QUANTIFYING THE RETENTION CHARACTERISTICS BY THE MEANS OF GEOMORPHOLOGICAL PATTERNS OF THE BASIN

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In the presented study we tested the selected sets of linear and nonlinear regression models, that describe the relationships between the selected parameters of hydrological model Bilan, which were estimated using the meteorological, hydrological series, and between the retention characteristics estimated using the selected geomorphological patterns of the river basin.

Derived regression models allow the estimation of the model parameters Bilan using retention characteristics that describe the maximum retention of basin S3, and characteristics that estimated retention in the floodplains like maximum local slope of river network Smax, average slope of river network St, and drainage density Dd. This contribution presents the first results of the regional analysis focused on quantifying the retention characteristics by the means of geomorphological patterns of the basin.