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Occurrence of Maximum Discharges in the River Hron Basin

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Significant flash floods occurred in the river Hron basin in last years. In some water gauging stations there were observed the highest ones within the whole monitoring period.

For flood evaluation and flood protection we are mainly interested on maximum discharges, but for complex approach we also have to deal with other parameters like duration and date of occurrence. For this reason we evaluated occurrence of annual-maximum discharges in the River Hron Basin.

Area of the Slovak river Hron basin is 5 465 km², it springs in Slovenske rudohorie and flows into the river Danube near Sturovo town.

Annual-maximum discharges were studied in the water gauging stations of The Slovak Hydrometeorological Institute within period 1970-2003. 7 regions have been selected in the basin according number of occurrence annual-maximum discharges in individual months.

We also found out if annual-maximum discharges occurred in last years were caused by rains of high intensity, otherwise regional rains, eventually mixed. These data and their significance were studied within the whole monitoring period. In some stations higher frequency of summer floods was distinguished in last years.