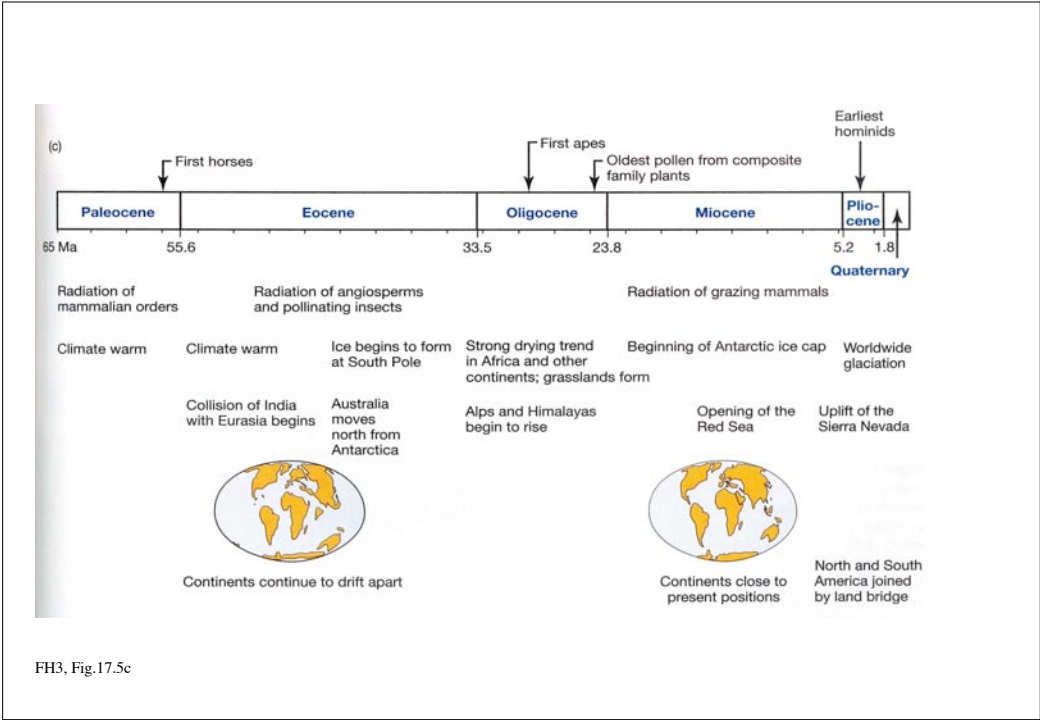
Geschichte des Lebens

Thema 1



FH3, Fig.16.16





FH3, Fig.17.5c

Eon	Era	Period	Epoch	Age Ma	Life Forms
Phanerozoic	Cenozoic	Quaternary	Holocene		
			Pleistocene	1.8	
		Neogene	Pliocene	5.2	Earliest Homo
			Miocene	23.8	First daisy-family plants
			Oligocene	33.5	First apes
		Paleogene	Eocene	55.6	First extensive grasslands
			Eocene	55.6	First whales
			Paleocene	65	First horses
		Cretaceous	Late	96.9	Extinction of dinosaurs
			Early	144	First placental mammals
	Mesozoic	Jurassic	Late	160	First flowering plants
			Middle	180	First birds
			Early	206	First mammals
			Late	228	First dinosaurs
		Triassic	Middle	251	
			Scythian		
	Paleozoic	Permian		290	First plants with water-conducting vessels
		Carboniferous	Pennsylvanian	353.7	First mammal-like reptiles
			Mississippian		
		Devonian		408.5	First reptiles
		Silurian		439	First amphibians
		Ordovician		495	First woody plants
Proterozoic	Proterozoic	Cambrian		543	First insects
	Archean			2500	First fish with jaws
Hadaean	Hadaean			3600	First fish (no jaws)
				4500	First land plants
					First multicellular organisms
					First eukaryotes
					First bacteria?
					Origin of life?
					Oldest rocks
					Formation of Earth

FH3, Fig.2.18

A. Wegener (1915):
 “Über den Ursprung der Kontinente und Ozeane”



Alfred Wegener
 (1880- 1930)



FIGURE 7-1 The distribution of lithospheric plates over the surface of the earth. There are eight large plates and several small ones on earth today. The three kinds of plate boundaries—subduction zones, ridge axes, and transform faults—are shown here; they will be discussed later in the chapter. The locations of volcanoes are also indicated; most lie near subduction zones or ridges. (F. Press and R. Siever, *Earth*, W. H. Freeman and Company, New York, 1986.)

Stanley, Fig.7.1



Campbell, 6th ed.

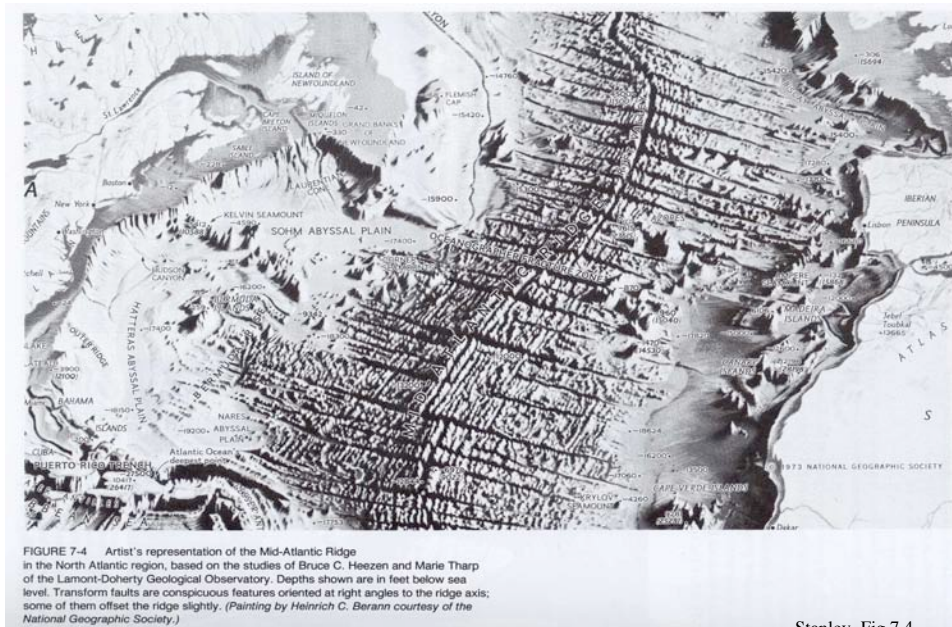




FIGURE 18-43 Mount Hood, one of the high peaks of the Cascade Range in Oregon. (Oregon State Highway Commission.)

