



## **The Effect Of Local Peculiarities In the Upper Mantle And Lithosphere Structures On Ocean Loading Gravity Corrections**

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The system of equations, which describes deformation of an elastic gravitating compressible sphere, has been solved numerically. The Love load numbers and ocean loading corrections to the gravity based on CSR3 data and the Earth's structure models PREM and IASP91 have been obtained. These model-dependent corrections for the models PREM and IASP91 differ, in particular for M2 wave, up to  $0.5 \mu\text{Gal}$ . It is concluded that local peculiarities of the upper mantle and lithosphere structures should be taken into account when specifying ocean-tide loading gravity corrections.