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Lunar carbon-bearing materials applied to magnetic changes

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The present study can be summarized as follows:

1) Light carbon-bearing materials formed in a high temperature can be explained to unsolved affairs of lunar magnetism and volcanic gases.

2) New light carbon-bearing materials which are applied to the Moon and Mars, many affairs are settled down; for example, the extinction of magnetic minerals on the moon and Mars, new dynamic processes of any dynamic formation process with carbon, and lifted volcanic gas on the Moon or Mars.

3) By containing of light carbon, magnetic Fe and Ni-bearing minerals can be changed to non-magnetic properties by new idea, which are checked by weak magnetic properties of the Apollo samples reported by previous scientists, and by iron meteorite solidified at core magnetic core coexisted with Fe-bearing carbon, carbides and carbonates.

4) By comparing with the magnetic intensity and light element content of the Apollo lunar samples, weak magnetism and irregular magnetism on the front and rear sides of the Moon can be explained by changing process of the magnetic properties by formation of Fe-carbonate of siderite as non-magnetic properties and magnetite formation at high pressure as magnetic properties in the Moon.

5) Lunar volcanic gases are generated from lifted volatile elements by reaction of iron metal and carbon, and triggered to lunar magnetic changes and lunar volcanic gases of non-volcanic pipes and/or mud-volcanoes. This new idea can be used to Martian phenomena, though the Earth phenomena are over-mixed to find real origin.

Keywords: The Moon, carbon-bearing materials, magnetic change, magnetic minerals, siderite, magnetite