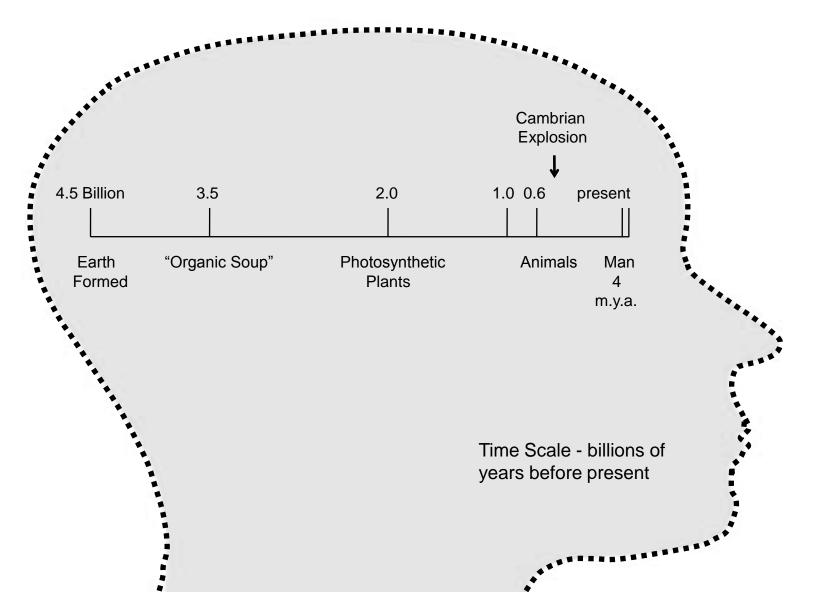
Fossils: The Hard Evidence

Gerald Lenner, Ph.D. March 19, 2010

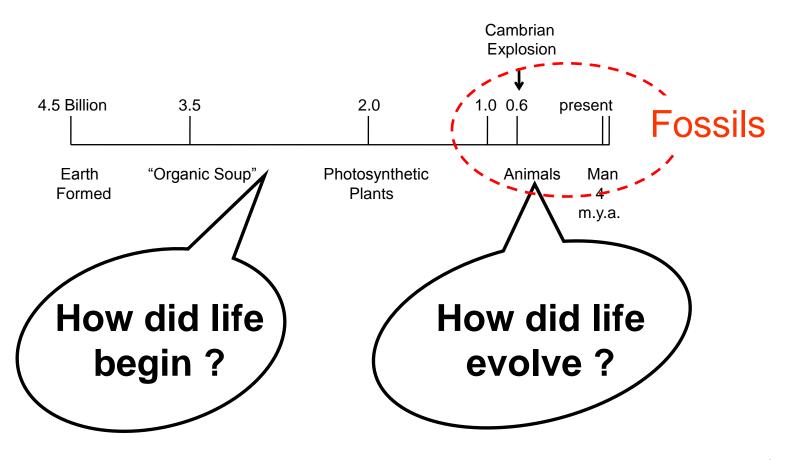
Talk Outline

- Fossil Display
- Typical Fossil Formation
- Gaps in the Fossil Record
- Geologic Column
- Human Origins
- Summary

The *Theory* of Evolution



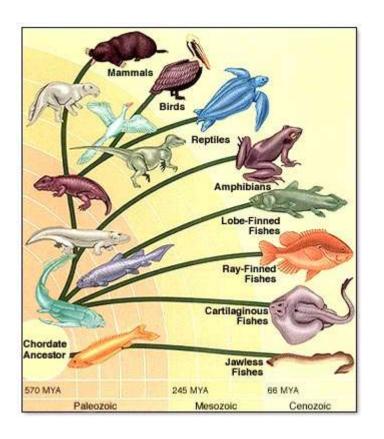
Evidence? Experimental Proof?



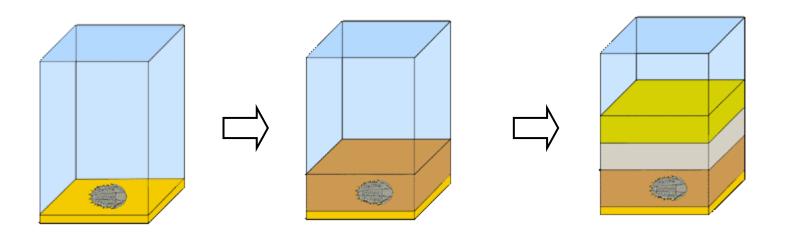


Theoretical evolutionary flow chart

Theoretical Evolution of Man



Typical Fossil Formation

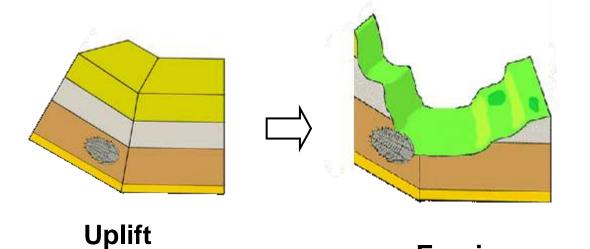


Death

Sedimentation

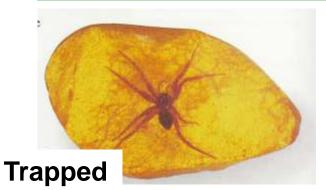
Erosion

Permineralization



Fossil Record		
Types	Approx.	
Marine creatures (clams, corals, trilobites, etc). Mostly invertebrates with a hard outer surface.	95 %	
Plants	4 %	
Land animals. Reptiles, amphibians, mammals, birds, dinosaurs, and humans.	1 %	

