

Evolution of Life Through Time

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SILURIAN LIFE: LAND PLANTS!

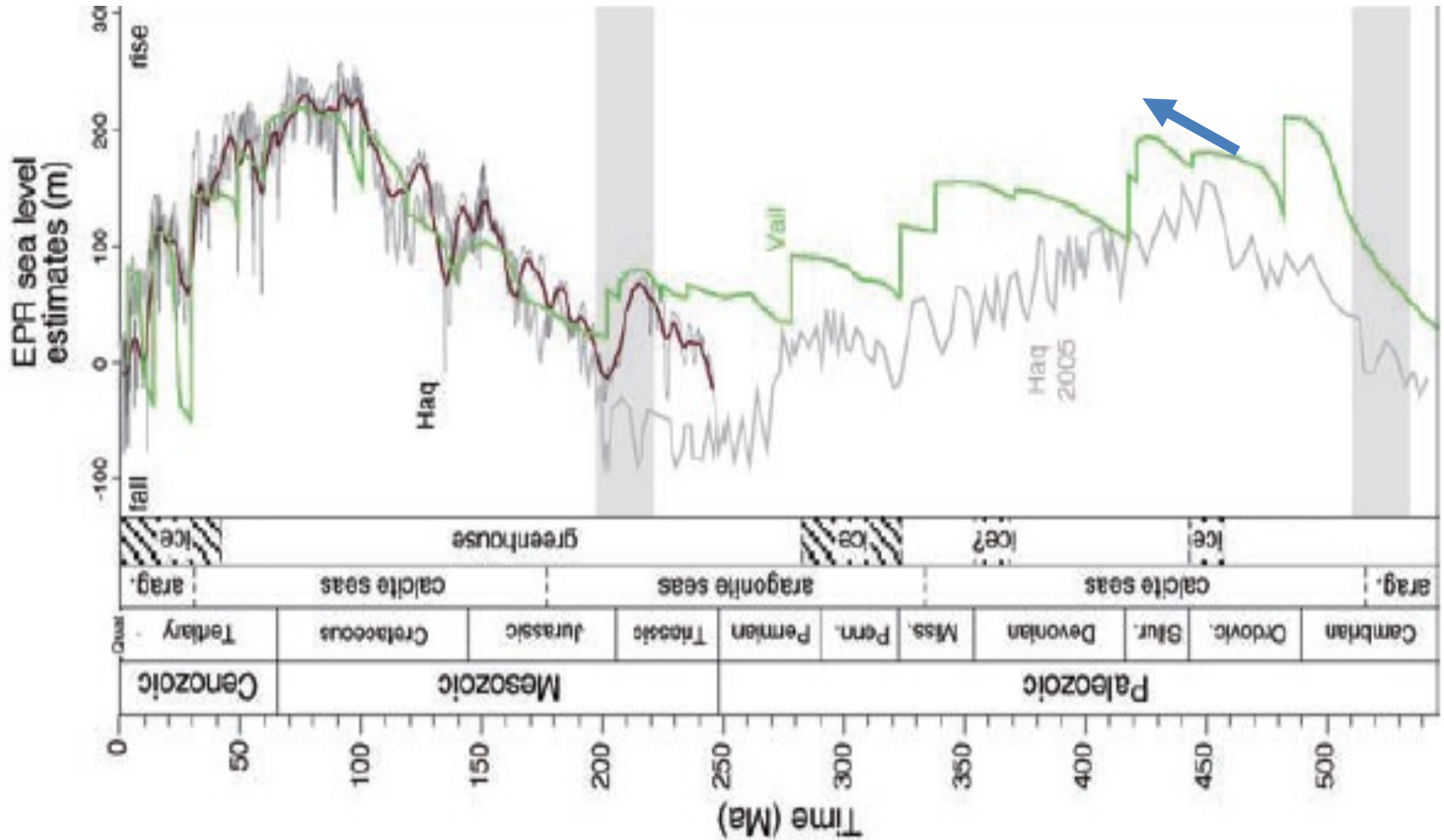
New ecosystem invaded with vascular capability

Cooksonia [reproduction by spores]

