

ROBERT ROZWĄŁKA

Department of Zoology, Maria Curie-Skłodowska University, Akademicka 19,
20-033 Lublin, Poland; e-mail: arachnologia@wp.pl

Pocadicnemis carpatica (CHYZER, 1894) (*Araneae: Linyphiidae*)
– a new species of spider to the fauna of Poland

Pocadicnemis carpatica (CHYZER, 1894) (*Araneae: Linyphiidae*) – nowy gatunek pająka
we florze Polski

SUMMARY

A single female *Pocadicnemis carpatica* (CHYZER) has been collected in The Stołowe Mountains National Park. This is the first report on this very rare Carpathian spider species in Poland. Present locality is one of the most northern findings of this spider.

STRESZCZENIE

W pracy przedstawiono informację o pierwszym stwierdzeniu na terenie Polski, bardzo rzadkiego w Europie, karpackiego gatunku pająka – *Pocadicnemis carpatica* (CHYZER). Odkryte stanowisko *P. carpatica* na terenie Parku Narodowego Gór Stołowych jest najdalej na północ wysuniętym miejscem występowania tego gatunku w obrębie jego arealu.

Keywords: *Pocadicnemis carpatica*, Poland, first record, distribution

The occurrence range for *Pocadicnemis carpatica* (Chyzer, 1894) includes Central European mountains (Nentwig et al. 2003). Until now, the spider species has been recorded only in few localities in southern Germany, Austria, Switzerland, Czech Republic, Slovakia (Blick et al. 2004, Staudt 2007), Romania (Chyzer,

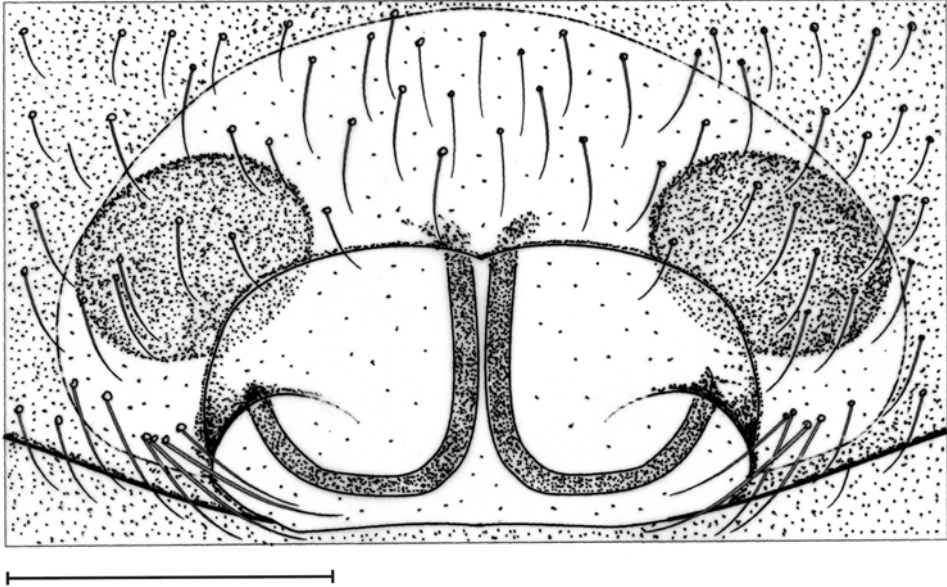


Fig. 1. Epigyne of *Pocadicnemis carpatica* (Chyzer), scale bar – 0,1 mm

Kulczyński 1894), and Slovenia (Kutner 1999). In Poland, locations of *P. carpatica* have not been recognized (Prószyński, Staręga 1971, Staręga 2004), although the species has been recorded in Bohemian (Buchar, Růžička 2002) and Slovakian (Gajdoš et al. 1999) borderlands.

In 2007, during studies upon araneofauna in the Stołowe Mountains National Park, a single female *Pocadicnemis carpatica* was found (Fig. 1). The accompanying species that were captured in the same sample were: *Robertus lividus* (Blackwall) – 1 ♀; *Bolyphantes alticeps* (Sundevall) – 3 juv.; *Ceratinella brevis* (Wider) – 2 juv.; *Diplocephalus latifrons* (O. P.-Cambridge) – 2 ♀; *Labulla thoracica* (Wider) – 1 juv.; *Macrargus rufus* (Wider) – 1 juv.; *Microneta viaria* (Blackwall) – 1 juv.; *Mughiphantes pulcher* (Kulczyński) – 2 juv.; *Tapinopa longidens* (Wider) – 8 juv.; *Metellina merianae* (Scopoli) – 1 juv.; *Trochosa terricola* Thorell – 7 juv.; *Zora spinimana* (Sundevall) – 1 juv.; *Tegenaria silvestris* L. Koch – 5 juv.; *Textrix denticulata* (Olivier) – 2 juv.; *Amaurobius fenestralis* (Ström) – 4 juv., and *Callobius claustrarius* (Hahn) – 9 juv.

According to literature data, *P. carpatica* has been found in various open biotopes situated in Central European mountains. This spider species has been most often captured on grassy meadows, woodland glades, or peats (Bauchhens 1988, Freudenthaler 1999, Löser et al. 1983, Miller 1971, Nentwig et al. 2003, Wiehle 1967), but it has been also recorded in light forests (Kutner 1999). The

sample containing *P. carpatica* from the Stołowe Mountains has been achieved as a result of sieving the grasses and mosses growing the bottoms of rocky walls forming the south-western fragment of the Narożnik Mountain (ca 780 m.a.s.l.). The rocky wall bottom has been opened and insolated afternoons, and area below the collection site has been grown by light spruce forest with grassy and berry undergrowth. Therefore, it can be considered that biotope, where *P. carpatica* occurred in the Stołowe Mountains, is very similar to those cited in literature references.

The presented record of *P. carpatica* not only enhances the list of Poland spider species by another item, but it is also one of the most northern sites for the spider occurrence (Fig. 2). At the same time, analysis of *P. carpatica* distribution in Czech Republic and Slovakia (Fig. 2) reveals that finding other locations of the species in Poland, Sudetes, and along the Carpathian Mountains is very probable.



Fig. 2. Distribution of *Pocadicnemis carpatica* (Chyzer) in Poland and northern part of the Czech and Slovak Republic

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