Other Types of "Fossils"



in Amber

Petrified



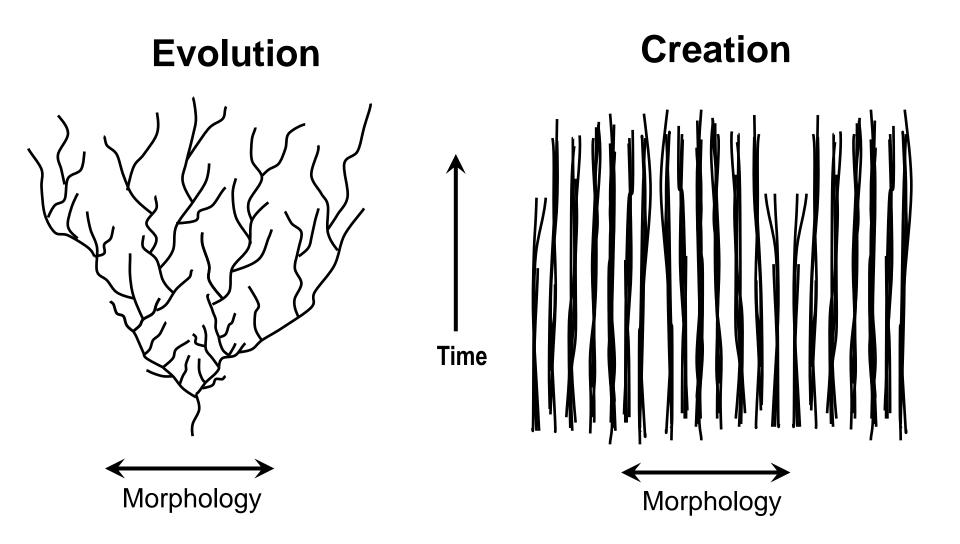
Embalmed (Tar and Sand)



Gaps in the Fossil Record

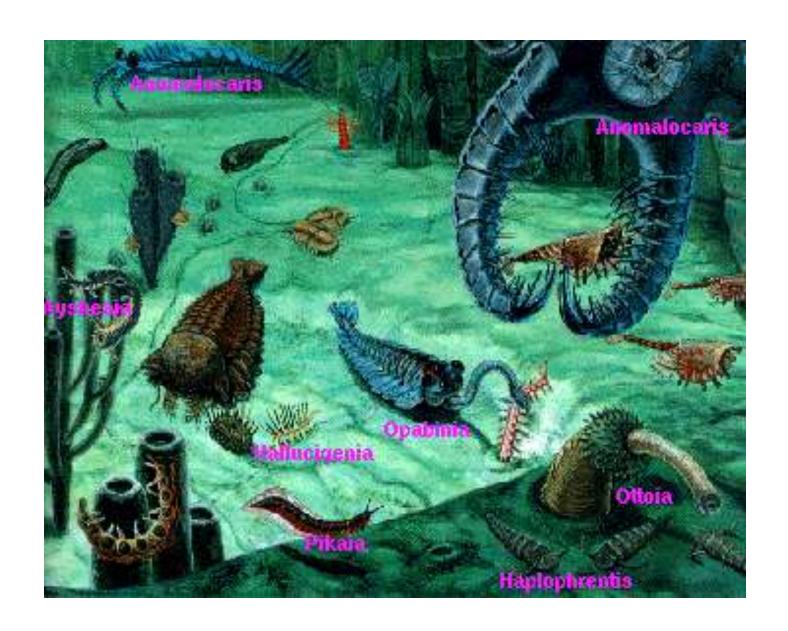
also known as

Missing Transitional Forms

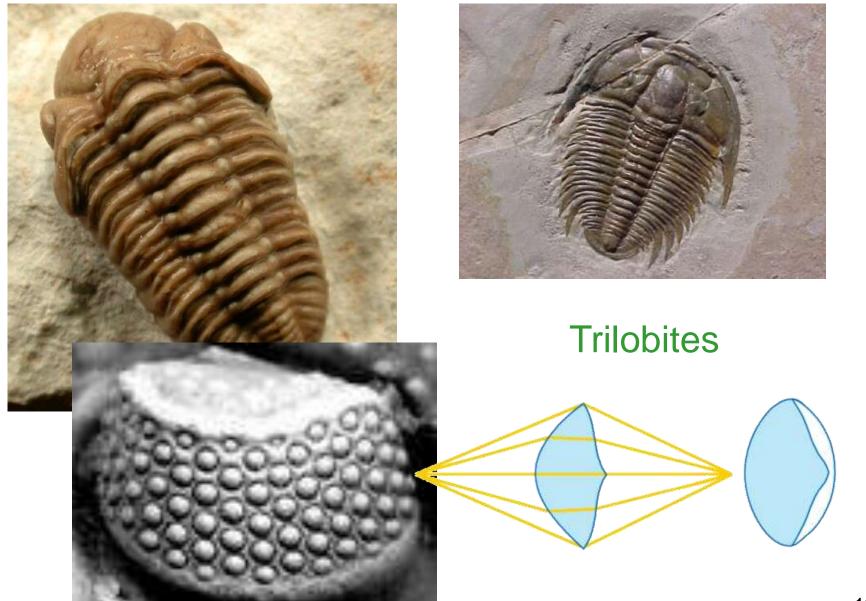


Fossils provide key physical evidence for Evolution & Creation models.

