

Some new records and rare species for the Romanian spider fauna (Arachnida: Araneae)

István URÁK & Róbert GALLÉ

Rezumat

Specii rare și noi pentru arahnofauna României (Arachnida: Araneae)

Trichoncus hackmani MILLIDGE, 1955 și *Collinsia distincta* (SIMON 1884) sunt specii noi, iar *Collinsia* O. P.-CAMBRIDGE, 1913 este un gen nou pentru fauna României. Se confirmă prezența speciilor *Meioneta affinis* (KULCZYNSKI, 1898), *Clubiona diversa* O.P.-CAMBRIDGE, 1862, *Clubiona stagnatilis* KULCZYNSKI, 1897 și *Zelotes clivicola* (L.KOCH, 1870), care apar pe liste pe baza datelor din literatură, nefiind regăsite în colecții.

Toate aceste specii sunt rare și apar pe listele roșii ale mai multor țări din Europa.

Abstract

Trichoncus hackmani MILLIDGE, 1955 and *Collinsia distincta* (SIMON 1884) are new species, *Collinsia* O. P.-CAMBRIDGE, 1913 is a new genera for Romania. The occurrences of *Meioneta affinis* (KULCZYNSKI, 1898), *Clubiona diversa* O.P.-CAMBRIDGE, 1862, *Clubiona stagnatilis* KULCZYNSKI, 1897 and *Zelotes clivicola* (L.KOCH, 1870) are confirmed.

Key words: Romania, new records, faunistics, araneae

Introduction

In order to reach satisfactory information on biodiversity faunistical studies are essential. Although the recent taxonomic and faunistical publications significantly have contributed to the knowledge of the distribution of the Romania spider fauna (e.g. FUHN & GHERASIM 1995, FUHN & NICULESCU-BURLACU 1985, HERMAN 1879, LOKSA 1969, 1972, STERGHU 1985), it is still incomplete.

The history of arachnological survey in Romania has shown a slow, but steady progress. The last published catalogues of the Romanian spider fauna contains 973 species. Out of these, however, the occurrence of 85 species could not be confirmed, because of the absence of specimens in collections from Romania (WEISS & PETRIȘOR 1999, WEISS & URÁK 2000). Recently 6 further species were found and 3 were confirmed (FETYKO & MIHAIL 2002, GAL-LÉ & URÁK 2001, 2002, URÁK 2001).

Materials and methods

Spiders were collected using pitfall traps in

Baraolt Mountains and in the downstream of the river Mureș in 2000.

The specimens were determined using various keys (FUHN & GHERASIM 1995, FUHN & NICULESCU-BURLACU 1985, HEIMER & NENTWIG 1991, LOCKET & MILLIDGE 1951, LOKSA 1969, 1972, STERGHU 1985). The species list was ranged taxonomically according to world spider catalog of PLATNICK (2004).

Results

Two linyphids were found to be new for the Romanian fauna. The occurrences of four further species were confirmed. These latter species were included in the lists by WEISS and PETRIȘOR (1999), WEISS and URÁK (2000) on the basis of bibliographical data (FUHN & OLTEAN 1970).

The following species are new records for the Romanian fauna:

Trichoncus hackmani MILLIDGE, 1955 (Linyphiidae): in the orchard near Căpeni (1♂, 1♀) in August and in the oak-popular forest in the vicinity of Peșica (1♂) in August. This species occurs in Central and Northern Europe; it prefers tidal litter

(ROBERTS 1987), dry, sunny habitats (WIEHLE 1960), sandy and/or gravel shores (KOPONEN 1999) from April to Oktober (SAMU & SZINETÁR 2002).

Collinsia distincta (SIMON 1884) (Linyphiidae): in the bank of the river Olt, in the vicinity of Căpeni (2♂) in May. This species was formerly included in the genus *Halorates* (ROBERTS 1987). The genus *Collinsia* O.P.-CAMBRIDGE, 1913 is new for Romania, too. This palearctic spider prefers wet grasslands (HEIMER & NENTWIG 1991, ROBERTS 1987, WIEHLE 1960).

