## INVESTIGATION OF TIDAL GRAVITY IN THE TRANSITION ZONE FROM CONTINENT TO THE SEA OF JAPAN

## Z.N. Proshkina, M.G. Valitov, R.G. Kulinich, T.N. Kolpaschikova

V.I. Ilyichev Pacific Oceanological Institute Far Eastern Branch of RAS, Vladivostok, 690041

The paper presents the results of the monitoring of tidal gravity variations at the junction between the Sea of Japan and Southern Primorye (Far East of Russia). The purpose of monitoring is to study the possible correlation between tidal and non-tidal gravity changes and geodynamics, hydrodynamics and seismogenic processes in the Sea of Japan region. The spectrum allocated to tidal waves and numerical values of the main tidal parameters (amplitude factor  $-\delta$  and the phase delay of the tidal wave  $-\alpha$ ), due to the viscoelastic properties of the regional geospheres was calculated. The authors used the optimal theoretical models of the so-called oceanic load to reveal the gravity variations caused by tidal deformations.

Keywords: gravity variations, oceanic tidal model, the tidal deformation of the solid Earth.