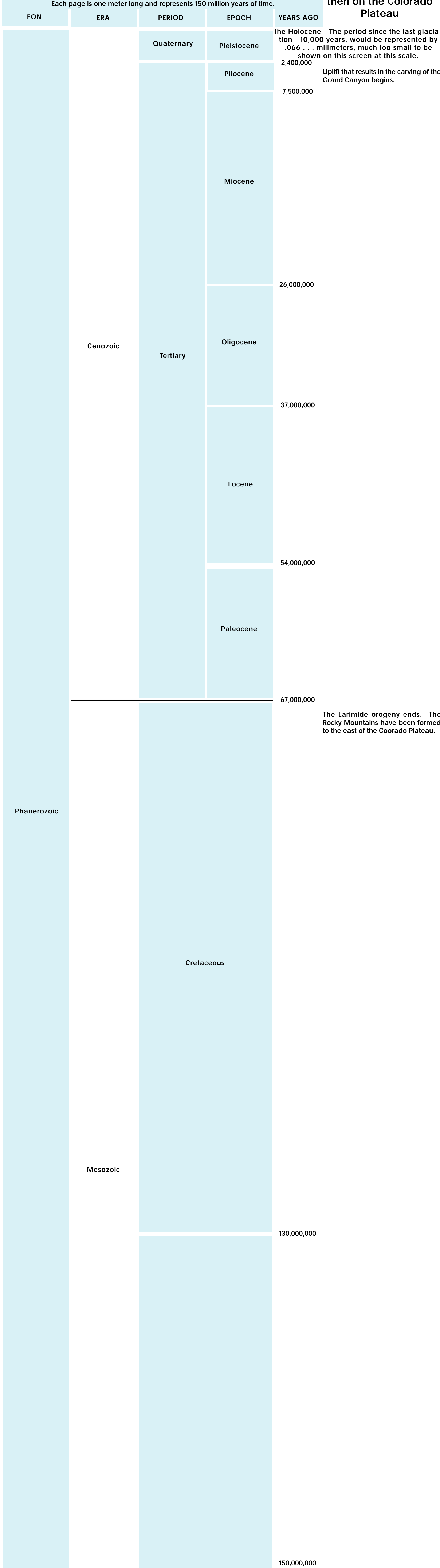
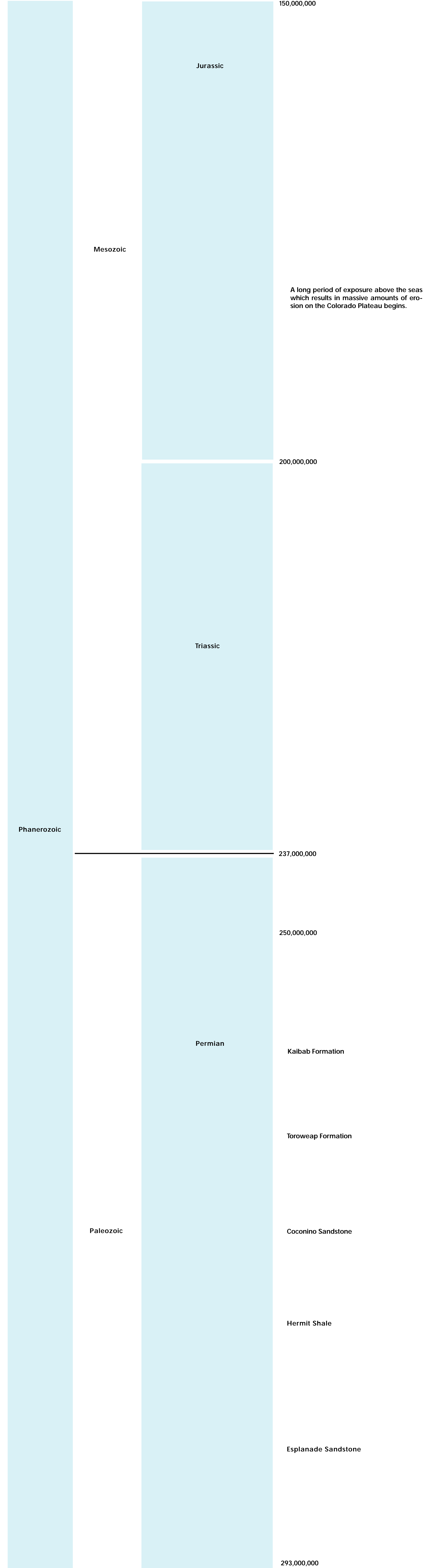


