

The Exploration of the D/H Ratio of the Water in the Lunar Polar Regions

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We investigated the evolution of the D/H ratio of the water on the Moon, assuming that comets and/or carbonaceous chondrites brought the water onto the Moon. We found that the current values of the D/H ratio of the deposit water ices of the Moon should be different from its initial ones in even a few 10 million years. The D/H ratio of the water ices in the lunar polar regions will be one of the most important targets of future lunar missions.