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# CAMBRIAN

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The **Cambrian** period started 541 million years ago and ended 485.4 million years ago.

World climates were mild. The seas were relatively warm, and polar ice was absent for most of the period.

Plants were not yet evolved, only a variety of macroscopic marine plants.

A lot can happen in 40 million years, the approximate length of the Cambrian Period. Animals showed dramatic diversification during this period of Earth's history. This has been called the "**Cambrian Explosion**".

In that time, the first undoubted fossil annelids, arthropods, brachiopods, echinoderms, molluscs, onychophorans, poriferans, and priapulids showed up in rocks all over the world.



**Cambrian globe**

(you can touch the screen and rotate the globe)



The Pannotia supercontinent began to break up and thus the Iapetus Ocean could form between Laurentia (North America), Siberia, Baltica (North Europe), and Gondwana (South America, Australia, Africa, India, and Antarctica). Throughout the Cambrian, Siberia remained east of Laurentia, while Baltica was moving south of Siberia and southeast of Laurentia. Gondwana, the largest continent, which stretched from the Equator, was also moving south.



**Paradoxides gracilis** (Boeck, 1827)

**Trilobites** are a fossil group of extinct marine arthropods that form the class Trilobita.

Trilobites form one of the earliest known groups of arthropods.

The earliest trilobites are known from Cambrian period cca 540 million years ago.

Trilobites disappeared in the mass extinction at the end of the Permian about 252 million years ago.





**Hydrocephalus minor** (Barrande, 1846)

Middle Cambrian seabed with **Ellipsocephalus** trilobites, **Hyalites**, **Ottoia** (archaeopriapulid worm) in a burrow and **Hallucigenia** leaping over a sponge. Floating **Eldonia**, an extinct soft-bodied animal of unknown affinity. Small **Liangshanella**, genus of Cambrian bradoriid.











*Conocoryphe sulzeri sulzeri* (Schlotheim, 1823)





Hyolith **Parentilites parens** (Barrande, 1867)

This animal was a big question for all scientists for tens of years, until marvellous and perfectly preserved finds were discovered in China.



**Ellipsocephalus hoffi** (Schlotheim, 1823)

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## AUGMENTED REALITY

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Is used to describe an image of the real world with the help of elements added by a computer. It is a depiction of reality enriched with digital elements and can be displayed by a mobile phone or tablet. Our augmented reality - PALEOREALITY - app presents a series of prehistoric creatures and their fossils. Discover unbelievable extinct life-forms with our augmented reality experience - more than 40 creatures and 30 fossils from 11 geological periods. All models were created in collaboration with paleontologists and are extremely focused on detail.

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Once you download the pdf file, print the document, download our app and augment your reality with prehistoric creatures by viewing those materials (images marked with AR+ icon).

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