Published December 14, 1999

Klapalekiana, **35**: 38, 1999
ISSN 1210-6100

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Ephemeroptera: Heptageniidae

Rhithrogena puytoraci Sowa, 1987. Bohemia or., Morava river, about 15 km from the source, above the mouth of the Zlatý brook (5966), 530 m alt., 20.vi.1995, 258 larvae, 5 males, 2 females, 5 subimagoes, S. Zahrádková & T. Soldán leg., det. et coll. Central European species originally described from several submontane localities in the western Alps in France known also from the Polish Carpathians, namely from the High Tatra Mts., the Gorce Mts. and the Low Beskid Mts. (Sowa, 1987). A typical submontane species occurring in larger streams and small rivers at the altitudes of about 450-750 m (missing above 700 m of altitude in the upper reaches of the Morava river). Winter species with a single generation a year (cf. Landa 1968), adults fly in May and June; very common at the locality studied. Most probably distributed at other submontane localities in the Elbe basin and Slovakia, earlier material of the *Rhithrogena semicolorata* (Curtis, 1834) species-group as defined by Sowa (1971) should be reexamined. This species is new for the Czech Republic and the Morava basin.

Rhithrogena corcontica Sowa et Soldán, 1986. Moravia sept., Moravice river about 3.8 km from the source, Karlov (5969), 845 m alt., 25.v.1993, 5 larvae, 30.v.1995, 14 larvae, S. Zahrádková leg., det. et coll. Originally regarded endemic in the Krkonoše Mts. where it lives only at a single locality (the Lysečinský brook and its tributaries, 5261) with quite different physico-chemical characteristics of water while the localities situated nearby exhibit very low pH (Sowa & Soldán 1986). The occurrence of larvae is apparently limited by a basic stream bed substratum with higher pH confined to higher content of Ca^{2+} and Mg^{2+} in water (pH 6.5-7.4 at the locality studied). Since never found at numerous localities sampled in the Carpathians (for instance, apparently missing in the Beskydy Mts.) and other Hercynian Mts. (e.g. the Šumava Mts. or the Czech-Moravian Highlands) this species seems to be endemic in the Eastern Sudete mountain system. A typical winter species with a single generation a year, adults fly in June (cf. Landa 1968). This species is new for Moravia and the Odra (Oder) basin.

LANDA V. 1968: Developmental cycles of Central European Ephemeroptera and their interrelations. *Acta Entomol. Bohemoslov.*, 65: 276-284. - SOWA R. 1971: Sur la taxonomie de Rhithrogena semicolorata (Curtis) et de quelques espèces voisines d'Europe continentale (Ephemeroptera: Heptageniidae). *Rev. Suisse Zool.*, 77: 895-920. - SOWA R. 1987: Sur quelques espèces européennes de Rhithrogena du groupe semicolorata (Ephemeroptera, Heptageniidae) des Alpes et des Carpates. *Pol. Pismo Entomol.*, 57: 475-493. - SOWA R. & SOLDÁN T. 1986: Three new species of the Rhithrogena hybrida group from Poland and Czechoslovakia with supplementary description of R. hercynia Landa, 1969 (Ephemeroptera, Heptageniidae). *Pol. Pismo Entomol.*, 56: 557-572.

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