

Diptera in an Industrially Affected Region
(North-Western Bohemia, Bílina and Duchcov Environs), I
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Ditomyiidae

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Ditomyiidae is a small family represented by four species in Europe (CHANDLER 1998). Three species are known to occur in the Czech Republic and also Bohemia (KOŠEL & MARTINOVSKÝ 1997).

Adult Ditomyiidae are medium-sized flies with body lengths from 6-9 mm. Wings are comparatively broad, slightly smoky or patterned with dark transverse bands, membrane densely covered with macrotrichia, with R_4 conspicuously long and slightly sinuous, ending in C, and Sc reduced distally. Larvae are peripneustic with thoracic segments swollen, distinctly broader than abdomen. Larvae develop in carpophores of the order Aphyllophorales, where they pupate (LAŠTOVKA 1972, ZAITZEV 1986). Adults occur sporadically in the undergrowth of deciduous or mixed forests.

Identification of all European species of the family is possible using LANDROCK (1940). A modern monograph of the genus *Symmerus* was published by MUNROE (1974).

Distribution and occurrence of species of Ditomyiidae in the territory of Bohemia is poorly known. A finding of *Ditomyia fasciata* in South Bohemia was reported by MÁČA (1977), and that of *Symmerus annulatus* was published by CHANDLER (1995). There is no previous data on this family in the study area (Bílina and Duchcov environs).

Explanations: **D** = distribution (PA = Palaearctic, ES = Eurosiberian), **BL** = biology of larvae (My = mycetophagous, XyMy = xylomycetophagous), **L** = localities (see chapter "Diptera of the Bílina and Duchcov Environs"), **SO** = seasonal occurrence (months, as observed during this investigation), **A** = relative abundance (3 = rare species, maximum about 10 known localities; 4 = common species).

LIST OF SPECIES

<i>Ditomyia fasciata</i> (Meigen, 1818). D: PA.	<i>Symmerus annulatus</i> (Meigen, 1830). D:
BL: My. L: 1. SO: iv-vii. A: 4.	ES, BL: XyMy. L: 1, 8, 25. SO: v-viii. A: 3.

DISCUSSION

Two species of the family have been found in the study area, which represents 66.7 % of the total known Czech fauna. The findings of *S. annulatus*, together with the data published by CHANDLER (1995) are the first reliable records from Bohemia. The floodplain forest near Duchcov appears to be the most suitable habitat for this family, because both species were found there

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