

Flood conditions in the drainage basin of Yantra river, North Bulgaria

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The analysis of flood conditions in the drainage basins of Yantra Rivers is performed and will be presented. Yantra River belongs to the temperate climate and is located in North Bulgaria. The river could be seen as representative for Danube hydrological zone in the country.

The coefficient representing the stage of wave appearance is introduced. The period of investigation is 1936-2003. The module of river runoff is estimated in the Yantra River basin.

The analytical approximation of the empirical distribution functions is performed and analyzed. The discharges with selected probabilities of exceedance for high flow waves are presented.

The selected drainage basin of Yantra River could be used as indicator for appearance of negative extreme hydrological events in the North Bulgarian territory.