Stanley, Fig.18.43

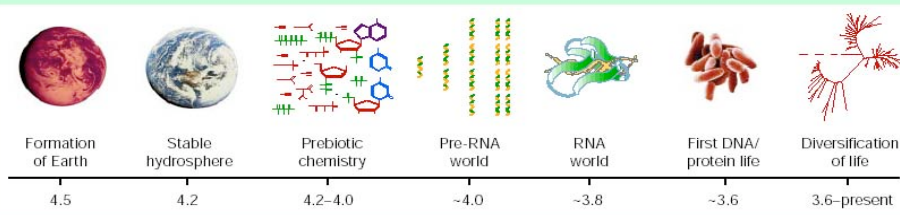
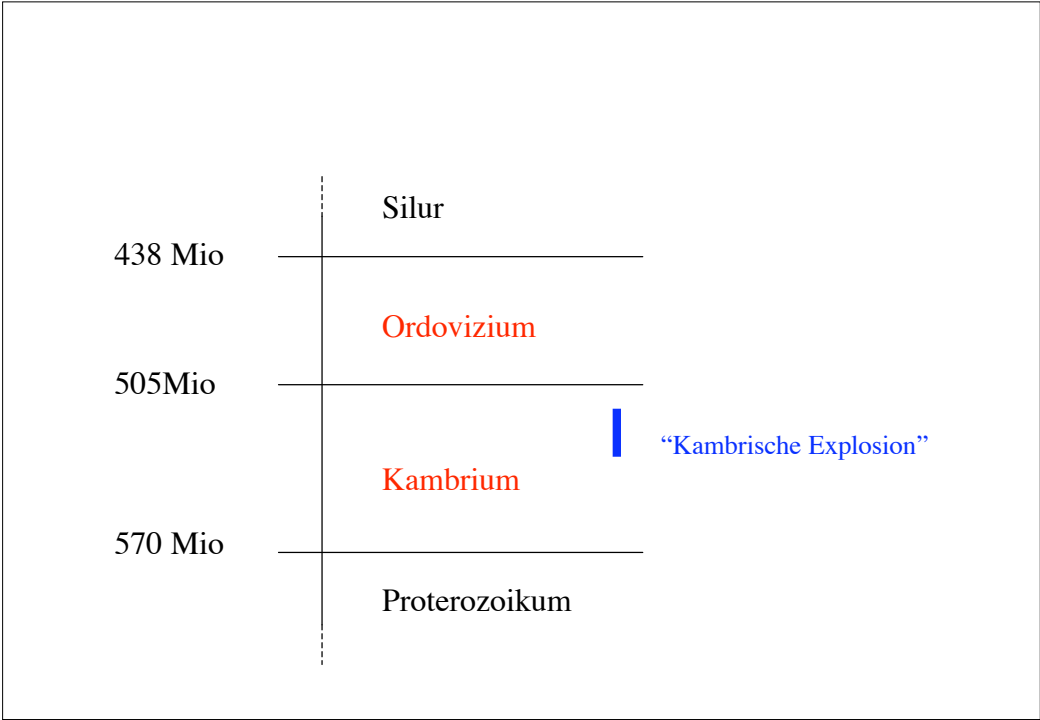
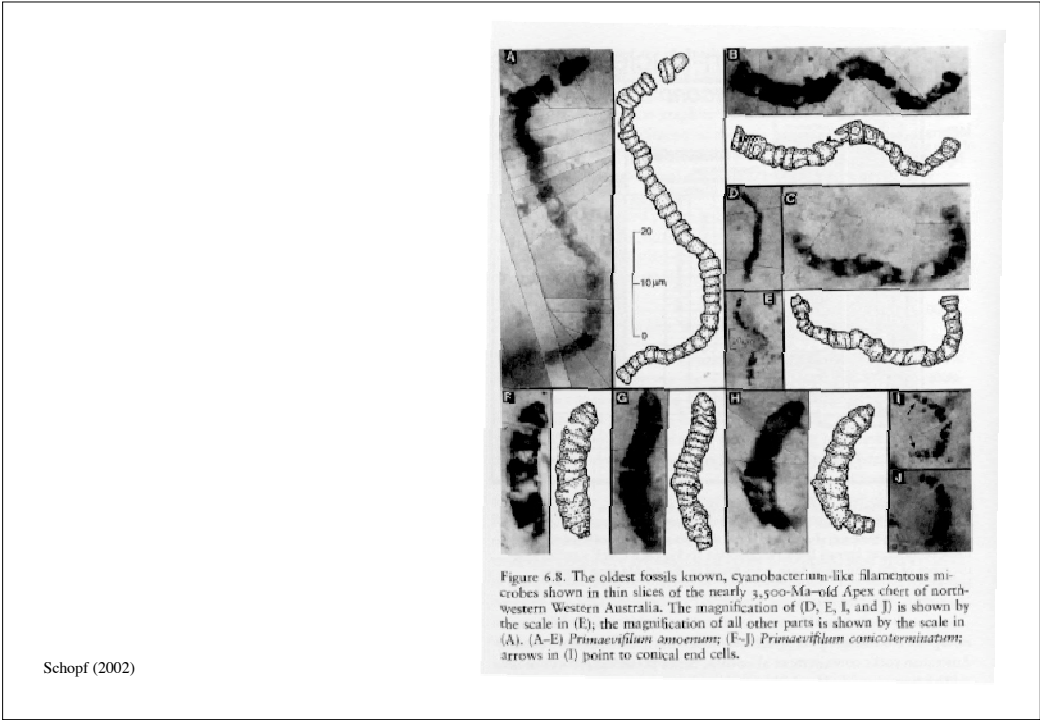
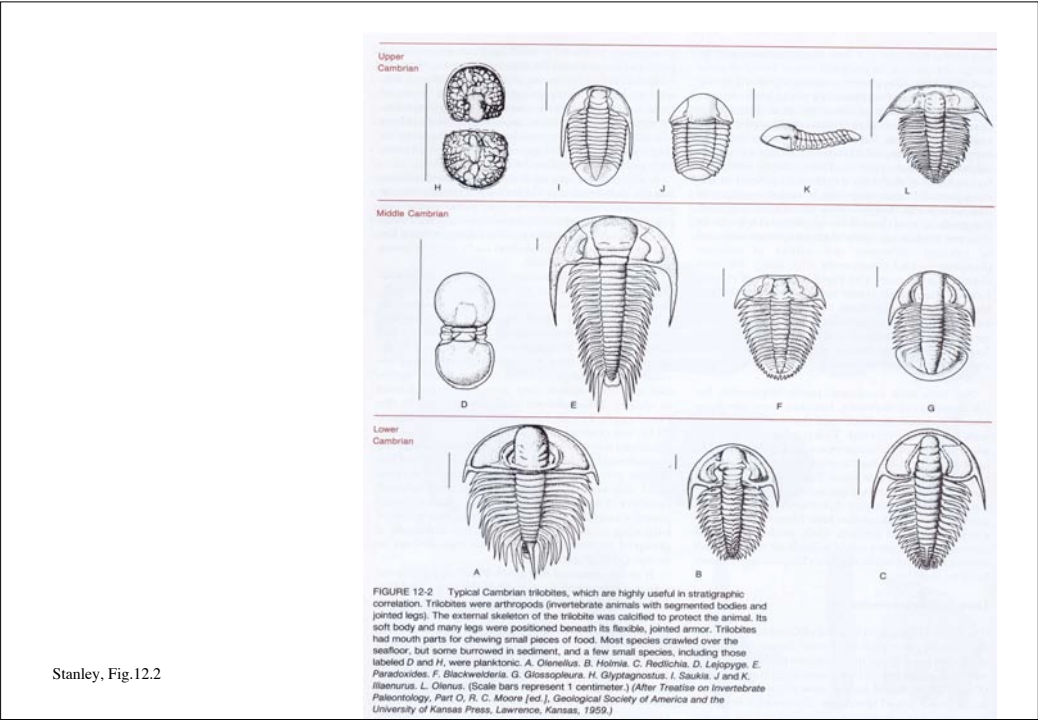
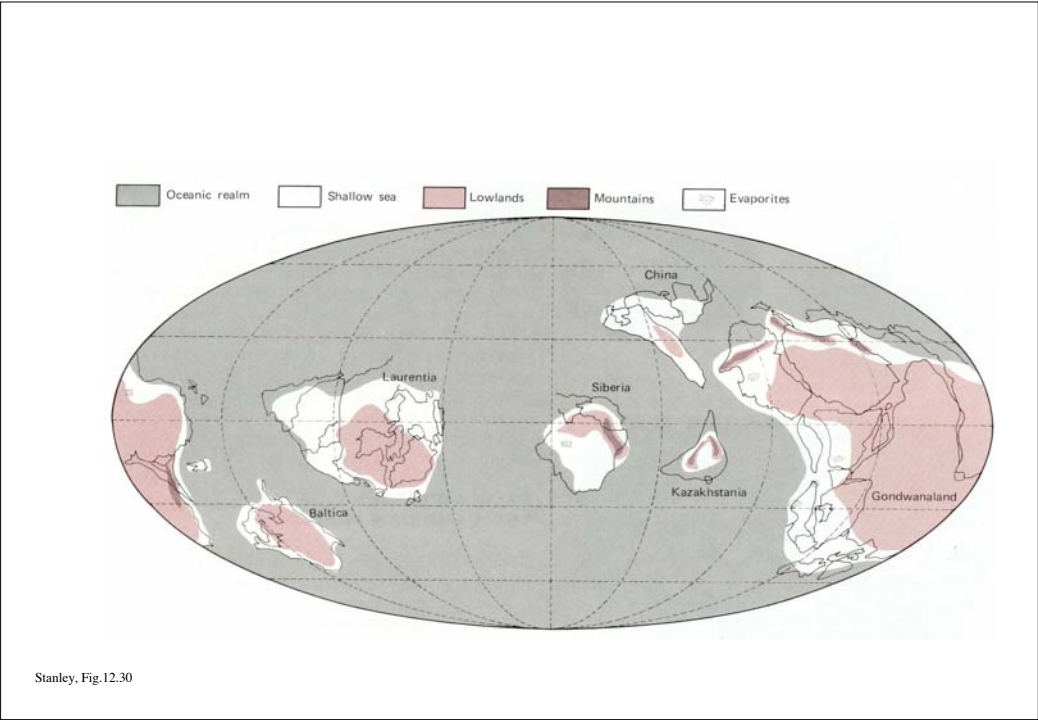


Figure 1 Timeline of events pertaining to the early history of life on Earth, with approximate dates in billions of years before the present.