The occurrences of the following species were confirmed:

Meioneta affinis (KULCZYNSKI, 1898) (Linyphiidae): in the orchard near Căpeni (1♀) in June. This palearctic species occurs in wide range of habitats: low vegetation, grass, moss and litter (ROBERTS 1987), in peatbogs (RELYS et al. 2002).

Clubiona diversa O.P.-CAMBRIDGE, 1862 (Clubionidae): in the orchard near Căpeni (1♂) in May. This spider has a palearctic distribution. It is known from litter and ground vegetation in moist open grasslands (AAKRA & HAUGE 2000, KREULES & PLATEN 1999, ROBERTS 1985).

Clubiona stagnatilis KULCZYNSKI, 1897 (Clubionidae): in the bank of the river Olt, in the vicinity of Căpeni (2♂) in March. This palearctic spider occurs in the same types of habitats as the previous species.

Zelotes clivicola (L.KOCH, 1870) (Gnaphosidae): in pine wood (*Pinus sylvestris*, *P. nigra*), and the adjacent clear cutted area in Baraolt Mountains (Căpeni; 14♂, 6♀) in May-August. This palearctic species known from pine woods and in bogs (GRIMM, 1985, KREULES & PLATEN 1999, RELYS et al. 2002).

Conclusions

All of these species are rare in Western Europe and included in the red lists of several European countries (BALB et al. 1984, KREULES & PLATEN 1999, KRONESTEDT 2001 PLATEN et al. 1999). As the faunistic knowledge on spiders in Romania is relatively poor, further studies are needed to obtain a more complete picture on the spider fauna.

Aknowledgments

We thank to Erika BOTOS and Eva SZITA for the review of these species.

During the preparation of the article was supported by a research grant from the Hungarian Ministry of Sciences – Domus Hungarica Scientiarum and Artium.

REFERENCES

- AAKRA K., HAUGE E. 2000 Provisional list of rare and potentially threatened spiders (Arachnida: Araneae) in Norway including their proposed red list status. NINA Fagrapport 42: 1-38.
- BLAB J., NOWAK E., TRAUTMANN W., SUKOPP H. 1984. Rote Liste der gefährdeten Tiere und Pflanzen in der Bundesrepublik Deutschland. 4. erweiterte und bearbeitete Auflage. Greven (Kilda-Verlag). Naturschutz aktuell 1: 122-125.
- FETYKO K., MIHAIL G. M. 2002. Contribuții la cunoașterea arachnofaunei (Araneae) din zona Sighetu-Marmației. Studii și comunicări. 2-3. 98-101. Satu Mare.
- FUHN I. E., OLTEAN C. 1970. Lista Araneelor din R.S. Romania.
- FUHN I.E., GHERASIM V.F. 1995. Fam. Salticidae. Fauna României. Editura Academiei, București.
- FUHN I.E., NICULESCU-BURLACU F. 1985. Fam. Lycosidae. Fauna RSR. Editura Academiei, București.
- GALLÉ R., URAK I. 2001: Contribution to the spiders (Arachnida: Araneae) of upper Mures river valley with some new data for the Romanian fauna. *Entomologica romanica*, 6, 141-144.
- GALLÉ R. és URÁK I. 2002. Faunistic data on the spiders (Arachnida: Araneae) of the Nemira Mountain's bog complex with two new species for the Romanian fauna. *Entomol. rom.*, 7: 85-88.
- GRIMM U. 1985. Die Gnaphosidae Mitteleuropas (Arachnida: Araneae). Verlag Paul Parey, Berlin und Hamburg.
- HEIMER S. & NENTWIG W. 1991. Spinnen Mitteleuropas. Paul Parey Verlag, Berlin und Hamburg.
- HERMAN O. 1879. Magyarország Pók-faunája. III. A Királyi Magyar Természettudományi Társulat megbízásából. Kir. Magyar Term. tud. Társulat, Budapest.
- KOPONEN S. 2000. Spiders (Araneae) on sandy islands in the southwestern archipelago of Finland. In Gajdoš P., Pekár S. (eds): Proceedings of the 18th European Colloquium of Arachnology, Stará Lesná, 1999. *Ekológia (Bratislava)*. 19(4): 79-85.
- KREULES M., PLATEN R. 1999. Rote Liste der gefährdeten Webspinnen (Arachnida: Araneae) in Nordrhein-Westfalen mit Checkliste und Angaben zur Ökologie der Arten. Internet: www.loebf.nrw.de/static/infosysteme/roteliste/pdfs/s449.pdf
- Kronstedt T. 2001. Checklist of Spiders (Araneae) in Sweden. Internet: <http://www.nrm.se/en/spindlar.html>.
- LOKSA I. 1969. Pókok – Araneae I. Fauna Hungariae.

