



Interactive open access to climate observations from Germany

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During recent years, DWD has significantly extended the free access to its climate observations. A first step was a simple FTP-site with the possibility for downloading archives with various categories of data, e.g. national and international station-based meteorological data, derived parameters, gridded products and special categories as e.g. phenological data. The data are based on the observing systems of DWD for Germany as well as international activities of DWD. To improve the interactive and user-friendly access to the data, a new portal has been developed. The portal tries to serve a variety of user requirements that result from the broad range of applications. On the one hand, some users just want to quickly check single observations or need a visualization for a selected point in time, e.g. for including it into a report. On the other hand, users want to access the information with standardized technical interfaces or have a demand for complex combinations of parameters or are interested in detailed background information on the measurements. The portal is based on a systematic implementation of OGC-based technologies. It provides easy graphical access to the station data. In addition to the observations, also detailed meta-data can be access, e.g. on the station and instrumentation history. User can use several selection criteria to produce user-specific download packages, e.g. combinations of parameters, stations and temporal resolution of the data. In addition to such interactive downloads, the data are also accessible based on OGC-compliant Web-Mapping-Services. Search tools support the users in the identification of the appropriate datasets and also provide detailed supplementary information for applications of the data, e.g. on data format, data origin, quality information and uncertainty estimate. The presentation will provide an overview of the new climate data portal of DWD.