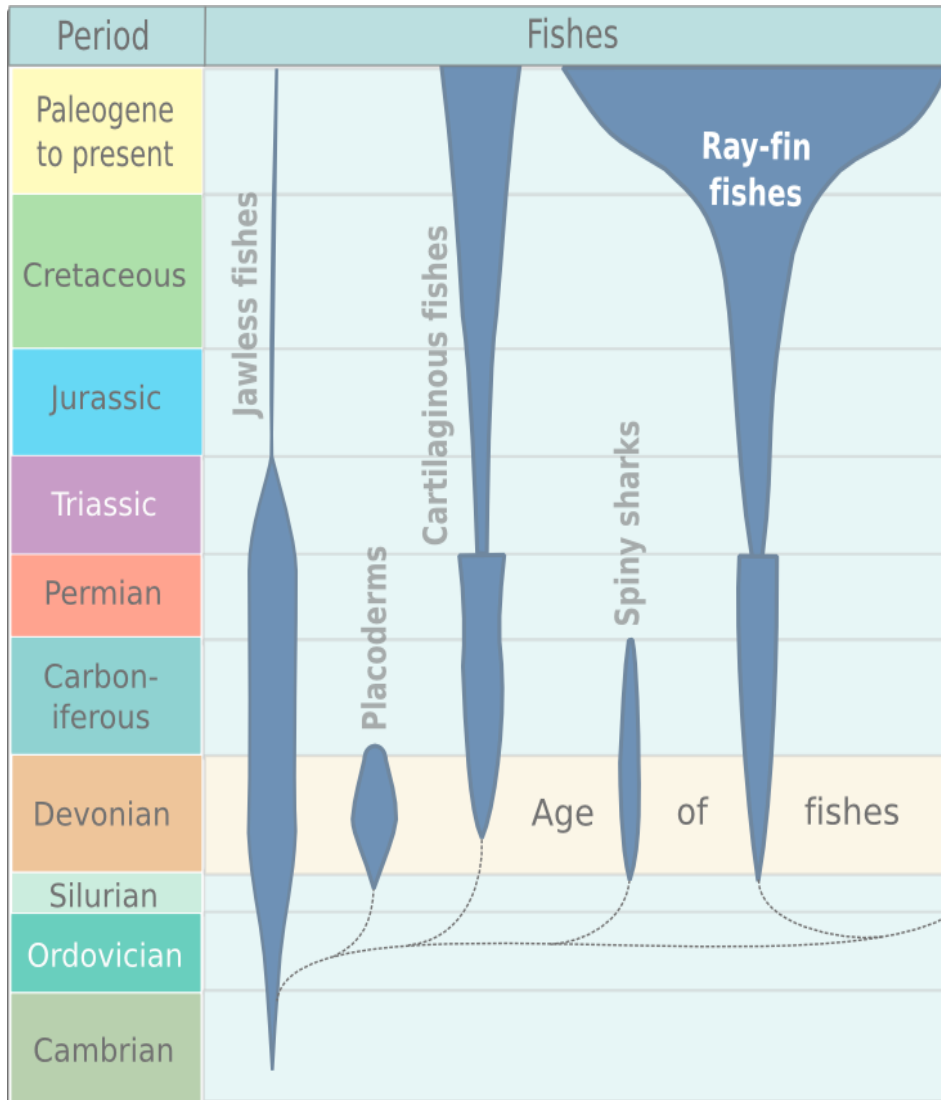


MAJOR EVENTS

First Vascular plants, first millipedes and arthropleurids on land.



AGE OF FISHES



DEVONIAN LIFE: LAND ANIMALS!

