4.6 billion BCE Formation of the Sun

4.5 billion BCE Formation of the Earth Beginnings of Hadean Eon

4.4 billion BCE Impact with Mars (Vesta/Lyrae?) Moon is formed from the debris Oceans and atmosphere are formed Beginnings of Hadean Eon

4 billion BCE End of Hadean Eon Start of Archean Eon

3.9 billion BCE

3.8 billion BCE

3.7 billion BCE

3.6 billion BCE Stromatolites are first seen in the fossil record

3.5 billion BCE Stromatolites are fully formed

3.4 billion BCE End of Archean Eon Start of Proterozoic Eon

3.3 billion BCE Start of photosynthesis by blue-green algae

3.2 billion BCE End of Proterozoic Eon

3.1 billion BCE

3 billion BCE

2.9 billion BCE

2.8 billion BCE

2.7 billion BCE

2.6 billion BCE

2.5 billion BCE

2.4 billion BCE

2.3 billion BCE

2.2 billion BCE

2.1 billion BCE

2 billion BCE

1.9 billion BCE

1.8 billion BCE

1.7 billion BCE

1.6 billion BCE

1.5 billion BCE

1.4 billion BCE

1.3 billion BCE

1.2 billion BCE

1.1 billion BCE

1 billion BCE

900 million BCE

800 million BCE

700 million BCE Start of Phanerozoic Eon

600 million BCE

500 million BCE

400 million BCE

300 million BCE

200 million BCE

100 million BCE

50 million BCE

40 million BCE

30 million BCE

20 million BCE

10 million BCE

5 million BCE

4 million BCE

3 million BCE

2 million BCE

1 million BCE

900 000 BCE

800 000 BCE

700 000 BCE

600 000 BCE

500 000 BCE

400 000 BCE

300 000 BCE

200 000 BCE

100 000 BCE

50 000 BCE

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1600 CE

1700 CE

1800 CE

1900 CE

1910 CE

1920 CE

1930 CE

1940 CE

1950 CE

1960 CE

1970 CE

1980 CE

1990 CE

2000 CE

2010 CE

2011 CE

2012 CE

2013 CE

2014 CE

2015 CE

2016 CE

2017 CE

The first large angiosperms (flowering plants) are seen in the fossil record

Cells resembling prokaryotic (microbes) of modern bacterial appear

Last Universal Common Ancestor (LUCA) of all living things is alive

The Earth is roughly a billion years old

LUCA splits into three domains of life: bacteria, archaea and eukaryotes

Great Oxygenation Event. This process is now no longer ongoing, as free oxygen is now in equilibrium with the amount being used by organisms and the amount being released by photosynthesis

The Sun is now roughly 30% brighter than it was when it first formed

Free multicellular life appears

Ediacaran biota (Vendian biota) appears

Cambrian explosion: most modern phyla appear, including the ancestors of all vertebrates

Plants and fungi appear on land

Insects appear

Tetrapods appear

Reptiles appear

Mammals appear

Birds appear

Flowering plants appear

Primates appear

Apes appear

Hominins appear

Homo sapiens appears in Africa

Humans leave Africa and populate the world

Agriculture appears in several places

Bronze Age

Iron Age

Industrial Revolution

Modern era

Atmospheric carbon dioxide levels are 280 ppm

Atmospheric carbon dioxide levels are 315 ppm

Atmospheric carbon dioxide levels are 350 ppm

Atmospheric carbon dioxide levels are 400 ppm

Global population reaches one billion

Global population reaches two billion

Global population reaches three billion

Global population reaches four billion

Global population reaches five billion

Global population reaches six billion

Global population reaches seven billion

Global population reaches eight billion

Global population reaches nine billion

Global population reaches ten billion

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Global population reaches five hundred and seventy-three trillion

Global population reaches five hundred and seventy-four trillion

Global population reaches five hundred and seventy-five trillion

Global population reaches five hundred and seventy-six trillion

Global population reaches five hundred and seventy-seven trillion

Global population reaches five hundred and seventy-eight trillion

Global population reaches five hundred and seventy-nine trillion

Global population reaches five hundred and eighty trillion

Global population reaches five hundred and eighty-one trillion

Global population reaches five hundred and eighty-two trillion

Global population reaches five hundred and eighty-three trillion

Global population reaches five hundred and eighty-four trillion

Global population reaches five hundred and eighty-five trillion

Global population reaches five hundred and eighty-six trillion

Global population reaches five hundred and eighty-seven trillion

Global population reaches five hundred and eighty-eight trillion

Global population reaches five hundred and eighty-nine trillion

Global population reaches five hundred and ninety trillion

Global population reaches five hundred and ninety-one trillion

Global population reaches five hundred and ninety-two trillion

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Global population reaches six hundred and thirty-two trillion

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Global population reaches six hundred and fifty-two trillion

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Global population reaches six hundred and eighty-six trillion

Global population reaches six hundred and eighty-seven trillion

Global population reaches six hundred and eighty-eight trillion

Global population reaches six hundred and eighty-nine trillion

Global population reaches six hundred and ninety trillion

Global population reaches six hundred and ninety-one trillion

Global population reaches six hundred and ninety-two trillion

Global population reaches six hundred and ninety-three trillion

Global population reaches six h