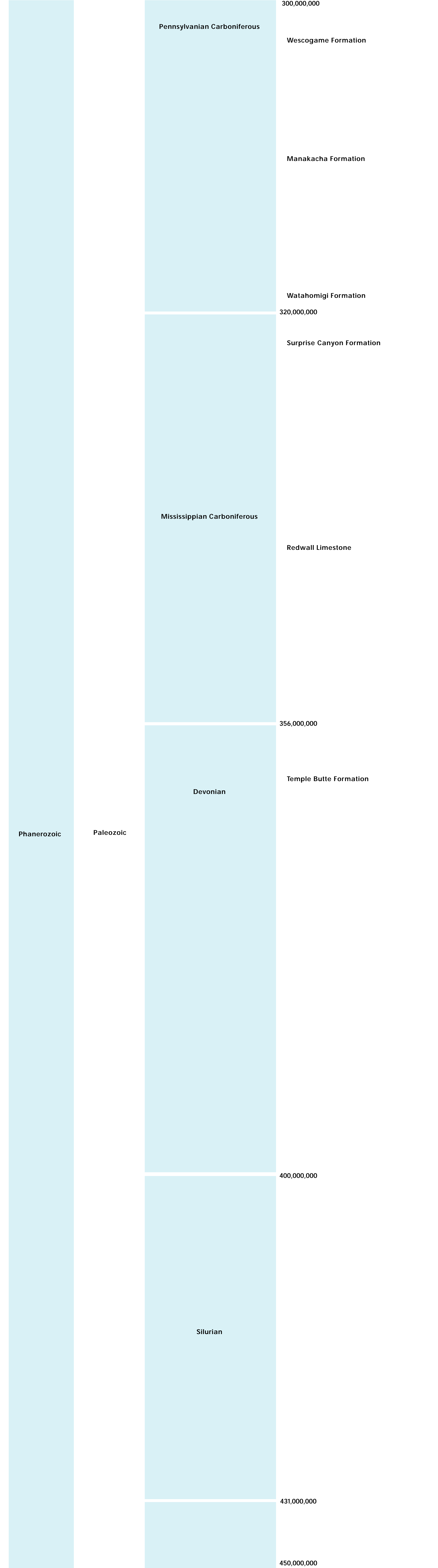
# The Geologic Time Scale

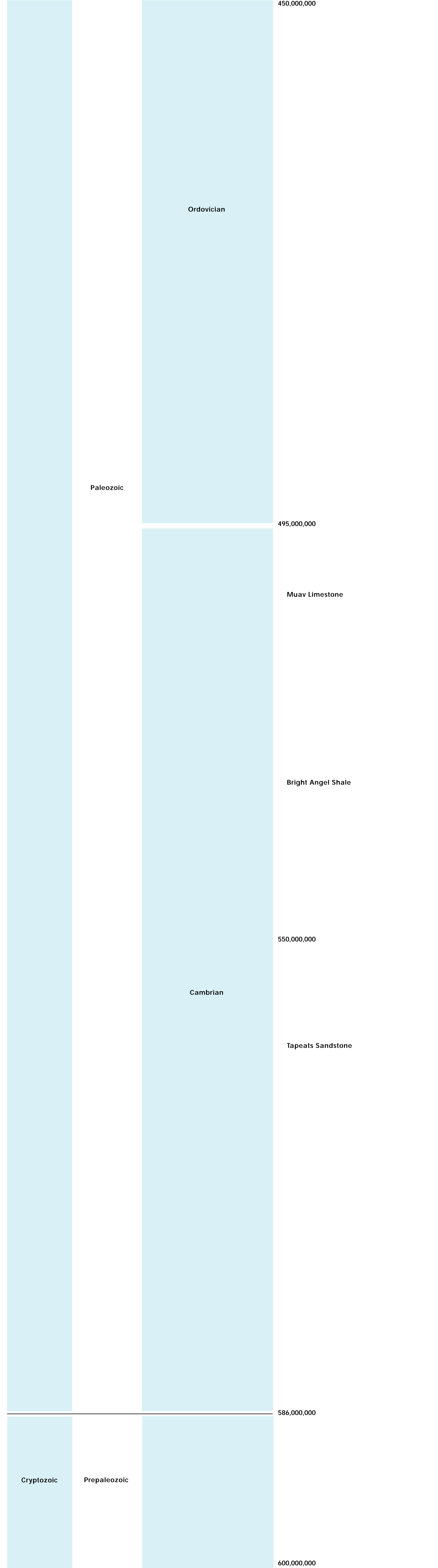
Each page is one meter long and represents 150 million years of time.