Gaps: The Cambrian Explosion



Cambrian Explosion Example



Gap Example: Fish to Amphibian

Amphibian

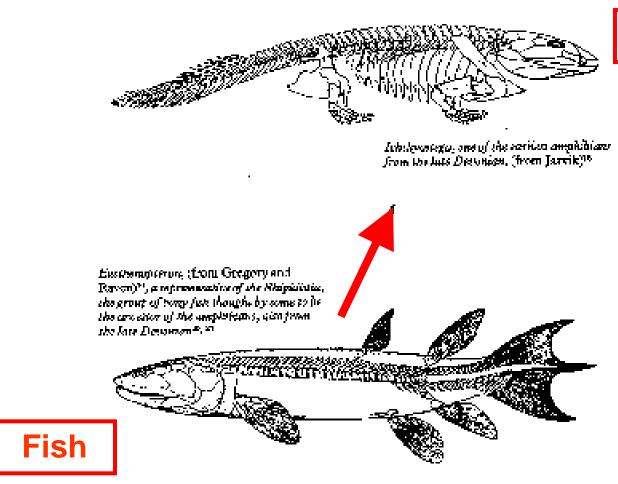


Figure 8.2a: The earliest known amphibian alongside a Hhitidisticos fish.

Gap Example: Flying Vertebrates

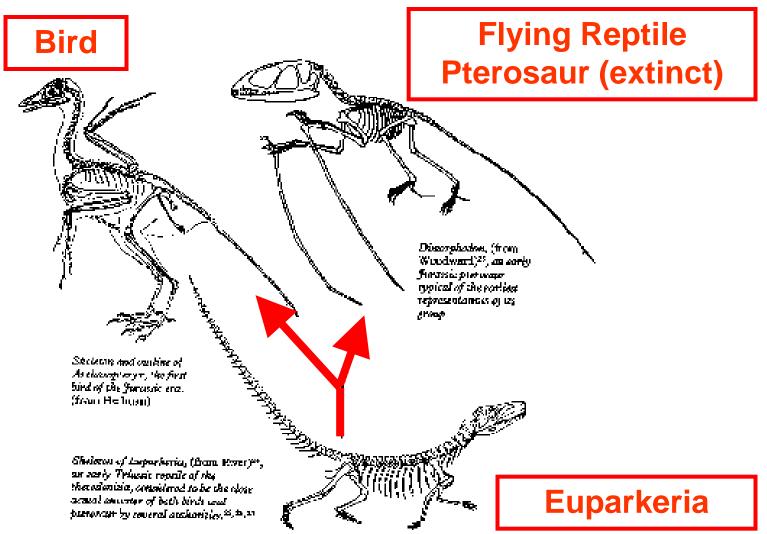


Figure 8.2b: The first bird, an early Pteronner and their chasses non-valued relative.

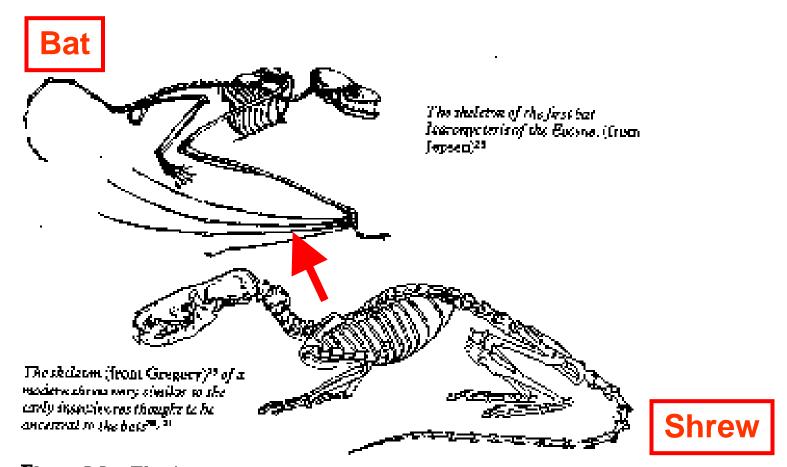


Figure 8.2c: The sheleton of the first but alongside that of a small non-volunt mammal.

