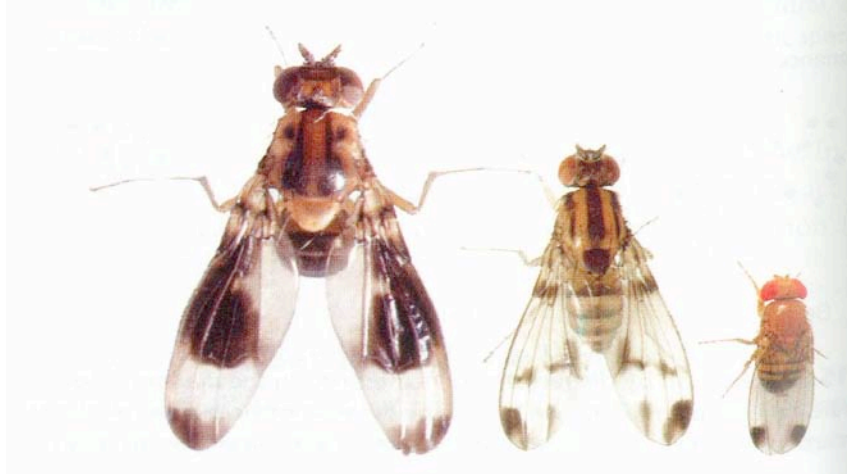


Makroevolutive Muster

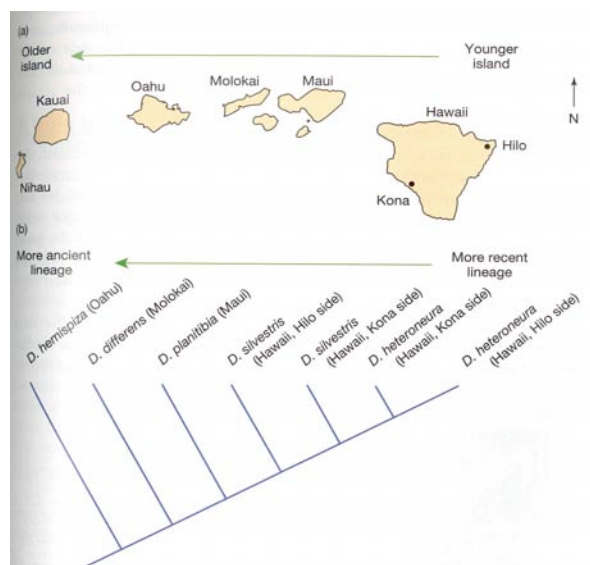
Thema 3



Oxford



FH3, Fig 15.6



FH3, Fig 15.7



Stanley, Fig.7.42