Schopf et al. (2002)





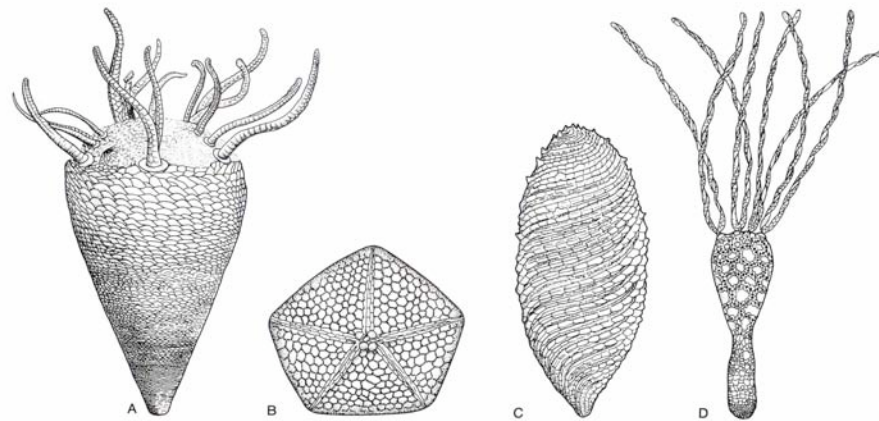
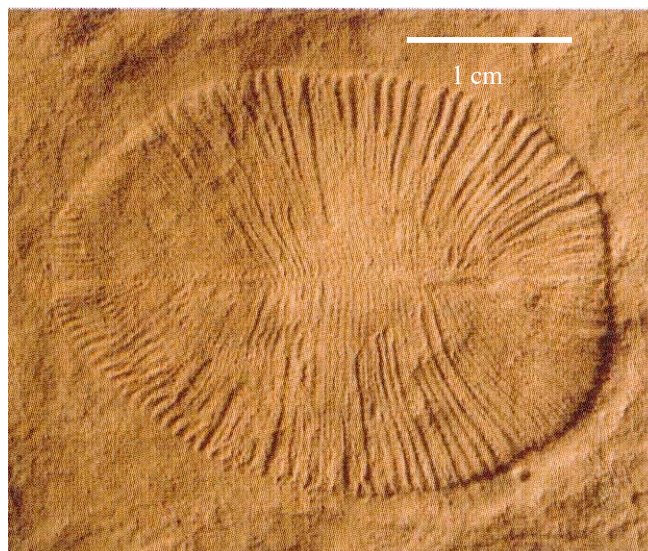


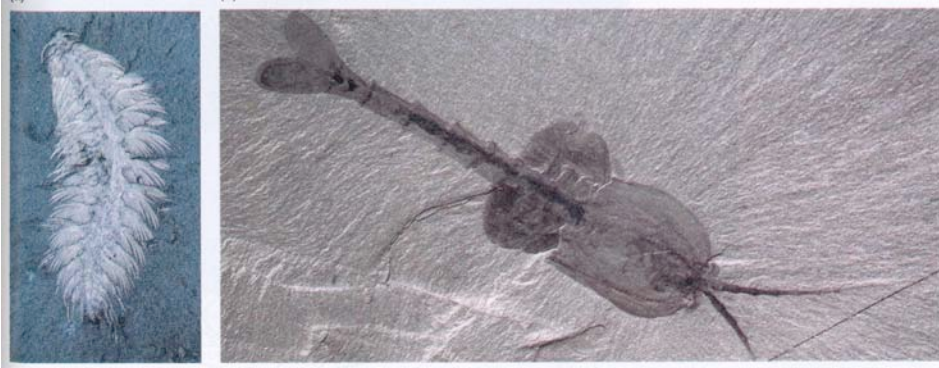
FIGURE 12-5 Strange Cambrian echinoderms that show no close relationship to any younger group. *A, B, and D.* Attached forms that were apparently suspension feeders. *C.* A flexible form that probably burrowed in sediment. Most living echinoderm groups, including starfishes and sea urchins, display a fivefold radial symmetry similar to that which can be seen in *B.* (After *Treatise on Invertebrate Paleontology, Part U*, R. C. Moore [ed.], the Geological Society of America and the University of Kansas Press, Lawrence, Kansas, 1966.)

Stanley, Fig. 12.5

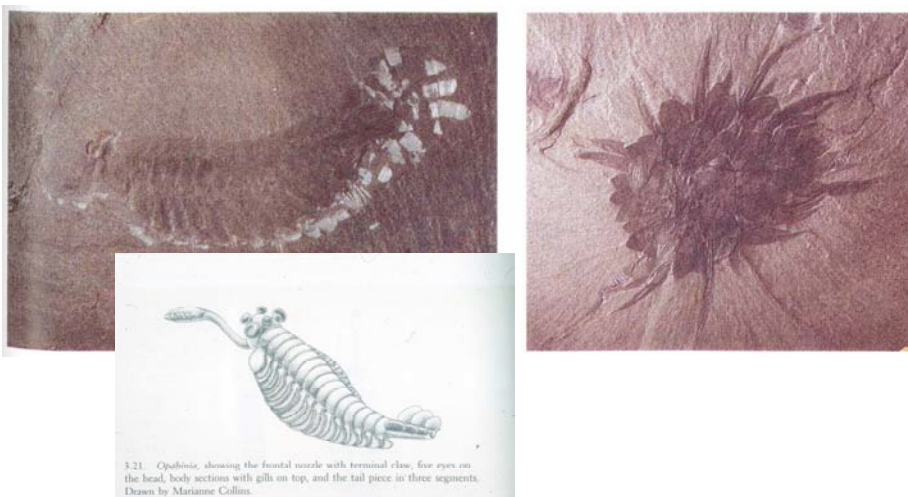
Dickinsonia



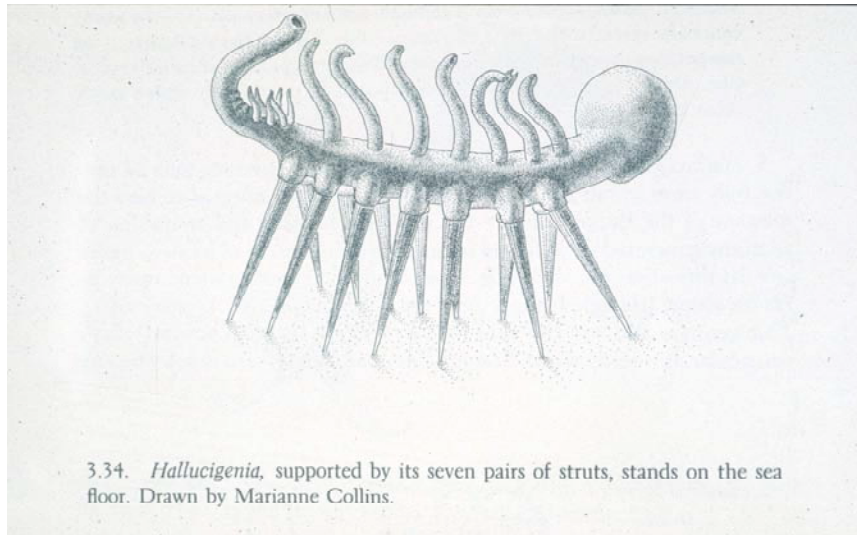
FH3, Fig. 17.6a



FH3, Fig.17.9

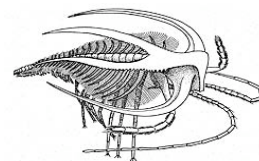
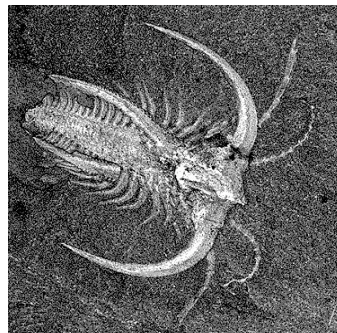


