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An updated host-parasite catalogue of world Dryinidae (Hymenoptera: Chrysidoidea)

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Abstract

An updated host-parasite catalogue of world Dryinidae is presented. The catalogue presents 1014 relationships between dryinids and their hosts checked in 84 countries of the world, including 38 new records.

Key words: Hemiptera, Auchenorrhyncha, Cicadomorpha, Fulgoromorpha, parasitoids, relationships, index

Introduction

Auchenorrhyncha include taxa such as leafhoppers, planthoppers and treehoppers that are important pests of cultivated and forest plants. They are often controlled by chemicals, resulting in some cases in environmental problems. The modern necessity to limit the use of chemicals to protect the environment and avoid damages to the health leads to enhance the value of the natural enemies of plant pests.

Together with oophagous parasitoids, Twisted-Wing parasites (Strepsiptera), Big-Headed Flies (Diptera: Pipunculidae) and other organisms of minor importance, Dryinidae (Hymenoptera: Chrysidoidea) are very effective natural enemies (Olmi 1999a, 2000). They are parasitoids and often also predators of Auchenorrhyncha (except for Cicadoidea and Cercopoidea) to which they are strictly related. The example of *Gonatopus flavifemur* (Esaki & Hashimoto, 1932) is useful to emphasize the role and importance of dryinids in the biological balances: the female can parasitize during its life (lasting about 19 days) more than 400 host individuals and prey about 50 (Chua & Dyck 1982; Sahragard *et al.* 1991). Dryinids are not monospecific parasitoids. On the contrary they may parasitize many host species belonging to different genera, in some cases also to different families. Records of monospecific parasitization seem to be only the result of insufficient research.

The importance of Dryinidae was recognized for long time, resulting however in few biological control programmes:

1. Hawaii (1906-07), control of the Sugarcane Planthopper, *Perkinsiella saccharicida* Kirkaldy, 1903: introduction of *Pseudogonatopus hospes* R. Perkins, 1912 (now junior synonym of *Gonatopus nigricans* (R. Perkins, 1905)) from China, and *Haplogonatopus vitiensis* R. Perkins, 1906a, from the Fiji Islands (Swezey 1928; F. Williams 1931).

2. New Zealand (1935), control of the Froggatt's Apple Leafhopper, *Typhlocyba froggatti* Baker, 1925 (now junior synonym of *Edwardsiana crataegi* (Douglas, 1876)): introduction of *Aphelopus typhlocybae* Muesebeck, 1935 (now junior synonym of *Aphelopus albopictus* Ashmead, 1893) from the USA (Dumbleton, 1937; Charles 1989).

3. Italy (1994), control of the Flatid Planthopper, *Metcalfa pruinosa* (Say, 1830): introduction of *Neodryinus typhlocybae* (Ashmead, 1893) (Girolami & Camporese 1994, Olmi 1999b). This project is continuing still in other European countries.

4. Colombia, Costa Rica, Cuba (from 1999), control of the Rice Delphacid, *Tagosodes orizicolus* (Muir, 1926): introduction of *Haplogonatopus hernandezae* Olmi, 1984, in rice fields (Mora-Kepfer & Espinoza 2009).

Further biological control projects were and are studied in many world countries against a lot of leafhoppers and planthoppers. However, in spite of the recognized efficiency of dryinids (Olmi 1999a, 1999b, 2000), these projects were not or only partly realized, mainly because of the lack of basic knowledge on the biology and hosts of dryinids. For example, when French researchers decided to study the possibility of biological control by dryinids of the Vine Leafhopper *Scaphoideus titanus* Ball, 1932, they did not find any information in the literature (Malausa 2004; Malausa *et al.* 2003). No dryinid species parasitoids of *S. titanus* were known. A long period of research in the USA was necessary to fill the gap, followed by a long study on the biology of dryinid species to check if they were suitable to be introduced in Europe. In conclusion the main problem affecting the possibility to realize more biological control programmes is the lack of basic knowledge.

Data on dryinid hosts are scattered in tens of papers making difficult to obtain the information. Besides, in the last six years 38 new additional and not published records of relationships between Auchenorrhyncha and Dryinidae were discovered by the authors. For this reason, Guglielmino and Olmi's papers (1997, 2006, 2007) on dryinid hosts are now out-of-date, also because in the last years the systematics and nomenclature of both Dryinidae and Auchenorrhyncha has changed a lot, making necessary a new updated catalogue.

Material and methods

To compile this catalogue both bibliographic and original data were taken into consideration. The original data are, above all, the outcome of the authors' Dryinidae rearings and identifications of specimens reared by others and sent to the authors for their determination.

From a bibliographic point of view, the basic reference work is the catalogue of Guglielmino and Olmi (1997), with its supplements (Guglielmino & Olmi 2006, 2007). About dryinids, the revision of world Dryinidae of one of the authors (Olmi 1984), in addition to many more recent papers, provided a basic knowledge. A great part of the past citations of Dryinidae hosts are included in these papers and the value of the relationships with their hosts is re-appraised. Unfortunately, in the above papers there is a critical revision of the host citations, but based on old systematics and nomenclature. Therefore, we thought it best to solve this problem by updating the old host citations according to the classification of these insects now used by specialists. So this catalogue is a mixture of updated data regarding not only the Dryinidae but also their hosts, satisfying the needs of the users who want to review the situation or desire a modern reference text even for biological control programmes. In particular, two of the authors (Guglielmino and Bückle) treated the Auchenorrhyncha and the other (Olmi) treated the Dryinidae.

Besides Guglielmino and Olmi's catalogues (1997, 2006, 2007) and Olmi's work (1984, in addition to more recent papers), all the past publications regarding relationships between the Dryinidae and their hosts were taken into consideration. The following data were considered: new relationships, rearings and bioecological data useful for biological control, consequences of the Dryinidae parasitization on their hosts. Only the citations in which the Dryinidae were reported at species level were listed.

The systematic arrangement adopted for the Auchenorrhyncha in this catalogue is based on that of Metcalf (General Catalogue of the Homoptera) (1936–1968) and Nast (1972, 1987), corrected for the Fulgoromorpha according to Fennah (1982), Holzinger *et al.* (2003), Hoch (2004), Bartlett (2005) and Bourgoin (2013) and for the Cicadellidae according to Oman *et al.* (1990), Dmitriev (2003a, 2003b), Takiya and Dmitriev (2004), Zahniser (2006), and Zahniser and Dietrich (2013). It can be found in the chapter entitled "Classification".

The systematic arrangement adopted for the Dryinidae is based on that of Olmi (1984, 1993b, 1994a, 1999b) and Xu *et al.* (2013). It can be found in the chapter entitled "Classification". The identification of most of the Dryinidae species included in the catalogue was made by one of the authors (Olmi), both from his own rearings and by controlling the old collections left by past authors. This last work was precious since it allowed for the correction of the old citations based on erroneous or obsolete determinations.

The Auchenorrhyncha hosts have been subdivided into two infraorders (Fulgoromorpha and Cicadomorpha) and in each infraorder into families, subfamilies, tribes, genera and species arranged in alphabetical order. For each host taxon (genus or species; the host citations referring to family, subfamily or tribe have not been taken into account; the dubious taxa are placed between quotes: "..."), the following data have been indicated in this order:

—the present name of the Dryinid species and the corresponding subfamily. It must be emphasized that only the Dryinidae parasitization records are taken into consideration in the catalogue (most of the Dryinidae females

are also Auchenorrhyncha predators; predation does not occur only in a few groups (Olmi 1994a, 1999b)); exceptions are some cases of Dryinidae predation in laboratory regarding host species belonging to groups that are not, in a natural environment, parasitized by those Dryinidae or regarding Auchenorrhyncha that could be hosts/prey of some Dryinidae species, but whose parasitization has not yet been verified in a natural environment.

—the country which the dryinid parasitization was recorded in; wherever the country citation may be dubious or erroneous, the terms "dubious record" or "erroneous record" follow the name of the country. Regarding the dryinid catalogue of the European region of the former USSR (Ponomarenko 1978), the data concerning the rearings of Ponomarenko herself, inferred from the context or from previous works of the same author, are referred now and then to various countries now independent of the USSR; in other cases the data are omitted because they clearly do not refer to the USSR but to other European countries based on the citations of other authors. When in doubt, "USSR" or "Russia" are indicated to underline the impossibility, lacking the author's clarity, of referring to rearings of Ponomarenko in the USSR or to authors in other countries. About the monograph of Chinese Dryinidae by He & Xu (2002), the authors never reared dryinids in China, so that all their host records are taken from papers of other authors. Unluckily, their host records are not followed by the country where the relationships was checked, so that it is not always clear if the authors quote host records referred to China or other countries. For this reason, in some cases P.R. China is followed by the term "dubious record". In few cases, the term "erroneous record" is used for explaining that the relationships is surely wrong.

—the author who cites the case of parasitization, followed by the year of publication of the paper. In the case in which the author, in his paper, indicates Auchenorrhyncha or Dryinidae taxa names different from those now used in the catalogue, even the old names are stated, preceded by one asterisk (*) when referring to Auchenorrhyncha, or two asterisks (**) for the Dryinidae. These old citations are stated as they appear in the publication, so at times they even lack the author's name of the taxon description. Sometimes the old name comes from a determination that the authors judged erroneous (because the material was checked by the authors or because the determination was erroneous based on the existing literature) and therefore the term "misid." precedes it. If, instead, the taxon identification was not checked by the authors, since the original material was not found, but still seems dubious, then the taxon name is placed between quotes: "...". Finally, if a taxon name comes from a noticeable printing error, then it is accompanied by the term "print error", followed by a brief explanation on the origin of this error.

—if there is no name of the author who cites the parasitization of an Auchenorrhyncha species by a dryinid, this means that there is a new record, made by the authors of this catalogue and based on their research. A new relationship between the Dryinidae and Auchenorrhyncha is indicated by the symbol (!); a new record for the country where the case of parasitization was discovered for the first time is followed by the symbol (!!).

In the chapter entitled "Addenda", Olmi's record of 1984 (Olmi 1984) regarding "*Deltocephalus pascuorum*" is included. It deals with a nonexistent taxon whose record is attributed to Haupt, who wrote this name on the label of a specimen present in his collection. It may refer to *Arthaldeus pascuellus* (Fallén).

Classification

1) Systematic arrangement adopted for the Hemiptera Auchenorrhyncha listed in this catalogue (for the principle of coordination (Art. 36 ICZN), the author of the family is also author of the subfamily and tribe whose name derives from the family name):

Infraorder **FULGOROMORPHA** Evans

Family ACANALONIIDAE Amyot & Serville

Subfamily ACANALONIIDAE Amyot & Serville

Acanalonia Spinola

Family CALISCELIDAE Amyot & Serville

Subfamily CALISCELINAE Amyot & Serville

Bruchomorpha Newman

Caliscelis De Laporte

Homocnemis A. Costa

Peltonotellus Puton

Subfamily OMMATIDIOTINAE Fieber

Ommatidiotus Spinola

Family CIXIIDAE Spinola

Subfamily CIXIINAE Spinola

Cixius Latreille

Eumecurus Emeljanov

Tachycixius Wagner

Family DELPHACIDAE Leach

Subfamily DELPHACINAE Leach

Aloha Kirkaldy

Anchidelphax Fennah

Bostaera Ball
Calligypona J. Sahlberg
Chionomus Fennah
Chloriona Fieber
Criomorphus Curtis
Delphacinus Fieber
Delphacodes Fieber
Dicranotropis Fieber
Ditropis Kirschbaum
Emoloana Asche
Eurysula Vilbaste
Falcotoya Fennah
Flastena Nast
Gravesteiniella Wagner
Hosunka Matsumura
Hyledelphax Vilbaste
Javesella Fennah
Kosswigianella Wagner
Laodelphax Fennah
"Liburnia" Stål
Liburniella Crawford
Matutinus Distant
Megadelphax Wagner
Megamelus Fieber
Metadelphax Wagner
Muellerianella Wagner
Muirodelphax Wagner
Nesosydne Kirkaldy
Nilaparvata Distant
Numata Matsumura
Nycheuma Fennah
Peregrinus Kirkaldy
Perkinsiella Kirkaldy
Phrictopyga Caldwell
Ribautodelphax Wagner
Saccharosydne Kirkaldy
Sardia Melichar
Scottianella Anufriev
Sogata Distant
Sogatella Fennah
Stiroma Fieber
Stobaera Stål
Struebingianella Wagner
Sulix Fennah
Syndelphax Fennah
Tagosodes Asche & Wilson
Tarophagus Zimmerman
Toya Distant
Unkanodes Fennah
Xanthodelphax Wagner
Subfamily KELISHINAE Wagner
Kelisia Fieber
Subfamily STENOCRANINAE Wagner
Stenocranus Fieber
Family DICTYOPHARIDAE Spinola
Subfamily DICTYOPHARINAE Spinola
Dictyophara Germar
Dorimargus Melichar
Eudictya Melichar
Hasta Melichar

Philotheria Melichar
Phylloscelis Germar
Thanatodictya Kirkaldy
Family FLATIDAE Spinola
Subfamily FLATINAE Spinola
Anormenis Melichar
Colgar Kirkaldy
Colgaroides Distant
Cyarda Walker
Cyphopterum Melichar
Flatida White
Flatormenis Melichar
Geisha Kirkaldy
Lawana Distant
Massila Walker
Metcalfa Cadwell & Martorell
Mistharnophantia Kirkaldy
Ormenaria Metcalf & Bruner
Ormenis Stål
Paranotus Karsch
Paroxychara Lallemand & Synave
Phantiopsis Melichar
Poekilloptera Latreille
Sephena Melichar
Siphanta Stål
Family FULGORIDAE Latreille
Subfamily APHAENINAE Blanchard
Lycorma Stål
Subfamily ZANNINAE Metcalf
Zanna Kirkaldy
Family ISSIDAE Spinola
Subfamily ISSINAE Spinola
Agalmatium Emeljanov
Hysteropterum Amyot & Serville
Issus Fabricius
Latematium Dlabola
Latissus Dlabola
Scorlupaster Emeljanov
Sivaloka Distant
Tshurtshurnella Kusnezov
Family LOPHOPIDAE Stål
Subfamily LOPHOPINAE Stål
Elasmoscelis Spinola
Pyrilla Stål
Family MEENOPLIDAE Fieber
Subfamily KERMESINAE Kirkaldy
Nisia Melichar
Family RICANIIDAE Amyot & Serville
Privesa Stål
Ricania Germar
Scolypopa Stål
Family TROPIDUCHIDAE Stål
Tribe Catulliini Melichar
Numicia Stål
Tribe Gaetuliini Fennah
Gaetulia Stål
Tribe Tambiniini Kirkaldy
Kallitaxila Kirkaldy
Tambinia Stål
Tribe Tropiduchini Stål

