

A characteristic and problems of active life materials formed at the multiple cyclic systems in water planet

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A study on formation of life materials becomes popular inside and outside the Earth, but tries to explain a fundamental concept of the old life materials from the recent characteristic and problems as follows:

1) Life materials are active substances consisting of complex carbon-rich light elements-based molecules, to form symbiosis circular system mixed with material states of liquids and solids, such as complicated mini-type of active water planet.

2) Active life materials are formed by various energy sources at environmental areas in multi-complex reaction processes of long active Earth planet (approximately 5 billion years unit) and short-term life activity (from a year to 1 million years unit). Therefore a strong support of destruction and formation on an active water planet is required to the decomposition and formation of the life materials. The breaking destruction of active life and water-rich planetary materials is fairly easy, but it requires considerable time to develop new materials continuously on the old Earth and life body after global establishment of single and multiple cyclic systems.

3) When the above idea of multi-processes is applied to the extra-terrestrial planets and space, an active life material cannot exist in global waterless extraterrestrial bodies of the moon and waterless planets. In-situ active life materials cannot be largely formed on the surface, even if the local fluid-layer formed by shock-wave process is triggered by a surface collision. On the Asteroids, a life precursor is difficult to form when there is no circularity of the water and atmosphere other than shocked-monomer inorganic and organic substances, because stable compounds of the supra- and giant-molecules should be formed at relatively fluid-rich condition.

4) Carbon cycle system with the active life body is based on the closed system for state changes. However, life materials can be remained especially at the collision with water planet. In this sense, the discovery of a life material as fossil minerals from the carbon cycle system is largely possible, if there are larger aggregates broken by the planetary collision. Therefore, planetary exploration including the Moon and planet Mars is significantly required now and in future by long-time planning.

5) Small cyclic systems of active life materials including our mankind can be moved to extraterrestrial world as short travel time to be involved in wide cycle system in the solar system, though present cycle system on water planet (as in same Earth-type system) should be involved due to its active combined multi-system.

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