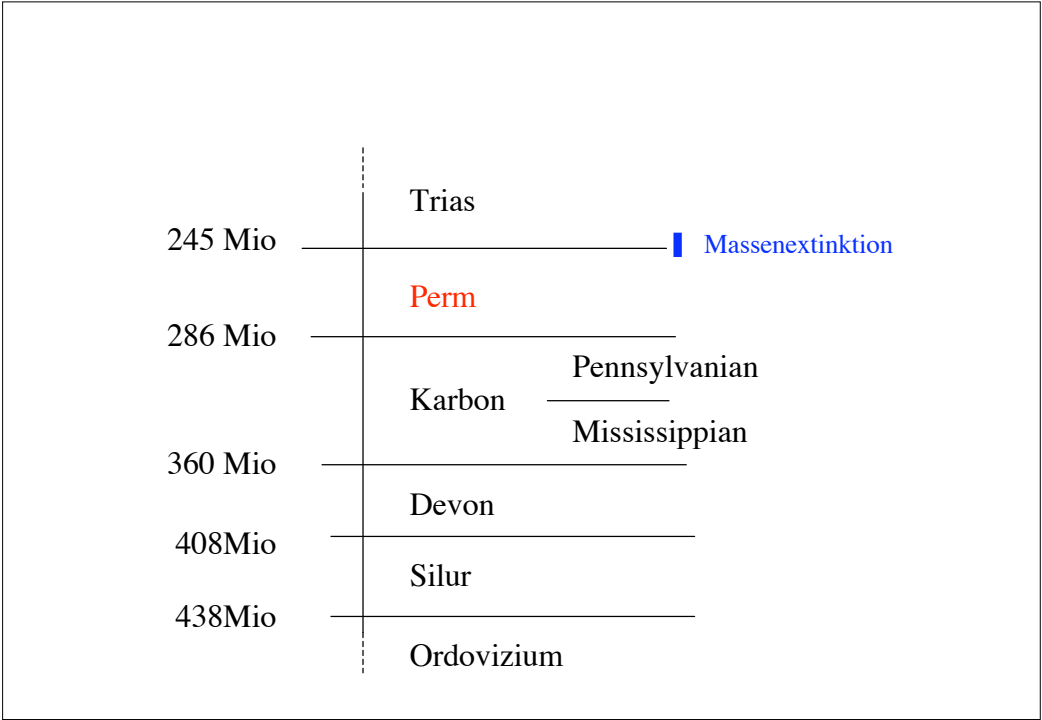
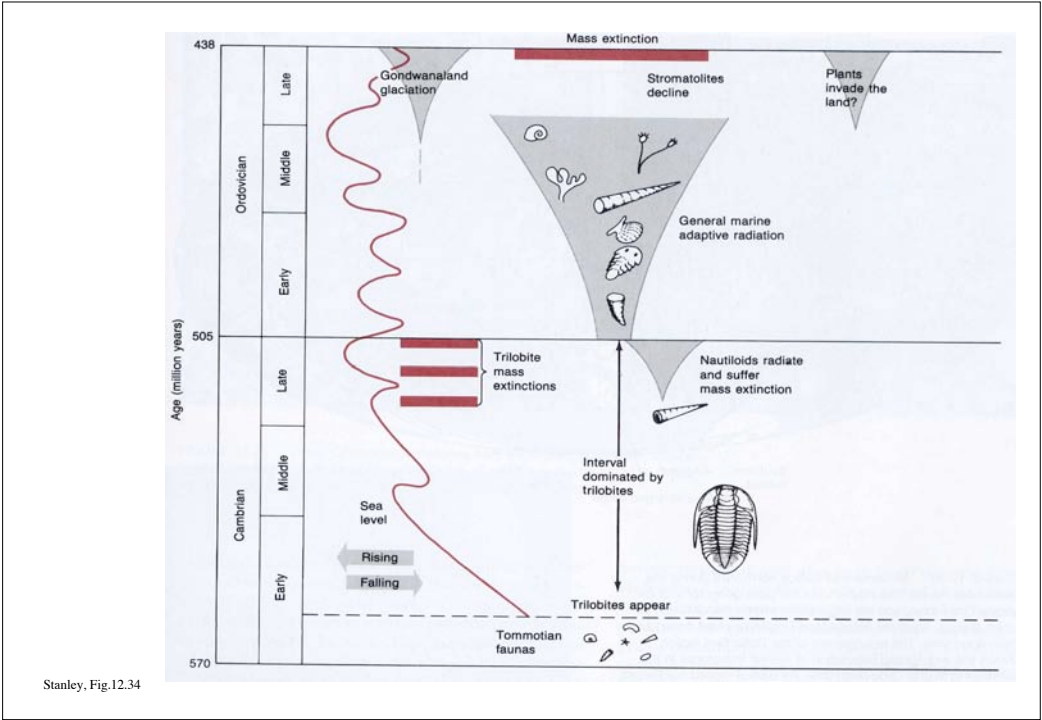
FH3, Fig.17.11

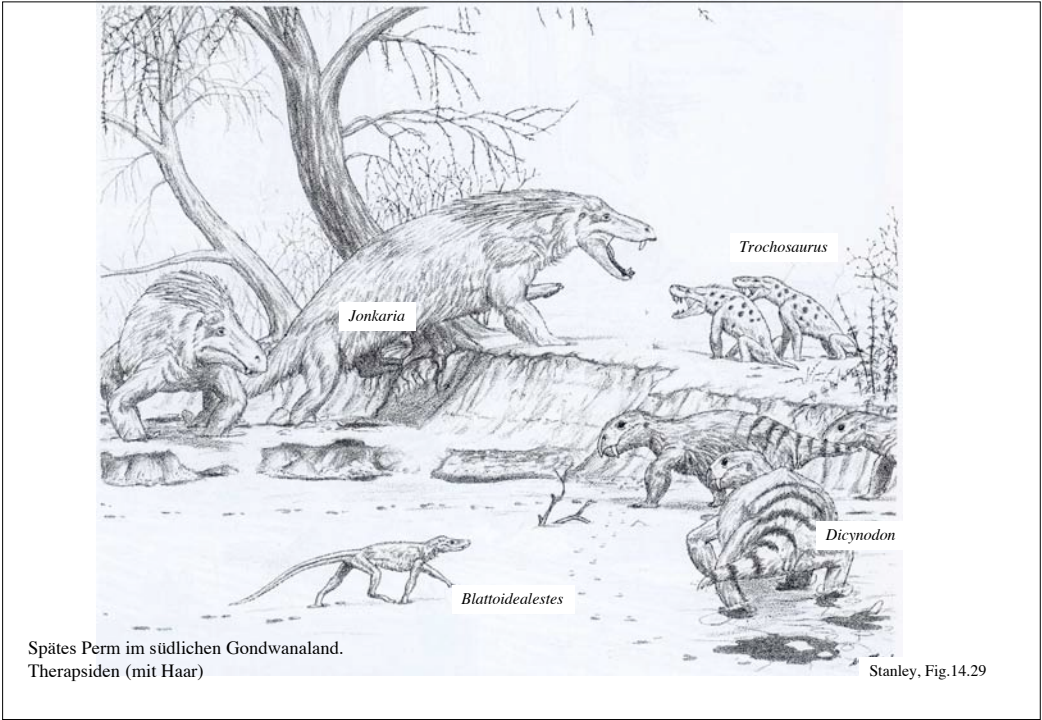
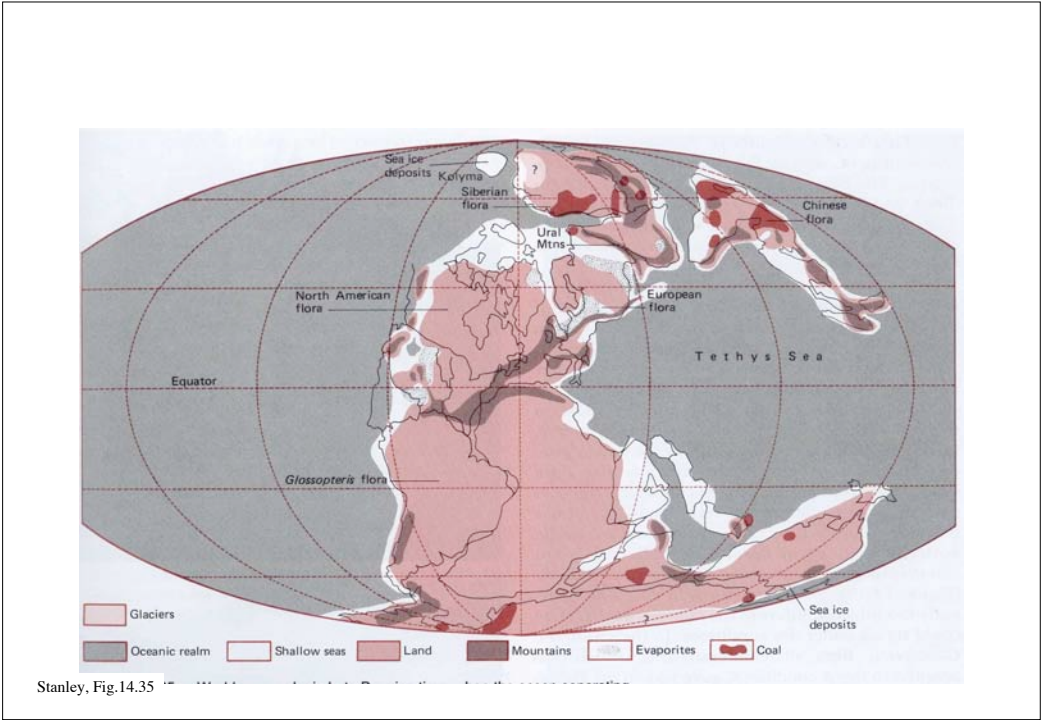


