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Role of environmental signal in the Earth tides observations: experiments at Jozefoslaw Observatory

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This paper presents the results of the project aimed at the investigation of the role of the environmental effects in gravimetric Earth tides observations which was held at the Jozefoslaw Observatory. The Observatory belongs to the Warsaw University of Technology and is placed at the suburbs of Warsaw. The importance of maintaining fundamental stations with multi-parameter observations is beyond every doubt. At Jozefoslaw Observatory satellite (GPS and GLONASS) observations are run in parallel to absolute (using FG-5) and tidal (with LC&R ET-meter) gravity measurements. The knowledge of the local tidal gravity parameters is required for correction of the absolute gravity measurements and for the interpretation of local ground displacement as well. The correlation between local gravity changes and soil moisture) was investigated. This paper will present the results of this investigation. The project was supported by the grant of the Polish Ministry of Science and Computerisation No 4 T12E 003 27.