

Effect of environmental variables on diversity and abundance of water bird species

Abstract

The environmental variables affect the abundance of species and individuals of most living organisms significantly. The intensity of environmental changes can be evaluated by using bioindicators. The birds rank among them. The most significant variables of the wide range of abiotic, biotic and anthropogenic factors are likely change of habitat structure and quality and climatic changes. In this thesis there is addressed issue of the impact of these factors in the model group of organisms - water birds. The first part is devoted to the characteristics of the impact of environmental variables on the abundance and species diversity of birds by the research of available literature. The relevant data are processed in the second part. There is carried out basic analysis of major environmental factors affecting the diversity and abundance of waterfowls at locations of interest.

Keywords: environmental variables, climate change, land cover, habitat structure, biodiversity, waterfowls