

## The relation between the phase functions and reflectances of the moon

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Using Clementine data, the phase curves of the lunar surface were investigated at small phase angles (0 to 10 deg.) by direct comparison with standard phase angle (30 deg.) data. We found the geological type dependence and wavelength dependence of the phase curve. Additionally, we found a negative correlation between the reflectance at standard phase angle 30 deg. and the brightness ratio  $I(\text{small phase angle})/I(30 \text{ deg.})$ . The dependencies on the terrain type and wavelength can be simply approximated by the dependence on the reflectance.