

VOLCANIC AND TECTONIC ACTIVITY IN ATMOSPHERE

A planet without volcanic activity would not renew the earth's crust and generate sufficient gas necessary for thermoregulation of surface temperature and CO₂ (see condition 11; greenhouse). This condition is a consequence of the above condition 5. Moreover, as indicated by some scientists, it is possible that the origin of life took place at vents (or submerged volcanoes), to play an important role in the mix of different elements constituents of life in the water submerged volcanoes many of the young Earth (such as El Hierro), and radiation and electricity from thunderstorms could ultimately unite the necessary parts (amino acids) to create the first " replicator "; one archaic be (ancient DNA) capable of reproducing itself, **would have started the evolution and natural selection from that time would do the rest.**

Around these sources proliferate abundant life and chemosynthetic bacteria derive their energy from sulfur compounds and water, thus replacing photosynthetic organisms at these depths. It is also possible that the greatness of evolution 's adapted to live in such conditions.



The volcano of El Hierro

Since the UV radiation from the sun destroys any microorganism, and as the ozone layer could not develop until vegetables began to produce oxygen by photosynthesis in the sea, life could only have originated from some depth in the sea.

Atmosphere of the planet that is too thick or too thin atmosphere could prevent the development of life. Besides its composition would be decisive; This is closely related to geological activity, the mass of the Earth, and materials that helped form the Earth in its origin.

Aim: The atmosphere of a planet often analyzed as an indication of biotic activity; if they have large amounts of oxygen, this is an indicator of the possible presence of life because oxygen is highly reactive and without the action of the plants would not remain in the atmosphere for a long time.

Source: <http://crecimiento-sostenible.blogspot.in/2015/01/can-there-be-life-on-other-planets.html>