Stromatoliten



Ginkgo

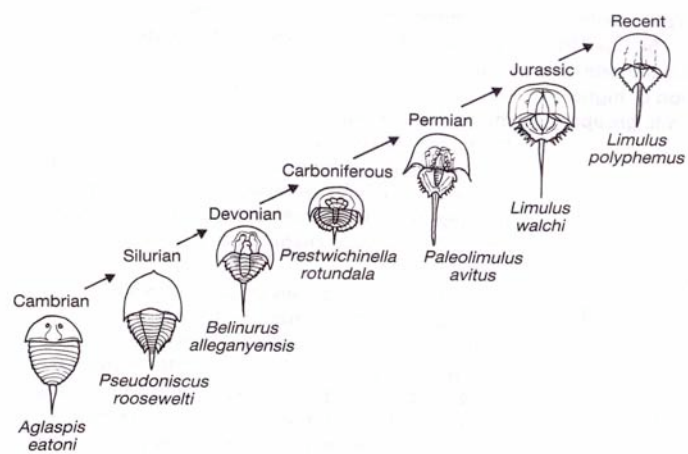
rezent

fossil

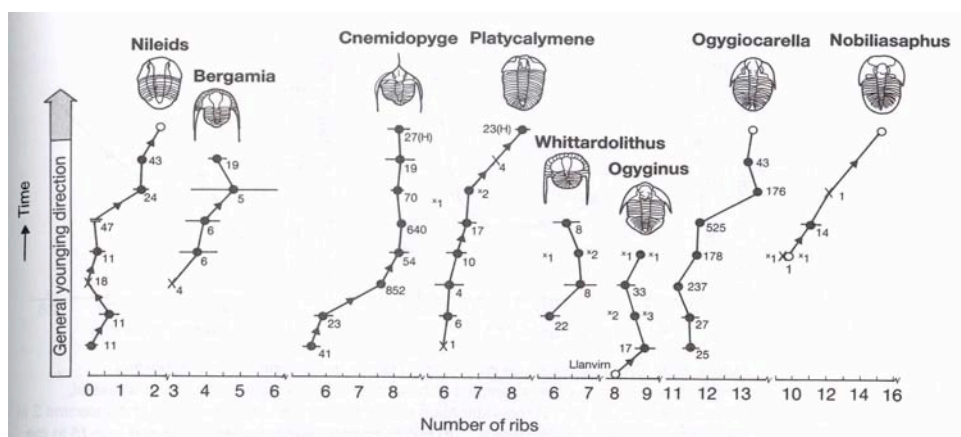
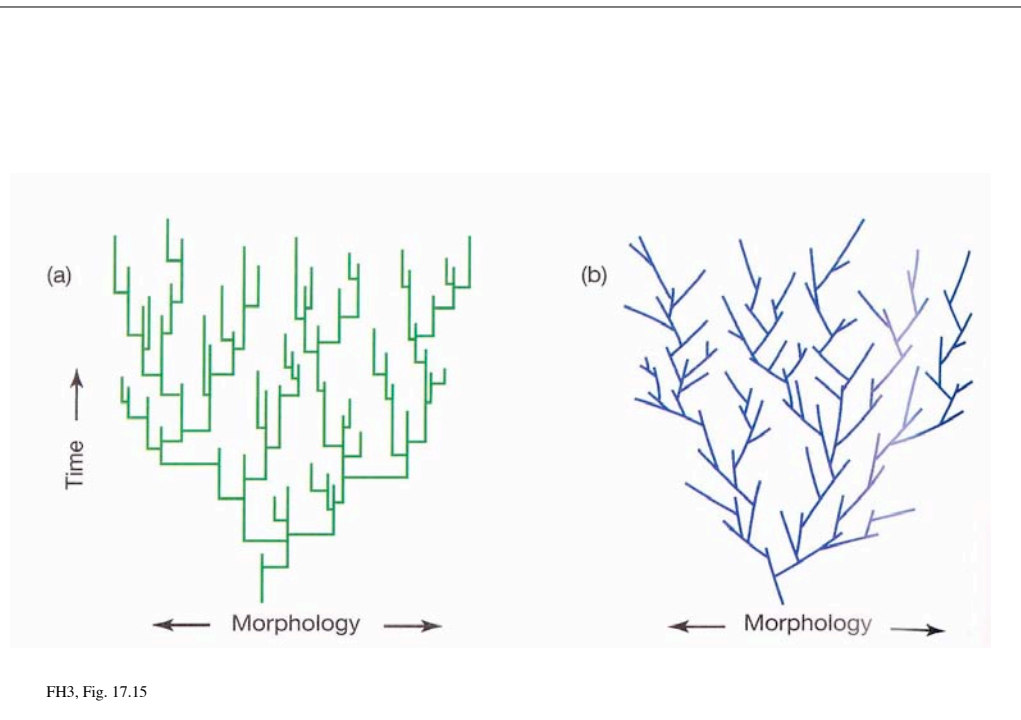
FH3, Fig 17.17



