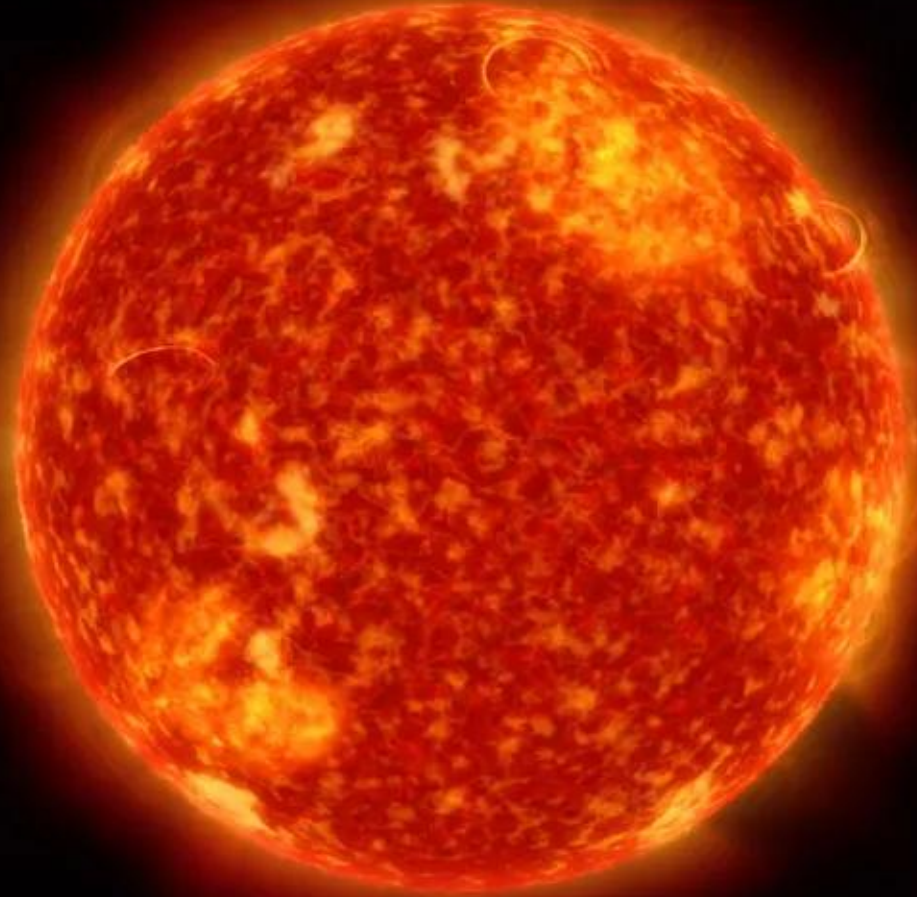


# SOLAR STORMS MAY HAVE STARTED LIFE ON EARTH



1  
00:00:00,000 --> 00:00:05,580

Solar storms may have started life on Earth.

2  
00:00:05,600 --> 00:00:10,690

Earth is the perfect distance from the sun for life to develop.

3  
00:00:10,710 --> 00:00:15,630

But it wasn't the temperature of the sun that seeded life.

4  
00:00:15,650 --> 00:00:21,260

Four billion years ago, our young sun was only 70% of the brightness it is today.

5  
00:00:21,280 --> 00:00:24,930

At this level of brightness, Earth should have been an icy ball.

6  
00:00:24,950 --> 00:00:29,280

So how did Earth warm up?

7  
00:00:29,300 --> 00:00:31,800

New NASA research suggests powerful storms from our young sun

8  
00:00:31,820 --> 00:00:34,950

may have been central to warming Earth.

9  
00:00:34,970 --> 00:00:39,830

Explosions spewed large amounts of energy towards Earth,

10  
00:00:39,850 --> 00:00:44,890

which may have helped create nitrous oxide, a powerful greenhouse gas.

11  
00:00:44,910 --> 00:00:50,890

Energy may have also helped form RNA and DNA, the building blocks of life.