- Akadémia Kiadó, Budapest.
- LOKSA I. 1972. Pókok – Araneae II. Fauna Hungariae. Akadémia Kiadó, Budapest.
- MAURER R., HANGGI A. 1990. Katalog der Schweizerischen Spinnen. Documenta Faunistica Helveticae. Schweizerischer Bund für Naturschutz.
- NENTWIG W., HANGGI A., KROPF C., BLICK T. 2003. Spinnen Mitteleuropas (Bestimmungsschlüssel). Internet: <http://www.araneae.unibe.ch/>
- PLATEN R., BROEN B., HERRMANN A., RATSCHKER U.M., SACHER P. 1999. Gesamtartenliste und Rote Liste der Webspinnen, Weberknechte und Pseudoskorpione des Landes Brandenburg (Arachnida: Araneae, Opiliones, Pseudoscorpiones). *Naturschutz und Landschaftspflege in Brandenburg Heft 8*: Beilage.
- PLATNICK N.I. 2004. The world spider catalog. Last updated June 9, 2000. Internet: <http://research.amnh.org/entomology/spiders/catalog81-87/index.html>
- RELYS V., KOPONEN S., DAPKUS D. 2002. Annual differences and species turnover in peat bog spider communities. *The Journal of Arachnology*. 30: 416-424.
- ROBERTS M. I. 1985. The spiders of Great Britain and Ireland. Volume 1. Harper Collins, London.
- ROBERTS M. I. 1987. The spiders of Great Britain and Ireland. Volume 2. Harper Collins, London.
- SAMU F., SZINETÁR Cs. 2002. On the nature of agrobint spiders. *The Journal of Arachnology*. 30: 389-402.
- STERGHIU C. 1985. Fam. Clubionidae. Fauna RSR. Editura Academiei, București.
- Stud. Comun., Muz. St. Nat. Bacau: 157-196. Bacau.
- URÁK I. 2001. Contribuții la cunoașterea faunei de păianjeni (Arachnida: Araneae) din Rezervația Biosferei Parcul Național Retezat –Bul. inf. Soc. lepid. rom., **12(1-4)**: 241-250.
- WEISS I., PETRISOR A. 1999. List of the spiders (Arachnida: Araneae) from Romania. *Trav. Mus. Natl. Hist. Nat. „Grigore Antipa“*, **41**: 79-107. Bukarest
- WEISS I., URÁK I. 2000. Faunenliste der Spinnen Rumäniens (Arachnida: Araneae). Internet: <http://members.aol.com/Arachnologie/Faunenlisten.htm>
- WIEHLE H. 1960. Spinnentiere oder Arachnoidea (Araneae). XI: Micryphantidae – Zwergspinnen. Die Tierwelt Deutschlands. Veb Gustav Fischer Verlag, Jena.

Authors addresses:

<p>István URÁK RO-525103 Căpeni Kinizsi 235 Romania E-mail: kui@email.ro</p>	<p>Róbert GALLÉ University of Szeged Department of Ecology H-6722 Szeged, Egyetem u. 2. Hungary</p>
--	---

Received: 12.10.2004

Accepted: 21.11.2004

Printed: 28.12.2005