Vanua Kirkaldy
 Tribe Trypetimorphini Melichar
Ommatissus Fieber

 Infraorder **CICADOMORPHA** Evans
 Family CICADELLIDAE Latreille
 Subfamily APHRODINAE Haupt
 Tribe Aphrodini Haupt
Aphrodes Curtis
 Subfamily CICADELLINAE Latreille
 Tribe Cicadellini Latreille
Plesiommata Provancher
Xyphon Hamilton
 Subfamily COELIDIINAE Dohrn
 Tribe Coelidiini Dohrn
Coelidia Germar
 Subfamily DELTOCEPHALINAE Dallas
 Tribe Athysanini Van Duzee
Arawa Knight
Artianus Ribaut
Atanus Oman
Athysanus Burmeister
Brachypterona Lindberg
Condylotes Emeljanov
Conosanus Osborn & Ball
Euleimonios Kirkaldy
Euscelidius Ribaut
Euscelis Brullé
"Eutettix" Van Duzee
Graphocraerus Thomson
Hardya Edwards
Laburrus Ribaut
Streptanus Ribaut
Thamnotettix Zetterstedt
 Tribe Bonaspeiini
Bonaspeia Linnavuori
Caffrolix Linnavuori
Colistra Davies
 Tribe Chiasmini Distant
Aconurella Ribaut
Chiasmus Mulsant & Rey
Doratura Sahlberg
Exitianus Ball
Nephotettix Matsumura
 Tribe Cicadulini Van Duzee
Cicadula Zetterstedt
Elymana DeLong
Mocydia Edwards
Rhopalopyx Ribaut
 Tribe Deltocephalini Dallas
Amblysellus Slesman
Amplicephalus DeLong
Deltocephalus Burmeister
Endria Oman
Graminella DeLong
Haldorus Oman
Maestas Distant
Mendozellus Linnavuori
Planicephalus Linnavuori
Polyamia DeLong
Recilia Edwards

Tribe Drabescini Ishihara
Drabescus Stål
 Tribe Eupelicini Sahlberg
Paradorydium Kirkaldy
 Tribe Faltalini Zahniser & Dietrich
Faltala Oman
 Tribe Hecalini Distant
Hecalus Stål
Spangbergiella Signoret
 Tribe Koebeliini Baker
Grypotes Fieber
 Tribe Macrostelini Kirkaldy
Balclutha Kirkaldy
Cicadulina China
Dalbulus DeLong
Macrosteles Fieber
 Tribe Opsiini Emeljanov
Hishimonus Ishihara
Lycioides Oman
Neocaliturus Distant
Opsius Fieber
 Tribe Paralimnini Distant
Adarrus Ribaut
Agudus Oman
Araldus Ribaut
Arocephalus Ribaut
Arthaldeus Ribaut
Diplocolenus Ribaut
Elginus Theron
Enantiocephalus Haupt
Errastunus Ribaut
Flexamia DeLong
Goldeus Ribaut
Henschia Lethierry
Jassargus Zachvatkin
Latalus DeLong & Slesman
Nicolaus Lindberg
Paramesus Fieber
Platentomus Theron
Psammotettix Haupt
Sorhoanus Ribaut
Verdanus Oman
 Tribe Pendarini Dmitriev
Chlorotettix Van Duzee
Paraphlepsius Baker
 Tribe Scaphoideini Oman
Osbornellus Ball
Scaphoideus Uhler
 Tribe Stenometopiini Baker
Anacomura Emeljanov
Doratulina Melichar
Stirellus Osborn & Ball
 Subfamily EURYMELINAE Amyot & Serville
 Tribe Eurymelini Amyot & Serville
Ipo Kirkaldy
 Tribe Idiocerini Baker
Acericerus Dlabola
Amritodus Dlabola
Idiocerus Lewis
Idioscopus Baker
Metidiocerus Ossiannilsson

Populicerus Dlabola
Rhytidodus Fieber
Tremulicerus Dlabola
 Subfamily IASSINAE Walker
 Tribe Iassini Walker
 Batracomorphus Lewis
 Iassomorphus Theron
 Iassus Fabricius
 Tribe Scarini Stål
 Curtara DeLong & Freytag
 Subfamily LEDRINAE Fairmaire
 Tribe Ledrini Fairmaire
 Ledra Fabricius
 Petalcephala Fieber
 Tribe Xerophloeini Oman
 Xerophloea Germar
 Subfamily MACROPSINAE Evans
 Macropsis Lewis
 Oncopsis Burmeister
 Subfamily MEGOPHTHALMINAE Kirkaldy
 Tribe Agalliini Kirkaldy
 Agallia Curtis
 Agalliana Oman
 Agalliopsis Kirkaldy,
 Anaceratagallia Zachvatkin
 Austroagallia Evans
 Ceratagallia Kirkaldy
 Subfamily TARTESSINAE Distant
 Tribe Stenocotini Kirkaldy
 Stenocotis Stål
 Tribe Tartessini Distant
 Brunotartessus Evans
 Tartessus Stål
 Subfamily TYPHLOCYBINAE Kirschbaum
 Tribe Alebrini McAtee
 Alebra Fieber

Tribe Dikraneurini McAtee
 Dikraneura Hardy
 Forcipata DeLong & Caldwell
 Tribe Empoascini Distant
 Chlorita Fieber
 Empoasca Walsh
 Jacobiasca Dworakowska
 Jacobiella Dworakowska
 Kybos Fieber
 Tribe Erythroneurini Young
 Alnetoidia Dlabola
 Arboridia Zachvatkin
 Empoascanara Distant
 Erasmoneura Young
 Erythroneura Fitch
 Hymetta McAtee
 Molopopterus Jacobi
 Thaia Ghauri
 Zygina Fieber
 Tribe Typhlocybini Kirschbaum
 Aguriahana Distant
 Edwardsiana Zachvatkin
 Eupterycyba Dlabola
 Eupteryx Curtis
 Eurhadina Haupt
 Fagocyba Dlabola
 Lindbergina Dlabola
 Linnavuoriana Dlabola
 Ossiannilssonola Christian
 Ribautiana Zachvatkin
 Typhlocyba Germar
 Zonocyba Vilbaste
 Family MEMBRACIDAE Rafinesque
 Thelia Amyot & Serville
 Umbonia Burmeister

2) Systematic arrangement adopted for the Hymenoptera Dryinidae listed in this catalogue:

Subfamily APHELOPINAE R. Perkins
 Aphelopus Dalman
 Crovettia Olmi
 Subfamily ANTEONINAE R. Perkins
 Anteon Jurine
 Deinodryinus R. Perkins
 Lonchodryinus Kieffer
 Subfamily BOCCHINAE Richards
 Bocchus Ashmead
 Mirodryinus Ponomarenko
 Mystrophorus Förster

Subfamily DRYININAE Haliday
 Dryinus Latreille
 Megadryinus Richards
 Thaumatodryinus R. Perkins
 Subfamily GONATOPODINAE Kieffer
 Echthrodelpfax R. Perkins
 Esagonatopus Olmi
 Gonatopus Ljungh
 Haplogonatopus R. Perkins
 Neodryinus R. Perkins

Catalogue

FULGOROMORPHA

ACANALONIIDAE

Acanaloniinae

Acanalonia bivittata (Say)

Dryinus alatus (Cresson) (Dryininae)

—USA (**R.C.L. Perkins**: 1907, **Amphiscepa bivittata*, ***Hesperodryinus amphiscepa* Perkins. **Olmi**: 1984, **Acanalonia* (= *Amphiscepa*) *bivittata* (Say))

Dryinus amoenus (Perkins) (Dryininae)

—USA (**R.C.L. Perkins**: 1907, **Amphiscepa bivittata*, ***Perodryinus amoenus* Perkins. **Olmi**: 1984, **Acanalonia* (= *Amphiscepa*) *bivittata* (Say), ***P. amoenus* Perkins)

Acanalonia concinnula Fowler

Dryinus alatus (Cresson) (Dryininae)

—Mexico (**Guglielmino & Olmi**: 2007)

Acanalonia conica (Say)

Dryinus crawfordi (Krombein) (Dryininae)

—USA (**Guglielmino & Olmi**: 2006)

Gonatopus testaceus Cameron (Gonatopodinae)

—USA (**Olmi**: 1984, ***Apterodryinus secundus* (Fenton). **Guglielmino & Olmi**: 1997, ***Gonatopus secundus* (Fenton)

Acanalonia immaculata (Kirkaldy)

Gonatopus torvus (Perkins) (Gonatopodinae)

—USA (**R.C.L. Perkins**: 1907, **Amphiscepa immaculata*, ***Apterodryinus torvus* Perkins. **Olmi**: 1984, **A. immaculata*, ***A. torvus* Perkins)

CALISCELIDAE

Caliscelinae

Bruchomorpha oculata Newman

Bocchus mirabilis (Perkins) (Bocchinae)

—USA (**Fenton**: 1918a, 1918b, **Bruchomorpha oculatus*, ***Phorbas mirabilis* (Perkins). **Olmi**: 1984)

Bruchomorpha sp.

Bocchus arizonicus (Perkins) (Bocchinae)

—USA (**R.C.L. Perkins**: 1907, ***Eukoebeleia arizonica* Perkins. **Fenton**: 1918a, 1918b, ***Phorbas arizonica* (Perkins). **Olmi**: 1984)

Bocchus mirabilis (Perkins) (Bocchinae)

—USA (**R.C.L. Perkins**: 1906b, ***Eukoebeleia mirabilis* Perkins)

Caliscelis bonellii (Latreille)

Bocchus europaeus (Bernard) (Bocchinae)

—France (**Guglielmino & Olmi**: 1997)

Gonatopus dromedarius (A. Costa) (Gonatopodinae)

—Italy (**Olmi**: 1996a)

Caliscelis sp.

Bocchus europaeus (Bernard) (Bocchinae)

—France (**Abdul-Nour**: 1976, ***Bocchus europaea* Bernard. **Olmi**: 1984. **Waloff & Jervis**: 1987)

Gonatopus acutus (Olmi) (Gonatopodinae)

—Mozambique (**Olmi**: 2004a)

Gonatopus ceres (Olmi) (Gonatopodinae)

—Mozambique (**Olmi**: 2004a)

Homocnemia albobittata A. Costa

Bocchus paglianoi Olmi (Bocchinae)

—Italy (**Olmi**: 1993a)

Gonatopus dromedarius (A. Costa) (Gonatopodinae)

—Italy (**Olmi**: 1996a)

Peltonotellus raniformis Mulsant & Rey

Bocchus italicus Olmi (Bocchinae)

—France (**Guglielmino & Olmi**: 1997, **Aphelonema raniformis* (Mulsant & Rey))

Ommatidiotinae

Ommatidiotus dissimilis (Fallén)

Bocchus vernieri Olmi (Bocchinae)

—Switzerland (**Olmi**: 1995c)

Gonatopus formicicolus (Richards) (Gonatopodinae)

—Italy (**Guglielmino & Olmi**: 2007)

Ommatidiotus inconspicuus Stål

Bocchus lautereri Olmi (Bocchinae)

—Hungary (**Olmi**: 1998a)

Bocchus slovacus Strejcek (Bocchinae)

—Hungary (from adults: **Olmi**: 1999)

Gonatopus lunatus Klug (Gonatopodinae)

—Hungary (**Guglielmino & Olmi**: 2006) (this is the only case of parasitization of a host not belonging to Cicadellidae by *Gonatopus lunatus*; it was reared from six very young nymphs)

CIXIIDAE

Cixiinae

Cixius cunicularius (Linnaeus)

Dryinus niger Kieffer (Dryininae)

—Finland (**Väänänen & Vikberg**: 2007)

Cixius nervosus (Linnaeus)

Dryinus collaris (Linnaeus) (Dryininae)

—France (**Maneval**: 1935, ***Lestodryinus formicarius* Latr.. **Olmi**: 1984. **Waloff & Jervis**: 1987)

—Poland (Germany in **Haupt**: 1932, ***Dryinus formicarius* Latr.) (this record was attributed to Germany also by **Olmi**: 1984 and **Waloff & Jervis**: 1987, but Haupt's record was from Bellinchen (= Bielinek), which is now in Poland)

"*Cixius stigmaticus*" (Germar)

Dryinus collaris (Linnaeus) (Dryininae)

—Great Britain (**Capron:** 1885, **Cixius contaminatus* Fl.. **Olmi:** 1984, **C. contaminatus* Fl.. **Waloff & Jervis:** 1987, **C. contaminatus* Fl.)

Eumecurus hottentottus (Stål)

Gonatopus ceres (Olmi) (Gonatopodinae)

—Mozambique (**Olmi:** 2004a)

Tachycixius pilosus (Olivier)

Dryinus collaris (Linnaeus) (Dryininae)

—Germany (**Waloff & Jervis:** 1987)

—"Europe" (**Thompson:** 1955, **Cixius pilosus* Ol., ***Lestodryinus formicarius* Latr.. **Olmi:** 1984)

DELPHACIDAE

Delphacinae

Aloha ipomoeae Kirkaldy

Echthrodelpfax fairchildii Perkins (Gonatopodinae)

—Hawaii (**R.C.L. Perkins:** 1906b. **Olmi:** 1984)

Anchidelpfax albidens (Crawford)

Gonatopus vignai Olmi (Gonatopodinae)

—Ecuador (**Guglielmino & Olmi:** 1997)

Bostaera nasuta Ball

Gonatopus synchronus (Perkins) (Gonatopodinae)

—USA (**R.C.L. Perkins:** 1907, **Cochise apacheanus*, ***Agonatopoides synchronus* Perkins.

Thompson: 1955, ***A. synchronus* Perkins. **Olmi:** 1984, **Bostaera* (= *Cochise*) *apacheanus* Kirk. and **Bostaera nasuta* Ball, ***A. synchronus* Perkins)

Calligypona sp.

