

## BOOKS REVIEWS

**Dragana Milijašević**

### **HYDROGEOGRAPHIC STUDY OF THE ĐETINJA RIVER.**

Geographical Institute "Jovan Cvijić" SASA, special editions, vol. 76, 2010.



The monograph *Hydrogeographic study of the Đetinja* represents an original scientific work written on the basis of scientific and technical literature, statistical processing of materials and own field researches. The monograph analyses the water regime of the Đetinja and the Skrapež, its largest tributary, the water balance of the basin, as well as factors that condition it to indicate the possibility for optimal use, development and protection of water in this area.

At 115 pages in 9 chapters the author first gave an overview of the previous researches, based on which it is noted that this basin from the hydrological aspect has been one of the less studied parts of Serbia. Then it comes to geographic location and morphometric characteristics of the basin, and then the physical-geographic properties of the basin, which affect its hydrological characteristics and condition the water management problems in it. Geological structure has also been presented, as well as relief, climate, pedologic composition and biogeographic characteristics. The most important section deals with the hydrological representation of the Đetinja river basin with detailed description of the main stream and its tributaries, morphometric characteristics, water regime and water balance. For the analysis of the river regime, the data for the forty-two-year period for station Stapani were used (1961-2002) and slightly shorter periods for stations Šengolj (1978-2005), Kosjerić (1981-2000), Požega (1977-2000) and Gradina (1998-2002). The water level, discharge, specific runoff, the amount of runoff and runoff coefficient were analysed. By making the water balance of the Đetinja basin, it was found that of the total precipitation in the basin only 39% of water runs off, so it is concluded that the basin is not particularly rich of water and accordingly it is necessary to take certain measures to improve water balance. Water supply and hydropower were treated within the chapter The Use of Water, and flooding, erosion and flood waters and pollution of rivers were treated within Water Management Problems. It is pointed to the causes and consequences of these problems and concrete proposals for their solution.

In the monograph *Hydrogeographic study of the Đetinja river* the scientific results are presented which have great theoretical significance in the management, use and protection of water in the Đetinja basin. The obtained results complement previous hydrological researches of the basin with the aim of the rational exploitation of the water potential.

*Ana Milanović*