

WP5 Introduction



- Contributing: TU Graz and GFZ
- Goal: Provide to the Hydrological Service (WP6)
 - Daily and in NRT (<5d) mass redistribution products for all areas of interest
 - Regional gravity solutions with increased spatial resolution
- T5.1 (Requirements and Concept, M01-M03):
 - Deliverable Document D5.1 „Concept of NRT Service” (@M03)
- T5.2 (NRT Solutions, M04-M27):
 - Based on daily Kalman filter modeling (TUG) and Radial Base Functions (GFZ)
 - Reprocessed Solutions for complete GRACE mission period available and provided to partners for validation (GNSS, OBP) and application (Hydrological Service)
 - Important Milestone 1 @M18: Service Readiness (NRT service set up)
 - Important Milestone 2 @M27: Operational NRT Service Readiness (Preparation work for operational NRT Service finished)
 - Upcoming: Deliverable Document D5.2 „NRT Service Product Report” (@M27)

WP5 Introduction

- T5.3 (Operational NRT Solutions, M28-M33):
 - 6 months test run (together with WP6 Hydrological Service) at DLR/ZKI
 - Open: Are GRACE data still completely available between April and September? Impact of reduced L1B quality? Use historical flood events as backup scenario?
- T5.4 (Regional Solutions: Concept and Processing, M04-M27):
 - Not yet completely finished, further work needed till M28
- T5.5 (Generation of Area Mean Values, M19-M36):
 - Area Mean Values have been generated for a number of selected medium to large-scale river basins, which have experienced widespread flooding since the start of the GRACE mission and for which daily discharge observations are available, e.g. the Danube, Rhine, Elbe (Europe), Mississippi (North-America) and Mekong and Ganges-Brahmaputra (South-East Asia).
- T5.6 (Validation/Feedback, M19-M36):
 - Historical events and NRT validation based on GNSS and in-situ/modeled OBP

WP5 Presentations



WP5: NRT & Regional Service

- Introduction to WP5 (FF)
- Status of NRT and Regional Solutions at TUG (AK)
- Status of NRT and Regional Solutions at GFZ (CG)
- Validation of daily NRT time series using OBP data (HD)
- Validation of daily NRT time series using GNSS data (QC)
- Discussion