Gonatopus cobbeni (Olmi) (Gonatopodinae)

—Dutch Antilles (**Olmi:** 1987d, **Callygipona* sp., ***Pseudogonatopus cobbeni* Olmi)

Chionomus haywardi (Muir)

Gonatopus chilensis (Olmi) (Gonatopodinae)

—Argentina (**De Santis & Virla:** 1991, **Delphacodes haywardi* Muir, **misid. *Pseudogonatopus flavus* Olmi. **Olmi & Virla:** 1993, **D. haywardi* Muir, ***Pseudogonatopus chilensis* Olmi. **Virla:** 1995, **D. haywardi* Muir, ***P. chilensis* Olmi; 2000a, **D. haywardi* Muir. **Guglielmino & Olmi:** 1997, **D. haywardi* Muir)

Haplogonatopus hernandezae Olmi (Gonatopodinae)

—Argentina (**Guglielmino & Olmi:** 1997, **Delphacodes haywardi* Muir. **Virla & Olmi:** 1998a, 1998b, **D. haywardi* Muir)

Chloriona unicolor (Herrich-Schäffer)

Echthrodelpfax italicus Olmi (Gonatopodinae)

—Algeria (**Guglielmino & Olmi:** 1997)

Criomorphus albomarginatus Curtis

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Finland (**Raatikainen:** 1967, ***Dicondylus lindbergi* Heik.. **Olmi:** 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis:** 1987, ***D. bicolor* (Haliday))

—Great Britain (**Richards:** 1939, ***Dicondylus bicolor* (Haliday) and **male species 4. **Waloff:** 1975, ***D. bicolor* (Haliday). **Olmi:** 1984, ***D. bicolor* (Haliday). **Waloff & Jervis:** 1987, ***D. bicolor* (Haliday))
—"Russia" (**Ponomarenko:** 1978, ***Dicondylus bicolor* Haliday) (it is not clear if the Ponomarenko record is related to Russia or to West Europe after Richards, 1939)

***Criomorphus* sp.**

Gonatopus distinctus Kieffer (Gonatopodinae)
—Great Britain (**Richards:** 1939, **male species 3)

Delphacinus mesomelas (Boheman)

Gonatopus bicolor (Haliday) (Gonatopodinae)
—Netherlands (**Olmi:** 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis:** 1987, ***D. bicolor* (Haliday))

Delphacodes* near *albinotata Crawford (female)

Gonatopus chilensis (Olmi) (Gonatopodinae)
—Ecuador (**Guglielmino & Olmi:** 1997, **misid. *Gonatopus flavoides* Olmi)

Delphacodes campestris (Van Duzee)

Gonatopus americae Olmi (Gonatopodinae)
—USA (**Swezey:** 1904, **Liburnia campestris*, **misid. *Gonatopus bicolor* Ashmead. **Fenton:** 1918b, **L. campestris*, ***Haplogonatopus americanus* Perkins. **Thompson:** 1955, **Delphacodes campestris* Van Duzee, ***H. americanus* Perkins. **Olmi:** 1984, ***Dicondylus americanus* (Perkins)). **Giri et al.:** 1985, ***D. americanus* (Perkins). **Giri & Freytag:** 1988, ***D. americanus* (Perkins))

Delphacodes kuscheli Fennah

Gonatopus bonaerensis Virla (Gonatopodinae)
—Argentina (**Virla:** 2004)
Gonatopus chilensis (Olmi) (Gonatopodinae)
—Argentina (**Olmi & Virla:** 1993, ***Pseudogonatopus chilensis* Olmi; 1998b. **Virla:** 1995, ***P. chilensis* Olmi; 2000a)
Gonatopus lautii Virla (Gonatopodinae)
—Argentina (**Virla:** 2001)
Haplogonatopus hernandezae Olmi (Gonatopodinae)
—Argentina (**Virla & Olmi:** 1998a; 1998b)

Delphacodes latus Remes Lenicov & Tesón

Gonatopus bonaerensis Virla (Gonatopodinae)
—Argentina (**Virla:** 2004)

Delphacodes puella (Van Duzee)

Gonatopus americae Olmi (Gonatopodinae)
—USA (**Giri et al.:** 1985, ***Dicondylus americanus* (Perkins). **Giri & Freytag:** 1988, ***D. americanus* (Perkins))

Delphacodes sitarea Remes Lenicov & Tesón

Gonatopus bonaerensis Virla (Gonatopodinae)
—Argentina (**Virla:** 2000a)
Gonatopus chilensis (Olmi) (Gonatopodinae)
—Argentina (**Virla:** 1995, ***Pseudogonatopus chilensis* Olmi)
Haplogonatopus hernandezae Olmi (Gonatopodinae)

—Argentina (**Virla & Olmi**: 1998a; 1998b. **Virla**: 2000a)

Dicranotropis divergens Kirschbaum

Gonatopus rosellae (Currado & Olmi) (Gonatopodinae)

—Italy (**Currado & Olmi**: 1974a, ***Pseudogonatopus rosellae* Cur. & Olmi. **Olmi**: 1984, ***P. rosellae* Cur. & Olmi. **Waloff & Jervis**: 1987, ***P. rosellae* Cur. & Olmi)

Dicranotropis fuscoterminalis (Berg)

Gonatopus chilensis (Olmi) (Gonatopodinae)

—Argentina (**Virla**: 1995, ***Pseudogonatopus chilensis* Olmi. **Virla & Olmi**: 1998b)

Dicranotropis hamata (Boheman)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Finland (**Raatikainen**: 1967, ***Dicondylus lindbergi* Heik.. **Olmi**: 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

—Great Britain (**Richards**: 1939, **male species 4. **Hassan**: 1939, ***Dicondylus bicolor* (Haliday).

Waloff: 1975, ***D. bicolor* (Haliday). **Waloff & Thompson**: 1980, ***D. bicolor* (Haliday). **Olmi**: 1984, ***D. bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

—Italy (**Currado & Olmi**: 1974b, ***Haplogonatopus bifarius* (K.). **Olmi**: 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

—Netherlands (**Olmi**: 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

—"Russia" (**Ponomarenko**: 1978, ***Dicondylus bicolor* Haliday) (it is not clear if the Ponomarenko record is related to Russia or to West Europe after Richards, 1939)

Gonatopus distinctus Kieffer (Gonatopodinae)

—Germany (**Strübing**: 1956, ***Pseudogonatopus distinctus* (K.). **Olmi**: 1984, ***P. distinctus* (K.).

Waloff & Jervis: 1987, ***P. distinctus* (K.))

—Great Britain (**Waloff**: 1974, ***Pseudogonatopus distinctus* (K.). **Olmi**: 1984, ***P. distinctus* (K.).

Waloff & Jervis: 1987, ***P. distinctus* (K.))

Gonatopus dromedarius (A. Costa) (Gonatopodinae)

—Italy (**Olmi**: 1984, record related to Italy)

Gonatopus rosellae (Currado & Olmi) (Gonatopodinae)

—Italy (**Currado & Olmi**: 1974a, ***Pseudogonatopus rosellae* Cur. & Olmi. **Olmi**: 1984, ***P. rosellae* Cur. & Olmi. **Waloff & Jervis**: 1987, ***P. rosellae* Cur. & Olmi)

Dicranotropis sp.

Gonatopus bonaerensis Virla (Gonatopodinae)

—Argentina (**Virla**: 2004)

Gonatopus nudus (Perkins) (Gonatopodinae)

—Indonesia (**R.C.L. Perkins**: 1912, ***Pseudogonatopus nudus* Perkins. **Olmi**: 1984, ***P. nudus* Perkins)

Ditropis pteridis (Spinola)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Great Britain (**Richards**: 1933, **Stiroma pteridis* Boh., ***Dicondylus bicolor* (Haliday). **Olmi**: 1984, ***D. bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

—"Russia" (**Ponomarenko**: 1978, **Criomorphus pteridis* Boh., ***Dicondylus bicolor* Haliday) (it is not clear if the Ponomarenko record is related to Russia or to West Europe after Richards, 1933)

Gonatopus distinctus Kieffer (Gonatopodinae)

—Great Britain (**Waloff**: 1974, 1975, ***Pseudogonatopus distinctus* (K.). **Olmi**: 1984, ***P. distinctus* (K.). **Waloff & Jervis**: 1987, ***P. distinctus* (K.))

—Italy (!!)

Emoloana swezeyi (Kirkaldy)

Gonatopus perkinsi Ashmead (Gonatopodinae)

—Hawaii (**Bridwell**: 1920, **Kelisia swezeyi*, ***Pseudogonatopus perkinsi* (Ashmead). **Olmi**: 1984, **K. swezeyi*, ***Dicondylus perkinsi* (Ashmead))

Eurysula lurida (Fieber)

Gonatopus distinguendus Kieffer (Gonatopodinae)

—Poland (erroneous record) (Germany in **Haupt**: 1938, **Eurysa lurida* Fieb., ***Allogonatopus procerus* Hpt.) (this record was attributed to Germany also by **Olmi**: 1984, **E. lurida* Fieb. and **Guglielmino & Olmi**: 1997, but Haupt's record was from Bellinchen (= Bielinek), which is now in Poland) (this record is erroneous because *Gonatopus distinguendus* parasitizes Cicadellidae and not Delphacidae)

Falcotoya aglauros (Fennah)

Haplogonatopus katangae (Benoit) (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 2007)

Falcotoya minuscula (Horváth)

Echthrodelpfax tauricus Ponomarenko (Gonatopodinae)

—Italy (**Guglielmino & Olmi**: 1997, ***Echthrodelpfax hortusensis* (Abdul-Nour))

Falcotoya sporoboli (Lindberg)

Haplogonatopus katangae (Benoit) (Gonatopodinae)

—South Africa (**Olmi**: 2006)

Flastena fumipennis (Fieber)

Gonatopus camelinus Kieffer (Gonatopodinae)

—Italy (**Guglielmino & Olmi**: 1997)

Gravestiniella boldi (Scott)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Great Britain (**Richards**: 1948, **Delphax boldi* (Scott), ***Dicondylus bicolor* (Haliday). **Olmi**: 1984, ***D. bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

Gonatopus distinctus Kieffer (Gonatopodinae)

—Great Britain (**Richards**: 1948, **Delphax boldi* (Scott), ***Pseudogonatopus distinctus* (K.). **Waloff**: 1974, 1975, ***P. distinctus* (K.). **Olmi**: 1984, ***P. distinctus* (K.). **Waloff & Jervis**: 1987, ***P. distinctus* (K.))

Hosunka hakonensis (Matsumura)

Gonatopus lankae (Ponomarenko) (Gonatopodinae)

—Japan (Ogasawara Islands) (**Mita & Olmi**: 2013)

Haplogonatopus oratorius (Westwood) (Gonatopodinae)

—Japan (**Mita et al.**: 2012)

Hosunka sp.

Gonatopus asiaticus (Olmi) (Gonatopodinae)

—Japan (**Mita**: 2009a)

Hyledelphax elegantula (Boheman)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Great Britain (**Waloff**: 1975, **Laodelphax elegantulus* (Boh.), ***Dicondylus bicolor* (Haliday). **Olmi**: 1984, **Hyledelphax elegantulus* (Boheman), ***D. bicolor* (Haliday). **Waloff & Jervis**: 1987, **H. elegantulus* (Boheman), ***D. bicolor* (Haliday). **Guglielmino & Olmi**: 1997, **H. elegantulus* (Boheman))

Gonatopus distinctus Kieffer (Gonatopodinae)

—Great Britain (**Waloff**: 1974, **Laodelphax elegantulus* (Boh.), ***Pseudogonatopus distinctus* (K.).

Olmi: 1984, **Hyledelphax elegantulus* (Boheman), ***P. distinctus* (K.). **Waloff & Jervis**: 1987, **H. elegantulus* (Boheman), ***P. distinctus* (K.). **Guglielmino & Olmi**: 1997, **H. elegantulus* (Boheman))

Javesella discolor (Boheman)

Gonatopus distinctus Kieffer (Gonatopodinae)

—Great Britain (**Waloff**: 1974, ***Pseudogonatopus distinctus* (K.). **Olmi**: 1984, ***P. distinctus* (K.).

Waloff & Jervis: 1987, ***P. distinctus* (K.))

—Italy (erroneous record) (**Olmi**: 1989) (this record is erroneous and related to *Gonatopus rosellae* (Currado & Olmi) (Olmi, 1999b))

Gonatopus rosellae (Currado & Olmi) (Gonatopodinae)

—Italy (**Olmi**: 1989, **misid. *Pseudogonatopus distinctus* (K.))

Javesella dubia (Kirschbaum)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Italy (**Guglielmino & Olmi**: 1997)

Gonatopus formicicolus (Richards) (Gonatopodinae)

—France (**Guglielmino & Olmi**: 1997)

—Italy (**Olmi**: 1989, **misid. *Donisthorpina pallida* (Ceb.))

Javesella obscurella (Boheman)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Finland (**Raatikainen**: 1967, ***Dicondylus lindbergi* Heik.. **Olmi**: 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

Gonatopus pedestris Dalman (Gonatopodinae)

—Finland (erroneous record) (**Lindberg**: 1950, **Calligypona obscurella* Boh., ***Gonatopus ljunghi* West.) (this record is erroneous because *Gonatopus pedestris* parasitizes Cicadellidae and not Delphacidae)

Javesella pellucida (Fabricius)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Finland (**Heikinheimo**: 1957, **Delphacodes pellucida* (F.), ***Dicondylus lindbergi* Heik..

Raatikainen: 1967, ***D. lindbergi* Heik.. **Olmi**: 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday)).

—Great Britain (**Waloff**: 1975, ***Dicondylus bicolor* (Haliday). **Olmi**: 1984, ***D. bicolor* (Haliday).

Waloff & Jervis: 1987, ***D. bicolor* (Haliday))

—Poland (**Fiori**: 1984, ***Dicondylus bicolor* (Haliday))

Gonatopus distinctus Kieffer (Gonatopodinae)

—Finland (**Heikinheimo**: 1957, **Delphacodes pellucida* (F.), **the allotype male of *Dicondylus lindbergi* Heik. is really a male of *Gonatopus distinctus* (K.). **Olmi**: 1984, ***Pseudogonatopus distinctus* (K.). **Waloff & Jervis**: 1987, ***P. distinctus* (K.))

—Great Britain (**Waloff**: 1974, ***Pseudogonatopus distinctus* (K.). **Olmi**: 1984, ***P. distinctus* (K.).

Waloff & Jervis: 1987, ***P. distinctus* (K.))

Gonatopus formicicolus (Richards) (Gonatopodinae)

—Italy (**Olmi**: 1989, **misid. *Donisthorpina pallida* (Ceb.))

Haplogonatopus oratorius (Westwood) (Gonatopodinae)

—France (**Olmi**: 1984, record related to France)

Kosswigianella exigua (Boheman)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Great Britain (**Waloff**: 1990, **"*Dicondylus bicolor*" (Haliday))

Gonatopus distinctus Kieffer (Gonatopodinae)

—Great Britain (**Waloff**: 1974, **Muirodelphax exiguus* (Boh.), ***Pseudogonatopus distinctus* (K.). **Olmi**: 1984, ***P. distinctus* (K.). **Waloff & Jervis**: 1987, ***P. distinctus* (K.))

Kosswigianella lutulenta (Van Duzee)

Gonatopus americae Olmi (Gonatopodinae)

—USA (**Swezey**: 1903, 1904, **Liburnia lutulenta* Van Duzee, **misid. *Gonatopus bicolor* Ashmead.