Campbell 6, Fig. 34.2

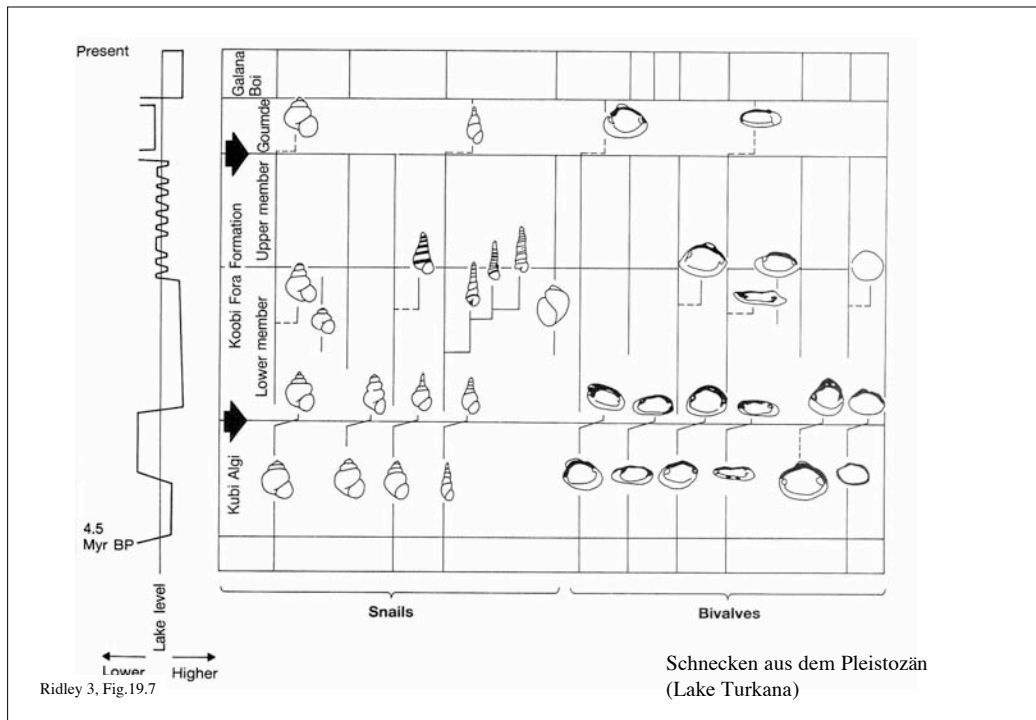


Ridley1, Fig 19.12



Trilobiten aus dem Ordovizium
(total 3 Mio Jahre)

Ridley1, Fig 19.8



Latimeria



Dicksonia

Sphenodon

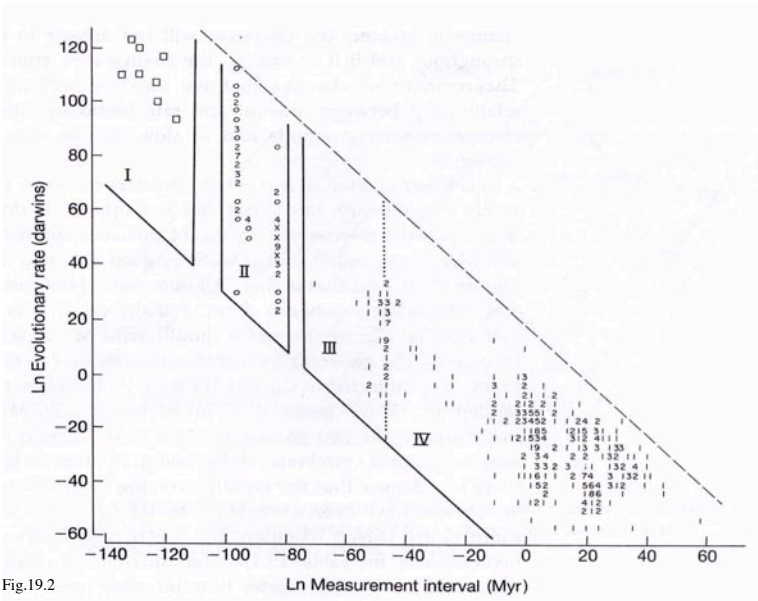


Oxford

Domain	Sample size	Evolutionary rate (d)		Time interval	
		Range	Geometric mean	Range	Geometric mean
I Selection experiments	8	12 000–200 000	58 700	1.5–10 yr	3.7 yr
II Colonization	104	0–79 700	370	70–300 yr	170 yr
III Post-Pleistocene Mammalia	46	0.11–32.0	3.7	1000–10 000 yr	8200 yr
IV Fossil Invertebrata and Vertebrata	363	0–26.2	0.08	8000 yr–350 Myr	2.8 Myr
Fossil Invertebrata alone	135	0–3.7	0.07	0.3–350 Myr	7.9 Myr
Fossil Vertebrata alone	228	0–26.2	0.08	8000 yr–98 Myr	1.6 Myr
I to IV combined	521	0–200 000	0.73	1.5 yr–350 Myr	0.2 Myr

d, darwins; yr, years; Myr, million years ago.

