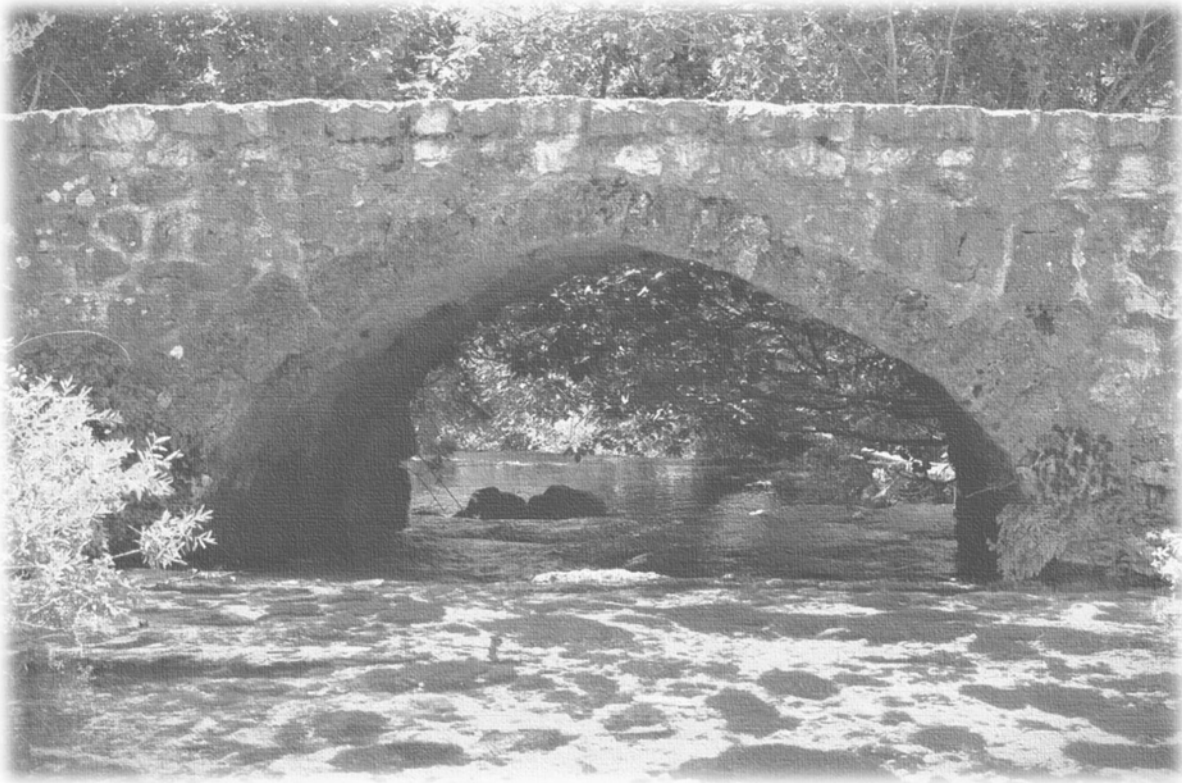


Book of Abstracts



4. Simpozij o biologiji slatkih voda s međunarodnim sudjelovanjem



4th Symposium on Freshwater Biology with the international participation

Zagreb, 21 April 2023

Book of Abstracts

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Assessment of ecological potential of the Medjuvršje reservoir based on benthic macroinvertebrates

The Medjuvršje reservoir is a highly modified water body on the Zapadna Morava River by the construction of a hydroelectric power plant. According to the national regulation it belongs to type 2 watercourses, i.e. large rivers with mineral substrates of medium grain size. The aim of this study was to evaluate the potential of the Medjuvršje reservoir using bioindicative properties of benthic macroinvertebrates, taking into consideration their community composition. Macrozoobenthos were collected from two sites in the littoral zone of the reservoir using a standard hand net following the standard methodology (EN 27828). Specimens were sorted and identified under a stereo microscope using the appropriate identification keys. Assessment of the reservoir's ecological potential was carried out based on the class boundaries for Type 2 rivers using several biotic parameters calculated from AQEM (2002). The representatives of Oligochaeta, Mollusca, Odonata and Chironomidae were most abundant in the benthic community. The larval stages of the insects Ephemeroptera, Heteroptera, Coleoptera and Trichoptera were recorded only from the microhabitats with abundant macrophyte vegetation. Within this study, we also recorded the first finding of a freshwater sponge for this type of water body. Based on the macrozoobenthos composition and according to analyzed indices (saprobic index Zelinka & Marvan, BMWP and ASPT score, Diversity index Shannon-Weaner, Total number of taxa, share of Oligochaeta-Tubificidae) the ecological potential was assessed as good (II class of Water quality). However, when the EPT index was considered, the status deteriorated to IV (site 1) or V class (site 2) as poor or bad status.