

## High resolution data, forecasts and services for hydrological applications

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Prediction and warning of extreme events as river flooding, flash floods and monitoring of low flow situations need specific meteorological input. Hydro-climatological data supports water resources assessment or risk assessment. Based on the hydrometeorological services of DWD, an overview will be given about state of the art developments regarding combination of radar and in-situ observations, high resolution numerical forecast products (including snow melt) and climatologic heavy rain statistics will be discussed. A glimpse will be given on the interaction between Germany's Meteorological Service (DWD) and the regional flood forecast centres as well as on national cooperation including transboundary aspects.