Gap Example: Mammal - Whale

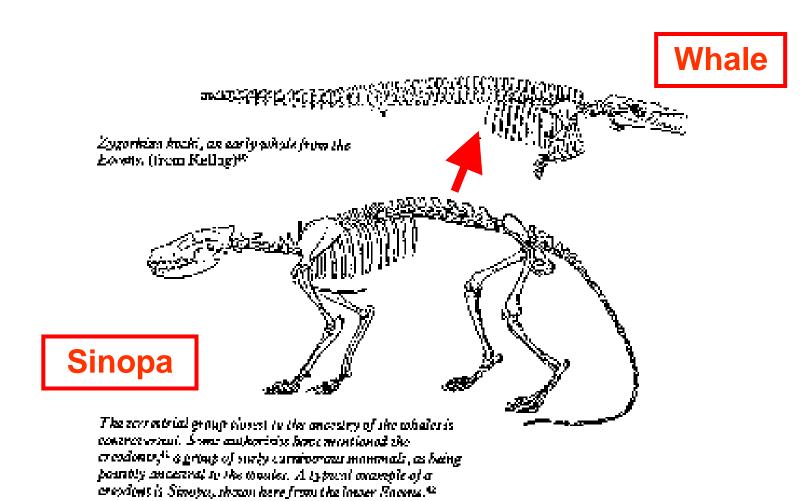
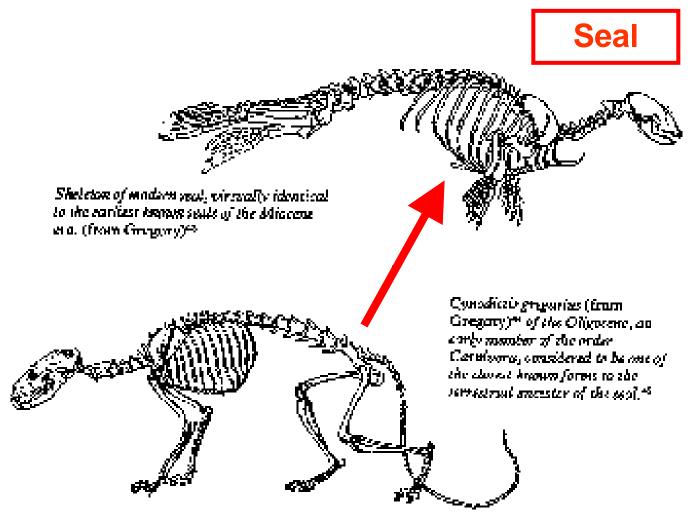


Figure 8.2f: An early whole and one of its nearest terrestrial relatives.

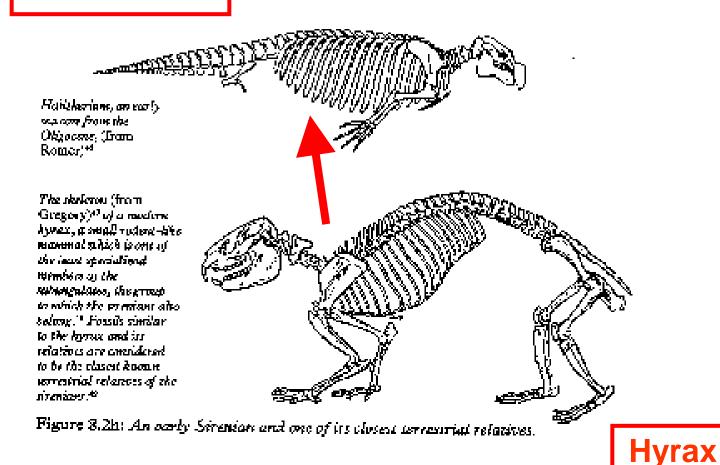


Pigure 8.2g. A seal and one of its closes: terrestrial relatives.

Cynodictis gregarius

Gap Example: Mammal - Sea Cow

Sea Cow



NJBibleScience.org

The Missing Link?

© 2009 Bone Clones*

Australopithecus robustus Skull SK-48

gyright Blane Clonesti 2004

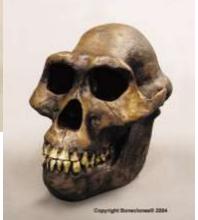
Australopithecus boisei

Skull KNM-ER 406

APES

Australopithecus africanus Skull Sts 5 "Mrs. Ples"





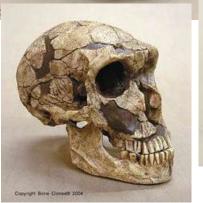
Australopithecus afarensis

HUMANS

Homo habilis Skull KNM-ER 1813









Homo neanderthalensis Skull La Chapelle -aux-Saints

Homo neanderthalensis Skull La Ferrassie 1

1. Not all Fossil Bearing Strata Has Been Examined.

Since Darwin's time, the gaps have only become more pronounced. Especially obvious at Cambrian strata where all main invertebrate types appear already formed.

2. Only a small fraction of the species that existed long ago became fossils.

Most modern forms are found as fossils. Many paleontologists are skeptical of this explanation (see terrestrial vertebrate adequacy of record)

3. Evolution Occurred in "Jumps"

Real phenomena? Inspired Punctuated Equilibrium theory.

