

## **Up-to-date climate forced seasonal flood changes (the case study for the European part of Russia)**

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**Abstract** The analysis of hydrological information for the observation period (1946–2010) based on data from more than 200 hydrological stations enabled the evaluation of changes in characteristics of a spring flood in the rivers of the European territory of Russia and the determination of flood characteristic factors. In addition, changes of climatic characteristics such as the increase in number of winter thaws and the precipitation total in the cold season have been related to features of spatial and temporal variability of the beginning and end dates of the spring flood, maximum water discharges and shapes of hydrographs, and volume of runoff during a spring high-water period.

**Key words** flood; water regime; climate change; European part of Russia