



Calibration and scaling of GRACE, GOCO03S and classical hydrosphere models for further model combination preparation

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Equivalent water thickness (EWT) observation is a crucial part of a water cycle monitoring. A phenomenon which is going to be analyzed is an elementary natural issue. Monitoring and understanding of the water cycle phenomenon is an important part of economy, can provide a possibility of drought and flood prediction, atmosphere monitoring, river state, storage of drink water. Evaluating a method of a modern, effective and accurate water cycle monitoring will give an opportunity to prevent many disasters.

Authors will test a new hydrosphere model that will be a combination of gradiometric and classical hydrosphere models. A sample area will be a territory of Poland, but an idea is to evaluate a method that can be used globally. Two satellite models will give a modern, almost in real-time presentation, while classical models will give details. The aim of the paper is to calibrate and scale to the same level all mentioned models as a basis for further model combination preparation.