More gaps at major divisions than at minor divisions

(Reverse of evolutionary theory)

NJBibleScience.org

TAXONOMY- The science of categorizing organisms

Order		Cat Example	
KINGDOM	Animalia	Multi-cellular eukaryotes (cells with nuclei) that ingest nutrients	
PHYLUM	Chordata	Pharyngeal pouches, dorsal tubular nerve cord	
SUBPHYLUM	Vertebrata	Possess vertebrae	
CLASS	Mammalia	Regulated body temperature, possess hair, suckle their young	
ORDER	Carnivora	Predatory mode of life	
FAMILY	Felidae	Tractile claws, lengthy tail, tooth arrangement	
GENUS	Felis	True cats	
SPECIES	domestica	Sleeps on couch	

Adequacy of the Fossil Record

Terrestrial Vertebrates			
Order	Living Today	Found as Fossils	Percentage Fossilized
KINGDOM			Only a few
PHYLUM			were
SUBPHYLUM			fossilized?
CLASS			
ORDER	43	42	97.7 %
FAMILY	329	261	79.1 % *
GENUS			
SPECIES			

^{*} Percentage fossilized is 87.8 % if birds are excluded

Family Tree of Vertebrates

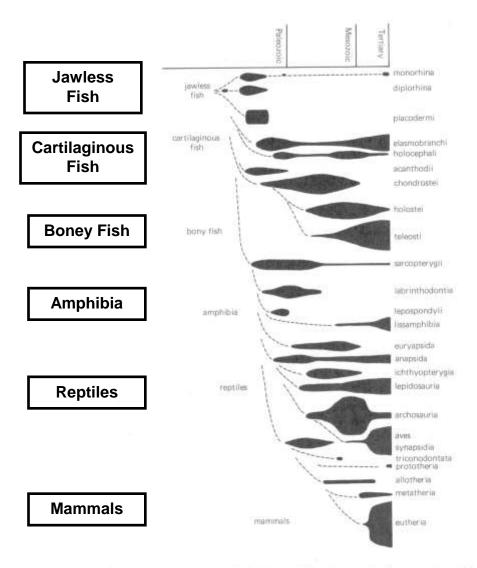


Figure 8.3: Adaptive Radiation of Vertebrates showing stratigraphic abundance of the major vertebrate groups through time. The dotted lines represent hypothetical lineages required by evolution to link the various groups together. (from Romer and Carter)⁵³⁻⁵⁴

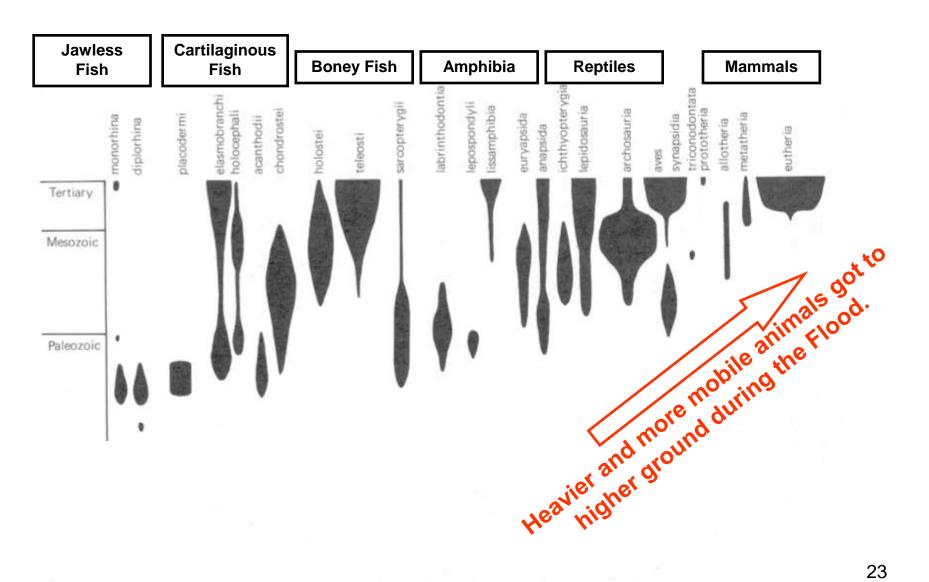
Stratigraphic Abundance of Major Vertebrate Groups Through Time

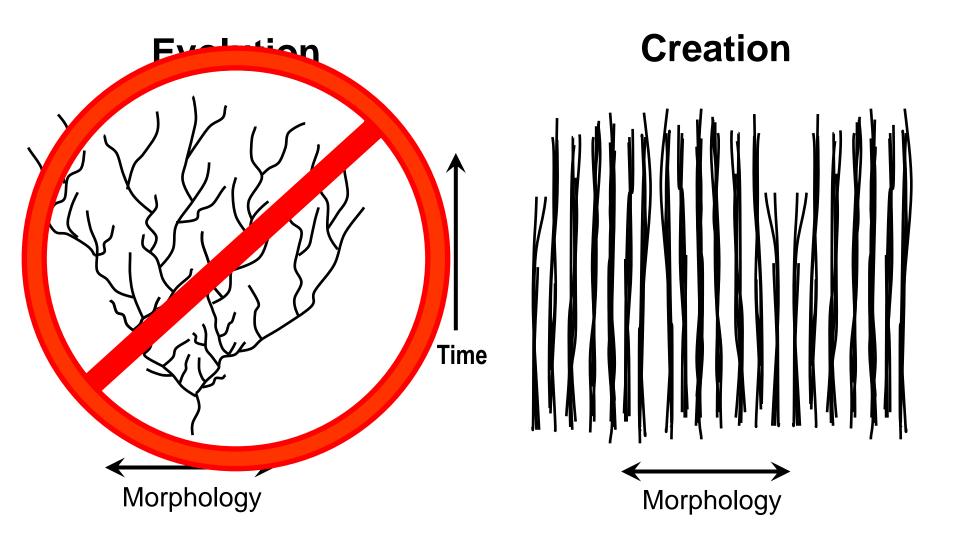
(From Denton, based on Romer and Carter)

