

## Satellite gravity missions and dynamics of the Earth

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The forthcoming satellite gravity missions will be expected to provide us not only a high precision static gravity model, but also its variation in time. Time dependent component of gravity model gives strong constraints on post-glacial rebound models, and enables us to separate such contributions on gravity anomaly from those of deep mantle dynamics. On the other hand, improvement of short wavelength static gravity model will contribute admittance analysis to reveal lithospheric structure in a global scale.