

SPECIES OF THE FAMILY EMPIDIDAE (DIPTERA) OF ROKYTECKÁ, NOVOHŮRECKÁ AND ZHŮŘSKÉ PEAT-BOGS IN THE ŠUMAVA MTS (CZECH REPUBLIC)

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ABSTRACT

Barták M.: Species of the family Empididae (Diptera) of Rokytecká, Novohůrecká and Zhůřské peat-bogs in the Šumava Mts (Czech Republic)

In total, 4,588 specimens of the family Empididae representing 80 species were found by means of three collecting methods in three selected peat-bogs in the Šumava Mts (Rokytecká peat-bog, 638 specimens/48 species, Zhůřské peat-bogs, 1,134/46, and Novohůrecká peat-bog, 2816/49) situated at different altitudes (from 880 to 1,170 m a. s. l.). Three collecting methods are compared: yellow pan water traps (279 specimens/29 species), sweeping (225/21) and Malaise traps (4,084/74). Two species, viz *Rhamphomyia umbripennis* (49.93 %, a tyrphophilous species) and *R. longipes* (15.50 %, a tyrphoneutral species) were eudominant; no single species was dominant. Empidid communities in all localities are compared in terms of number of species, species richness, species diversity and species equitability indices, and coefficients of similarity.

Key words: Empididae, peat-bog, Šumava Mts, Czech Republic, collecting method, biomonitoring, community analysis, synecology, faunistics