Thickness of black lines indicate relative abundance of groups through time.

Dashed lines depict postulated lineages

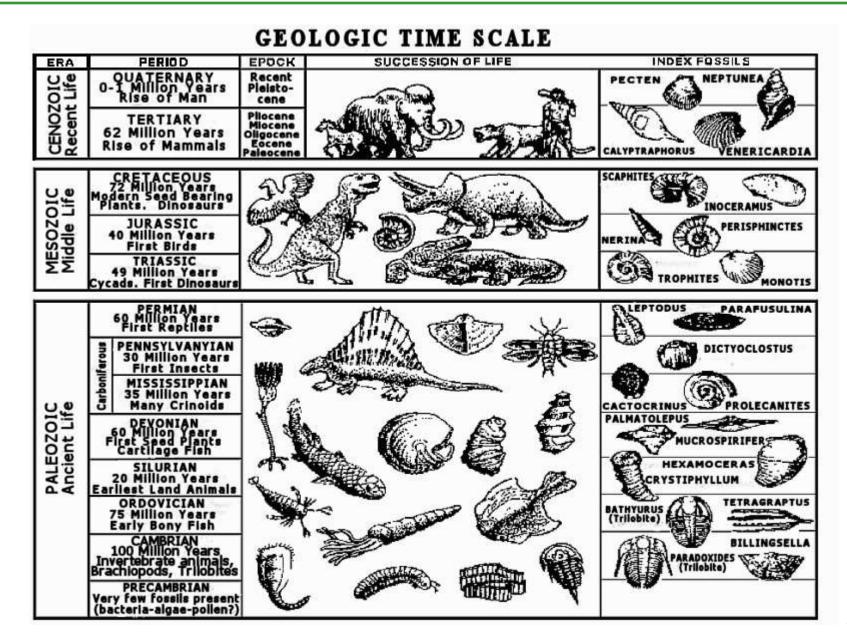
Family Tree of Vertebrates (Re-drawn)





The Geologic Column

The Geologic Column



Geologic Column – Period Names

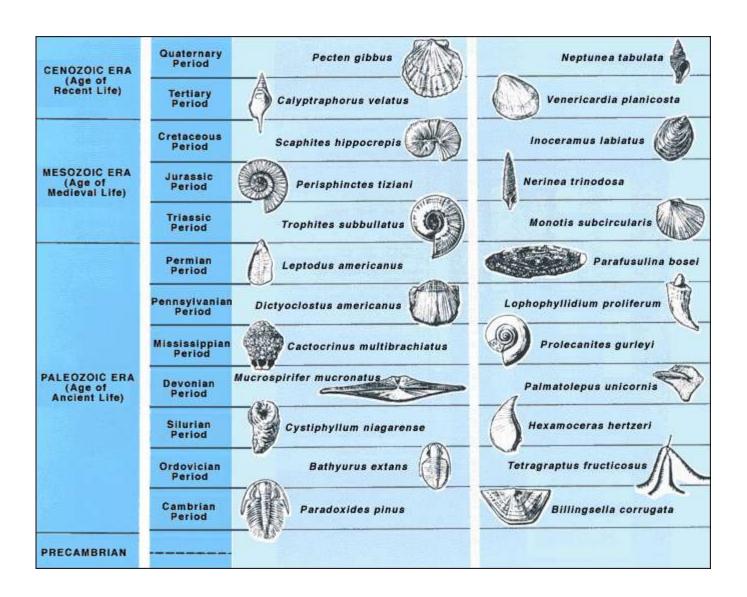
Period names are descriptive of a particular discovery, NOT meters below sea level or other quantitative measure.

