

Shock wave study on life chemical evolution: formations of spherule and carbonate materials

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The present study is explained as follows:

1. Formations of Carbohydrate (C-H-O) compounds and carbonate materials are used as first materials among atmosphere, water and rock of active planets for life origin and evolution.

2. Shock wave impact experiments show spherule formation and breaking of long pillar texture. Shock wave impacts show formation of carbonates from elements of atmosphere, water and solid materials of carbon on terrestrial surface.

3. Summary

The present results indicate that spherule of carbohydrates and carbonates formed by shock wave effects are inevitable for carbon circulation on active planet with life and material resources.