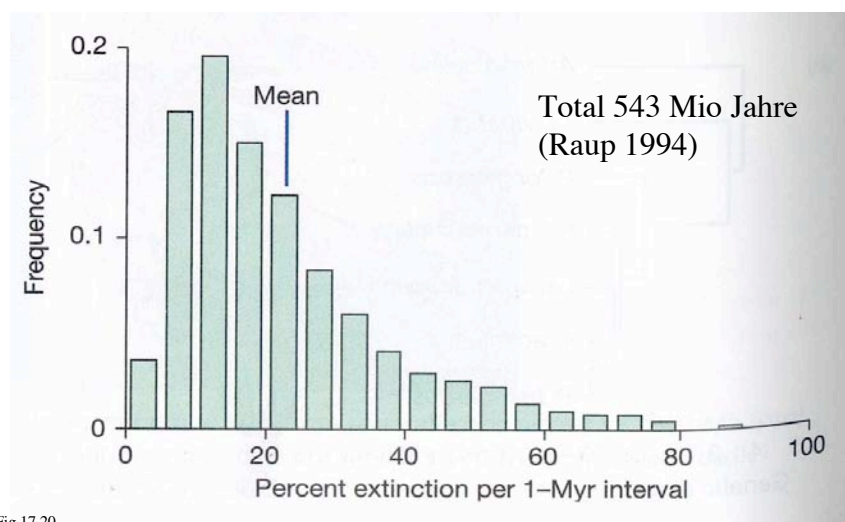
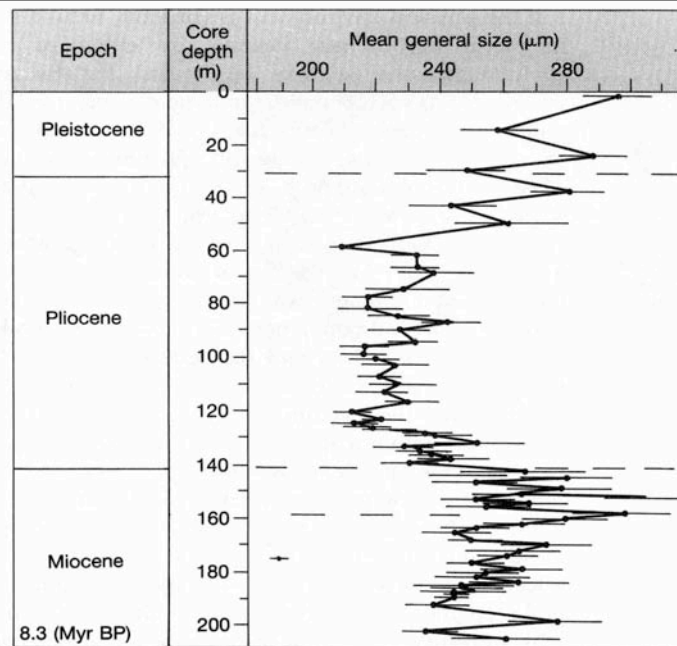
Ridley I, Tab.19.1



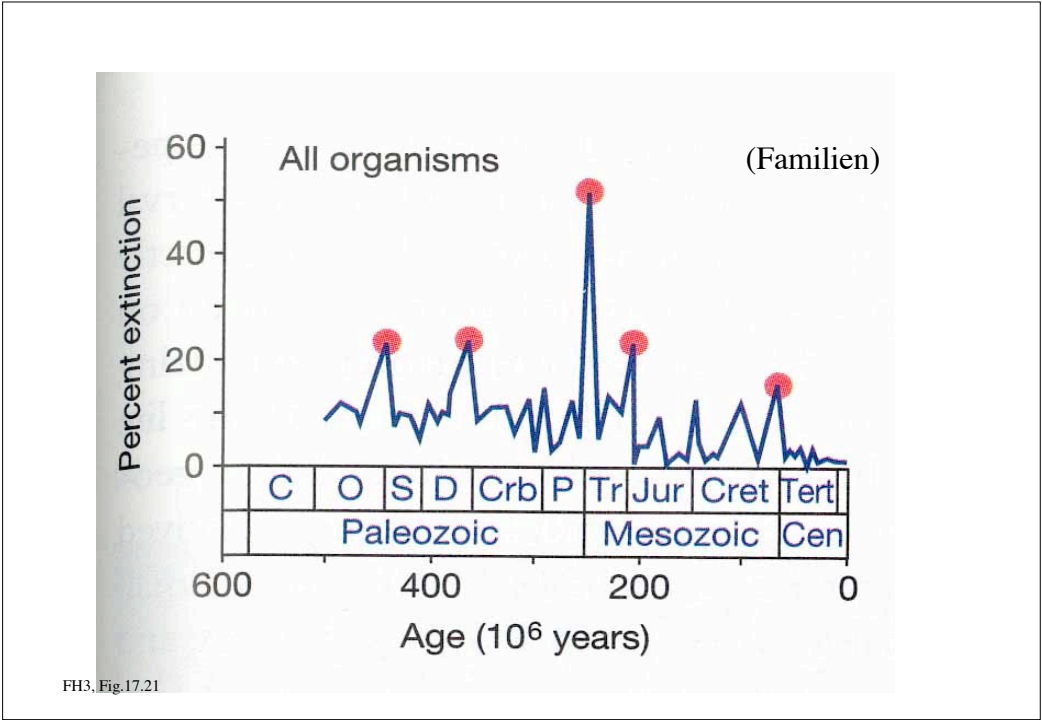
Ridley I, Fig.19.2

Körpergrösse von
Foraminiferen
(*Globorotalia*
conoidea / inflata)

