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Links between drought and atmospheric circulation types during 1950-2019

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The study deals with links between drought and atmospheric circulation in different parts of Europe (Western Europe, Central Europe, Eastern Europe, Northern Europe, and Southern Europe) during 1950–2019. The links are evaluated using drought characteristics (based on a difference between potential evapotranspiration and precipitation) calculated from gridded EOBS data and atmospheric circulation types that were classified using daily sea level pressure patterns obtained from the NCEP-NCAR reanalysis. Circulation types supporting drought in warm half-year are identified, and we analyse changes in their occurrence in the period after 1950, seasonal changes, and the connection with drought trends in individual European regions.