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**Vertical diversity and biodiversity of amphibians (Amphibia) and reptiles (Reptilia) of mountain Mosor**

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**Date and place:** 7.4.2010., Department of Biology, Faculty of Science, University of Zagreb

According to data collected during the study period since 2000. until 2009. was found herpetofauna biodiversity in the mountain Mosor and its vertical distribution. The species richness of certain altitude belts was calculated as well as their  $\beta$  diversity /species turnover/ by WHITTAKER (1960). I tried to explain the reasons set forth changes in the composition of fauna and to establish the boundaries of species composition. The obtained data were compared with known data for the altitudinal distribution of reptiles on mountain northern Velebit and Biokovo mountain (KRYŠTUFEK et al., 2008). When it is used in the calculation of species composition similar to Jaccard's similarity coefficient (JC) (LEGENDRE & LEGENDRE, 2003), and between different altitude belts in the mountains with which Mosor compared to the RUSSELL et al. (1995). Data presented in this master's work are the first systematic data on the herpetofauna of the mountain areas of Mosor.

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**Vertikalno rasprostranjenje i raznolikost faune vodozemaca (Amphibia) i gmazova  
(Reptilia) planine Mosora**

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Prema podacima sakupljenim tijekom istraživanja u razdoblju od 2000. do 2009. godine utvrđena je bioraznolikost herpetofaune na području planine Mosora i njena vertikalna rasprostranjenost. Izračunato je bogatstvo vrstama pojedinih visinskih pojaseva, te se izračunala njihova  $\beta$  raznolikost /species turnover/ prema WHITTAKER (1960). Nastojali su se objasniti razlozi utvrđenih promjena u sastavu faune te utvrditi granice promjena sastava vrsta. Dobiveni podaci su se uspoređivali s poznatim podacima za visinsko rasprostranjenje gmazova planine sjeverni Velebit i Biokovo (KRYŠTUFEK i sur., 2008). Pri tome se koristilo izračunavanje sličnosti u sastavu vrsta prema Jaccard-ovom koeficijentu sličnosti (JC) (LEGENDRE & LEGENDRE, 2003), a između pojedinih visinskih pojaseva na planinama s kojima se Mosor uspoređivao prema RUSSEL i sur. (1995). Podaci prikazani u ovom magistarskom radu prvi su sustavni podaci o herpetofauni područja planine Mosora.