



Assessments of GRACE Next Generation Gravity Field Data Products

Srinivas Bettadpur and the CSR Level-2 Team

The University of Texas at Austin, Center for Space Research, Austin, United States (srinivas@csr.utexas.edu, +1 512 232-2443)

The next generation gravity field data products from GRACE are labeled Release 05 (RL05). The improvements in these products relative to the previous RL04 products are manifested in three ways: Increased resolution, improved accuracy, and an increased variety of products for the diverse community of users. These improvements are a result of improvements in the Level-1 data products; improvements to the background gravity field models; and improvements in the data processing methodology.

This presentation will describe these improvements, with particular focus on (i) the impact of improved background gravity models on the signal content in the RL05 data products; (ii) quantifying the improvements in the gravity field products from RL04 to RL05; and (iii) the impact of improvements upon the seasonal and longer-period signal content.