Fenton: 1918b, **L. lutulenta*, ***Haplogonatopus americanus* Perkins. **Thompson**: 1955, **Delphacodes lutulenta* (Van Duzee), ***H. americanus* Perkins. **Olmi**: 1984, **D. lutulenta* (Van Duzee), ***Dicondylus americanus* (Perkins). **Giri et al.**: 1985, **D. lutulenta* (Van Duzee), ***D. americanus* (Perkins)). **Giri & Freytag**: 1988, 1989, **D. lutulenta* (Van Duzee), ***D. americanus* (Perkins). **Guglielmino & Olmi**: 1997, **D. lutulenta* (Van Duzee))

Gonatopus freytagi Olmi (Gonatopodinae)

—USA (**Freytag**: 1978, **Delphacodes lutulenta* (Van Duzee), ***Pseudogonatopus similis* Freytag. **Olmi**: 1984, **D. lutulenta* (Van Duzee), ***Pseudogonatopus freytagi* Olmi. **Guglielmino & Olmi**: 1997, **D. lutulenta* (Van Duzee))

Gonatopus stenocrani (Perkins) (Gonatopodinae)

—USA (**Fenton**: 1924, **Liburnia lutulenta* Van Duzee, ***Pseudogonatopus iowensis* Fenton. **Freytag**: 1978, **Delphacodes lutulenta* (Van Duzee), ***Pseudogonatopus stenocrani* Perkins. **Olmi**: 1984, **D. lutulenta* (Van Duzee), ***P. stenocrani* Perkins. **Guglielmino & Olmi**: 1997, **D. lutulenta* (Van Duzee))

Laodelphax striatella (Fallén)

Echthrodelfhax fairchildii Perkins (Gonatopodinae)

—Japan (**Thompson**: 1955, **Delphacodes striatella* Fall., ***Echthrodelfhax bicolor* Es. & Hash.. **Olmi**: 1984, **Laodelphax striatellus* (Fallén). **Kitamura**: 1987a, 1987b, **L. striatellus* (Fallén), ***E. bicolor* Es. & Hash.. **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén))

—P.R. China (**He & Xu**: 2002. **Laodelphax striatellus* (Fallén))

—South Korea (**Rural Development Administration**: 1982, **Laodelphax striatellus* (Fallén))

Echthrodelfhax tauricus Ponomarenko (Gonatopodinae)

—Italy (**Olmi**: 1984, **Laodelphax striatellus* (Fallén), ***Echthrodelfhax hortusensis* (Abdul-Nour).

Waloff & Jervis: 1987, **L. striatellus* (Fallén), ***E. hortusensis* (Abdul-Nour). **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén), ***E. hortusensis* (Abdul-Nour))

Gonatopus albosignatus Kieffer (Gonatopodinae)

—Israel (**Richards**: 1972, ***Pseudogonatopus* sp.. **Olmi**: 1984, **Laodelphax striatellus* (Fallén), ***Pseudogonatopus albosignatus* (Kieffer); 2004b. **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén), **misid. *Gonatopus dromedarius* (A. Costa))

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Ukraine (dubious record) (**Ogloblin**: 1924b, **Laodelphax striatellus* (Fallén), ***Labeo conjunctus* (K.).

Guglielmino & Olmi: 1997, **L. striatellus* (Fallén)) (this record should be confirmed because it is not sure whether the male reared by Ogloblin belongs to *Gonatopus bicolor*)

Gonatopus camelinus Kieffer (Gonatopodinae)

—Italy (**Olmi**: 1987a, 1989a, **Laodelphax striatellus* (Fallén), ***Pseudogonatopus ortholabis* (K.).

Guglielmino & Olmi: 1997, **L. striatellus* (Fallén))

Gonatopus flavifemur (Esaki & Hashimoto) (Gonatopodinae)

—Japan (**Kitamura**: 1989c, **Laodelphax striatellus* (Fallén), ***Pseudogonatopus flavifemur* Es. & Hash.. **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén))

Gonatopus nigricans (Perkins) (Gonatopodinae)

—Japan (**Mochizuki**: 1943, **Delphacodes striatellus* Fall., ***Paragonatopus fulgori* (Nakagawa). **Olmi**: 1984, **Laodelphax striatellus* (Fallén), ***Pseudogonatopus fulgori* (Nakagawa). **Kitamura**: 1987a,

1987b, **L. striatellus* (Fallén), ***P. fulgori* (Nakagawa). **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén), ***Gonatopus fulgori* Nakagawa)

—P.R. China (dubious record) (**He & Xu**: 2002, **Laodelphax striatellus* (Fallén))

Gonatopus solidus (Haupt) (Gonatopodinae)

—Italy (**Olmi**: 1981, **Laodelphax striatellus* (Fallén), ***Agonatopoides johannae* Cur. & Olmi; 1984, 1989a, **L. striatellus* (Fallén), ***Agonatopoides solidus* (Hpt.). **Waloff & Jervis**: 1987, **L. striatellus* (Fallén), ***A. solidus* (Hpt.). **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén))

Haplogonatopus apicalis Perkins (Gonatopodinae)

—Japan (**Thompson**: 1955, **Delphacodes striatella* Fall., ***Haplogonatopus japonicus* Es. & Hash.. **Olmi**: 1984, **Laodelphax striatellus* (Fallén). **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén))

Haplogonatopus oratorius (Westwood) (Gonatopodinae)

—France (**Guglielmino & Olmi**: 1997, **Laodelphax striatellus* (Fallén))

—Italy (**Currado & Olmi**: 1972, ***Monogonatopus oratorius* (West.). **Olmi**: 1984, 1989a, **Laodelphax striatellus* (Fallén). **Waloff & Jervis**: 1987, **L. striatellus* (Fallén). **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén))

—Japan (**Esaki & Hashimoto**: 1932, **Delphacodes striatellus* Fall., ***Haplogonatopus atratus* Es. & Hash.. **Nishioka**: 1980, **Delphacodes striatella* Fall., ***H. atratus* Es. & Hash.. **Kitamura**: 1982, 1983, 1985, 1986, 1987a, 1987b, 1988, 1989a, 1989b, **Laodelphax striatellus* (Fallén), ***H. atratus* Es. & Hash.. **Olmi**: 1984, **L. striatellus* (Fallén), ***H. atratus* Es. & Hash.. **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén))

—P.R. China (**He & Xu**: 2002, **Laodelphax striatellus* (Fallén))

—Russia (Siberia) (**Ponomarenko**: 1970, **Laodelphax striatellus* (Fallén), ***Haplogonatopus suchovi* Ponom.. **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén))

—South Korea (**Bae et al.**: 1995, ***Haplogonatopus atratus*)

—Turkey (**Olmi**: 1989, **Laodelphax striatellus* (Fallén). **Guglielmino & Olmi**: 1997, **L. striatellus* (Fallén))

—Ukraine (**Ogloblin**: 1924b, **Delphax (Liburnia) striatella* L., ***Dicondylus mayeti* (K.). **Guglielmino & Olmi**: 1997, **Laodelphax striatellus* (Fallén))

"*Liburnia*" sp.

Echthrodelpfax bifasciatus Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, **Liburnia* and forms allied. **Olmi**: 1984, **Liburnia* sp. and allied forms)

Echthrodelpfax nigricollis Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, *forms allied to *Liburnia*. **Olmi**: 1984, *forms allied to *Liburnia*)

Gonatopus americae Olmi (Gonatopodinae)

—USA (**R.C.L. Perkins**: 1906b, ***Haplogonatopus americanus* Perkins. **Olmi**: 1984, ***Dicondylus americanus* (Perkins))

Gonatopus dichromus (Perkins) (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Pseudogonatopus dichromus* Perkins. **Olmi**: 1984, ***P. dichromus* Perkins)

Gonatopus juncetorum (Perkins) (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Pseudogonatopus juncetorum* Perkins and ***Pseudogonatopus palustris* Perkins. **Olmi**: 1984, ***P. juncetorum* Perkins and ***P. palustris* Perkins)

Gonatopus kurandae (Perkins) (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Pseudogonatopus kurandae* Perkins. **Olmi**: 1984, ***P. kurandae* Perkins)

Gonatopus nigricans (Perkins) (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, **Liburnia* or allied forms, ***Paragonatopus nigricans* Perkins. **Olmi**: 1984, *Delphacidae near *Liburnia*, ***Pseudogonatopus nigricans* (Perkins))

Gonatopus opacus (Perkins) (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, **Liburnia* sp. (near *Chloriona*), ***Pseudogonatopus opacus* Perkins. **Olmi**: 1984, **Liburnia* sp. (near *Chloriona*), ***P. opacus* Perkins)

Gonatopus perkinsi Ashmead (Gonatopodinae)

—Hawaii (**R.C.L. Perkins**: 1906b, *Various Delphacids allied to *Liburnia*, ***Pseudogonatopus perkinsi* (Ashm.). **Olmi**: 1984, *Delphacidae allied to *Liburnia*, ***Dicondylus perkinsi* (Ashm.))

Gonatopus sjoestedti Kieffer (Gonatopodinae)

—USA (**R.C.L. Perkins**: 1906b, ***Pseudogonatopus americanus* Perkins. **Olmi**: 1984, ***Pseudogonatopus sjoestedti* (K.))

Haplogonatopus apicalis Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, **Liburnia* and other Delphacids and *Liburnia* sp. (near *Chloriona*), ***Haplogonatopus apicalis* Perkins and ***Haplogonatopus brevicornis* Perkins. **Olmi**: 1984, **Liburnia* sp. (near *Chloriona*))

Liburniella ornata (Stål)

Gonatopus americae Olmi (Gonatopodinae)

—USA (**Giri et al.**: 1985, ***Dicondylus americanus* (Perkins). **Giri & Freytag**: 1988, ***D. americanus* (Perkins))

Gonatopus freytagi (Olmi) (Gonatopodinae)

—USA (**Buntin**: 1989, ***Pseudogonatopus freytagi* Olmi)

Matutinus vitticollis (Stål)

Gonatopus acutus (Olmi) (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 2007)

Gonatopus amoenus Olmi (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 2007)

Megadelphax sordidula (Stål)

Echthrodelpfax tauricus Ponomarenko (Gonatopodinae)

—Italy (**Olmi**: 1984, **Megadelphax sordidulus* (Stål), ***Echthrodelpfax hortusensis* (Abdul-Nour).

Waloff & Jervis: 1987, **M. sordidulus* (Stål), ***E. hortusensis* (Abdul-Nour). **Guglielmino & Olmi**: 1997, **M. sordidulus* (Stål), ***E. hortusensis* (Abdul-Nour))

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Finland (**Raatikainen**: 1967, **Megadelphax sordidulus* (Stål), ***Dicondylus lindbergi* Heik.. **Olmi**: 1984, **M. sordidulus* (Stål), ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, **M. sordidulus* (Stål), ***D. bicolor* (Haliday). **Guglielmino & Olmi**: 1997, **M. sordidulus* (Stål))

Gonatopus formicicolus (Richards) (Gonatopodinae)

—Italy (**Olmi**: 1989, **Megadelphax sordidulus* (Stål), **misid. *Donisthorpina pallida* (Ceb.).

Guglielmino & Olmi: 1997, **M. sordidulus* (Stål))

Gonatopus helleni (Raatikainen) (Gonatopodinae)

—Finland (**Raatikainen**: 1960, **Calligypona sordidula* (Stål), ***Gonatopus dichromus* K.; 1961, **C. sordidula* (Stål), ***Dicondylus helleni* Raatik.; 1970, ***D. helleni* Raatik.. **Olmi**: 1984, **Megadelphax sordidulus* (Stål), ***Dicondylus dichromus* (K.). **Waloff & Jervis**: 1987, **M. sordidulus* (Stål), ***D. dichromus* (K.). **Guglielmino & Olmi**: 1997, **M. sordidulus* (Stål))

Gonatopus rosellae (Currado & Olmi) (Gonatopodinae)

—Italy (**Currado & Olmi**: 1974a, ***Pseudogonatopus rosellae* Cur. & Olmi. **Olmi**: 1984, **Megadelphax sordidulus* (Stål), ***P. rosellae* Cur. & Olmi. **Waloff & Jervis**: 1987, **M. sordidulus* (Stål), ***P. rosellae* Cur. & Olmi. **Guglielmino & Olmi**: 1997, **M. sordidulus* (Stål))

Haplogonatopus oratorius (Westwood) (Gonatopodinae)

—Italy (**Currado & Olmi**: 1972, ***Monogonatopus oratorius* (West.). **Olmi**: 1984, 1989a, **Megadelphax sordidulus* (Stål). **Waloff & Jervis**: 1987, ***M. sordidulus* (Stål). **Guglielmino & Olmi**: 1997, **M. sordidulus* (Stål))

Megadelphax sp.

Gonatopus dromedarius (A. Costa) (Gonatopodinae)

—Italy (**Currado & Olmi**: 1974a, ***Pseudogonatopus augustae* Cur. & Olmi. **Olmi**: 1984, ***P. augustae* Cur. & Olmi. **Waloff & Jervis**: 1987, ***P. augustae* Cur. & Olmi)

Gonatopus solidus (Haupt) (Gonatopodinae)

—Italy (**Currado & Olmi**: 1975, ***Agonatopoides johannae* Cur. & Olmi. **Olmi**: 1984, ***Agonatopoides solidus* (Hpt.). **Waloff & Jervis**: 1987, ***A. solidus* (Hpt.))

Megamelus scutellaris Berg

Gonatopus hilaris Olmi

—Argentina (**Sosa et al.**: 2005)

Metadelphax argentinensis (Muir)

Gonatopus chilensis (Olmi) (Gonatopodinae)

—Argentina (**Virla & Olmi**: 1998b, **Toya argentinensis* (Muir). **Virla**: 2000a, **T. argentinensis* (Muir))

Haplogonatopus hernandezae Olmi (Gonatopodinae)

—Argentina (**Virla & Olmi**: 1998b, **Toya argentinensis* Remes Lenicov & Tesón)

Metadelphax propinqua (Fieber)

Echthrodelpfax tauricus Ponomarenko (Gonatopodinae)

—Mozambique (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber), ***Echthrodelpfax afer* Olmi.

Olmi & Harten: 2000, **T. propinqua* (Fieber), ***Echthrodelpfax hortusensis* (Abdul-Nour))

Gonatopus amoenus Olmi (Gonatopodinae)

—Mozambique (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber))

—South Africa (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber). **Olmi**: 2006, **T. propinqua* (Fieber))

Gonatopus azorensis (Olmi) (Gonatopodinae)

—Azores Islands (**Olmi**: 1991, **Toya propinqua* (Fieber), ***Pseudogonatopus azorensis* Olmi)

—Morocco (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber))

Gonatopus bonaerensis Virla (Gonatopodinae)

—Argentina (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber). **Virla**: 2004, **T. propinqua* (Fieber))

Gonatopus camelinus Kieffer (Gonatopodinae)

—Azores Islands (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber))

—France (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber))

—Italy (**Olmi**: 1989, **Toya propinqua* (Fieber), ***Pseudogonatopus ortholabis* (K.); 1991, **T. propinqua* (Fieber), ***Pseudogonatopus camelinus* (K.))