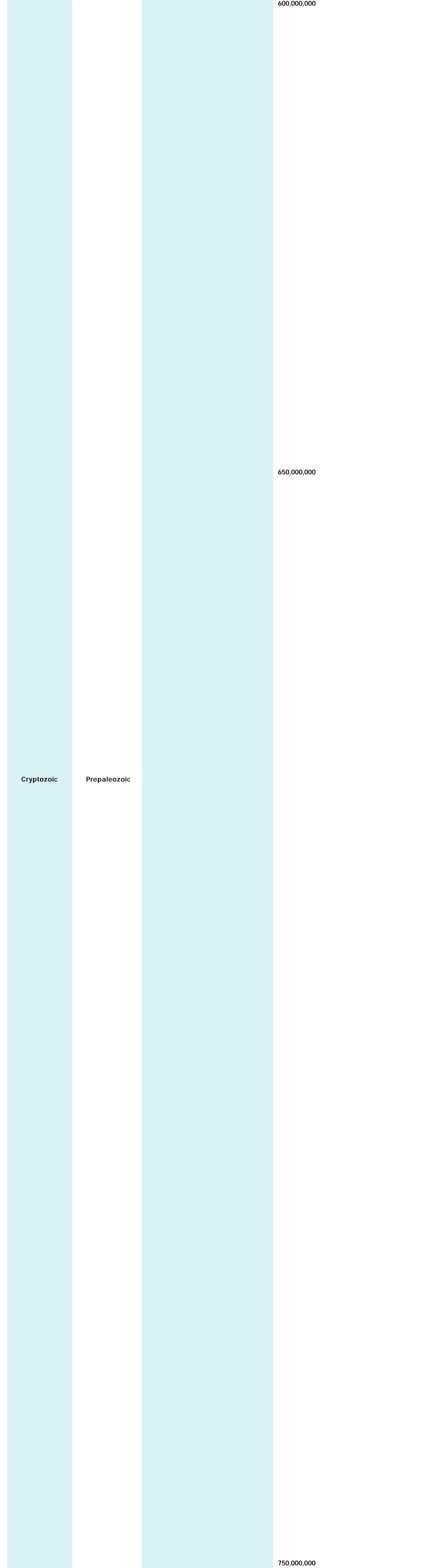
## What was Happening then on the Colorado Plateau











