

ACKNOWLEDGMENTS

The Author would like to express his gratitude to dr. Giorgio Baldizzone (Asti, Italy), dr. Paul Sammut (Rabat, Malta) and dr. Paolo Triberti (Verona, Italy) for the loan of material.

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**A host-parasite catalog of world Dryinidae
(Hymenoptera Chrysoidea): second supplement**

Abstract - This paper is a second updated supplement to the host-parasite catalog of world Dryinidae published by Guglielmino & Olmi (1997, 2006). Forty one new records of relationships between Auchenorrhyncha and Dryinidae are listed, including thirty six new relationships discovered by the authors.

Riassunto - Catalogo degli ospiti dei Dryinidae (Hymenoptera Chrysoidea): secondo supplemento.

Questo lavoro è un secondo supplemento aggiornato al catalogo degli ospiti dei Dryinidae pubblicato da Guglielmino & Olmi (1997; 2006). Vengono elencate quarantuno nuove segnalazioni di relazioni tra Auchenorrhyncha e Dryinidae, delle quali trentasei sono nuove relazioni scoperte dagli autori.

Key words: Dryinidae, Fulgoromorpha, Cicadomorpha.

INTRODUCTION

Dryinidae is a highly specialized family of Aculeata which is widely distributed in the world and includes approximately 1500 species (Olmi & Virla, 2006). At present some Dryinidae species are used in biological control programs as their hosts, Fulgoromorpha and Cicadomorpha, include many species able to cause considerable damages to their host plants.

Guglielmino & Olmi published a host-parasite catalog of world Dryinidae (1997) and a first supplement to this catalog (2006), where 767 and 157 new relationships between Auchenorrhyncha and Dryinidae were listed respectively.

Recent researches realized mainly in tropical areas permitted to discover new relationships, resulting in an updating of the above catalog.

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Accepted 10 May 2007

MATERIAL AND METHODS

For ease of use, this supplement is compiled in the same format as the 1997 and 2006 catalogs of Guglielmino & Olmi. All the papers dealing with relationships between Dryinidae and Auchenorrhyncha published after 2006 were taken into consideration, but only the quotations treating Dryinidae at species level were listed.

The classification of the Fulgoromorpha and Cicadomorpha used is based on that of Nast (1972, 1987), Asche (1985), Oman *et al.* (1990), and the suggestions of Dr M. Stiller (personal communications). The systematics at the subfamily and tribe level adopted in this paper has to be considered provisional because in some cases the position of some genera is controversial (for instance, *Exitianus* is considered belonging to Stirellini (Nast, 1972; Hoch, 2004) or Athysanini (Oman *et al.*, 1990); *Paradorydium* is considered belonging to subfamily Dorycephalinae (Nast, 1972; Hoch, 2004) or Eu-pelicinae (Oman *et al.*, 1990).

The classification of the Dryinidae is based on that of Olmi (1984; 1993; 1994; 1999). For each relationship the following data are given:

- The host Auchenorrhyncha species, and its family, subfamily and, in many cases, tribe;
- The Dryinidae species, subfamily;
- The country/ies where the parasitization was recorded.
- The author who gives the parasite record is followed by the year of publication of the paper. When the author uses old Auchenorrhyncha and/or Dryinidae names the names are given in brackets and are preceded by one asterisk (*) if referring to Auchenorrhyncha, or two asterisks (**) for the Dryinidae.
- If there is no author given the relationship is a new record discovered by the authors herein based on their research. A newly recorded relationship between the Dryinidae and Auchenorrhyncha is indicated by the symbol (!). A known relationship reported for the first time for a country is followed by the symbol (!!).

Gonatopus secundus (Fenton, 1927) is now considered a junior synonym of *Gonatopus testaceus* Cameron 1888 (Olmi, 1998). For this reason, the host record of *Acanalonia conica* (Say) in the U.S.A. attributed to *Gonatopus secundus* by Guglielmino & Olmi (1997) is here assigned to *Gonatopus testaceus*.

CATALOG

PALAEARCTIC REGION

FULGOROMORPHA

CIXIIDAE

Cixius cunicularius (L.)

Dryinus niger Kieffer (Dryininae)
- Finland (Väänänen & Vikberg: 2007 in press).

ISSIDAE

Ommatidiotus dissimilis (Fallén)

Gonatopus formiciculus (Richards) (Gonatopodinae)
- Italy (!)

TROPIDUCHIDAE

Ommatissus lybicus De Bergevin

Bocchus hyalinus Olmi (Bocchinae)
- Oman (!)

CICADOMORPHA

CICADELLIDAE

Deltocephalinae

Scaphoideini

Scaphoideus titanus Ball

Gonatopus audax (Olmi) (Gonatopodinae) (*)
- France (!)
Gonatopus clavipes (Thunberg) (Gonatopodinae)
- France (Malusa: 2004)
- Slovenia (Malusa: 2004)

(*) *Gonatopus audax* (Olmi) was reared from *S. titanus* by Dr Jean Claude Malusa (INRA, Valbonne, France) (personal communication of Dr Malusa).