—Turkey (**Olmi**: 1989, **Toya propinqua* (Fieber), ***Pseudogonatopus ortholabis* (K.) and ***Pseudogonatopus camelinus* (K.))

Gonatopus chilensis (Olmi) (Gonatopodinae)

—Argentina (**De Santis & Virla**: 1991, **Toya propinqua* (Fieber), **misid. *Pseudogonatopus flavus*

Olmi. **Virla**: 1995, **T. propinqua*, ***Pseudogonatopus chilensis* Olmi; 2000a, **T. propinqua* (Fieber).

Guglielmino & Olmi: 1997, **T. propinqua* (Fieber). **Virla & Olmi**: 1998b, **T. propinqua* (Fieber))

Gonatopus distinctus Kieffer (Gonatopodinae)

—Ukraine (Crimea) (**Ponomarenko**: 1978, ***Pseudogonatopus distinctus* K.. **Olmi**: 1984,

***Pseudogonatopus septemdentatus* (J. Sahlberg). **Waloff & Jervis**: 1987, ***P. septemdentatus* (J. Sahlberg))

Gonatopus dromedarius (A. Costa) (Gonatopodinae)

—Italy (**Olmi**: 1989, **Toya propinqua* (Fieber), ***Pseudogonatopus albosignatus* (K.))

Gonatopus flavifemur (Esaki & Hashimoto) (Gonatopodinae)

—P.R. China (dubious record) (**He & Xu**: 2002, **Toya propinqua* (Fieber))

Gonatopus flavoides Olmi (Gonatopodinae)

—Argentina (**Virla & Olmi**: 2007a, **Toya propinqua* (Fieber))

Gonatopus freytagi (Olmi) (Gonatopodinae)

—USA (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber))
Gonatopus lauti Virla (Gonatopodinae)
 —Argentina (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber). **Virla**: 2001, **T. propinqua* (Fieber))
Haplogonatopus hernandezae Olmi (Gonatopodinae)
 —Argentina (**Guglielmino & Olmi**: 1997, **Toya propinqua* (Fieber). **Virla & Olmi**: 1998a, 1998b, **T. propinqua* (Fieber). **Virla**: 2000a, **T. propinqua* (Fieber))
Haplogonatopus oratorius (Westwood) (Gonatopodinae)
 —Turkey (**Olmi**: 1989, **Toya propinqua* (Fieber))

Muellerianella extrusa (Scott)

Gonatopus formiciculus (Richards) (Gonatopodinae)
 —Netherlands (**Olmi**: 1984, *misid. *Muellerianella fairmairei* Perris (= *extrusa* Scott), **misid. *Donisthorpina pallida* (Ceb.). **Waloff & Jervis**: 1987, *misid. *M. fairmairei* (Perris), **misid. *D. pallida* (Ceb.))

Muirodelphax aubei (Perris)

Gonatopus solidus (Haupt) (Gonatopodinae)
 —Poland (Germany in **Haupt**: 1938, **Liburnia aubei* Perr., ***Allogonatopus solidus* Hpt.) (this record was attributed to Germany also by **Olmi**: 1984, ***Agonatopoides solidus* (Hpt.), and **Waloff & Jervis**: 1987, ***A. solidus* (Hpt.), but Haupt's record was from Bellinchen (= Bielinek), which is now in Poland)

Nesosydne alcmaeon Fennah

Haplogonatopus hernandezae Olmi (Gonatopodinae)
 —Galapagos Islands (**Abedrabbo et al.**: 1990, ***Haplogonatopus crucianus* Olmi. **Guglielmino & Olmi**: 1997, ***H. crucianus* Olmi)

Nesosydne coprosmicola (Muir)

Gonatopus perkinsi Ashmead (Gonatopodinae)
 —Hawaii (**Thompson**: 1955, **Ilburnia coprosmicola* Muir, ***Pseudogonatopus perkinsi* Ashm.. **Olmi**: 1984, **I. coprosmicola* Muir, ***Dicondylus perkinsi* (Ashmead))

Nesosydne iphis Fennah

Haplogonatopus hernandezae Olmi (Gonatopodinae)
 —Galapagos Islands (**Abedrabbo et al.**: 1990, ***Haplogonatopus crucianus* Olmi. **Guglielmino & Olmi**: 1997, ***H. crucianus* Olmi)

Nesosydne koae Kirkaldy

Gonatopus perkinsi Ashmead (Gonatopodinae)
 —Hawaii (**Thompson**: 1955, **Ilburnia koae* Kirk., ***Pseudogonatopus perkinsi* Ashm.. **Olmi**: 1984, **I. koae* Kirk., ***Dicondylus perkinsi* (Ashmead))

Nesosydne olipor Fennah

Haplogonatopus hernandezae Olmi (Gonatopodinae)
 —Galapagos Islands (**Abedrabbo et al.**: 1990, ***Haplogonatopus crucianus* Olmi. **Guglielmino & Olmi**: 1997, ***H. crucianus* Olmi)

Nilaparvata bakeri (Muir)

Gonatopus flavifemur (Esaki & Hashimoto) (Gonatopodinae)
 —P.R. China (dubious record) (**He & Xu**: 2002)
Gonatopus nigricans (Perkins) (Gonatopodinae)
 —P.R. China (dubious record) (**He & Xu**: 2002)

Gonatopus nudus (Perkins) (Gonatopodinae)

—P.R. China (**Xu et al.**: 1997, ***Gonatopus australis* Xu & He)

Nilaparvata lugens (Stål)

Echthrodelpfax fairchildii Perkins (Gonatopodinae)

—India (**Manjunath et al.**: 1978, **"*E. fairchildii*" Fallén)

—Japan (**Thompson**: 1955, **Nilaparvata oryzae* Mats., ***Echthrodelpfax bicolor* Es. & Hash..

Manjunath et al.: 1978, ***E. bicolor* Es. & Hash.. **Olmi**: 1984. **Kitamura**: 1987a, 1987b, ***E. bicolor* Es. & Hash.)

—Malaysia (**Omar et al.**: 1997)

—Philippines (**Chandra**: 1978a; 1978b; 1980. **Barrion et al.**: 1981. **Olmi**: 1984)

—South Korea ((**Rural Development Administration**: 1982)

—Taiwan (**Chu & Hirashima**: 1981, ***Echthrodelpfax bicolor*. **Olmi**: 1984)

Gonatopus capillus Xu & He (Gonatopodinae)

—P.R. China (**Xu & He**: 1998)

Gonatopus flavifemur (Esaki & Hashimoto) (Gonatopodinae)

—Australia (**Jervis**: pers. comm., ***Dicondylus indianus* Olmi)

—India (**Guglielmino & Olmi**: 1997)

—Japan (**Esaki & Hashimoto**: 1933, **Nilaparvata oryzae* Mats., ***Pseudogonatopus flavifemur* Es. & Hash.. **Grist & Lever**: 1969, ***P. flavifemur* Es. & Hash.. **Manjunath et al.**: 1978, ***P. flavifemur* Es. & Hash.. **Olmi**: 1984, ***P. flavifemur* Es. & Hash.. **Kitamura**: 1987a, 1987b, 1989c, ***P. flavifemur* Es. & Hash.)

—Malaysia (**Guglielmino & Olmi**: 1997)

—Philippines (**Chandra**: 1978a, ***Pseudogonatopus flavifemur*; 1978b, ***Pseudogonatopus* near *hospes* Perkins; 1980, ***Pseudogonatopus flavifemur* Es. & Hash.. **Barrion et al.**: 1981, ***P. flavifemur* Es. & Hash.. **Chua & Dyck**: 1982, ***P. flavifemur* Es. & Hash.. **Olmi**: 1984, ***Dicondylus indianus* Olmi)

—Taiwan (**Chu & Hirashima**: 1981, ***Pseudogonatopus flavifemur*)

Gonatopus lucens (Olmi) (Gonatopodinae)

—Philippines (erroneous record) (**Chandra**: 1978a, ***Haplogonatopus* sp. 2) (this record is a mistake because *Gonatopus lucens* is a parasitoid of Cicadellidae and not Delphacidae)

—P.R. China (erroneous record) (**He & Xu**: 2002) (this relationship is a mistake, because this dryinid does not parasitize Fulgoromorpha)

Gonatopus nigricans (Perkins) (Gonatopodinae)

—India (!!)

—Malaysia (**Móczár**: 1979, ***Pseudogonatopus hospes* Perkins)

—Thailand (**Chiu**: 1979, ***Pseudogonatopus hospes* Perkins)

Gonatopus nudus (Perkins) (Gonatopodinae)

—India (**Guglielmino & Olmi**: 1997)

—Indonesia (!!)

—Malaysia (**Móczár**: 1979, ***Pseudogonatopus sarawaki* Móczár. **Olmi**: 1984, ***P. sarawaki* Móczár)

—Philippines (**Chandra**: 1978a, 1978b, ***Pseudogonatopus* nr. *nudus* Perkins; 1980, ***P. nudus*

Perkins. **Barrion et al.**: 1981, ***P. nudus* Perkins. **Olmi**: 1984, ***Pseudogonatopus sarawaki* Móczár)

—Sri Lanka (**Olmi**: 1984, ***Pseudogonatopus sarawaki* Móczár)

—Thailand (**Fiori**: 1984, ***Pseudogonatopus sarawaki* Móczár)

Gonatopus schenklingi Strand (Gonatopodinae)

—P.R. China (erroneous record) (**Xu et al.**: 1999, ***Gonatopus nilaparvatae* Xu & Yang. **He & Xu**: 2002, from **Xu et al.**: 1999, ***G. nilaparvatae* Xu & Yang) (this relationship is a mistake, because this dryinid does not parasitize Fulgoromorpha)

Haplogonatopus apicalis Perkins (Gonatopodinae)

—India (**Guglielmino & Olmi**: 1997)

—Japan (**Manjunath et al.**: 1978, ***Haplogonatopus japonicus* Es. & Hash.. **Chiu**: 1979, ***H. japonicus* Es. & Hash.)

- Philippines (**Chandra**: 1978a, 1978b, 1980, ***Haplogonatopus* sp. 1. **Olmi**: 1984)
- Sri Lanka (**Otake et al.**: 1976, ***Haplogonatopus orientalis* Rohwer. **Olmi**: 1984)
- Taiwan (**Guglielmino & Olmi**: 1997)
- Haplogonatopus oratorius* Westwood (Gonatopodinae)
- Japan (**Nishioka**: 1980, ***Haplogonatopus atratus* Es. & Hash.)
- P.R. China (**He & Xu**: 2002)
- South Korea (**Rural Development Administration**: 1982)

Nilaparvata muiri China

- Gonatopus nigricans* (Perkins) (Gonatopodinae)
- P.R. China (dubious record) (**He & Xu**: 2002)

Nilaparvata myersi Muir

- Gonatopus alpinus* (Gourlay) (Gonatopodinae)
- New Zealand (**Olmi**: 1984, ***Dicondylus alpinus* (Gourlay). **Valentine & Walker**: 1991, ***Gonatopus zealandicus* Olmi) (the authors have attributed for mistake the hosts of *Gonatopus alpinus* (Gourlay) to *Gonatopus zealandicus* Olmi and vice versa)

Nilaparvata sp.

- Echthrodelfax fairchildii* Perkins (Gonatopodinae)
- India (**Olmi**: 1984)
- Gonatopus flavifemur* (Esaki & Hashimoto) (Gonatopodinae)
- India (**Olmi**: 1984, ***Dicondylus indianus* Olmi)

Numata muiri (Kirkaldy)

- Gonatopus similis* Brues (Gonatopodinae)
- Mauritius (**Williams**: 1956, 1957, **Dicranotropis muiri* Kirkaldy, ***Pseudogonatopoides mauritanus* Williams. **Olmi**: 1984, **D. muiri* Kirkaldy, ***Pseudogonatopus similis* (Brues). **Guglielmino & Olmi**: 1997, **D. muiri* Kirkaldy)

Nycheuma endymion (Fennah)

- Echthrodelfax tauricus* Ponomarenko (Gonatopodinae)
- Mozambique (**Guglielmino & Olmi**: 1997, ***Echthrodelfax afer* Olmi. **Olmi & Harten**: 2000, ***E. afer* Olmi)

Peregrinus maidis (Ashmead)

- Echthrodelfax tauricus* Ponomarenko (Gonatopodinae)
- Cabo Verde Islands (**Olmi**: 1987a, ***Echthrodelfax afer* Olmi. **Guglielmino & Olmi**: 1997, ***E. afer* Olmi. **Olmi & Harten**: 2000, ***E. afer* Olmi)
- Gonatopus bonaerensis* Virla (Gonatopodinae)
- Argentina (**Cuezzo & Virla**: 2001, ***Gonatopus bonariensis* Virla)
- Gonatopus chilensis* (Olmi) (Gonatopodinae)
- Argentina (**Cuezzo & Virla**: 2001)
- Gonatopus similis* Brues (Gonatopodinae)
- La Réunion (**Olmi**: 1987c, ***Pseudogonatopus similis* (Brues))
- Haplogonatopus hernandezae* Olmi (Gonatopodinae)
- Argentina (**Cuezzo & Virla**: 2001)
- Haplogonatopus vitiensis* Perkins (Gonatopodinae)
- Hawaii (imported) (**Thompson**: 1955. **Olmi**: 1984)

Perkinsiella saccharicida Kirkaldy

- Echthrodelfax fairchildii* (Perkins) (Gonatopodinae)

