

On carbon-bearing material changes to liquid phases by high-pressure processes on the Moon

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The present study on carbon-bearing material-change is summarized on the Moon as follows:

- 1) As there are no air and sea-water on the Moon, three material changes of terrestrial type are not found widely on the Moon. However, wide active change of materials is developed on the Moon, when material change is existed even in local ranges.
- 2) Liquid from carbon dioxides gas by high pressure on the Moon interior can be obtained by static rock-pressure, and by giant (or various shock-waves) impacts.
- 3) Liquid of carbon dioxides makes material-changes of three states as lunar type change of materials.
- 4) Liquid formed by high-pressure forms lunar type volcanism (to form glasses) or impact-related changes around impact craters.
- 5) Author shows results of some experiments by material change of carbon dioxides, which indicates that some materials change of carbon-bearing materials can be observed throughout the Moon.