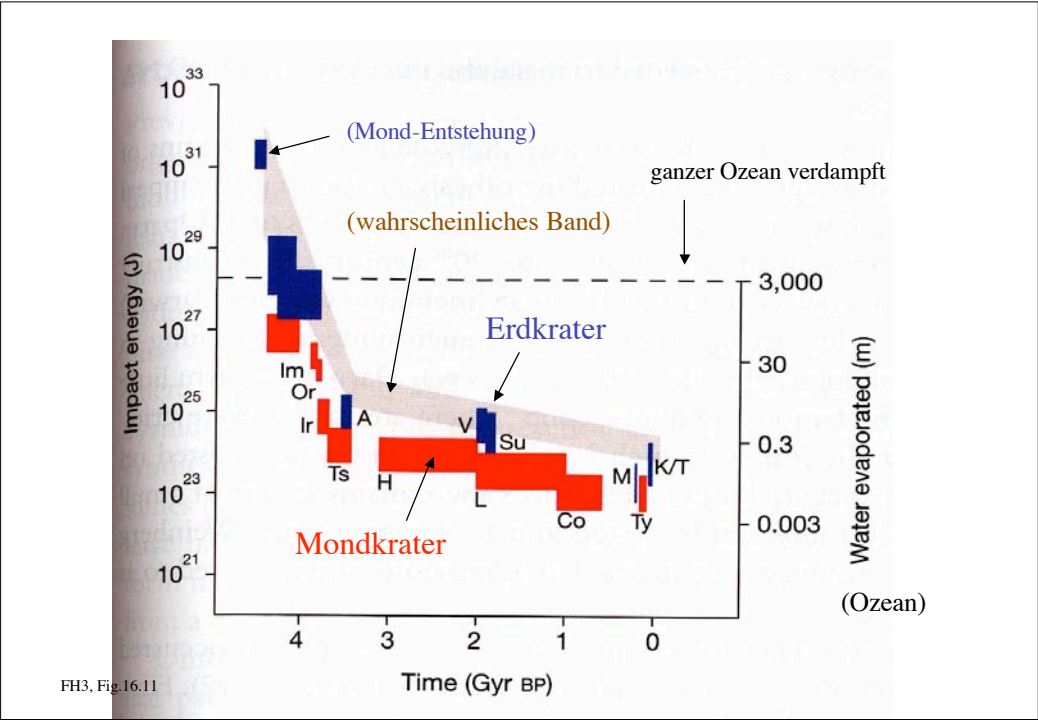
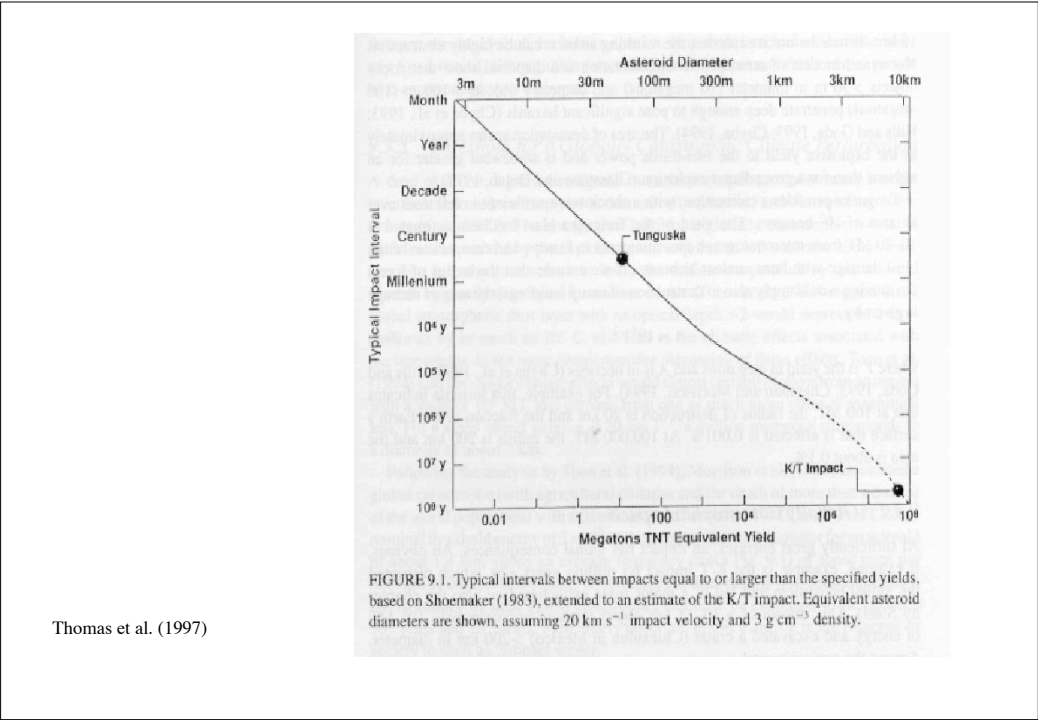
Ridley 3, Fig.21.5



