MEASUREMENT OF RIVER VELOCITY AND DISCHARGE ON THE REKA RIVER EXPERIMENTAL BASIN

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In 1998 Slovenian IHP Committee selected Reka River for experimental river basin. We set up the equipment and started with water velocity, depth and temperature measurements and performed water-quality, chemical and toxic tests. Our aim was to test the equipment and to collect and analyze valuable data from different sources. We used Unidata’s Starflow ultrasonic Doppler instrument and Valeport current meter for hydrologic measurements on Cerkvenikov mlin water station. Comparison of velocity-depth curves showed discrepancies especially at higher water-level values. Modern technologies allow us to observe short period water velocity fluctuations and to form more precise stage-discharge relationships. Usage of modern equipment in future will also help us perform better water balance, hydrologic and hydraulic calculations.