ERA	PERIOD	NAME ORIGIN	TYPICAL ORGANISMS	M.Y.A ??
CENOZOIC Quaterna	Quaternary		Modern Plants, Animals, Man	2
"Recent Life"	Tertiary		Mammals	65
	Cretaceous	Chalk: (Latin: Creta) White cliffs along English channel	Flowering Plants	135
MESOZOIC "Middle Life" Triassic	Jurassic	Jura Mountains, French/Swiss border	Birds, Insects	190
	Triassic	3 Sections Of Rocks, Germany	Dinosaurs	225
"Ancient Life" Penns	Permian	Perm, USSR	Primitive Reptiles	270
	Pennsylvanian	State of Pennsylvania, USA	Spore Plants	310
	Mississippian	Mississippi River, USA	Amphibians	350
	Devonian	Devonshire, UK	Boneless Fish, Seed Plants	400
Silvrian Ordovician	Silvrian	Silvrics (A Celtic Tribe)	Fish, Brachiopods	430
	Ordovician	Ordivics (A Celtic Tribe)	Corals, Trilobites	500
	Cambrian	Roman name for Wales (Cambria), UK	Trilobites, Brachiopods, Jellyfish, Sponges	600

The Geologic Column is Imaginary

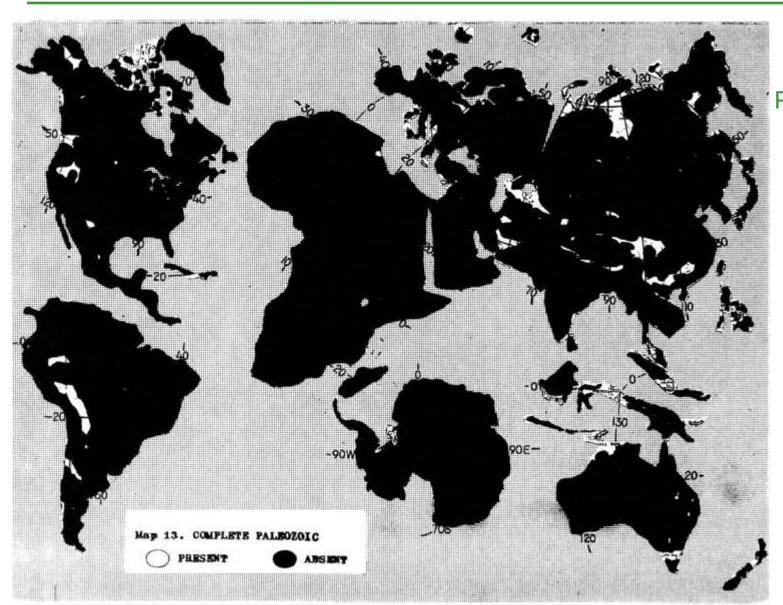
- 1. Strata in many places is out of order (e.g., Matterhorn).
- 2. The complete geologic column (all 12 periods) is not found virtually anywhere on earth.
- 3. Two-thirds (2/3) of the earth's surface has five (5) or fewer of the periods in place.
- 4. 10-20% of the land surface has three (3) geologic periods appearing in "correct" consecutive order.
- High complexity life is found at "early" ages
- Living fossils undermine evolutionary claims
- Polystratic fossils sometimes fossils span millions of years of time.
- Misplaced fossils fossils are sometimes found in inappropriate places, or "wrong" strata

Index Fossils (USGS)





