



## **First tidal gravity observations on Kamtchatka**

Alexander Kopaev (1), Ilyas Abkadyrov (2), Yuri Bukatov (2), and Mikhail Yarkov (1)

(1) Astronomical Institute of Moscow University, Moscow, Russia (gravity3@yandex.ru), (2) Institute of Volcanology and Seismology of RAS, Petropavlovsk-Kamtchatski, Russia

Tidal gravity observations have been carried out for the first time on the territory of Kamtchatka Peninsula, that is the most volcanically active region of the world. Two Scintrex CG-5 gravimeters (## 448 and 450) were used. The instrumental intercomparison has been carried out at PET station of Geophysical survey of RAS in Petropavlovsk-Kamtchatskii during more than 1 year. Oceanic tidal loading correction has been computed according to the ICET recommendations (mean of 6 oceanic tidal models). Delta-factors agree with model values perfectly whereas phase lags remain after loading correction anomalous (about 1 deg). Local oceanic tidal model is under consideration, as well as 3 more new tidal gravity stations will be installed.