

Lichens of Trubínský vrch hill near Beroun (central Bohemia) and a study of *Aspicilia dominiana*

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Abstract

This diploma thesis is divided into two separate parts. The goal of the first part was to carry out a complete lichenofloristic research of Trubín hill near Beroun. There are diabasic outcrops on the south side of the hill. Due to wide spectrum of the lichen species this substrate is very interesting for the lichenologists. In total I have found 125 lichen species there. 105 lichen species grow on diabasic rocks. A considerable amount of recorded lichens is among endangered species for example *Aspicilia dominiana*, *Caloplaca conversa*, *Lichinella stipatula*, *Phaeophyscia constipata*.

The second part is focused on the taxonomic study of the *Aspicilia dominiana* and related species. *A. dominiana* is recently known only from a few diabasic localities in the Czech Republic. After revision of the herbarium material based on microscopic and chemical characteristics I have found out that the taxon *A. dominiana* is similar with the *A. intermutans*. Compliance of these taxa have been confirmed with the molecular data from the sequencing of the two genes nrITS and mTSS too. Therefore I propose to synonymize these two taxa. According to the phylogenetic tree the lichen *A. intermutans* is not closely related to any other species included in my analysis.