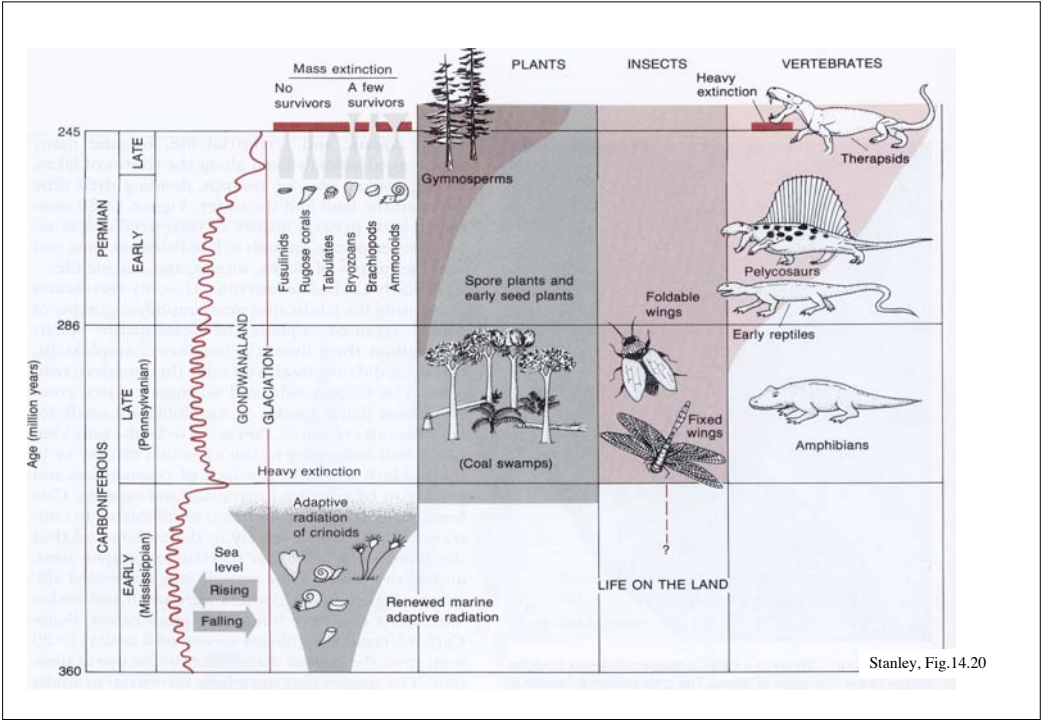
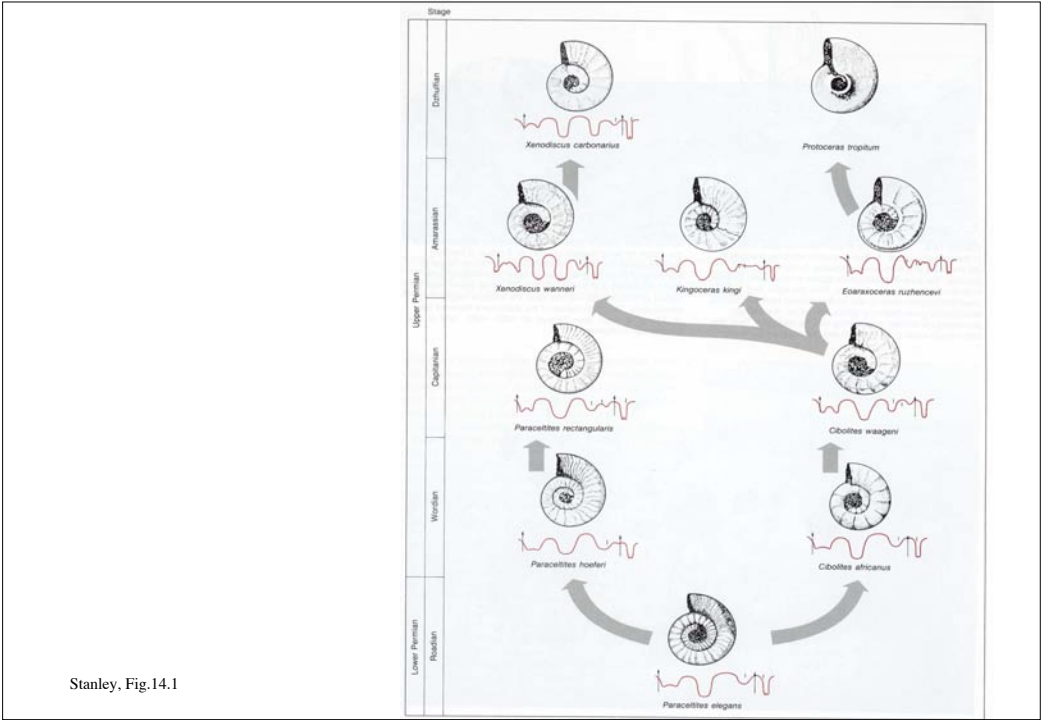
3.34. *Hallucigenia*, supported by its seven pairs of struts, stands on the sea floor. Drawn by Marianne Collins.