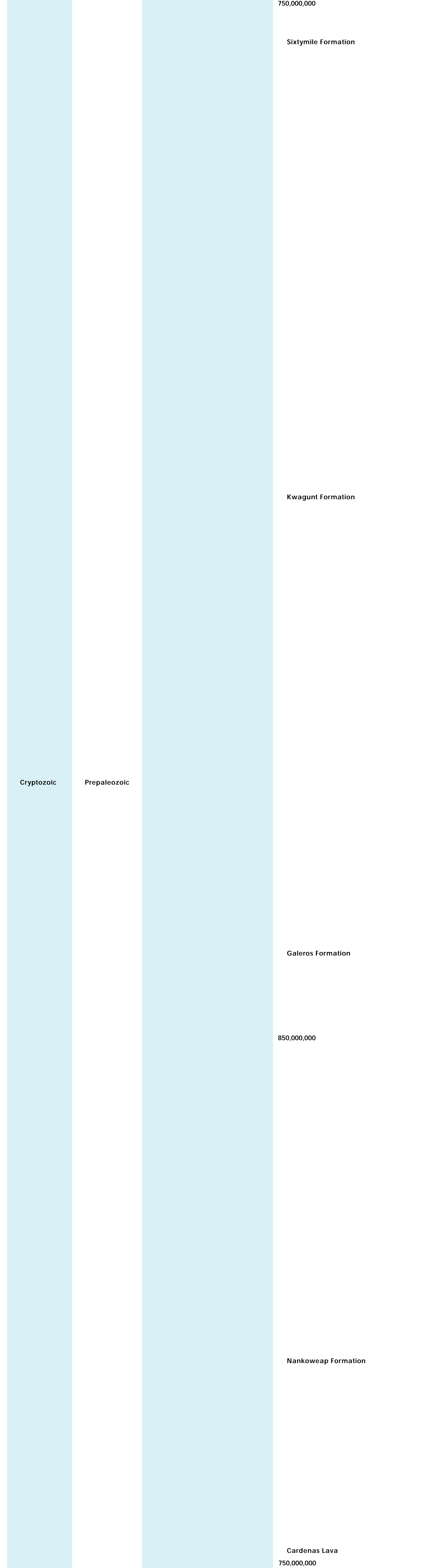
Cryptozoic

Prepaleozoic

600,000,000

650,000,000

750,000,000



750,000,000

Sixtymile Formation

Kwagunt Formation

Cryptozoic

Prepaleozoic

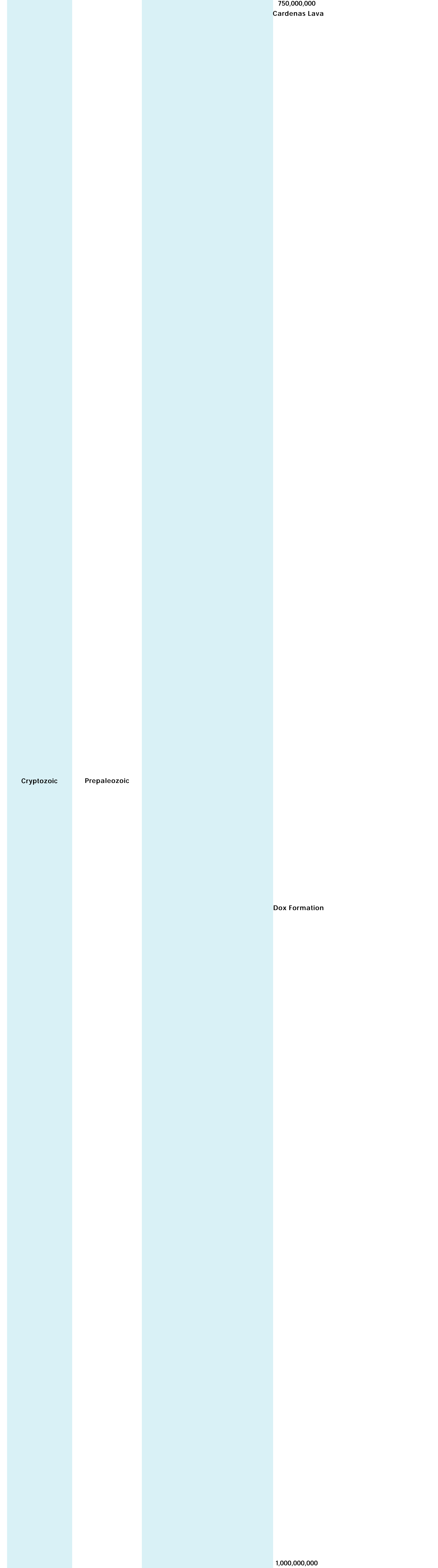
Galeros Formation

850,000,000

Nankoweap Formation

Cardenas Lava

750,000,000



900,000,000

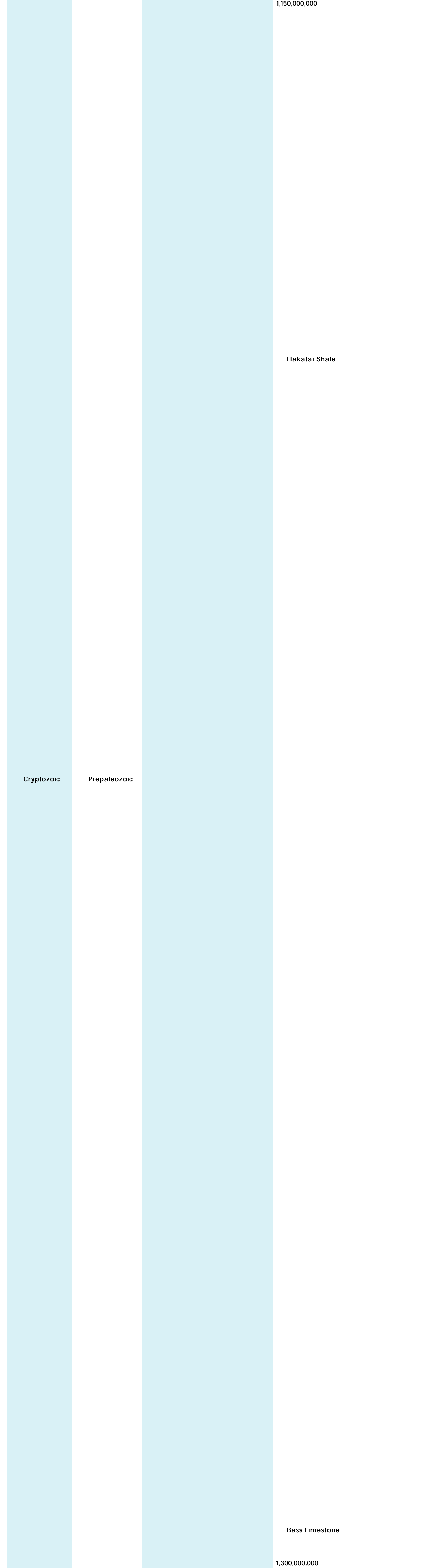
Shinumo Quartz

Cryptozoic

Prepaleozoic

1,150,000,000





Cryptozoic

Prepaleozoic

Bass Limestone

Hakatai Shale

1,300,000,000

1,150,000,000

1,300,000,000

Cryptozoic

Prepaleozoic

1,450,000,000

1,450,000,000

**Cryptozoic**

**Prepaleozoic**

1,600,000,000

1,600,000,000