—Hawaii (**R.C.L. Perkins:** 1906b. **Muir:** 1921. **Olmi:** 1984)
 —P.R. China (**He & Xu:** 2002)
Gonatopus dichromus (Perkins) (Gonatopodinae)
 —Hawaii (reared in laboratory) (**R.C.L. Perkins:** 1906a, ***Pseudogonatopus dichromus* Perkins (p. 495). **Olmi:** 1984, ***P. dichromus* Perkins)
Gonatopus krombeini Olmi (Gonatopodinae)
 —Perú (**Guglielmino & Olmi:** 1997)
Gonatopus morenoi (Olmi) (Gonatopodinae)
 —Colombia (**Olmi:** 1984, ***Pseudogonatopus morenoi* Olmi)
Gonatopus nigricans (Perkins) (Gonatopodinae)
 —Hawaii (introduced for biological control from China) (**R.C.L. Perkins:** 1912, ***Pseudogonatopus hospes* Perkins. **Muir:** 1921, ***P. hospes*. **Swezey:** 1919, 1928, ***P. hospes* Perkins. **Olmi:** 1984, ***P. hospes* Perkins)
 —P.R. China (**Olmi:** 1984, ***Pseudogonatopus hospes* Perkins)
Gonatopus perkinsiellavorus (Benoit) (Gonatopodinae)
 —Madagascar (**Benoit:** 1963, ***Pseudogonatopus perkinsiellavorus* Benoit. **Olmi:** 1984, ***P. perkinsiellavorus* Benoit)
Gonatopus saccharetorum (Perkins) (Gonatopodinae)
 —Australia (**R.C.L. Perkins:** 1906b, ***Pseudogonatopus saccharetorum* Perkins. **Olmi:** 1984, ***P. saccharetorum* Perkins)
Gonatopus similis Brues (Gonatopodinae)
 —Mauritius (**Williams:** 1956, 1957, ***Pseudogonatopoides mauritanus* Williams (reported by **Guglielmino & Olmi:** 1997, as *Pseudogonatopus similis* (Brues)). **Olmi:** 1984, ***P. similis* (Brues))
Gonatopus spiracularis (Benoit) (Gonatopodinae)
 —Madagascar (**Benoit:** 1963, ***Pseudogonatopus spiracularis* Benoit. **Olmi:** 1984, ***P. spiracularis* Benoit)
Haplogonatopus vitiensis Perkins (Gonatopodinae)
 —Fiji Islands (**Muir:** 1921)
 —Hawaii (introduced for biological control from the Fiji Islands) (**Muir:** 1921. **Swezey:** 1928. **Williams:** 1931. **Thompson:** 1955. **Olmi:** 1984)

Perkinsiella vitiensis Kirkaldy

Haplogonatopus vitiensis Perkins (Gonatopodinae)

—Fiji Islands (**Olmi:** 1984)

Phrictopyga holmgreni (Muir)

Gonatopus concinnus Olmi & Virla (Gonatopodinae)

—Argentina (**Remes Lenicov et al.:** 2009)

Ribautodelphax albostriata (Fieber)

Echthrodelfphax tauricus Ponomarenko (Gonatopodinae)

—Germany (**Guglielmino & Olmi:** 1997, **Ribautodelphax albostriatus* (Fieber), ***Echthrodelfphax hortusensis* (Abdul-Nour))

Gonatopus formicicolus (Richards) (Gonatopodinae)

—Netherlands (**Fiori:** 1984, **Ribautodelphax albostriatus* (Fieber), **misid. *Donisthorpina pallida* (Ceb.). **Guglielmino & Olmi:** 1997, **R. albostriatus* (Fieber))

Ribautodelphax angulosa (Ribaut)

Gonatopus distinctus Kieffer (Gonatopodinae)

—Great Britain (**Waloff:** 1974, **Ribautodelphax angulosus* (Ribaut), ***Pseudogonatopus distinctus* (K.). **Olmi:** 1984, **R. angulosus* (Ribaut), ***P. distinctus* (K.). **Waloff & Jervis:** 1987, **R. angulosus* (Ribaut), ***P. distinctus* (K.). **Guglielmino & Olmi:** 1997, **R. angulosus* (Ribaut))

Ribautodelphax collina (Boheman)

Gonatopus bicolor (Haliday) (Gonatopodinae)

- France (**Maneval**: 1935, **Delphax collinae* Boh., ***Dicondylus bicolor* Haliday. **Richards**: 1939, **Delphacodes collina* (Boh.), ***D. bicolor* (Haliday). **Olmi**: 1984, **Delphax collinae*. **Waloff & Jervis**: 1987, *"*D. collinae*" (Boh.) and **Ribautodelphax* sp., ***D. bicolor* (Haliday). **Guglielmino & Olmi**: 1997, **Ribautodelphax collinus* (Boheman))
- Great Britain (erroneous record) (**Olmi**: 1984, **Ribautodelphax collinus* (Boheman). **Guglielmino & Olmi**: 1997, **R. collinus* (Boheman)) (this record is erroneous, because related to France (Maneval 1935 reported by Richards 1939))
- Netherlands (**Olmi**: 1984, **Ribautodelphax collinus* (Boheman), ***D. bicolor* (Haliday). **Waloff & Jervis**: 1987, **R. collinus* (Boheman), ***D. bicolor* (Haliday). **Guglielmino & Olmi**: 1997, **R. collinus* (Boheman))
- "Russia" (**Ponomarenko**: 1978, **Delphacodes collina* Boh., ***D. bicolor* Haliday. **Guglielmino & Olmi**: 1997, **Ribautodelphax collinus* (Boheman)) (it is not clear if the Ponomarenko record is related to Russia or to West Europe after Maneval, 1935)

Ribautodelphax imitans (Ribaut)

Echthrodelfax tauricus Ponomarenko (Gonatopodinae)

- France (**Abdul-Nour**: 1976, ***Pterogonatopus hortusensis* Abdul-Nour. **Olmi**: 1984, ***Echthrodelfax hortusensis* (Abdul-Nour). **Waloff & Jervis**: 1987, ***E. hortusensis* (Abdul-Nour). **Guglielmino & Olmi**: 1997, ***E. hortusensis* (Abdul-Nour))
- Italy (**Guglielmino & Olmi**: 1997, ***Echthrodelfax hortusensis* (Abdul-Nour))

Gonatopus albosignatus Kieffer (Gonatopodinae)

- France (**Abdul-Nour**: 1976, ***Pseudogonatopus separatus* Richards. **Olmi**: 1984, ***Labeo albosignatus* Kieffer, ***Pseudogonatopus albosignatus* (Kieffer) and ***Pseudogonatopus ligusticus* Currado & Olmi; 2004b. **Waloff & Jervis**: 1987, ***P. albosignatus* (Kieffer) and ***P. ligusticus* Currado & Olmi. **Guglielmino & Olmi**: 1997, ***Gonatopus albifrons* Olmi and **misid. *Gonatopus dromedarius* (A. Costa))

Gonatopus bicolor (Haliday) (Gonatopodinae)

- France (**Olmi**: 1989, ***Dicondylus bicolor* (Haliday))

Ribautodelphax pungens (Ribaut)

Gonatopus bicolor (Haliday) (Gonatopodinae)

- Belgium (**Olmi**: 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

Gonatopus formicicolus (Richards) (Gonatopodinae)

- Netherlands (**Olmi**: 1984, **misid. *Donisthorpina pallida* (Ceb.). **Fiori**: 1984, **misid. *D. pallida* (Ceb.). **Waloff & Jervis**: 1987, **misid. *D. pallida* (Ceb.))

***Ribautodelphax* sp.**

Gonatopus bicolor (Haliday) (Gonatopodinae)

- Great Britain (**Waloff & Jervis**: 1987, ***Dicondylus bicolor* (Haliday))

Saccharosydne procerus (Matsumura)

Echthrodelfax fairchildii Perkins (Gonatopodinae)

- Taiwan (**Guglielmino & Olmi**: 1997)

Gonatopus flavifemur (Esaki & Hashimoto) (Gonatopodinae)

- P.R. China (dubious record) (**He & Xu**: 2002)

Haplogonatopus oratorius (Westwood) (Gonatopodinae)

- P.R. China (dubious record) (**He & Xu**: 2002)

Saccharosydne saccharivora (Westwood)

Gonatopus arizonicus (Perkins) (Gonatopodinae)

—USA (**Olmi**: 1984, ***Pseudogonatopus arizonicus* Perkins)

Gonatopus variistriatus (Fenton) (Gonatopodinae)

—Bahamas Islands (**Guglielmino & Olmi**: 1997)

—Guadeloupe (**Olmi**: 1998a)

—Jamaica (**Richards**: 1972, ***Pseudogonatopus saccharivora* Richards. **Olmi**: 1984,

***Pseudogonatopus variistriatus* Fenton)

Sardia sp.

Echthrodelfax nigricollis Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, **Hadeodelphax* sp.. **Olmi**: 1984, **Hadeodelphax* sp.)

Haplogonatopus apicalis Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, **Hadeodelphax* sp., ***Haplogonatopus moestus* Perkins. **Olmi**: 1984, **Hadeodelphax* sp.)

Scottianella dalei (Scott)

Gonatopus distinctus Kieffer (Gonatopodinae)

—Great Britain (**Waloff**: 1974, **Paraliburnia dalei* (Scott), ***Pseudogonatopus distinctus* (K.). **Olmi**: 1984, **P. dalei* (Scott), ***P. distinctus* (K.). **Waloff & Jervis**: 1987, **Struebingianella dalei* (Scott), ***P. distinctus* (K.))

Sogata sp.

Echthrodelfax krombeini Olmi (Gonatopodinae)

—Cuba (**Alayo**: 1974, ***Dryinus* sp. D)

Gonatopus nigricans (Perkins) (Gonatopodinae)

—India (**Rohwer**: 1920, ***Pseudogonatopus sogatae* Rohwer. **Olmi**: 1984, ***P. sogatae* Rohwer.

Guglielmino & Olmi: 1997, ***Gonatopus sogatae* (Rohwer))

Haplogonatopus apicalis Perkins (Gonatopodinae)

—India (**Rohwer**: 1920, ***Haplogonatopus orientalis* Rohwer. **Olmi**: 1984)

—Malaysia (**Olmi**: 1984)

Sogatella furcifera (Horváth)

Echthrodelfax fairchildii Perkins (Gonatopodinae)

—Japan (**Esaki & Hashimoto**: 1933, **Sogata furcifera* Horv., ***Echthrodelfax bicolor* Es. & Hash..

Olmi: 1984. **Kitamura**: 1987a, ***E. bicolor* Es. & Hash.)

—Malaysia (**Omar et al.**: 1997)

—Philippines (**Chandra**: 1978a; 1978b; 1980. **Olmi**: 1984)

—P.R. China (**He & Xu**: 2002)

—South Korea (**Rural Development Administration**: 1982)

Echthrodelfax migratorius Benoit (Gonatopodinae)

—Egypt (**Hendawy**: 2001)

Gonatopus flavifemur (Esaki & Hashimoto) (Gonatopodinae)

—Japan (**Kitamura**: 1989c, ***Pseudogonatopus flavifemur* Es. & Hash.)

—Malaysia (**Guglielmino & Olmi**: 1997)

—Philippines (**Chandra**: 1978a, ***Pseudogonatopus flavifemur* Es. & Hash.; 1978b, ***Pseudogonatopus* near *hospes* Perkins; 1980, ***P. flavifemur* Es. & Hash.. **I.R.R.I. Entomology Department**: 1980, ***P. flavifemur* Es. & Hash.. **Chua & Dyck**: 1982, ***P. flavifemur* Es. & Hash.)

Gonatopus lucens (Olmi) (Gonatopodinae)

—Philippines (erroneous record) (**Chandra**: 1978a, 1978b, ***Haplogonatopus* sp. 2) (this relationship is a mistake, because this dryinid does not parasitize Fulgoromorpha)

—P.R. China (erroneous record) (**He & Xu:** 2002) (this relationship is a mistake, because this dryinid does not parasitize Fulgoromorpha)

Gonatopus nigricans (Perkins) (Gonatopodinae)

—India (**Pruthi & Mani:** 1942, **Sogata distincta* Distant and **Sogata pallescens* Distant,

***Pseudogonatopus sogatea* Rohwer. **Guglielmino & Olmi:** 1997, ***Gonatopus sogatae* (Rohwer))

—Japan (**Mochizuki:** 1943, **Sogata furcifera* Horv., ***Paragonatopus fulgori* (Nakagawa). **Olmi:** 1984,

***Pseudogonatopus fulgori* (Nakagawa). **Kitamura:** 1987a, 1987b, ***P. fulgori* (Nakagawa).

Guglielmino & Olmi: 1997, ***Gonatopus fulgori* Nakagawa)

—Malaysia (**Pagden:** 1934, **Sogata furcifera* Horv., ***Pseudogonatopus hospes* Perkins. **Thompson:**

1955. **Grist & Lever:** 1969, ***P. hospes* Perkins. **Olmi:** 1984, ***P. hospes* Perkins)

Gonatopus nudus (Perkins) (Gonatopodinae)

—Philippines (**Chandra:** 1978a, 1978b, 1980, ***Pseudogonatopus nudus* Perkins. **I.R.R.I. Entomology**

Department: 1980, ***P. nudus* Perkins. **Olmi:** 1984, ***P. nudus* Perkins)

—Taiwan (**Guglielmino & Olmi:** 1997)

Haplogonatopus apicalis Perkins (Gonatopodinae)

—India (!!)

—Japan (**Esaki & Hashimoto:** 1931, **Delphacodes furcifera* Horv., ***Haplogonatopus japonicus* Es. &

Hash.. **Olmi:** 1984. **Kitamura:** 1987a, 1987b, ***H. japonicus* Es. & Hash.; 1988)

—Malaysia (**Pagden:** 1934, **Sogata furcifera* Horv., ***Haplogonatopus* sp. near *americanus*)

—Philippines (**Chandra:** 1978a, 1978b, 1980, ***Haplogonatopus* sp. 1)

—Sri Lanka (**Otake et al.:** 1976, ***Haplogonatopus orientalis*. **Olmi:** 1984)

Haplogonatopus oratorius (Westwood) (Gonatopodinae)

—Japan (**Nishioka:** 1980, ***Haplogonatopus atratus* Es. & Hash.. **Kitamura:** 1982, 1988, ***H. atratus* Es. & Hash.)

—P.R. China (**He & Xu:** 2002)

—South Korea (**Rural Development Administration:** 1982)

Sogatella kolophon (Kirkaldy)

Gonatopus acutus (Olmi) (Gonatopodinae)

—South Africa (**Guglielmino & Olmi:** 2007)

Gonatopus americae Olmi (Gonatopodinae)

—USA (**Giri & Freytag:** 1988, ***Dicondylus americanus* (Perkins))

Gonatopus amoenus Olmi (Gonatopodinae)

—Mozambique (**Guglielmino & Olmi:** 1997)

Gonatopus concinnus Olmi & Virla (Gonatopodinae)

—Mexico (**Guglielmino & Olmi:** 2007)

Gonatopus festivus Olmi (Gonatopodinae)

—South Africa (**Guglielmino & Olmi:** 2007)

Gonatopus similis Brues (Gonatopodinae)

—South Africa (**Guglielmino & Olmi:** 2007)

Sogatella longifurcifera (Esaki & Ishihara)

Gonatopus flavifemur (Esaki & Hashimoto) (Gonatopodinae)

—P.R. China (dubious record) (**He & Xu:** 2002)

Sogatella petax Fennah

Echthrodelpfax migratorius Benoit (Gonatopodinae)

—Mozambique (**Guglielmino & Olmi:** 1997)

Gonatopus amoenus Olmi (Gonatopodinae)

—Mozambique (**Guglielmino & Olmi:** 1997)

Sogatella vibix (Haupt)

Echthrodolphax migratorius Benoit (Gonatopodinae)

—Egypt (**Hendawy**: 2001)

Sogatella sp.