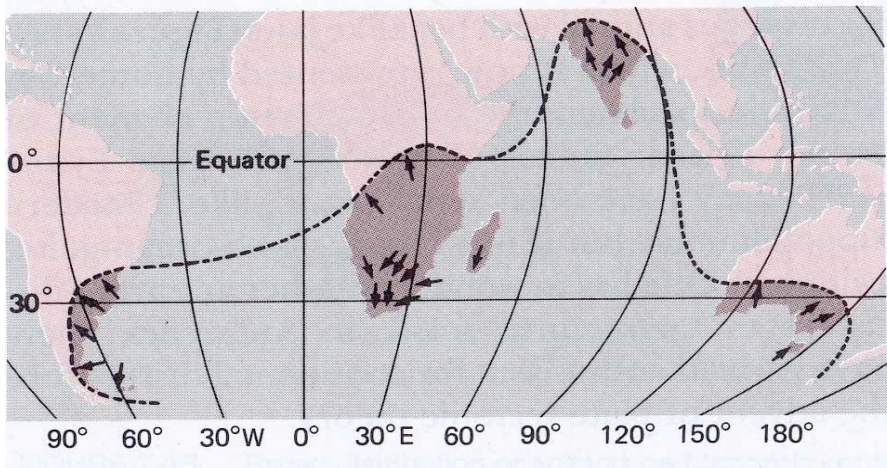
Gould: "Wonderful life"



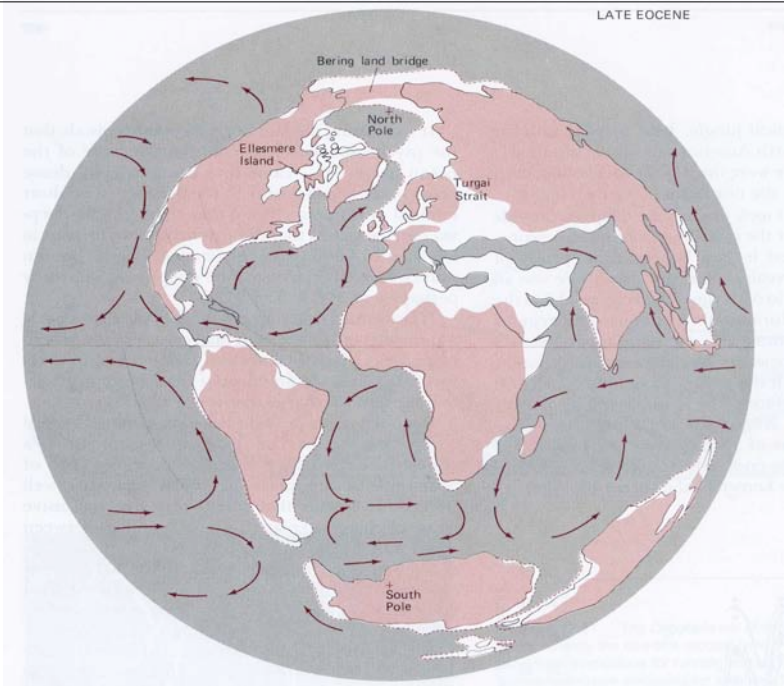




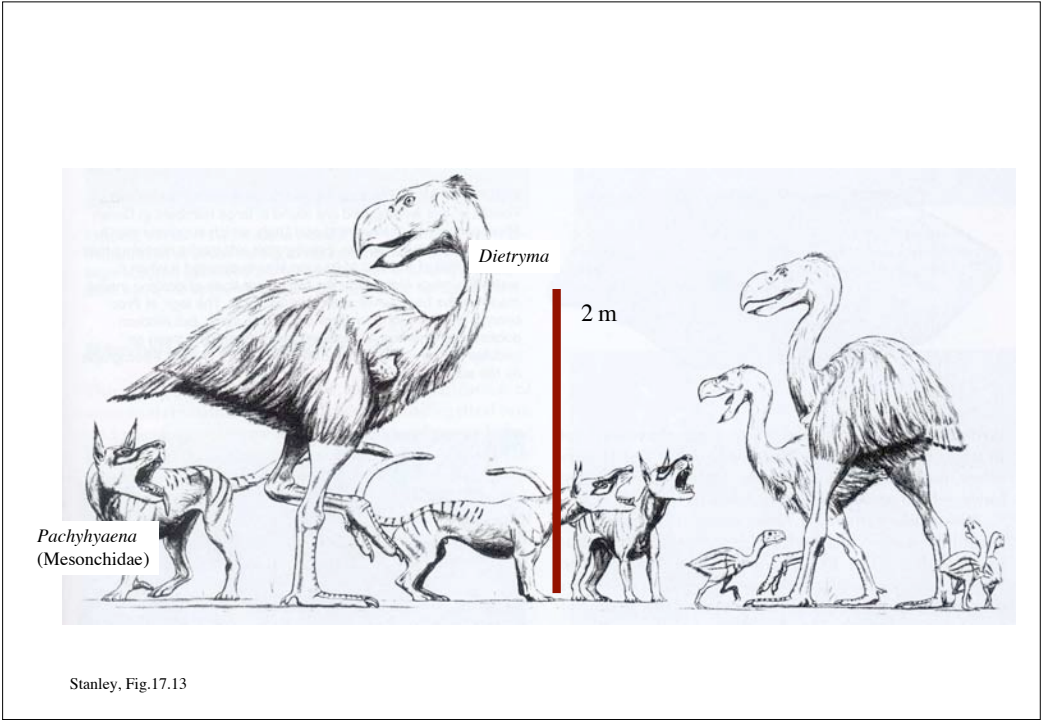
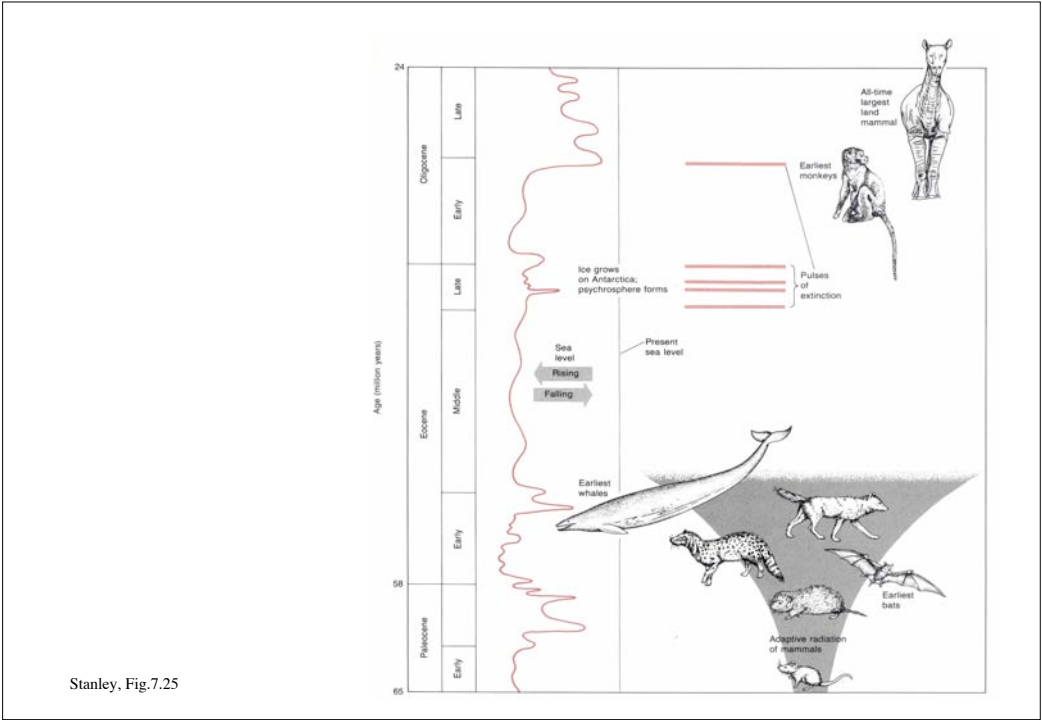




