

Abstract

Plant invasions are becoming increasingly more discussed issue, primarily due to a negative impact on global biodiversity. It has also an economic impact and it affects human health. It is therefore important to study the introduction of plant species and their distribution, and monitor them in some way. This is particularly applied to protected areas, where rare species of plants are often endangered. In this work were described factors that affect distribution of alien plant species in the level of plant communities, landscape and large territories. For the practical part of the work has been selected the Křivoklátsko PLA as a model area, mainly because of detailed botanical mapping. There were analysed diversity, origin and distribution of alien plant species. Also the effect of selected factors on distribution of alien plant species in the Křivoklátsko PLA were assessed. The average altitude is the strongest factor. The second strongest factor is the fraction of anthropogenic habitats and moderate factor is the habitat diversity. The length of rivers is weak predictor and the length of roads is very weak predictor of number of alien plant species.