

1086-31-1017 **Wolfgang Keller*** (wolfgang.keller@gis.uni-stuttgart.de), Universität Stuttgart,
Geodätisches Institut, 70174 Stuttgart, Germany. *The GRACE de-stripping problem. What does
GRACE really see?*

The GRACE twin-satellite mission very successfully determines the monthly variations of the Earth's gravitational field. Nevertheless, the monthly solutions are severely disturbed by north-south stripe pattern, which makes the direct use of the monthly solutions impossible. Geophysically reasonable solutions can only be obtained after a smoothing, which considerably reduces the spatial resolution of the GRACE solutions.

The paper tries to find the cause of the generation of these vertical patterns and suggest possible counter-measures. (Received September 18, 2012)