

Global lunar gravity field recovery for SELENE (II)

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Global lunar gravity field recovery is one of the main goals of Japanese lunar exploration mission SELENE. We discuss the gravity mission capability based on simulation study. As the outline of the gravimetric mission and Doppler tracking are described in the same title (I), we concentrate on discussing differential VLBI measurement and its effect on gravity recovery. The differential VLBI data of two free-flying satellites tracked by ground stations forming 1000-km-long baselines will effectively reduce the error in low-order gravity coefficients.