

## **The contributions by BKG to the realization of the global geodetic reference frame**

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**Abstract.** The United Nations (UN) underlined the importance of the Global Geodetic Reference Frame (GGRF) by their resolution in 2015. Since many years, the activities in the context of the GGRF are coordinated by the IAG and its different services. Several institutions and individuals are the stakeholders of the IAG services and they ensure on a best-effort basis that the GGRF is realized so that the necessary products are generated and available for the uses.

BKG is one of these institutions contributing to the IAG services by operating observing stations, performing data analysis, generating combined products, and provide data and products publicly to the broad user community. This presentation will focus on BKG's activities within the three IAG services IVS, ILRS and IERS, and therein we will summarize the contributions by our analysis, combination and data centers.

We will show the operational activities for generating GGRF-related products on a daily and weekly basis using the most recent observing data as well as the re-processing activities using the data available since the beginning of VLBI and SLR observations, e.g., for the recently finalized ITRF2020. The most important products resulting from our data analyses and combination are Earth Orientation Parameters (EOPs) and station positions, but also satellite orbits, troposphere parameters and quasar coordinates are provided. We will summarize how the product generation is organized, where the diverse products can be accessed, which methods we support for accessing the data and products, and we will show the quality level of our products.