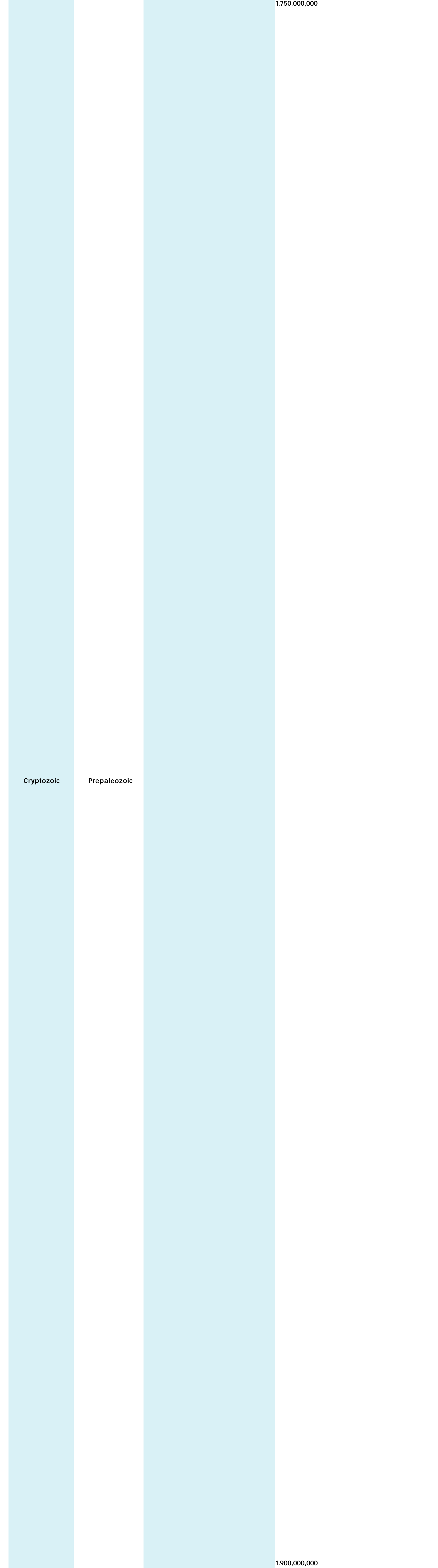
Cryptozoic

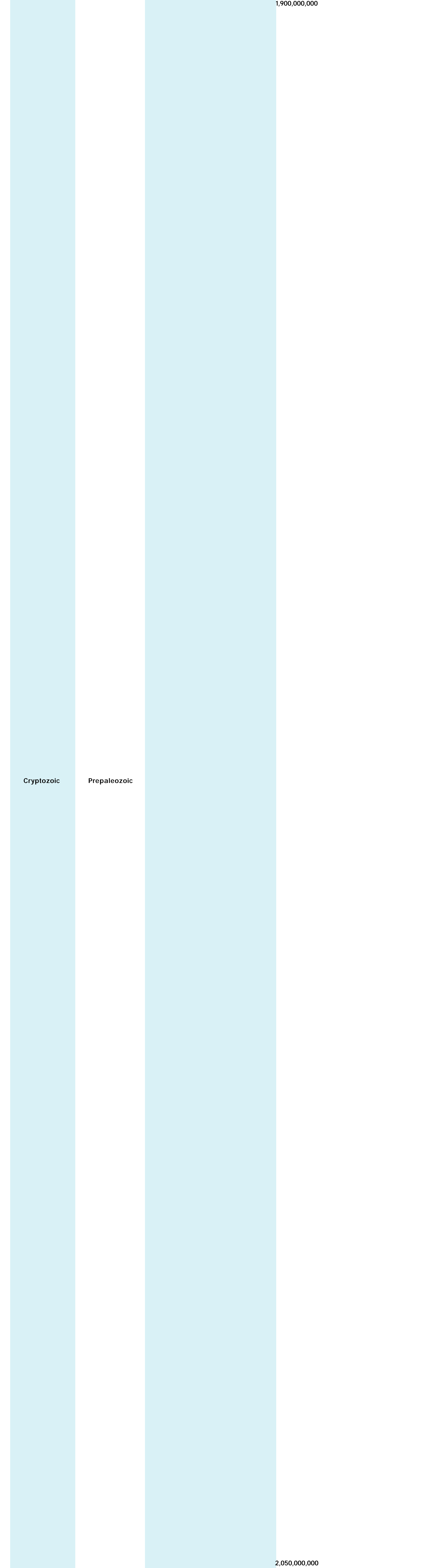
Prepaleozoic

**Granite Gorge Metamorphic Suite**

These are the oldest rocks found in the Grand Canyon. There is no record of the three billion years or so from the formation of the Earth, some 4.6 billion years ago until this time, 1.7 billion years before the present.

1,750,000,000





2,050,000,000

**Cryptozoic**

**Prepaleozoic**

2,200,000,000

2,200,000,000

**Cryptozoic**

**Prepaleozoic**

2,350,000,000



2,350,000,000

Cryptozoic

Prepaleozoic

The oldest rocks which have been identified in the Great Basin are about 2.5 billion years old and are found exposed in the Grouse Creek and Raft River ranges in northwestern Utah near the Nevada Idaho border. Before this time we have no knowledge of the Great Basin as all the earlier rocks and the information they contained appear to have been eroded away or subducted and melted in the interior of the Earth. These ancient rocks are shists, a type of metamorphic rock which is formed from rock that was originally sedimentary in nature. These sedimentary rocks, which originally would have formed beneath the sea must have been buried deep in the Earth and subjected to great amounts of heat and pressure, transforming the ancient limestone into schist.