FH3, Fig.17.20

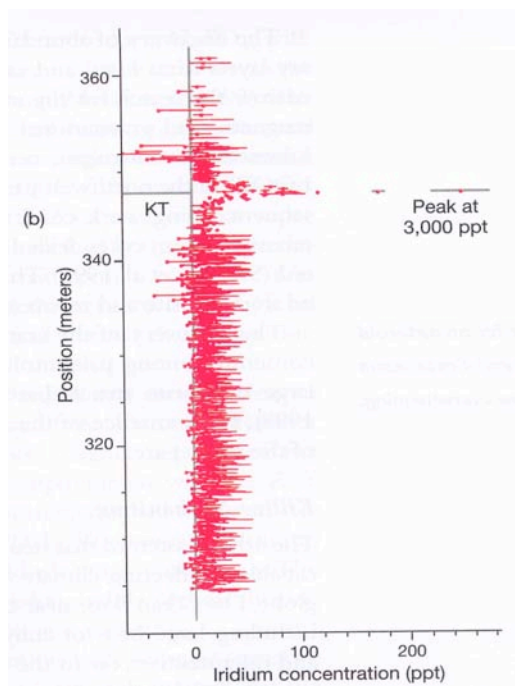


Zeit ca. Mio	Epoche	Fam %	Gen %	Sp %	Bemerkungen
438	Ende Ordovizium		61	85	Eiszeiten auf Gondwanaland, nach stabiler Periode.
360	Ende Devon	21	55	82	Globale Abkühlung, evtl. O ₂ -Defizit in flachen Meeren.
248	Ende Perm	57	84	96	Grösste Extinktion seit Beginn. Vorgängig anhaltende Periode der Abkühlung, Regression der Meere. Verkleinerung der flachen, warmen Meere.
213	Ende Trias	27 *			Klimänderung, gekoppelt mit Regression der Meere.
65	Ende Kreide	58**	47	76	Meteoreinschlag, K-T Grenze mit viel Iridium (Iridium-Anomalie)
Heute		?	?	?	Vom Menschen verursacht. Habitatzerstörung. Klimawandel.

