



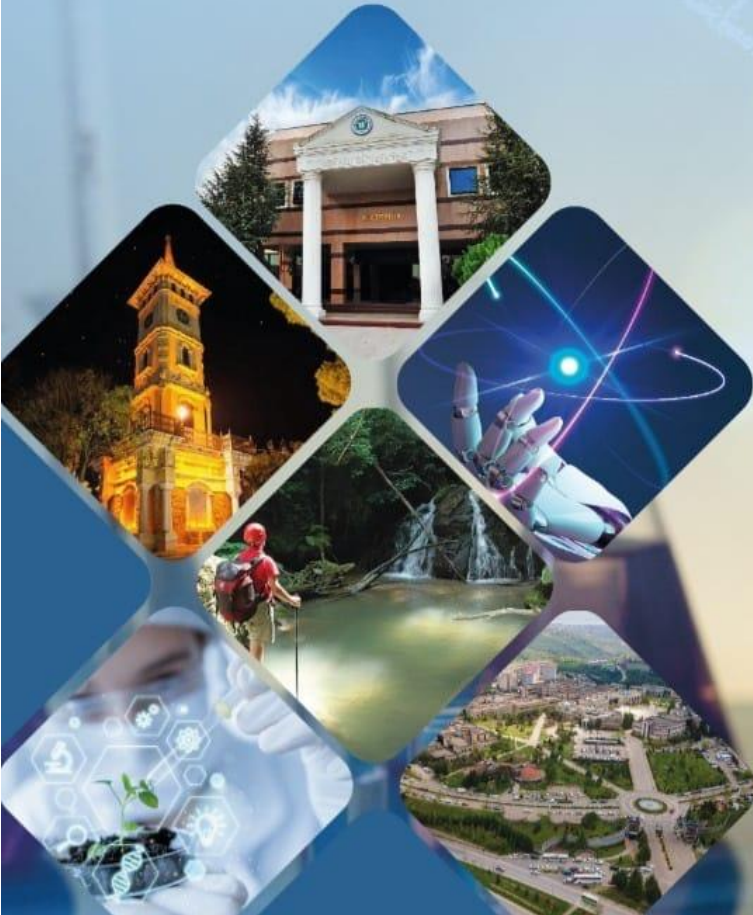
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Subfossil Chironomids from two Neighbouring, Size-differing Lakes in the Eastern Carpathians, Romania

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Abstract

Subfossil chironomid remains were examined from short sediment sequences collected from two neighbouring alpine lakes in the Maramures Mountains, Eastern Carpathians, Romania to assess and compare their past environmental changes. Lake Vinderel with a 0.9 ha area and 5.5 m maximum depth represents the largest lake in the region, whereas the Lake Livia with a 0.06 ha area and 3.5 m maximum depth is rather a small pond situated nearby. In this study, 34 cm long sediment sequences from lake Vinderel and 28 cm long sediment sequences from Livia were analysed.

Both lakes yielded low taxonomic richness with 11 taxa for each lake. The assemblages of both lakes were dominated by *Procladius* sp., *Chironomus anthracinus*-type and *Tanytarsus lugens*-type. In contrast, *Endochironomus impar*-type appeared solely in lake Livia which suggesting low pH periods. Moreover, littoral taxa such as *Dicrotendipes nervosus*-type and *Microtendipes pedellus*-type were observed only in Lake Vinderel, whereas semi-terrestrial *Limnophyes-Paralimnophyes* was exclusive to Lake Livia.

Keywords: Eastern Carpathians; Romania; Subfossil chironomids; Lake Vinderel; Lake Livia.

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