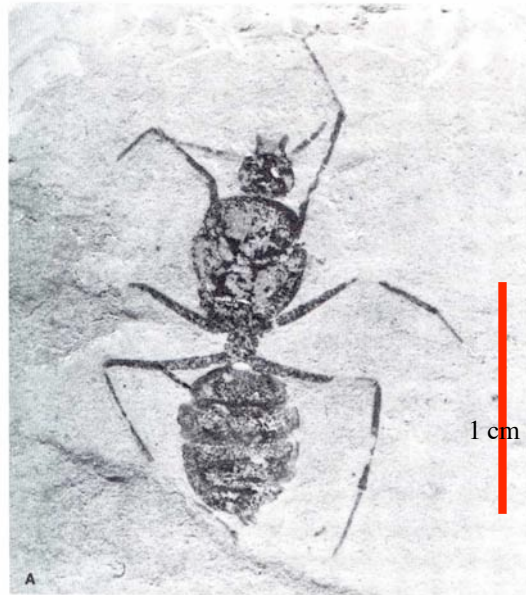
Stanley, Fig.7.12



Stanley, Fig.17.24



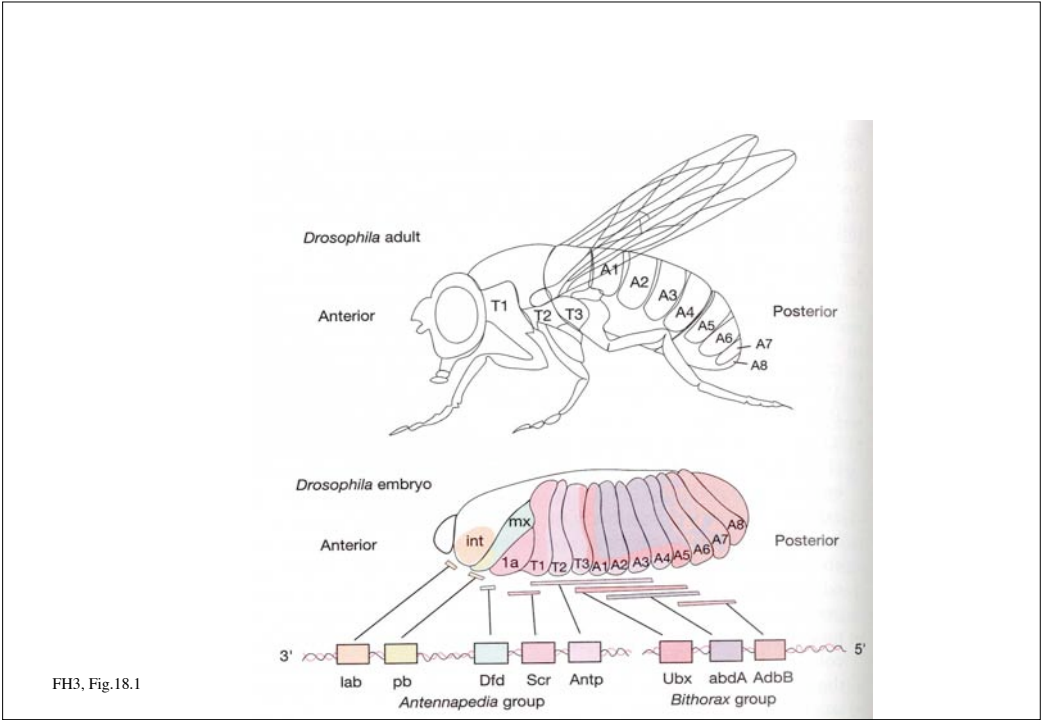
Liometopum (Formicidae)



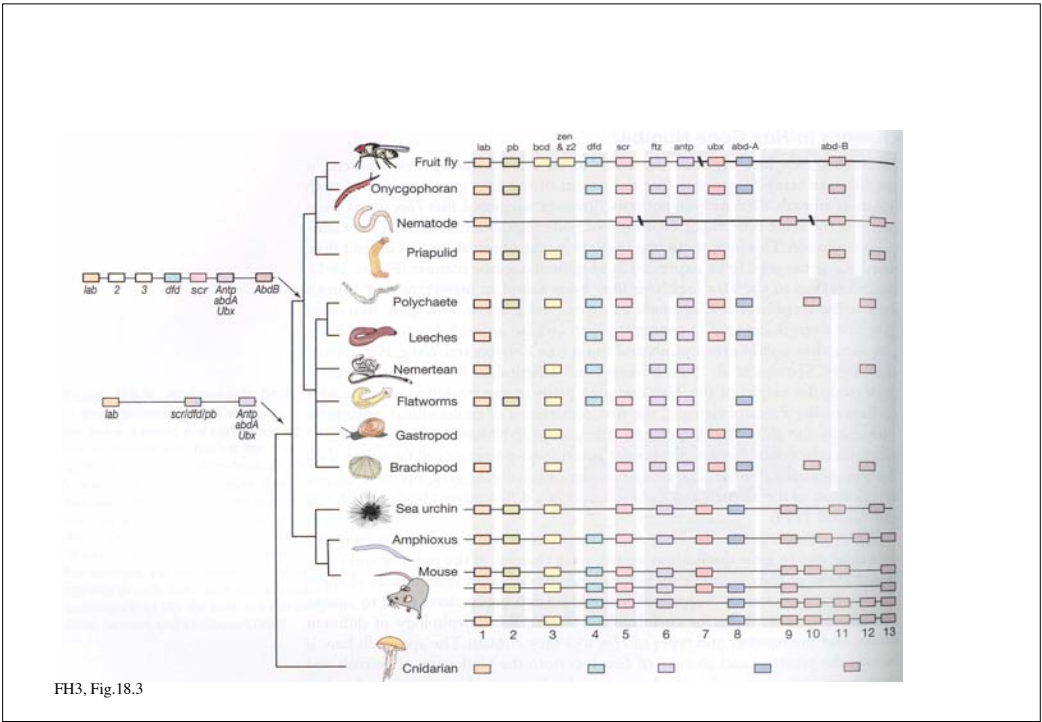
Stanley, Fig.17.16

Heute		
		Pleistozän (Quartär)
1.67 Mio		
		Pliozän
5 Mio		
		Miozän
24 Mio		
		Oligozän
37 Mio		
		Eozän
58 Mio		
		Paläozän
66 Mio		
		Kreide

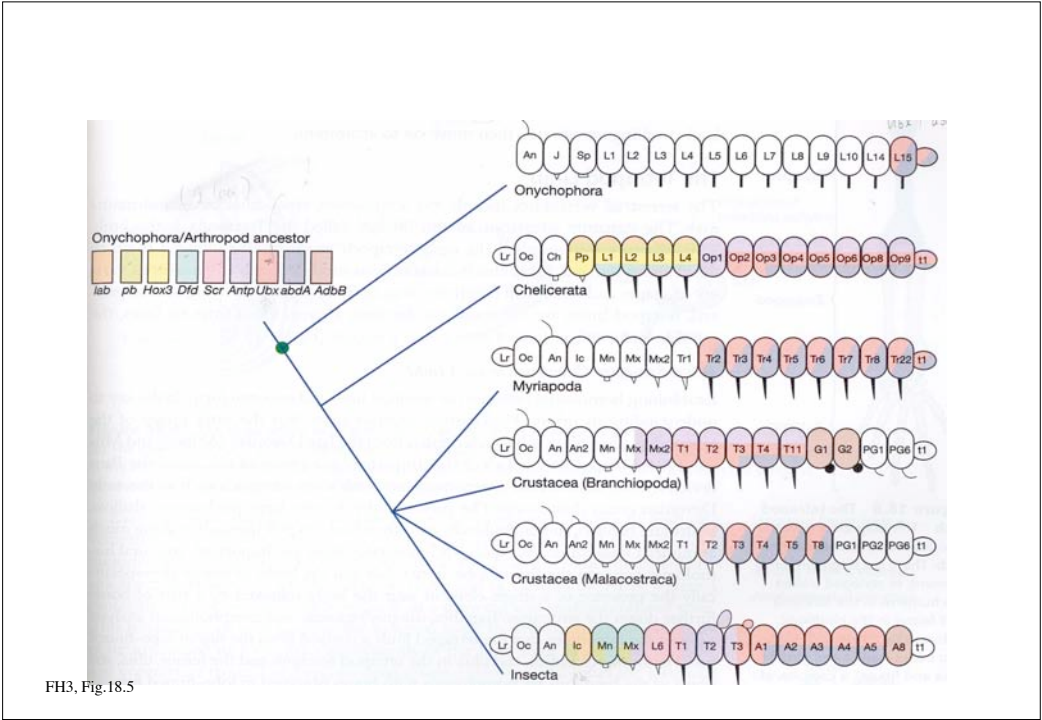
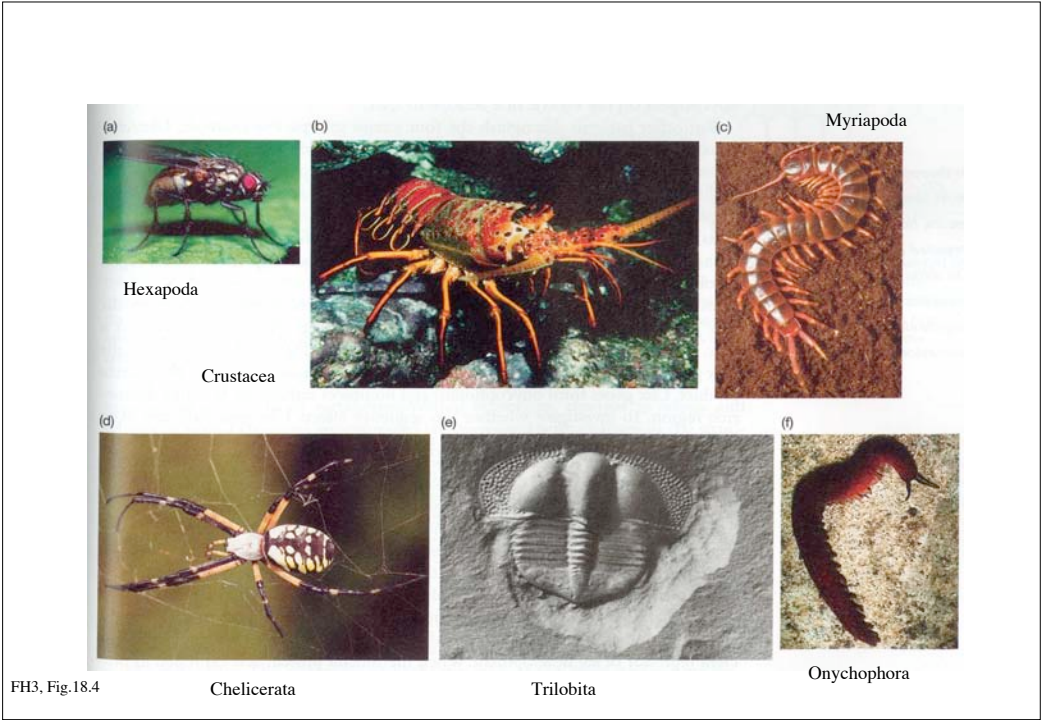
← “K/T-Grenze”

