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Impact history revealed by the cratering records of the Moon and planets

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It is thought that the supply process of water to the Earth is closely related to the dynamics of the early solar system. Unraveling the impact history in the early Earth-Moon system is essential to understand the origin of water in the Earth. The cratering records of the Moon and planets preserve the impact history in the solar system during the past 4.5 Gyr, which is a key information to understand the source and the dynamical and collisional evolutions of small bodies.

In this talk, I would like to review the statistical studies of the cratering records of the Moon and planets and its findings. Also, I will present findings on the impact history in the early Earth-Moon system revealed by the Japanese lunar explorer SELENE (Kaguya).

Keywords: impact, crater, cratering chronology, Moon, late heavy bombardment

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