

Myxomycetes in Bohemian Karst and Hřebeny Mts.

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Data on species composition and ecology of Myxomycetes are presented for three National Reserves in the Bohemian Karst and the northern part of Hřebeny Mountains.

During a period of three years, all localities were investigated intensively. In addition to field collections, bark of living trees, twigs and dead leaves were cultivated in moist chambers. Specimens from the National Museum in Prague were revised. Ninety-five species of Myxomycetes belonging to 29 genera were registered with certainty, 17 of these new to the Czech Republic. Species descriptions are provided for newly recorded species including microhabitat preferences. Differences between species diversity in the Bohemian Karst and Hřebeny Mts. are discussed as well as the seasonal dynamics of Myxomycetes in Central European conditions.

Key words: Myxomycetes, Bohemian Karst, Hřebeny Mts., Species diversity, Moist chamber culture

Dvořáková R. (2002): Hlenky (Myxomycetes) v Českém krasu a na Hřebenech. – Czech Mycol. 53: 319–349

V letech 1996–1999 probíhal průzkum myxomycetů (hlenek) v NPR Karlštejn, Koda a Radotínské údolí a v severní části Hřebenu. Vedle sběru v terénu a revize herbářových položek v Národním muzeu v Praze byla využita metoda kultivace hlenek ve vlhkých komůrkách. Je uveden přehled 95 zastoupených druhů hlenek patřících do 29 rodů spolu s popisem a podrobnějšími údaji k 17 druhům novým pro ČR. Dále jsou diskutovány rozdíly v zastoupení druhů v Českém krasu a na Hřebenech a sezónní dynamika hlenek ve středoevropských podmínkách.

INTRODUCTION

In the last 110 years little attention has been paid to Myxomycetes in the Czech Republic. Čelakovský's study on Czech Myxomycetes (Čelakovský 1890), focusing mainly on Western Bohemia, left a relatively large collection of Myxomycetes in the National Museum in Prague (PRM). This collection was further enlarged with material from Svrček (1959–1972) and Wichanský (1962–1968). Cejp (1962) reported 150 species of Myxomycetes from Western and Central Bohemia, leaving part of his material in the Herbarium of Charles University in Prague (PRC). Svrček (1972) also cultivated 12 species of Myxomycetes on bark of living trees in moist chambers. Vondrová (1991) reported 6 species from moist chamber cultures. Thus, until 1996, a total of 188 species of Myxomycetes were reported from the Czech Republic.