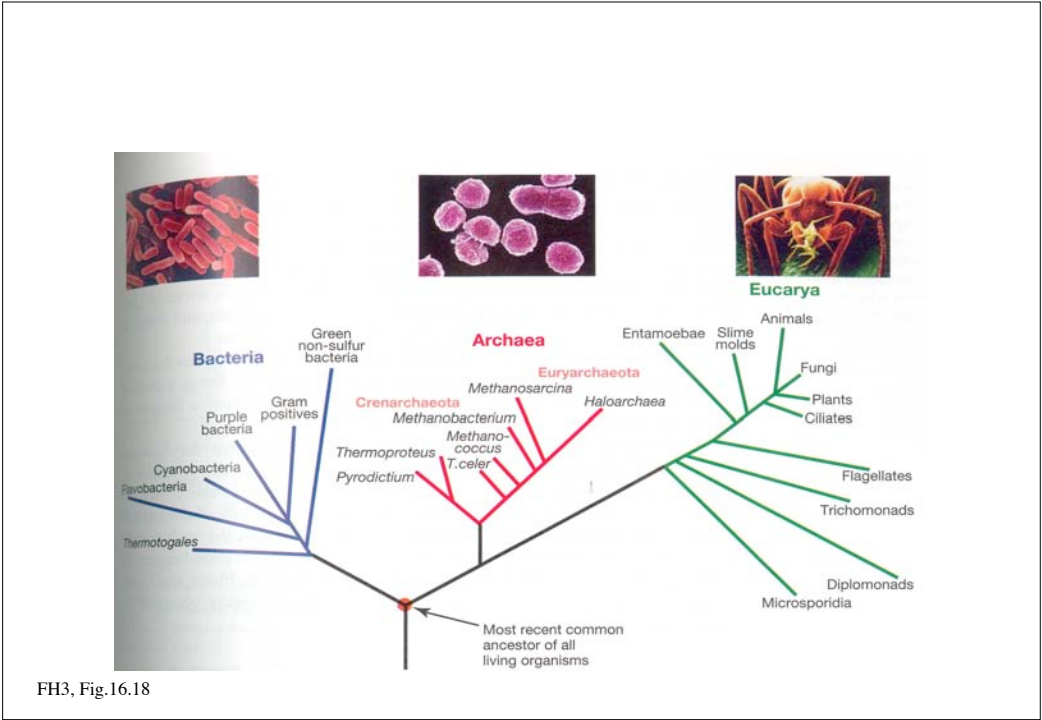


FH3, Fig.18.1

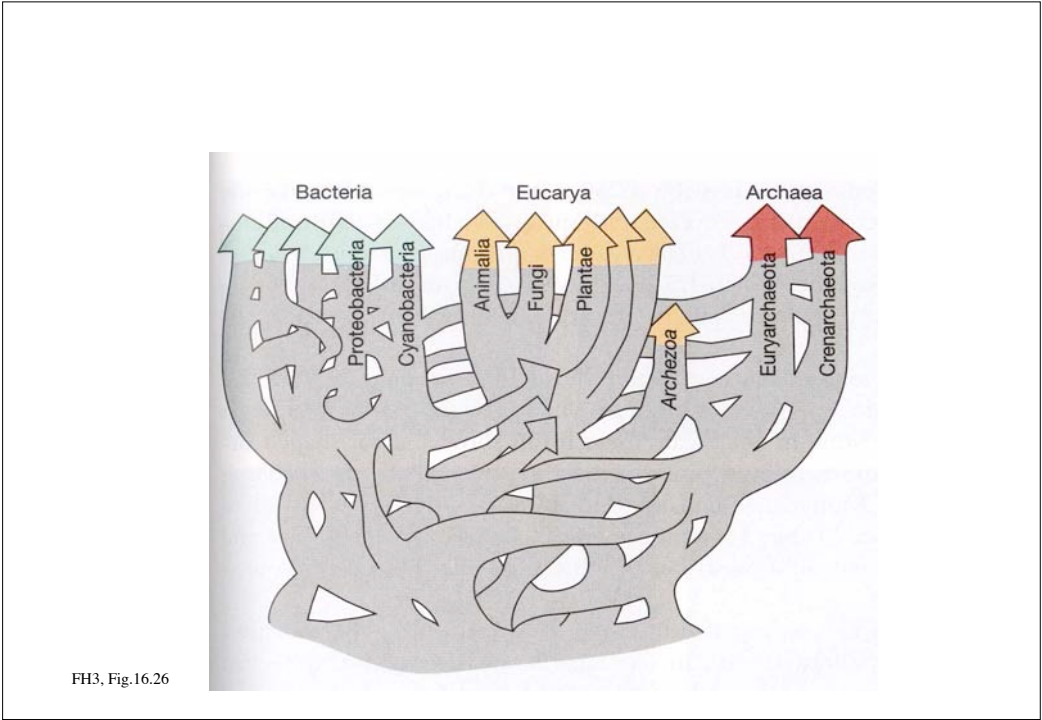


FH3, Fig.18.3



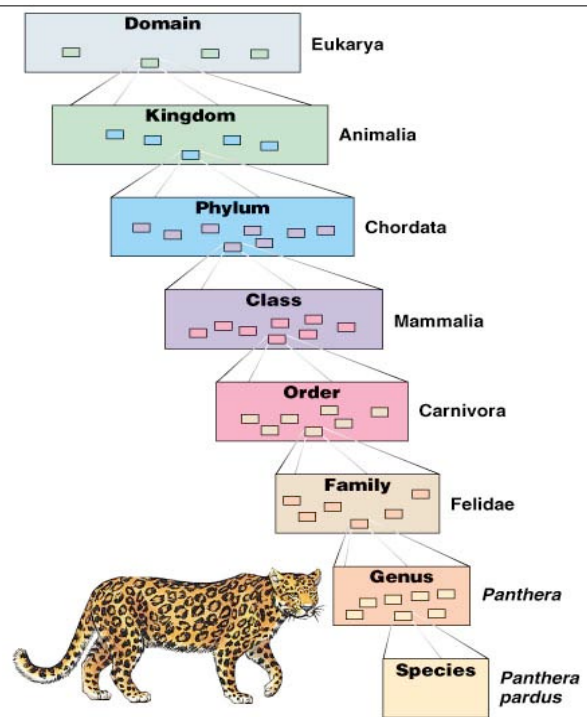


FH3, Fig.16.18



FH3, Fig.16.26

Carl von Linné (Carolus Linnaeus)
(1707 - 1778)



Campbell 6, Fig.25.7