AFROTROPICAL REGION

FULGOROMORPHA

DELPHACIDAE

Delphacinae

Falcotoya aglauros (Fennah)*Haplogonatopus katangae* (Benoit) (Gonatopodinae)
- South Africa (!)*Matutinus vitticollis* (Stål)*Gonatopus acutus* (Olmi) (Gonatopodinae)
- South Africa (!)*Gonatopus amoenus* Olmi (Gonatopodinae)
- South Africa (!)*Sogatella kolophon* (Kirkaldy)*Gonatopus acutus* (Olmi) (Gonatopodinae)
- South Africa (!)*Gonatopus festivus* Olmi (Gonatopodinae)
- South Africa (!)*Gonatopus similis* Brues (Gonatopodinae)
- South Africa (!)*Syndelphax nigricaudata* (Muir)*Haplogonatopus katangae* (Benoit) (Gonatopodinae)
- South Africa (!)*Syndelphax* n. sp. (Asche, in press)*Gonatopus vannoorti* Olmi (Gonatopodinae)
- South Africa (!)*Toya cereensis* (Muir)*Gonatopus acutus* (Olmi) (Gonatopodinae)
- South Africa (!)
Gonatopus amoenus Olmi (Gonatopodinae)
- South Africa (!)

CICADOMORPHA

CICADELLIDAE

AGALLIINAE

Agalliini

Austroagallia cuneata (Distant)*Gonatopus maritimus* Olmi (Gonatopodinae)
- Namibia (!)

Deltocephalinae

Athysanini

Caffrolrix cyclopia (Cogan)*Gonatopus operosus* Olmi (Gonatopodinae)
- South Africa (!)*Colistra* n. sp. (Stiller, in press)*Gonatopus maritimus* Olmi (Gonatopodinae)
- South Africa (!)*Exitianus nanus* (Distant)*Deinodryinus paulyi* (Olmi) (Anteoninae)
- Namibia (!)*Exitianus okahandia* Ross*Deinodryinus paulyi* (Olmi) (Anteoninae)
- Namibia (!)*Exitianus taeniaticeps* (Kirschbaum)*Gonatopus vulgaris* Olmi (Gonatopodinae)
- South Africa (!)

Deltocephalini

Recilia cotula (Cogan)*Gonatopus communis* Olmi (Gonatopodinae)
- South Africa (!)

Doraturini

Aconurella aethiopica (Cogan)*Gonatopus ridens* Olmi (Gonatopodinae)

- South Africa (!!)

Gonatopus vulgaris Olmi (Gonatopodinae)

- South Africa (!)

Aconurella compta (Naudé)*Deinodryinus paulyi* (Olmi) (Anteoninae)

- Namibia (!)

Gonatopus cornutus (Benoit) (Gonatopodinae)

- Namibia (!)

Gonatopus fortis Olmi (Gonatopodinae)

- Namibia (!)

Gonatopus maritimus Olmi (Gonatopodinae)

- Namibia (!)

Gonatopus ochreus (Olmi) (Gonatopodinae)

- Namibia (!)

Macrostelini

Cicadulina theroni Van Rensburg*Gonatopus afer* (Olmi) (Gonatopodinae)

- South Africa (!!)

Paralimnini

Elginus saltus (Naudé)*Gonatopus cornutus* (Benoit) (Gonatopodinae)

- South Africa (!)

Eupelicinae

Paradorydiini

Paradorydium spatulatum (Naudé)*Gonatopus karibibensis* Olmi (Gonatopodinae)

- Namibia (!)

Gonatopus nearcticus (Fenton) (Gonatopodinae)

- Namibia (!!)

ORIENTAL REGION

CICADOMORPHA

CICADELLIDAE

Deltocephalinae

Athysanini

Exitianus indicus (Distant)*Gonatopus maurus* Kieffer (Gonatopodinae)

- P. R. China (!!)

Stenometopiini

Doratulina sp.*Gonatopus schenklingi* Strand (Gonatopodinae)

- P. R. China (!!)

NEARCTIC REGION

FULGOROMORPHA

ACANALONIIDAE

Acanalonia concinnula Fowler*Dryinus alatus* (Cresson) (Dryininae)

- Mexico (!!)

Acanalonia conica (Say)*Gonatopus testaceus* Cameron (Gonatopodinae)- U.S.A. (Guglielmino & Olmi: 1997, ***Gonatopus secundus* (Fenton). Olmi: 1998,***Gonatopus testaceus* (Cameron))

NEOTROPICAL REGION

CICADOMORPHA

CICADELLIDAE

Deltcephalinae

Balcluthini

Balclutha incisa (Matsumura)***Anteon micros*** Olmi (Anteoninae)

- Mexico (!)

Gonatopus breviforceps Kieffer (Gonatopodinae)

- Mexico (!)

Deltcephalini

Planicephalus flavicosta (Stål)***Gonatopus caraibicus*** (Olmi) (Gonatopodinae)

- Argentina (Virla: 2000)

FULGOROMORPHA

DELPHACIDAE

Delphacinae

Sogatella kolophon (Kirkaldy)***Gonatopus concinnus*** Olmi & Virla (Gonatopodinae)

- Mexico (!)

ACKNOWLEDGMENTS

For the identification of some Auchenorrhyncha species, the authors are indebted to Dr M. Asche (Museum für Naturkunde, Berlin, Germany), Dr C. Dietrich (Illinois Natural History Survey, Center for Biodiversity, Champaign, Illinois, U.S.A.), Dr M. Stiller (ARC-Plant Protection Research Institute, Pretoria, South Africa), Dr V.M. Gnezdilov (Zoological Institute, Russian Academy of Science, St. Petersburg, Russia). Special thanks also to Dr A. Polaszek (The Natural History Museum, London, United Kingdom) for sending material of *Ommatissus lybicus* De Bergevin, Dr Jean Claude Malausa (INRA, Valbonne, France) for sending material reared from *Scaphoideus titanus* Ball and Mr Simo Väänänen (Vantaa, Finland) for sending pictures of *Cixius cunicularius* (L.) parasitized by *Dryinus niger* Kieffer.

This study was supported by a grant of the University of Tuscia (funds named "ex 60%").

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Accepted 10 May 2007