

New Features and Future Plans of the International Centre for Global Earth Models (ICGEM)

Elmas Sinem Ince, Franz Barthelmes, Sven Reissland, Kirsten Elger, Christoph Förste, and Frank Flechtner
GFZ German Research Centre for Geosciences, Geodesy and Remote Sensing, Potsdam, Germany (foer@gfz-potsdam.de)

The 15 year old ICGEM is one of the five services coordinated by the International Gravity Field Service (IGFS) of the International Association of Geodesy (IAG). The aim of the ICGEM service is to provide the scientific community with a state of the art archive of static and temporal global gravity field models of the Earth in a standardized format with a possibility to assign DOI number and develop interactive calculation and visualisation services of gravity field functionals. Development and maintenance of such a unique platform is crucial for the scientific community in geodesy, geophysics, oceanography and climatology and has a positive impact in the governmental organisations and industrial practice. In this presentation, we will cover the maintenance, and the new features and future plans of the ICGEM Service. New features include the calculation of gravity field functionals at a list of distributed points and new topographic gravity field models whereas the future plans aim to meet the needs of the scientific community.