FZJ Experimental Water Resources Bulletin for Germany, Summer 2025



www.adapter-projekt.de/bulletin

Release date: 2025-06-12, the eWRB Team

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: During Spring, subsurface water storage continued to decline, stronger than forecasted in the April 2025 eWRB. Increasing summer deficits are expected in the south, middle, and east of Germany. Nation-wide means seem comparable with simulation results for drought years 2018 and 2020. Basis: 50-member ensemble forecast from 2025-06-01.



Please observe the disclaimer on the back side

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

www.adapter-projekt.de/bulletin

eWRB project team

A. Belleflamme, K. Goergen, S. Hammoudeh, S. Kollet Research Centre Jülich, IBG-3 Agrosphere, 52425 Jülich, Germany Contact: eWRB@fz-juelich.de

Citation

When using FZJ Water Resources Bulletin information products, please cite as follows: "www.adapter-projekt.de/bulletin (Forschungszentrum Jülich in the Helmholtz-Association)".

Usage conditions

The FZJ Water Resources Bulletin information products are open access, free research data from the FZJ Water Resources Bulletin project team and licensed under a <u>Creative Commons Attribution-ShareAlike 4.0 International License</u>: CC BY-SA 4.0. The official Creative Commons Attribution-Share Alike 4.0 International License text is here: https://creativecommons.org/licenses/by-sa/4.0/legalcode.

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.

Disclaimer

The FZJ Water Resources Bulletin data, information, visualisations, diagnostics, analyses are provided "as is" and without warranty of any kind, either expressed or implied, including but not limited to warranties of merchantability, fitness for a particular purpose, and non-infringement. In no event shall the authors or copyright holders be liable for any claims, damages or other liabilities, whether in an action in contract, tort or otherwise, arising from, out of or in connection with the data, information, visualizations, diagnostics, analyses or the use of or other dealings in the data, information, visualizations, diagnostics, analyses.

Jülich, 2025-06-12