New ecosystem invaded

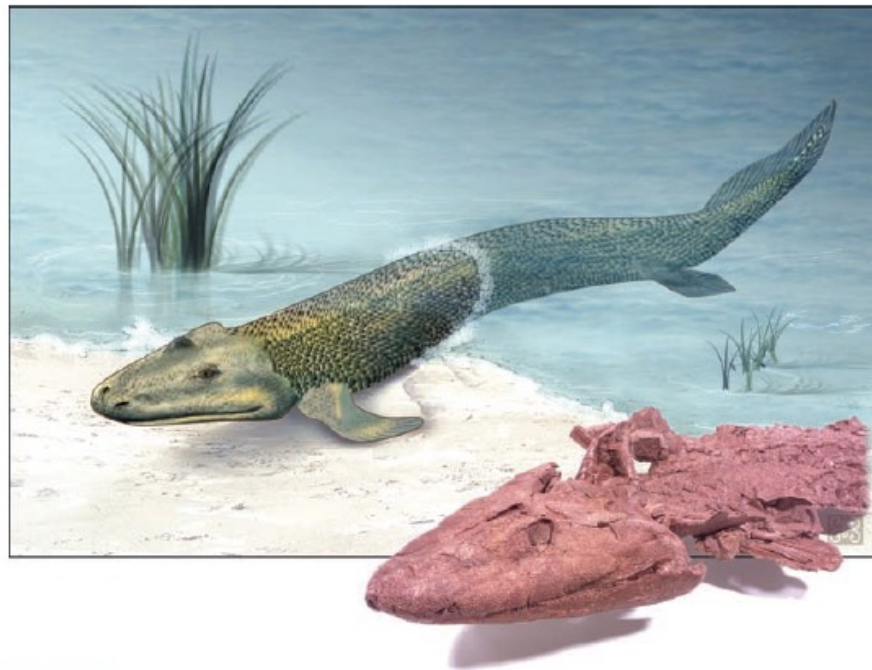
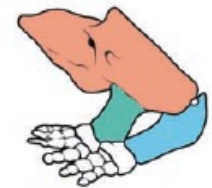


FIGURE 14-19 *Tiktaalik*, a Late Devonian creature that was intermediate between lobe-finned fishes and amphibians. *Tiktaalik* had a flat, crocodile-like skull with eyes and nostrils on the upper surface. Its fins were intermediate in form between those of lobe-finned fishes and amphibians, with shoulder joints and fingerlike bones and that would have permitted it to prop up



Early amphibian



Tiktaalik



Lobe-finned fish

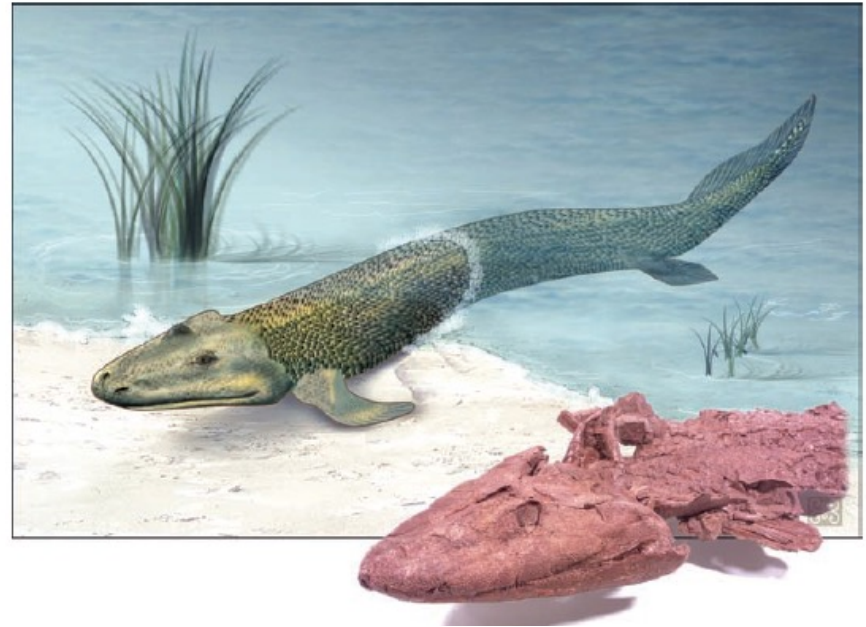
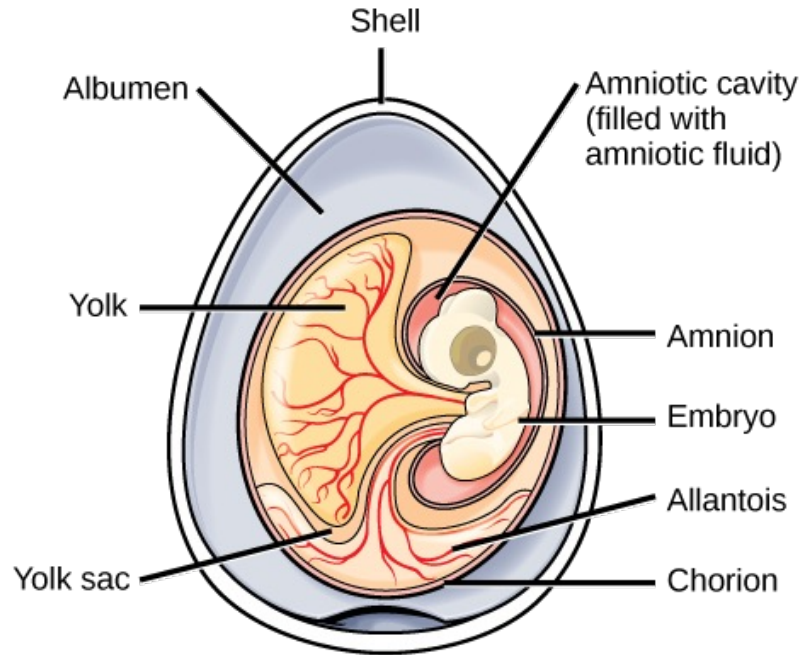
the front of its body. Three bones in its front fin are portrayed on the right in colors that show homologies with bones of lobe-finned fishes and early amphibians. (Painting by Zina Deretsky, National Science Foundation; photo by Ted Daeschler, Academy of Natural Sciences, Philadelphia/VIREO; drawings after Kalliope Monoyios, University of Chicago, laboratory of Neil Shubin.)

