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**Paleo-ecological reconstruction of the locality of Perunika village in Eastern Rhodopes Bulgaria) during the Upper Eocene, based on Molluscs (Mollusca: Gastropoda, Bivalvia)**

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**ABSTRACT:**

During the current study 111 fossil specimens were collected from the region of Perunika Village, Eastern Rhodopes Mountain in Bulgaria, from which there were minimum 14 species of gastropods from 11 genera, and 3 species of mussels from 3 genera. Most of the species were with Priabonian age, and the rest were with more wide vertical distribution among the whole upper Eocene. The gastropods strongly predominated with 100 specimens while the mussels were rare, and were less than 10% from all the molluscs collected. From the snails the specimens from the genus *Globularia* prevailed with 43%, followed by genus *Borsonia* with 15%. The other snail genera had only few specimens registered and were from 2 to 8% from all. The age of the studied sediments can be related to the Priabonian on the base of the determined molluscs fauna. The registered gastropods indicate an ancient warm and shallow sea with oligo- to mesohaline waters.

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