2,500,000,000

2,500,000,000

**Cryptozoic**

**Prepaleozoic**

2,650,000,000



2,800,000,000

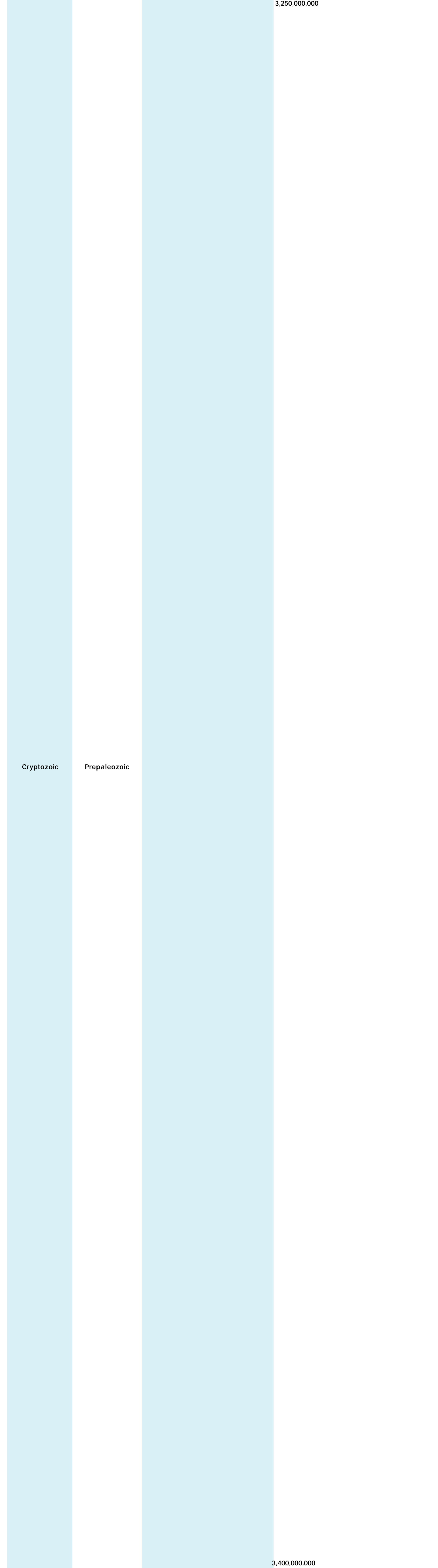
**Cryptozoic**

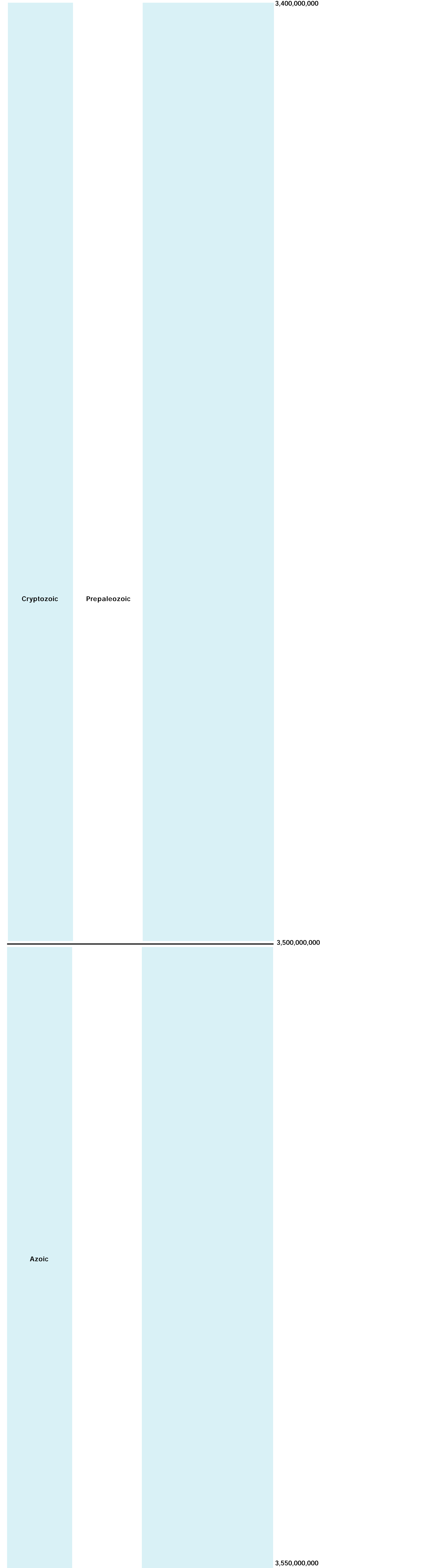
**Prepaleozoic**

2,950,000,000









3,400,000,000

Cryptozoic

Prepaleozoic

3,500,000,000

Azoic

3,550,000,000



3,550,000,000

**Azoic**

3,700,000,000

3,700,000,000

3,850,000,000

Azoic

3,850,000,000

Azoic

4,000,000,000

4,000,000,000

Azoic

4,150,000,000

4,150,000,000

Azoic

4,300,000,000

4,300,000,000

Azoic

4,450,000,000

4,450,000,000

Azoic

4,500,000,000

The Earth Forms in Space

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