



Tiberti R. and M. Barbieri. 2011. Evidences of zooplankton vertical migration in stocked and never stocked alpine lakes in Gran Paradiso National Park (Italy). *Oceanological and Hydrobiological Studies*, 40: 36-42.

Zooplankton vertical migration was described in four high altitude lakes in Gran Paradiso National Park (Northern Italy) during 2008 summertime. The authors succeeded in describing the vertical distribution of 6 species: diel vertical migrations were observed in the case of adult crustacean species (*Cyclops* gr. *abyssorum*, *Arctodiaptomus alpinus* and *Daphnia* gr. *longispina*), whereas the remaining rotifer species (*Keratella quadrata*, *Polyarthra* gr. *dolichoptera* and *Synchaeta* gr. *stylata-pectinata*) and naupliar stages of copepods did not undergo migrations. Migratory behavior of *Daphnia* gr. *longispina* and *Cyclops* gr. *abyssorum* was influenced by the size of individuals, especially larger individuals use to migrate deeper during the day compared to the smaller conspecific. This study provides new evidences of zooplankton vertical migration in never-stocked lakes and highlights the need to consider the zooplankton migration as result of multiple causal factors.

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