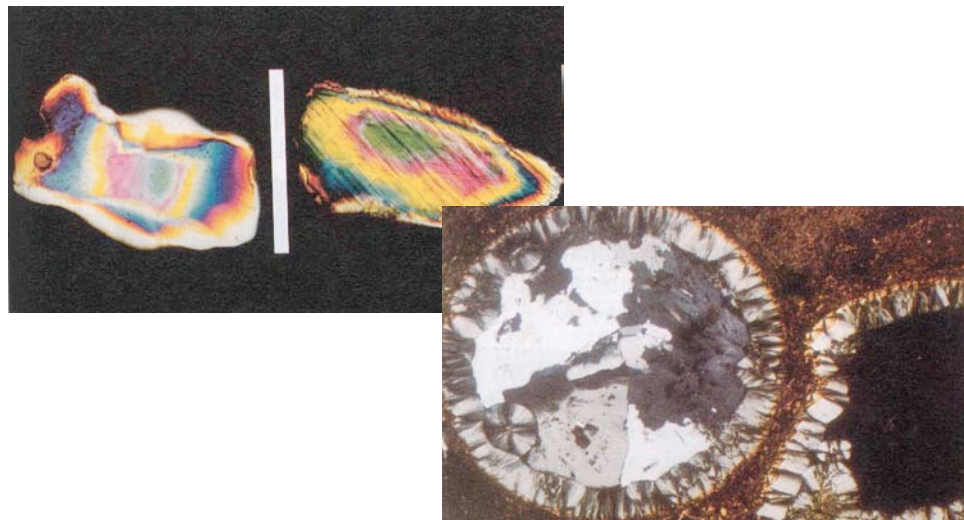




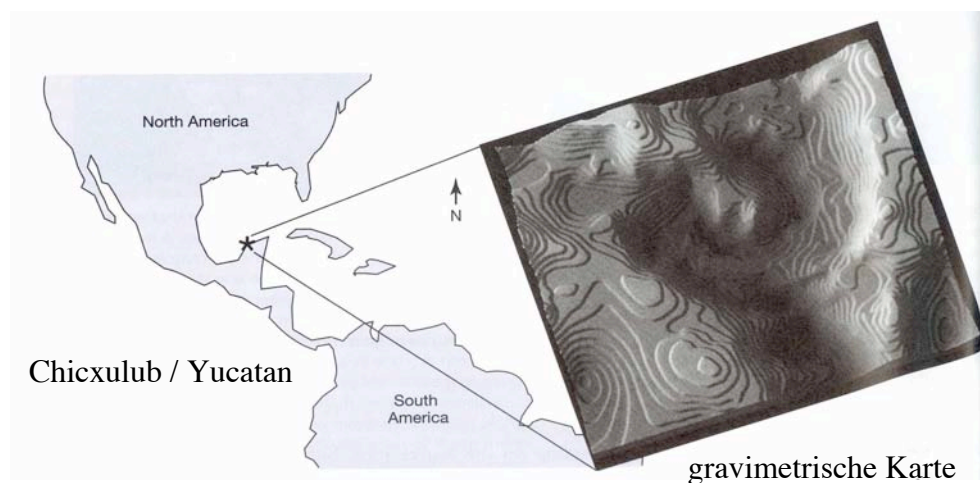
FH3, Fig.17.25a



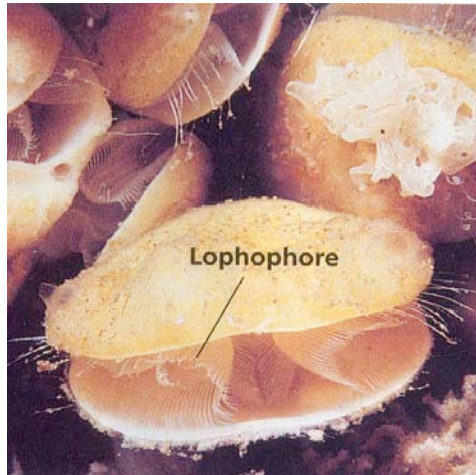
FH3, Fig.17.25b



FH3, Fig.17.25c,d



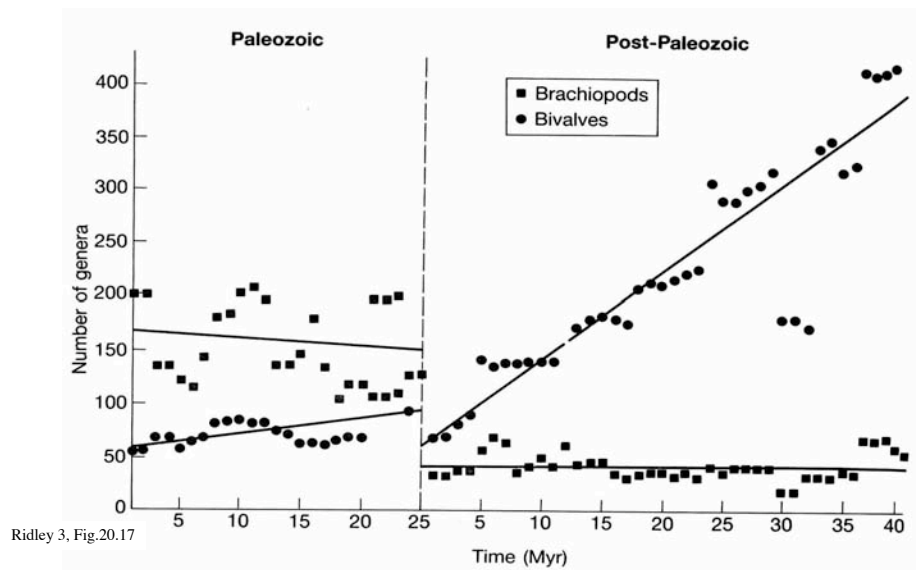
FH3, Fig.17.26



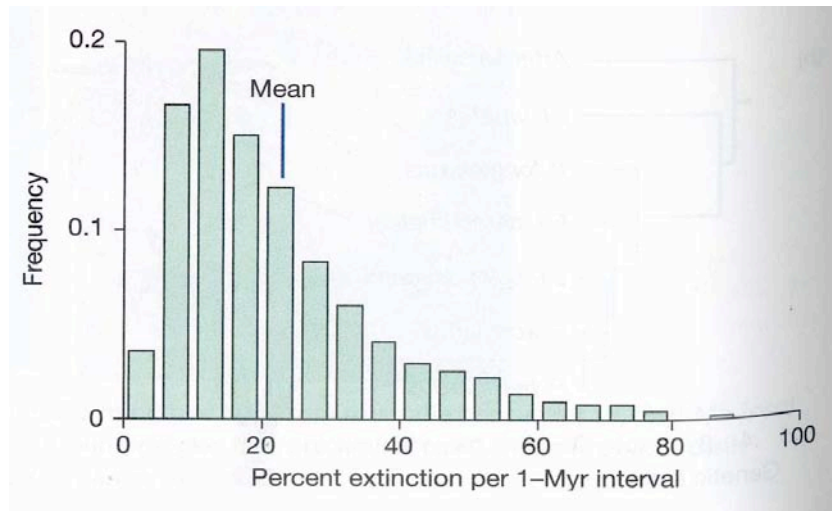
Campbell5, Fig 33.14b



