



Hydrological effects on polar motion compared to GRACE observations

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The influence of the continental hydrological signals on the polar motion of the Earth is not well known. Different models have been developed to evaluate their effects and to compare them to geodetic observations. However, they have shown large disagreements mainly due to the lack of global measurements of related hydrological parameters.

Gravity Recovery and Climatic Experiment (GRACE) mission allows us a new way to evaluate hydrological effects on polar motion and to check the up-to-date models. Data processing of GRACE observations is carried out by several analysis centers around the world. We focus on the new solution computed by the Groupe de Recherche de Géodésie Spatiale (GRGS) in France.