



## **Hydrological excitation of polar motion derived from GRACE observations**

L. Seoane (1) and J. Nastula (2)

(1) Observatoire de Paris, SYRTE, Paris, France (lucia.seoane@obspm.fr, 00 33 140512291), (2) Space Research Center, Warsaw, Poland

Besides atmospheric and oceanic mass redistributions, the hydrological ones drive significantly polar motion. In the last years many efforts have been done to estimate this influence. At the present there exist different hydrological models from which we can compute polar motion excitation caused by continental hydrology. However, those models show large disagreement with the observed polar motion. Thanks to the Gravity Recovery and Climate Experiment (GRACE) observations, there is a new way to evaluate hydrological effects on polar motion and to check the up-to-date models.