CARBONIFEROUS LIFE: COAL FORESTS!

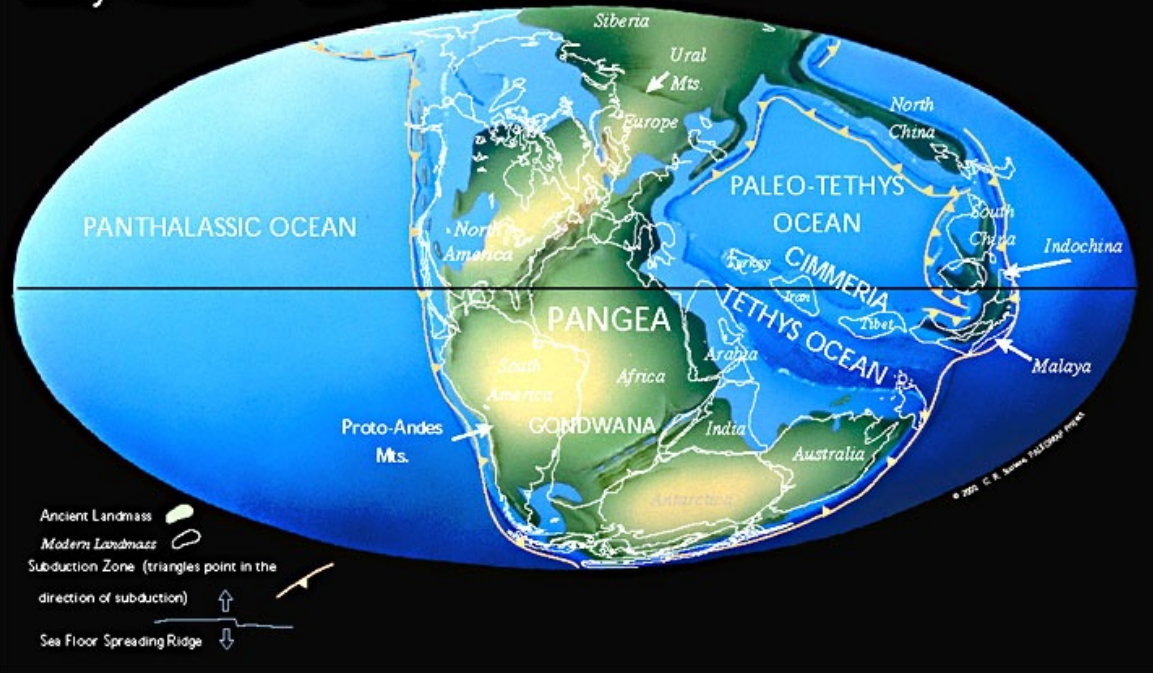
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CARBONIFEROUS: MAJOR PHASE OF EVOLUTION

Amniotic egg



Early Triassic 237 Ma



5 Ma

