



Calibration of spring gravimeter ET-26 using absolute gravity measurements

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The tidal measurements at the Astro-Geodetic Observatory in Jozefoslaw began in 1993 with LaCoste&Romberg G model. Nowadays the Observatory is equipped with two gravimeters: the ET which is the most precise spring gravimeter and D model. The use of results depends on correct determination of the scale of tidal records which should have relatively high accuracy. The most frequently used method for calibration of tidal gravimeters with more or less regular drift is comparison to the absolute measurements. The repeated absolute gravity measurements with the FG5 No. 230 gravimeter at the Observatory in Jozefoslaw were used for computing calibration factors of the tidal gravimeters using least-squares fitting. The scales of the tidal gravimeters were determined from 8 2-day absolute campaigns performed between October 2006 and May 2007 with the accuracy of 0.10%. This presentation shows the results of this research and further usage of them.