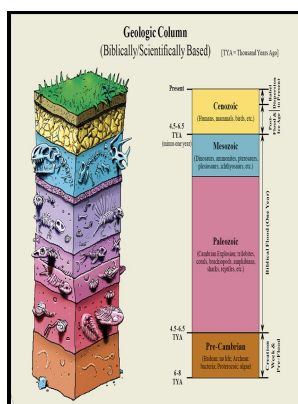


Geological and fossil evidence

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Anatomical Evidence of Evolution

The resulting fossil record tells the story of the past and shows the evolution of forms over millions of years.

Clues in Fossils Panel

Some scientists have suggested that the geochemistry of the time period caused bad conditions for fossil formation, so few organisms were fossilized. Clays and silts are very fine grained.

Anatomical Evidence of Evolution

In some cases the structure becomes detrimental to the organism. When permineralization and replacement occur together, the organism is said to have undergone petrification, the process of turning organic material into stone.

Fossils, Rocks, and Time

How do scientists keep track of what happened when? Since species distribution patterns are based on biotic and abiotic factors and their influences during the very long periods of time required for species evolution, early studies of biogeography were closely linked to the emergence of evolutionary thinking in the eighteenth century. How Fossil Evidence Supports Evolution.

Geological and Fossil Evidence : Michael Bright : 9780431064734

In many ways, our skeletal features are comparable to that of a fish. Fossils usually consist of the portion of the organisms that was partially mineralized during life, such as the bones and teeth of vertebrates or the chitinous or calcareous exoskeletons of invertebrates. The cyanobacteria ancestor lineage is very old, and it was and is poisoned by oxygen as everything else so the GOE meant it too saw 99 % species extinction.

Fossils

And so the debate rages on. Fossilization can occur in many ways. This research was supported by grants from the Danish—American Fulbright

Commission and Duke University.

Fossils

By the way, and as a reflection on the article description of life and geology coevolving, the integrated evidence credibility range for evolution of LUCA is ~50 Myrs right after the Moon forming impact.

Evidence of Evolution

Did evolution stop at the start? The deeper layers are older than the layers found at the top, which aids in determining the relative age of fossils found within the strata. For instance, a little more than 5 million years ago, tectonic activity closed the Strait of Gibraltar, eventually causing the Mediterranean Sea to shrink and its mineral content to spike. There have been no successful experiments simulating such conditions.

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