



## Spatial and Temporal Distribution of Calanoida (Crustacea: Copepoda) from Lake Ohrid Pelagic Zone<sup>#</sup>

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**Abstract:** The representatives of Calanoida: *Eudiaptomus gracilis* Sars and *Arctodiaptomus steindachneri* Richard are the most important links in the food chain in lake ecosystems. Their postembryonic development is very complicated and its duration is more months. So great part of its life they are in larval stage and have great role in total zooplankton biomass. In this paper the review of the spatial and temporal distribution of calanoids in the Lake Ohrid pelagic zone during 2008 is given. According to obtained results, density of calanoids is variable and seasonal successions in the temporal distribution of their maximal development were noted. *E. gracilis* is perennial form permanently present in open water. The continuous dominance of copepodid stages were noted during the year. The intensive reproduction and development of the larval stages is during winter-summer period. *A. steindachneri* is perennial form permanently present in open water. During the autumn, winter and summer period the population is presented only with developmental stage copepodid V, less stage IV. The intensive reproduction and development of the larval stages is during summer period. The obtained results are contribution to our long-term investigations of Lake Ohrid zooplankton and enable registration of possible changes in function of time.

**Key words:** Lake Ohrid, pelagic zone, Calanoida, distribution.

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