

## **Summary**

### **The effect of tourism on phytobenthos of mountain peat bogs**

Water regime in mountain peat bogs depends above all on precipitation. In addition, peat bogs are characterised by low pH and by generally low level of nutrients. Tourists can cause destruction of flora and fauna by littering, but also by urinating and by excrements. In this diploma thesis algal flora of six mountain peat bogs in five Sudeten Mts areas (Jizerské Mts, Krušné Mts, Šumava Mts, Orlické Mts and Krkonoše Mts) were investigated. Peat bogs were mainly situated not far off access road, hence there is a presumption that locality is frequently visited by tourists. On each locality two series of samples were taken. First set of samples was taken close to wooden footway and the second was taken in central part of the peat bogs, respectively. Analyses of alpha- and beta-diversity and analyses of changes in species composition of algae and cyanobacteria were conducted with each set of samples from all localities. These analyses were aimed to find eventual differences in phytobenthos of affected and virtually tourism non-affected parts of mountain peat bogs.