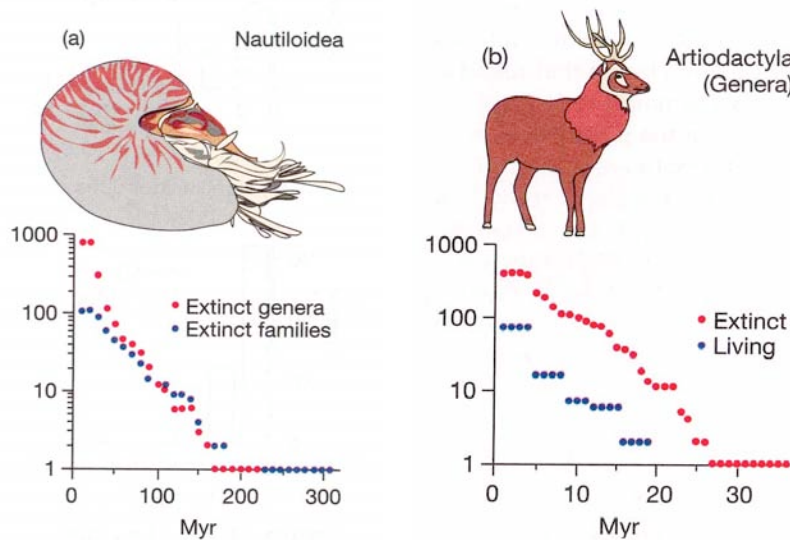
Campbell 5, Fig 13.20



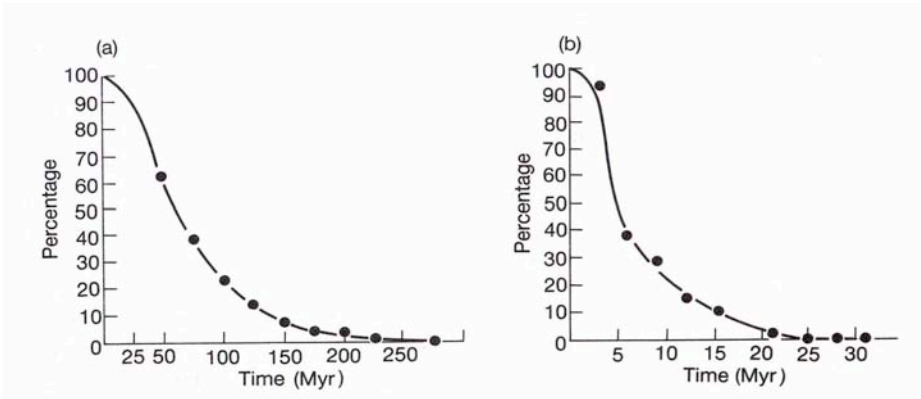
Ridley 3, Fig.20.17



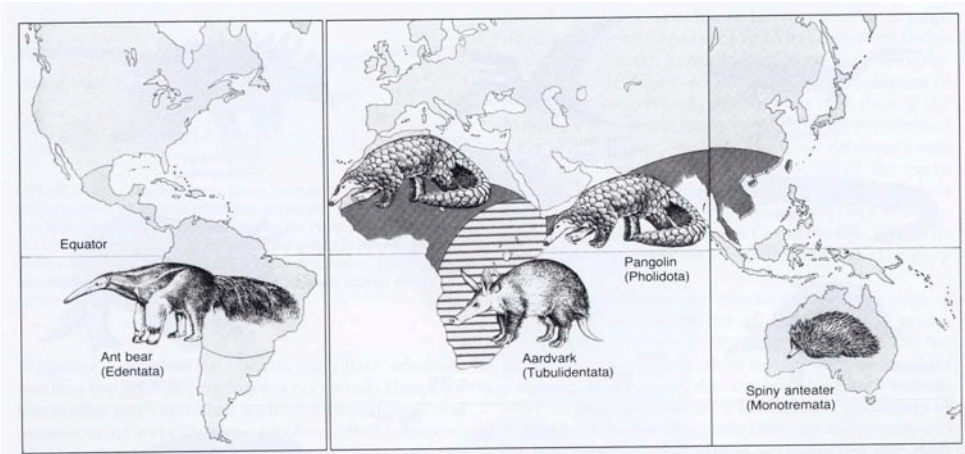
FH3, Fig.17.20



FH3, Fig.17.22



Ridley 1, Fig 19.14



Edentata

Tubulidentata

Monotremata

Stanley, Fig.7.16

