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Significant changes of the surface runoff in areas with special geological structures

ABSTRACT

The paper presents surface runoff deviations on water courses that cross areas with certain geological structures: limestone areas or areas with substantial gravel deposits. Due to the particularities of these geological structures, in these areas, on certain river sectors there are significant water infiltrations in the underground, slightly diminishing the river discharges, while on the others there are strong springs in other basins, creating an underground water circuit in total discordance with the river basin watershed. The discordances were emphasized in a quantitative way through comparison with the runoff characteristics on rivers which were not influenced by these geological structures using several methods: the hydrometric method, tracers markings and summary relations.