Gonatopus chilensis (Olmi) (Gonatopodinae)

—Argentina (**Virla**: 1995, ***Pseudogonatopus chilensis* Olmi; 2000a. **Virla & Olmi**: 1998b)

Gonatopus nudus (Perkins) (Gonatopodinae)

—Malaysia (**Móczár**: 1979, ***Pseudogonatopus ponomarenkoi* Móczár. **Olmi**: 1984,

***Pseudogonatopus sarawaki* Móczár)

—Sri Lanka (**Olmi**: 1984, ***Pseudogonatopus sarawaki* Móczár)

Haplogonatopus apicalis Perkins (Gonatopodinae)

—India (**Guglielmino & Olmi**: 1997)

Stiroma bicarinata (Herrich-Schäffer)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Finland (**Raatikainen**: 1967, ***Dicondylus lindbergi* Heik.. **Olmi**: 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

—Germany (**Strübing**: 1956, **Criomorphus bicarinatus* H.-S., ***Dicondylus bicolor* (Haliday). **Olmi**: 1984, **C. bicarinatus* (H.-S.), ***D. bicolor* (Haliday). **Waloff & Jervis**: 1987, **C. bicarinatus* H.-S. and ***Stiroma bicarinata* (H.-S.), ***D. bicolor* (Haliday))

Stiroma sp.

Gonatopus bicolor (Haliday) (Gonatopodinae)

—France (**Olmi**: 1984, ***Dicondylus bicolor* (Haliday). **Waloff & Jervis**: 1987, ***D. bicolor* (Haliday))

Stobaera concinna (Stål)

Gonatopus autoxenobius (Perkins) (Gonatopodinae)

—USA (!)

Stobaera sp.

Gonatopus arizonicus (Perkins) (Gonatopodinae)

—USA (**R.C.L. Perkins**: 1907, *"Stobaera" sp., ***Pseudogonatopus arizonicus* Perkins. **Olmi**: 1984, **"Stobaera" sp., ***P. arizonicus* Perkins)

Gonatopus autoxenobius (Perkins) (Gonatopodinae)

—USA (**R.C.L. Perkins**: 1907, ***Pseudogonatopus autoxenobius* Perkins. **Olmi**: 1984, ***P. autoxenobius* Perkins)

Struebingianella lugubrina (Boheman)

Haplogonatopus hernandezae Olmi (Gonatopodinae)

—Dutch Antilles (**Olmi**: 1987d, **Calligypona lugubrina*; **Guglielmino & Olmi**: 1997,

***Haplogonatopus bonairensis* Olmi)

Sulix tasmani (Muir)

Gonatopus alpinus (Gourlay) (Gonatopodinae)

—New Zealand (**Valentine & Walker**: 1991, **Sulix tasmanii* (Muir), ***Gonatopus zealandicus* Olmi) (the authors have attributed for mistake the hosts of *Gonatopus alpinus* (Gourlay) to *Gonatopus zealandicus* Olmi and vice versa)

Syndelphax capellana (Jacobi)

Gonatopus harteni (Olmi) (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 1997, **Syndelphax capellanus* (Jacobi). **Olmi**: 2006, **S. capellanus* (Jacobi))

Gonatopus vannoorti Olmi (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 1997, **Syndelphax capellanus* (Jacobi). **Olmi**: 2006, **S. capellanus* (Jacobi))

Haplogonatopus katangae (Benoit) (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 2007, **Syndelphax nigricaudata* (Muir))

Syndelphax sp.

Gonatopus vannoorti Olmi (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 2007, **Syndelphax* n. sp. (Asche in press))

Tagosodes orizicolus (Muir)

Gonatopus chilensis Olmi (Gonatopodinae)

—Colombia (**Guglielmino & Olmi**: 1997, ** misid. *Gonatopus flavoides* Olmi)

—Perú (**Guglielmino & Olmi**: 2006)

Gonatopus morenoi (Olmi) (Gonatopodinae)

—Colombia (**Guglielmino & Olmi**: 1997)

Haplogonatopus hernandezae Olmi (Gonatopodinae)

—Colombia (**Olmi**: 1984, **Sogatodes oryzicola*. **Hernández**: 1984, **S. oryzicola* Muir. **Hernandez & Bellotti**: 1984, **S. orizicola* (Muir). **Virla & Olmi**: 1998b. **Virla**: 2000a)

—Costa Rica (**Olmi**: 1984, **Sogatodes oryzicola*. **Virla & Olmi**: 1998b)

—Panama (**Fiori**: 1984, **Sogatodes oryzicola*. **Virla & Olmi**: 1998b)

—Perú (**Guglielmino & Olmi**: 2006)

Tagosodes pusanus (Distant)

Gonatopus nigricans (Perkins) (Gonatopodinae)

—India (**Pruthi & Mani**: 1942, **Sogata pusana* Distant, ***Pseudogonatopus sogatea* Rohwer)

Tarophagus proserpina (Kirkaldy)

Echthrodolphax fairchildii Perkins (Gonatopodinae)

—Taiwan (**Guglielmino & Olmi**: 1997)

Haplogonatopus apicalis Perkins (Gonatopodinae)

—Taiwan (**Guglielmino & Olmi**: 1997)

Haplogonatopus oratorius (Westwood) (Gonatopodinae)

—Mariana Islands (**Guglielmino & Olmi**: 1997)

Toya attenuata Distant

Gonatopus nudus (Perkins) (Gonatopodinae)

—Philippines (**Olmi**: 1984, ***Pseudogonatopus sarawaki* Móczár)

Toya ceresensis (Muir)

Gonatopus acutus (Olmi) (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 2007)

Gonatopus amoenus Olmi (Gonatopodinae)

—South Africa (**Guglielmino & Olmi**: 2007)

Toya ibiturca Asche

Gonatopus camelinus Kieffer (Gonatopodinae)

—Turkey (**Olmi**: 1989, ***Pseudogonatopus camelinus* (K.))

Gonatopus dromedarius (A. Costa) (Gonatopodinae)

—Turkey (**Olmi**: 1989, ***Pseudogonatopus albosignatus* (K.))

Toya tuberculosa (Distant)

Gonatopus acutus (Olmi) (Gonatopodinae)

—South Africa (Olmi: 2004a)

Gonatopus amoenus Brues (Gonatopodinae)

—South Africa (Olmi: 2006)

Gonatopus azorensis (Olmi) (Gonatopodinae)

—Azores Islands (Olmi: 1991, **Toya tuberosa* Distant, ***Pseudogonatopus azorensis* Olmi)

Unkanodes albifascia (Matsumura)

Haplogonatopus oratorius (Westwood) (Gonatopodinae)

—Japan (Kitamura: 1989a, ***Haplogonatopus atratus* Es. & Hash.)

Unkanodes excisa (Melichar)

Gonatopus bicolor (Haliday) (Gonatopodinae)

—Finland (Lindberg: 1950, **Calligypona excisa* Mel., ***Gonatopus bicolor* West.. Olmi: 1984, ***Dicondylus bicolor* (Haliday). Waloff & Jervis: 1987, ***D. bicolor* (Haliday))

—Poland (Germany in Haupt: 1916, **Delphax excisus* Mel., ***Gonatopus decretorius* Hpt.) (this record was attributed to Germany also by Olmi: 1984, ***Dicondylus bicolor* (Haliday), Waloff & Jervis: 1987, ***D. bicolor* (Haliday) and Guglielmino & Olmi: 1997, but Haupt's record was from Swinemünde, which is now in Poland)

—"Russia" (Ponomarenko: 1978, **Delphacodes excisus* Mel., ***Dicondylus bicolor* Haliday) (it is not clear if the Ponomarenko record is related to Russia or to West Europe after Haupt, 1916a, or Lindberg, 1950)

Gonatopus helleni (Raatikainen) (Gonatopodinae)

—Finland (Raatikainen: 1961, **Calligypona excisa* (Mel.), ***Dicondylus helleni* Raatik.. Olmi: 1984, ***Dicondylus dichromus* (K.). Waloff & Jervis: 1987, ***D. dichromus* (K.))

Xanthodelphax straminea (Stål)

Gonatopus formiciculus (Richards) (Gonatopodinae)

—Italy (Currado & Olmi: 1974b, ***Donisthorpina formicicola* Richards. Olmi: 1984, **Xanthodelphax stramineus* (Stål), **misid. *D. pallida* (Ceb.). Waloff & Jervis: 1987, **X. stramineus* (Stål), **misid. *D. pallida* (Ceb.). Guglielmino & Olmi: 1997, **X. stramineus* (Stål))

Gonatopus helleni (Raatikainen) (Gonatopodinae)

—Netherlands (Fiori: 1984, **Xanthodelphax stramineus* (Stål), ***Dicondylus dichromus* (K.).

Guglielmino & Olmi: 1997, **X. stramineus* (Stål))

Kelisiinae

Kelisia sabulicola Wagner

Gonatopus pallidus (Ceballos) (Gonatopodinae)

—Sweden (Olmi: 1994c: record related to Sweden)

Stenocraninae

Stenocranus dorsalis (Fitch)

Gonatopus stenocrani (Perkins) (Gonatopodinae)

—USA (R.C.L. Perkins: 1906b, ***Pseudogonatopus stenocrani* Perkins. Freytag: 1978, ***P. stenocrani* Perkins. Olmi: 1984, ***P. stenocrani* Perkins)

Stenocranus sp.

Gonatopus nudus (Perkins) (Gonatopodinae)

—Philippines (**Chandra:** 1978a, 1980, ***Pseudogonatopus nudus* Perkins. **Olmi:** 1984, ***P. nudus* Perkins)

Haplogonatopus apicalis Perkins (Gonatopodinae)

—Philippines (**Chandra:** 1978a, 1978b, ***Haplogonatopus* sp. 1)

"*Stenocranus*" sp.

Gonatopus nigricans (Perkins) (Gonatopodinae)

—Australia (**R.C.L. Perkins:** 1906b, *Delphacid near *Stenocranus*, ***Pseudogonatopus melanacrias* Perkins. **Olmi:** 1984, *Delphacidae near *Stenocranus*, ***Pseudogonatopus nigricans* (Perkins))

Haplogonatopus vitiensis Perkins (Gonatopodinae)

—Fiji Islands (**R.C.L. Perkins:** 1906b, *Delphacid near *Stenocranus*)

DICTYOPHARIDAE

Dictyopharinae

Dictyophara europaea (Linnaeus)

Dryinus collaris (Linnaeus) (Dryininae)

—Citation of *D. collaris* by Olmi, 1984 (p.1838) is erroneus, because related to *D. tarraconensis* Marsh.

Dryinus tarraconensis Marshall (Dryininae)

—France (**Pillault:** 1951. **Olmi:** 1984. **Waloff & Jervis:** 1987)

—Italy (**Olmi:** 1999)

—Poland (Germany in **Haupt:** 1937, 1938, **Fulgora europaea* L., ***Lestodryinus bidens* Hpt.. Germany in **Richards:** 1939, **F. europaea* L., **misid. *Dryinus formicarius* Latreille) (this record was attributed to Germany also by **Olmi:** 1984 and **Waloff & Jervis:** 1987, but Haupt's record was from Bellinchen (= Bielinek), which is now in Poland)

Dictyophara multireticulata Mulsant & Rey

Gonatopus baeticus (Ceballos) (Gonatopodinae)

—Italy (!)

Dictyophara pannonica (Germar)

Dryinus tarraconensis Marshall (Dryininae)

—Hungary (**Olmi:** 1999)

Gonatopus baeticus (Ceballos) (Gonatopodinae)

—Hungary (!)

Dorimargus antoniae Melichar

Gonatopus fritzi (Olmi) (Gonatopodinae)

—Argentina (!)

Eudictya similis Melichar

Gonatopus fritzi (Olmi) (Gonatopodinae)

—Argentina (!)

Hasta hastata Kirkaldy

Dryinus leptias (Perkins) (Dryininae)

—Australia (**R.C.L. Perkins:** 1906b, **Hasta hastata*, ***Paradryinus leptias* Perkins. **Olmi:** 1984, **H. hastata*)

Philotheria talassio Fennah

Dryinus zambeziacus Olmi (Dryininae)

—Mozambique (**Olmi**: 2004a)

Phylloscelis atra Germar

Gonatopus arizonicus (Perkins) (Gonatopodinae)

—USA (**Guglielmino & Olmi**: 1997)

Thanatodictya sp.

Dryinus stantoni Ashmead (Dryininae)

—Indonesia (**R.C.L. Perkins**: 1912, ***Paradryinus javanus* Perkins. **Olmi**: 1984)

FLATIDAE

Flatinae

Anormenis septentrionalis (Spinola)

Neodryinus typhlocybae (Ashmead) (Gonatopodinae)

—USA (**Ashmead**: 1903, **Ormenis septentrionalis*, ***Dryinus ormenidis* Ashm. and ***Gonatopus typhlocybae* Ashm.. **Swezey**: 1903, **O. septentrionalis* Spin., ***D. ormenidis* Ashm. and ***Labeo typhlocybae* Ashm.. **R.C.L. Perkins**: 1906b, 1907, **O. septentrionalis*, ***Neodryinus arizonicus* Perkins. **Olmi**: 1984, **O. septentrionalis* (Spin.))

Colgar peracutus (Walker)

Neodryinus koebelei Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b. **Olmi**: 1984)

Neodryinus nelsoni Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b. **Olmi**: 1984)

Colgar sp.

Dryinus koebelei (Perkins) (Dryininae)

—Australia (**R.C.L. Perkins**: 1906b, ***Paradryinus koebelei* Perkins. **Olmi**: 1984)

Dryinus leptias (Perkins) (Dryininae)

—Australia (**Thompson**: 1955, ***Paradryinus leptias* Perkins. **Olmi**: 1984)

Dryinus venator (Perkins) (Dryininae)

—Australia (**R.C.L. Perkins**: 1906b, ***Paradryinus threnodes* Perkins. **Olmi**: 1984)

Colgaroides acuminata (Walker)

Dryinus australianus Olmi (Dryininae)

—Australia (**Guglielmino & Olmi**: 1997, **Colgaroides* sp.)

Neodryinus koebelei (Perkins) (Gonatopodinae)

—Australia (!)

