

## **CORRELATION OF CRUST-FORMING EVENTS OF THE EARTH AND THE MOON WITH AGES OF METEORITES.**

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There are 100 Myr cycles of maximum peaks of crustal-mantle activation for the Earth and the Moon. The beginning of the maximum activation in Early Archean is synchronous on the Earth and the Moon (in the interval 4.2-3.2 Gyr). The 100 Myr-cycles have been revealed for meteorites as well (in the interval 4.3-2.6 Gyr). Peaks of different events in meteorites can be correlated with the peaks of the maximum activation of the Moon and the Earth. Therefore, the 100-Myr periodicity of different processes in the Solar system embraces objects of different dimensions, and these objects can be combined into a system of meteorites-the Moon-the Earth-Other Planets. This coherence of crust-forming events reflects a pulse nature of energy discharge of the Earth's and Moon interior and is tentatively considered to be the consequence of external (galactic) factors affecting the Solar System. The nature of these factors is yet to be clarified. Two stages of accretion of the proto-planetary disk with the boundary near age of 4460 $\pm$ 5 Myr (n=18) between them are documented by chronological dating for meteorites. The boundary corresponds to the oldest intensive and the late extinguished impact accretion events in the Solar system. This study was supported by Russian Fund of Fundamental Investigations(97-05-64863).