FZJ Experimental Water Resources Bulletin for Germany, Spring 2025



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The Forschungszentrum Jülich (FZJ) experimental water resources bulletin (eWRB) gives a regular seasonal update on the current state and the upcoming potential evolution of terrestrial near-surface water resources. The eWRB is an open access research data product for an expert environmental sciences and stakeholder audience as well as the interested public.

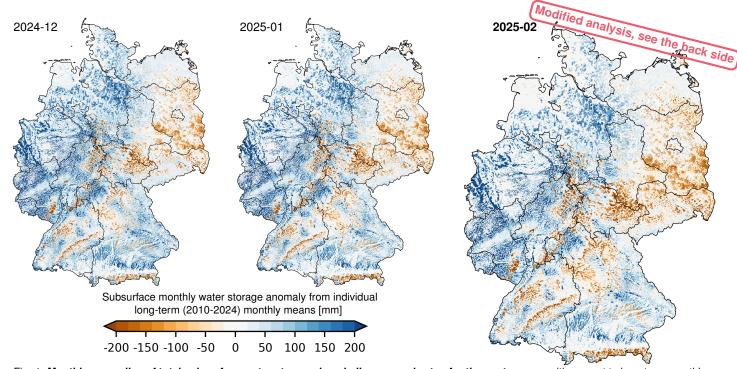
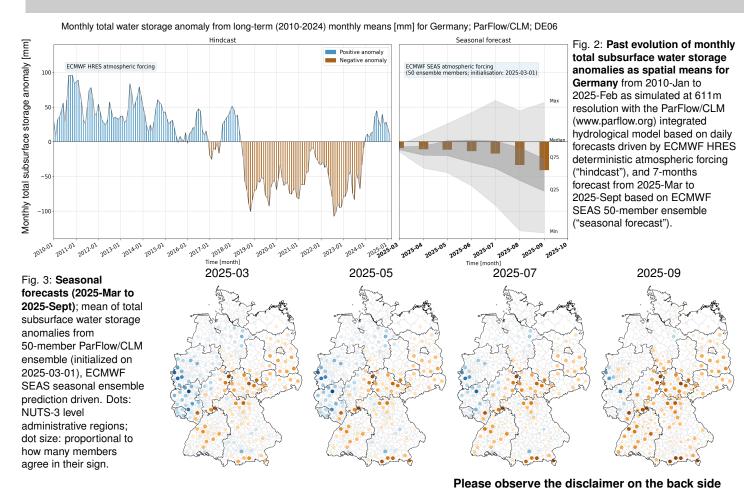


Fig. 1: Monthly anomalies of total subsurface water storage, i.e. shallow groundwater, for the past season with respect to long-term monthly means from 2010-2024 in mm water column. With the eWRB, the total subsurface water storage includes the shallow soil zone and groundwater to a depth of 60m. Data: Hindcasts from ParFlow/CLM simulations with ECMWF HRES atmospheric forcing.

State and possible developments: Over the winter the subsurface water storage has slightly decreased. Drier conditions are widely expected for spring and summer, with a normalization in the northwest and increasing deficits in the southeast. Based on the 50-member ensemble forecast from 2025-03-01.



FZJ Experimental Water Resources Bulletin for Germany, usage conditions and disclaimer

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Updates

The FZJ Water Resources Bulletin information products are prototypical scientific products, that are part of a knowledge transfer towards practical real-world applicability. The forecast products are generated in a quasi-operational mode, i.e., they are not part of an official forecasting service. Nevertheless, the FZJ Water Resources Bulletin project team attempts to provide a forecast at the beginning of each meteorological season, within reason.

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Please note: From the Spring 2025 eWRB onwards, a new baseline climatology (v3) is used for the anomaly calculation and the reference time span is expanded from 2013/01-2022/12 to 2010/01-2024/12. This affects all analyses and shows when comparing with previous eWRB issues.

Jülich, 2025-04-09