RECENT ADDITIONS TO THE GREEN LACEWING FAUNA OF ROMANIA (NEUROPTERA: CHRYSOPIDAE)

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The fauna of Romania included 25 species of green lacewings. Eight more species were recently established. The localities where they were found are given.

Key words: Neuroptera, Chrysopidae, Romania, distribution

INTRODUCTION

Thirty years ago, Kis et al. (1970) published a monograph of the Neuropteran fauna of Romania, under the authority of the Academy of Sciences of Romania. Then, it constituted a major step forward in the knowledge of lacewings and it is still a basic tool to entomologists with an interest in neuropterology. This study included 24 species of Chrysopidae. Ten years later, the fauna of Europe compiled by ASPÖCK et al. (1980) listed the same green lacewings in Romania. However, the authors only added Anisochrysa prasina (BURMEISTER, 1839) – now belonging to the genus Dichochrysa YANG, 1991 – which was considered in the previous work as a synonym of Chrysopa (Anisochrysa) ventralis CURTIS, 1834, but they did not discriminate the two species in the distribution maps.

Since 1985, the Plant Protection Research Institute (ICPP) of Bucharest oversees a programme for development of IPM in crop cultivations. A light-trapping survey of beneficial insects was undertaken in several sites across the country providing data on insect predators including chrysopids. In addition, some other specimens of green lacewing were collected in various other localities by several colleagues to whom we wish to express our grateful thanks for their participation in this survey.

Thus, eight green lacewing species were recorded as new to Romania (PAULIAN 1996, PAULIAN et al. 1996, PAULIAN & CANARD 2000, PAULIAN et al. 2001). The present contribution aims to regroup the above-mentioned results and to indicate the localities (Fig. 1) where newly recorded green lacewings were found, as an update of our knowledge of the chrysopid distribution.
COLLECTION SITES AND RECENTLY IDENTIFIED SPECIES

The specimens mentioned in this study were collected at or in the near neighbourhood of 17 locations which are from North to South and from West to East (Fig. 1) (collection sites for each species are given below in brackets):

1 – Rodna  7 – Beiuș  13 – București
2 – Beclean  8 – Crasna  14 – Troianu
3 – Groși  9 – Tîrnăveni  15 – Oltenitsa
4 – Scobîltseni  10 – Arad  16 – Mitreni
5 – Oradea  11 – Sinaia  17 – Dabuleni
6 – Huedin  12 – Uzlina

Fig. 1. Collection sites of the green lacewings recently recorded in Romania (for explanation see text)
Chrysoperla spp. The “common green lacewing” auctorum occurs in western Europe as a complex of probably five sibling species (BROOKS 2000). In the Romanian biotopes studied, we found three species (PAULIAN et al. 1996):

– a majority of Chrysoperla kolthoffi (NAVÁS, 1927) this taxon being here understood sensu LERAUT (1991) in absence of further information concerning its actual status; very common [1, 2, 3, 4, 5, 6, 8, 10, 11, 12, 13, 14, 15, 16, 17], probably everywhere;

– a smaller number of Chrysoperla lucasina (LACROIX, 1912) whose identity is now agreed (HENRY et al. 1996); common [1, 6, 7, 11, 12, 13, 14, 15, 16, 17];

– and more rarely the “true” Chrysoperla carnea (STEPHENS, 1836) sensu stricto [4, 6, 7, 9, 11, 13, 17].

Among Chrysoperla with claws having a subtriangular enlargement, we caught a specimen of Chrysoperla renoni (LACROIX, 1933) in the Danube delta [12]. This rare species was recently collected in northwestern Hungary, also in a wet habitat (SZIRÁKI 1998).

Dichochrysa prasina (BURMEISTER, 1839) occurred in many collections of green lacewings. On the contrary, D. ventralis (CURTIS, 1834) sensu stricto was uncommon, only identified in montane habitats of the Transylvanian district [11]. Consequently, all references from KIS’s monograph need to be reviewed to ascertain the actual distributions of these two species. Dichochrysa prasina is considered eurytopic whilst D. ventralis is more dependent on woodlands (PLANT 1994) or localised in higher altitude.

Dichochrysa abdominalis (BRAUER, 1856) was recently reinstated as a bona fide species by HÖLZEL (1998) although it is morphologically close to D. prasina. It is poorly known, probably rare, and seems localised in montane habitats. It was captured in montane habitats of the Transylvanian district [11].

Chrysopa dasyptera McLACHLAN, 1872 is a small Euro-Siberian species collected in the vicinity of Bucharest [13] and in the Transylvanian Alps [11]. It was recently recorded from Poland (DOBOSZ 1999). Its occurrence in Hungary previously reported by SZABÓ & SZENTKIRÁLYI (1981) however remains dubious (SZIRÁKI pers. comm.).

Chrysopa dubitans McLACHLAN, 1887 is an eurytopic species, widely distributed in the Palaearctic Region, from Spain where its occurrence remains dubious (MONSERRAT & MÁRIN 1994), Greece and Anatolia, up to Mongolia and China; it was also found in Algeria (ASPÖCK & HÖLZEL 1996). Rare, only found in the montane habitats of the Transylvanian district [11], light trapped in an open forest habitat, at 810 m of altitude.
Nineta inpunctata (Reuter, 1894) was collected in the mountains [11]. It has a Euro-Siberian distribution from West and North Europe to Ukraine. This lacewing was everywhere rarely encountered (CANARD et al. 1998).

Cunctochrysa baetica (HÖLZEL, 1972) is a holomediterranean species (ASPÖCK et al. 1980). Until recently, it has been collected in Romania only in the southern part of the Danubian Plain [15].

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REFERENCES


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