

Evaluation of lunarquake and the Influence of lunarquake on the structure on the moon

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By removing specific character of seismometers from the records of lunarquake observations in Apollo Program, displacement-time relation has been obtained. The amplitude of the lunarquake is found to be very small. However, shallow lunarquakes and meteoroid impacts happen to scale M2-5.

For an earthquake or a lunarquake of the same scale, stresses and displacements of the structure on the earth and that on the moon are found to be different with the difference of gravity, damping constant, and sheer modulus. Among them, influence of the gravity is found to be the greatest.