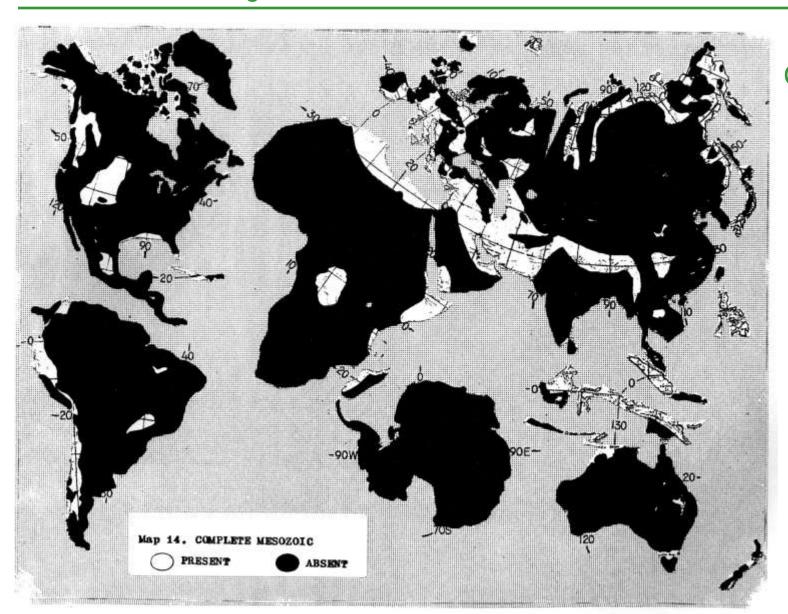
Complete Paleozoic (Ancient Life) Era



PERIODS

Permian
Pennsylvanian
Mississippian
Devonian
Silvrian
Ordovician
Cambrian

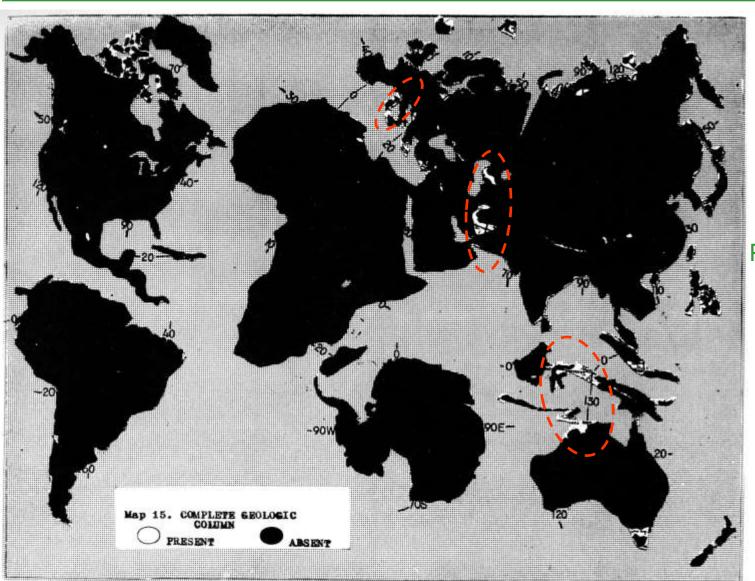
Complete Mesozoic (Middle Life) Era



PERIODS

Cretaceous
Jurassic
Triassic

NJBibleScience.org Absence of the Complete Geologic Column



PERIODS

Quaternary **Tertiary** Cretaceous Jurassic Triassic Permian Pennsylvanian Mississippian Devonian Silvrian Ordovician Cambrian

Polystratic Fossils

NJBibleScience.org

Roots are in a coal seam, tree extends through several rock layers

(Tennessee)





22 Ft. Lycopod Tree (Joggins Cliffs)



Misplaced Fossils

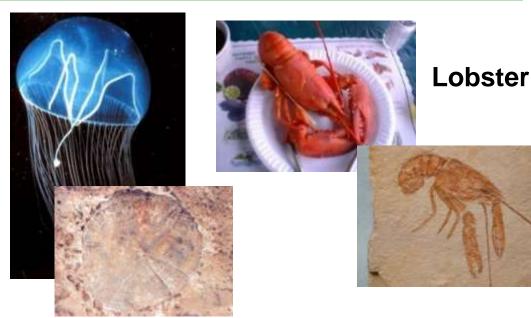
Type of fossil	Proper age	Found in	Location	Reference
Pollen	Tertiary	Quaternary	Boikow, Poland	146
Mammal bones	Tertiary (late)	Tertiary (early)	Kazakhstan, USSR	148
Spores	Tertiary (recent)	Permian	Southland, New Zealand	165
Plant tissue	Silurian (and/or younger)	Ordovician	Oklahoma, USA	190
Palm wood	Tertiary	Jurassic	Utah, USA	169
Spores	Tertiary (early)	Jurassic	Louisiana-Texas, USA	210
Trilobites	Cambrian	Devonian	Bielsko-Mogilany, Poland	203
Brachiopods	Permian	Triassic	Salt Range, Pakistan	142
Pollen	Cretaceous	Tertiary	British Columbia, Canada	216
Nannoplankton	Cretaceous	Tertiary	Glogow, Poland	171
Nannoflora	Cretaceous	Tertiary	Zinda Pir, W. Pakistan	173
Trilobite	"Late Paleozoic"	Tertiary	Utah, USA	184
Acanthodian Fish Scales /Spores	Devonian	Cretaceous	Permian Basin, Australia	89
Algae	Precambrian	Cambrian or Ordovician	Verkhoyansk, USSR	205
Crinoids	Silurian	Carboniferous	Pamir Mts., USSR	187

NJBibleScience.org

Living Fossils Examples - I







Jelly Fish

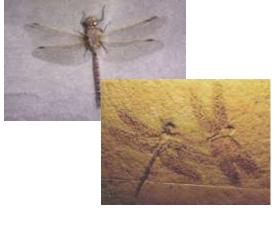


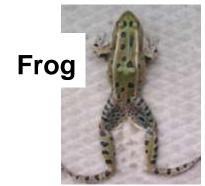


Living Fossil Examples II





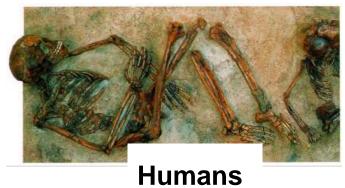






Chicken

Dragonfly



Circular Reasoning of the Geologic Column



Rock Formations
Are Dated By
Their Fossils

Fossils Are
Dated by Their
Rock Formations



A Water Catastrophe like the Noachian Flood Explains a lot

- Fossilization typically requires water.
- Marine fossils are most common inundated in place.
- Fossil graveyards large pile-ups of fossils transported and concentrated together by water flow.
- Polystratic fossils water logged trees sinking to bottom.
- Rapid Burial ephemeral (same day) marking such as ripple marks, rain prints, and animal tracks are preserved before eroding.



Trilobite Tracks

Last meal: a fish eating a fish



Dinosaur Graveyard Bighorn, Wyoming

Fossilization and the Flood

- Increased mobility of "higher" animals allowed postponement of inundation.
- Hydrodynamic sorting high density and high sphericity objects settle out sooner.
- Elevation of habitat higher elevations with mammals, etc., would be fossilized later as flood waters rose.

Summary





- 1) Gaps in the fossil record invalidate the *theory* of evolution.
- 2) The geologic column is not universally present, and is problematic.
- 3) Physical evidence supports the Genesis account of creation and the Flood.