



Entomofauna

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Green Lacewings new to the fauna of Rumania (Neuroptera: Chrysopidae)

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Abstract

Three green lacewing species collected by light-trapping were new to the fauna of Rumania. Two of them: *Chrysopa dubitans* MCLACHLAN, 1887 and *Nineta inpunctata* (REUTER, 1894) occurred in a montane zone, in the Transylvanian Alps, near Sinaia. The third species: *Cunctochrysa baetica* (HÖLZEL, 1966), was recorded in the south of the Danube Plain, near Oltenitsa.

Zusammenfassung

Drei Florfliegen-Arten, *Chrysopa dubitans* MCLACHLAN, 1887, *Nineta inpunctata* (REUTER, 1894) und *Cunctochrysa baetica* (HÖLZEL, 1966) (Neuroptera, Chrysopidae), werden erstmals für die Fauna von Rumänien gemeldet, die ersten zwei aus den Transsylvanischen Alpen und die dritte aus der südlichen Donauebene.

Introduction

Since 1985, the Plant Protection Research Institute (ICPP) of Bucharest carries on a programme for development of IPM in crop cultivations. By the way, a survey of beneficial insects was undertaken in several parts of the country, by different methods. Various predators were collected, allowing to update our knowledge on the chrysopid fauna. Seven green lacewing species were thus recorded as new to Rumania; four were already mentioned in previous papers: *Chrysopa dasyptera* MCLACHLAN, 1872 (PAULIAN 1996), *Chrysoperla lucasina* (LACROIX, 1912), *Chrysoperla kolthoffi* (NAVÁS, 1927) and *Chrysoperla renoni* (LACROIX, 1933) (PAULIAN et al. 1996). The present contribution is

aimed to give the further species new to the Rumanian fauna which appeared among the specimens collected in light traps in the Transylvanian Alps and in the south of the Danube Plain.

Material and Method

The two light traps used were both powered by vapour mercury bulbs of 200 watts. One was located in an open forest biotope of the Transylvanian Alps, near Sinaia, at 930 m of altitude. The other one was located in an agroecosystem, in the Danubian Plain, near Oltenitsa.

Results and Discussion

The mountain trap gave two unexpected specimens: *Chrysopa dubitans* MCLACHLAN, 1887, one female, 7-9 July 1988 and *Nineta inpunctata* (REUTER, 1894), one male, 10-12 July 1988.

Chrysopa dubitans is a widespread Palaearctic eurytopic species; it occurs from France, Spain where it remains nevertheless dubious (MONSERRAT & MARÍN 1994), Greece and Anatolia, up to Mongolia and China; it was also found in Algeria (ASPÖCK & HÖLZEL 1996).

Nineta inpunctata is known from various countries of northern and central Europe, but seems to be missing in Mediterranean climates, like in the Iberian Peninsula and in Greece. It was previously found in the neighbouring Hungary (ÚJHELYI 1974), in the central part of Poland (CZECHOWSKA 1986), in Slovenia (DEVETAK 1984), in Ukraina (ZAKHARENKO in lit.). Its occurrence in Rumania is not thus surprising. It is probably rare, if not endangered, as it is considered everywhere (CANARD et al. 1998).

Near Oltenitsa, we caught on 1 June 1989 a male specimen of *Cunctochrysa baetica* (HÖLZEL, 1972). This small lacewing is considered holomediterranean: it was recorded on the northern bank of the Mediterranean Sea from Portugal to Croatia (ASPÖCK et al. 1980; DEVETAK 1992), in Anatolia, Morocco and Tunisia (ASPÖCK & HÖLZEL 1996). It is essentially associated with *Quercus* (MONSERRAT & MARÍN 1994) and never extends over 900 m of altitude.

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Literaturbesprechung

Symantec 1999: Norton System Works 2000 3.0 für Windows 95/98. - Symantec (Deutschland) GmbH, 1 CD-ROM, 3 Disketten, 1 Handbuch.

Diese Jahr-2000 fähige neue Version von System Works integriert die folgenden Windows-Dienstprogramme zu einem umfangreichen und wohldurchdachten Paket für den PC-Anwender:

AntiVirus schützt automatisch vor schädlichem Code aus dem Internet (z.B. ActiveX- und Java-Applets) und Viren in jeglicher Form, z.B. als Anhang von E-Mails. Es erkennt neue Viren, die nicht in der mitgelieferten Virusliste enthalten sind.

Die Utilities prüfen das System und die Festplatte und verfügen über automatisierte Reparaturmechanismen. Festplattenbeschleuniger und WipeInfo, ein Programm zur spionagesicheren Vernichtung sensibler Daten sowohl im belegten als auch freien Speicherbereich des Speichermediums runden das Spektrum ab.

CleanSweep räumt nicht nur den Datenmüll von der Festplatte, sondern bietet auch automatischen Schutz vor versehentlichem Löschen. Die meisten dieser Funktionen werden allerdings genauso gut von den Deinstallationsroutinen der meisten Anwendungsprogramme erledigt.

Der Crashgurard wacht darüber, daß die Anwender nicht mehr durch windowstypische Systemabstürze mit ihren nervigen Schutzverletzungsmeldungen in ihrem Tatendrang gehemmt werden.

Die WebServices schließlich bieten über das Internet 6 Monate kostenlosen Zugang zu den aktuellen Virendefinitionen sowie Treiber- und Softwareupdates zahlreicher Anbieter. Gegenüber der Vorgängerversion schieben sich die diversen Module nicht mehr so auffällig in den Vordergrund, sondern verrichten ihre Arbeit zumeist im Verborgenen.

M. CARL

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