



The GFZ RL05 GRACE Gravity Field Model Time Series

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The GRACE Science Data System (SDS) has published last year an improved new release (RL05) of GRACE gravity field products covering the complete GRACE mission period since 2003. Missing data for 2002 will be provided soon. The RL05 time series of the German Research Center for Geosciences (GFZ) as part of the SDS is based on updated Level-1B instrument data, improved background models (e.g. a new model release to de-alias atmospheric and oceanic short-term mass variations or use of static and time variable gravity information from EIGEN-6C) and modified processing standards (e.g. for accelerometer data parameterization or GPS data processing). GFZ RL05 solutions clearly result in notable noise reduction and signal improvement compared to its precursor RL04. This paper summarizes the RL05 approach and will also show some validation results.