Cyarda sordida Fennah

Gonatopus testaceus Cameron (Gonatopodinae)

—USA (**Olmi**: 2003)

Cyphopterus adscendens (Herrich-Schäffer)

Gonatopus albosignatus Kieffer (Gonatopodinae)

—Spain (**Olmi**: 1987a, 1989a, ***Pseudogonatopus albosignatus* (K.); 2004b. **Guglielmino & Olmi**: 1997
**misid. *Gonatopus dromedarius* (A. Costa))

Flatida marginella (Olivier)

Dryinus indicus (Kieffer) (Dryininae)

—India (**Kieffer**: 1914a, **Phromnia marginella*, ***Mesodryinus indicus* K.. **Olmi**: 1984, **P. marginella*)

Flatormenis chloris (Melichar)

Gonatopus testaceus Cameron (Gonatopodinae)

—USA (**Olmi**: 2003)

Gonatopus torvus (Perkins) (Gonatopodinae)

—USA (**Lucchi & Wilson**: 2003, **Anormenis chloris* (Melichar))

Neodryinus typhlocybae (Ashmead) (Gonatopodinae)

—USA (**Guglielmino & Olmi**: 1997, **Anormenis chloris* (Melichar))

Thaumatomydryinus danieli Olmi (Dryininae)

—USA (**Olmi**: 1996b, **Guglielmino & Olmi**: 1997, **Anormenis chloris* (Melichar))

Geisha distinctissima (Walker)

Dryinus indicus (Kieffer) (Dryininae)

—Japan (Ryukyu Islands) (**Mita**: 2009b)

Gonatopus hageromo Terayama & Ohbayashi (Gonatopodinae)

—Japan (Ogasawara Islands) (**Terayama & Ohbayashi**: 2003)

Thaumatomydryinus alienus Olmi (Dryininae)

—Japan (Ryukyu Islands) (**Mita**: 2009b)

Lawana candida (Fabricius)

Neodryinus javanus (Roepke) (Gonatopodinae)

—Indonesia (**Roepke**: 1916, ***Phanerodryinus javanus* Roepke)

—Malaysia (erroneous record) (**Olmi**: 1984, Malaya) (this record is erroneous because quoted for mistake in Malaysia by Olmi (1984). Olmi's record was related to Indonesia (Roepke 1916))

Lawana conspersa (Walker)

Neodryinus javanus (Roepke) (Gonatopodinae)

—Malaysia (**Richards**: 1953, ***Neodryinus lawanae* Richards. **Olmi**: 1984)

Massila sp.

Dryinus koebelei (Perkins) (Dryininae)

—Australia (**R.C.L. Perkins**: 1906b, ***Paradryinus koebelei* Perkins. **Olmi**: 1984)

Dryinus venator (Perkins) (Dryininae)

—Australia (**R.C.L. Perkins**: 1906b, ***Paradryinus venator* Perkins. **Olmi**: 1984)

Neodryinus koebelei Perkins (Gonatopodinae)

—Australia (**Thompson**: 1955. **Olmi**: 1984)

Neodryinus nelsoni Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Neodryinus raptor* Perkins. **Olmi**: 1984)

Metcalfa pruinosa (Say)

Gonatopus testaceus Cameron (Gonatopodinae)

—USA (**Olmi**: 2003)

Neodryinus typhlocybae (Ashmead) (Gonatopodinae)

—Croatia: introduced for biological control (**Ciglar et al.**: 1998)

—France: introduced for biological control (**Malausà et al.**: 2003a)

—Gibraltar (!!)

—Greece: introduced for biological control (**Strauss**: 2009)

—Italy: introduced for biological control from the USA (**Girolami & Camporese**: 1994; **Guglielmino & Bückle**: 2003)

—Netherlands: introduced for biological control (**Strauss**: 2009)

—Slovenia: introduced for biological control (**Zežlina et al.**: 2001)

- Spain: introduced for biological control (**Strauss: 2009**)
- Switzerland: introduced for biological control (**Jermine et al.: 1999**)
- USA (**Ashmead: 1903**, **Ormenis pruinosa* Say, ***Dryinus ormenidis* Ashm., **R.C.L. Perkins: 1906a, 1906b** **O. pruinosa*, ***D. ormenidis* Ashm, **Olmi: 1984**, **Metcalfa* (= *Ormenis*) *pruinosa* (Say))
- Thaumatomydryinus danieli* Olmi** (Dryininae)
- USA (**Olmi: 1996b. Guglielmino & Olmi: 1997**)

***Metcalfa regularis* (Fowler)**

- Neodryinus typhlocybae* (Ashmead)** (Gonatopodinae)
- USA (**Guglielmino & Olmi: 1997**)
- Thaumatomydryinus danieli* Olmi** (Dryininae)
- USA (**Olmi: 1996b. Guglielmino & Olmi: 1997**)

***Mistharnophantia sonorana* Kirkaldy**

- Dryinus alatus* (Cresson)** (Dryininae)
- USA (**R.C.L. Perkins: 1907**, ***Hesperodryinus arizonicus* Perkins. **Olmi: 1984**)
- Gonatopus torvus* (Perkins)** (Gonatopodinae)
- USA (**R.C.L. Perkins: 1907**, ***Apterodryinus torvus* Perkins. **Olmi: 1984**, ***A. torvus* Perkins)

***Ormenaria rufifascia* (Walker)**

- Neodryinus floridensis* Olmi** (Gonatopodinae)
- USA (**Guglielmino & Olmi: 2006**)

***Ormenis* sp.**

- Dryinus ruficauda* (Richards)** (Dryininae)
- Trinidad (**Olmi: 1984**, ***Tridryinus ruficauda* (Richards))
- Megadryinus magnificus* Richards** (Dryininae)
- Trinidad (**Richards: 1953. Olmi: 1984**)
- Neodryinus trinitatis* Richards** (Gonatopodinae)
- Trinidad (**Richards: 1951. Olmi: 1984**)
- Thaumatomydryinus rufus* Richards** (Dryininae)
- Trinidad (**Richards: 1951. Olmi: 1984**)

***Paranotus rufilineus* (Walker)**

- Dryinus spangleri* Olmi** (Dryininae)
- Mozambique (**Olmi: 2004a**)

***Paroxychara cowla* Medler**

- Dryinus orophilus* (Benoit)** (Dryininae)
- Mozambique (**Olmi: 1998b**, **Paroxychara* sp., **Guglielmino & Olmi: 2006**)
- Gonatopus gazensis* Olmi** (Gonatopodinae)
- Mozambique (**Olmi: 1998b**, **Paroxychara* sp., **Guglielmino & Olmi: 2006**)

***Phantiopsis* sp.**

- Dryinus koebelei* (Perkins)** (Dryininae)
- Australia (**R.C.L. Perkins: 1906b**, *"Aphanophantia", ***Paradryinus koebelei* Perkins. **Olmi: 1984**, ***Phantiopsis* (= *Aphanophantia*) sp.)
- Neodryinus nelsoni* Perkins** (Gonatopodinae)
- Australia (**R.C.L. Perkins: 1906b**, **Aphanophantia*, ***Neodryinus raptor* Perkins. **Olmi: 1984**, **Phantiopsis* (= *Aphanophantia*) sp.)

***Poekilloptera phalaenoides* (Linnaeus)**

***Dryinus poecilopterae* (Richards) (Dryininae)**

—Colombia (**Fiori:** 1984, ***Tridryinus poecilopterae* (Richards). **Abril:** 1992, ***T. poecilopterae* (Richards).

—Trinidad (**Richards:** 1947, **Poeciloptera phalaenoides* (L.), ***Mesodryinus poecilopterae* Richards.

Olmi: 1984, **Poekilloptera* (= *Poeciloptera*) *phalaenoides* (L.), ***Tridryinus poecilopterae* (Richards))

—Venezuela (**Teran:** 1980, ***Mesodryinus* sp.. **Olmi:** 1984, ***Tridryinus poecilopterae* (Richards))

***Poekilloptera phalaenoides jacobiana* Metcalf**

***Dryinus poecilopterae* (Richards) (Dryininae)**

—El Salvador (**Richards:** 1953, **Poeciloptera vulgaris* var. *completa* Jac., ***Mesodryinus poecilopterae* Richards. **Olmi:** 1984, **Poeciloptera completa* Jac., ***Tridryinus poecilopterae* (Richards). **Guglielmino**

& Olmi: 1997, **Poekilloptera jacobiana* Metcalf)

***Poekilloptera* sp.**

***Dryinus poecilopterae* (Richards) (Dryininae)**

—Brazil (**Guglielmino & Olmi:** 2006)

***Sephena* sp.**

***Neodryinus nelsoni* Perkins (Gonatopodinae)**

—Australia (**R.C.L. Perkins:** 1906b, ***Neodryinus raptor* Perkins. **Olmi:** 1984)

***Siphanta acuta* (Walker)**

***Dryinus koebelei* (Perkins) (Dryininae)**

—New Zealand (**Olmi:** 2007)

"*Siphanta*" sp.

***Dryinus koebelei* (Perkins) (Dryininae)**

—Australia (**R.C.L. Perkins:** 1906b, *"Siphanta", ***Paradryinus koebelei* Perkins. **Olmi:** 1984)

***Dryinus pallidus* (Perkins) (Dryininae)**

—Australia (**R.C.L. Perkins:** 1906b, **Siphanta* ?, ***Chlorodryinus pallidus* Perkins. **Olmi:** 1984)

***Dryinus venator* (Perkins) (Dryininae)**

—Australia (**R.C.L. Perkins:** 1906b, ***Paradryinus venator* Perkins, ***Paradryinus threnodes* Perkins and ***Paradryinus varipes* Perkins. **Olmi:** 1984)

***Neodryinus nelsoni* Perkins (Gonatopodinae)**

—Australia (**R.C.L. Perkins:** 1906b, ***Neodryinus raptor* Perkins. **Olmi:** 1984)

***Thaumatomydryinus koebelei* Perkins (Dryininae)**

—Australia (**R.C.L. Perkins:** 1906b. **Olmi:** 1984)

FULGORIDAE

Aphaeninae

***Lycorma delicatula* (White)**

***Dryinus stantoni* Ashmead (Dryininae)**

—P.R. China (**Yang:** 1994, ***Dryinus lycormae* Yang)

Zanninae

***Zanna dohrni* (Stål)**

***Dryinus browni* Ashmead (Dryininae)**

—Sri Lanka (**Olmi:** 1984, **Zanna* (= *Pyrops*) *dohrni*)

ISSIDAE

Issinae

Agalmatium flavescens (Olivier)

Dryinus corsicus Marshall (Dryininae)

—France (**Olmi**: 1984, **Hysteropterum flavescens* (Ol.) (= *grylloides* F.), ***Richardsidryinus corsicus* (Marsh.). **Waloff & Jervis**: 1987, **H. flavescens* (Ol.), ***R. corsicus* (Marsh.))

Agalmatium cf. *flavescens* (Olivier)

Dryinus corsicus (Marshall) (Dryininae)

—Italy (!!)

Hysteropterum schaefferi Metcalf

Dryinus corsicus Marshall (Dryininae)

—France (**Guglielmino & Olmi**: 1997)

Dryinus sanderi Olmi (Dryininae)

—France (**Guglielmino & Olmi**: 1997)

Hysteropterum sp.

Dryinus corsicus Marshall (Dryininae)

—France (**Abdul-Nour**: 1976, ***Richardsidryinus corsicus* (Marsh.))

Gonatopus longicollis (Kieffer) (Gonatopodinae)

—Spain (**Olmi**: 1996a)

Issus coleoptratus (Fabricius)

Dryinus collaris (Linnaeus) (Dryininae)

—Italy (**Olmi**: 1976, ***Dryinus formicarius* Latr.; 1984. **Waloff & Jervis**: 1987)

Dryinus sanderi Olmi (Dryininae)

—Italy (**Guglielmino & Olmi**: 1997)

Gonatopus dromedarius (A. Costa) (Gonatopodinae)

—France (**Olmi**: 1996a)

Issus sp.

Dryinus balearicus Olmi (Dryininae)

—Spain (!)

Gonatopus europaeus (Olmi) (Gonatopodinae)

—Lebanon (**Lahoud**: 1988, ***Apterodryinus hani* Lahoud)

Gonatopus longicollis (Kieffer) (Gonatopodinae)

—France (**Guglielmino & Olmi**: 1997)

Latematium latifrons (Fieber)

Dryinus sanderi Olmi (Dryininae)

—Bulgaria (**Olmi**: 1984, **Hysteropterum latifrons*. **Waloff & Jervis**: 1987, **H. latifrons*)

Gonatopus dromedarius (A. Costa) (Gonatopodinae)

—Greece (**Olmi**: 1987a, 1989a, ***Pseudogonatopus albosignatus* (K.); 1996)

Latissus dilatatus (Fourcroy)

Dryinus collaris (Linnaeus) (Dryininae)

—Italy (**Guglielmino & Olmi**: 1997)

Scorlupaster asiaticum (Lethierry)

Dryinus corsicus Marshall (Dryininae)

—Kazakhstan (**Guglielmino & Olmi**: 2006, **Hysteropterum asiaticum* Lethierry)

Sivaloka damnosus Chou & Lu

Dryinus latus Olmi (Dryininae)

—P.R. China (**Guglielmino & Olmi**: 2006)

Tshurtshurnella moreana Dlabola

Gonatopus europaeus (Olmi) (Gonatopodinae)

—Greece (**Olmi**: 1986, **Ishurtshurnella moreana* Dlab., ***Apterodryinus europaeus* Olmi; 1989a, ***A. europaeus* Olmi)

LOPHOPIDAE

Lophopinae

Elasmoscelis cimicoides Spinola

Dryinus orophilus (Benoit) (Dryininae)

—Mozambique (**Guglielmino & Olmi**: 2006)

Dryinus undulatus (Benoit) (Dryininae)

—Mozambique (**Olmi**: 2004a)

Pyrilla aberrans (Kirby)

Dryinus pyrillae (Kieffer) (Dryininae)

—India (**Kurian**: 1954, **Pyrilla aberrans*, ***Lestodryinus pyrillae* K.. **Olmi**: 1984, ***Richardsidryinus pyrillae* (K.))

Pyrilla perpusilla (Walker)

Dryinus indicus (Kieffer) (Dryininae)

—Bangladesh (**Fiori**: 1984)

Dryinus pyrillae (Kieffer) (Dryininae)

—India (**Rahman & Nath**: 1940, ***Lestodryinus pyrillae* K.. **Kurian**: 1954, ***L. pyrillae* K.. **Subba Rao**: 1957, ***L. pyrillae* K.. **Asre et al.**: 1983, ***L. pyrillae* K.. **Dhaliwal & Bains**: 1983, ***L. pyrillae* K.. **Olmi**: 1984, ***Richardsidryinus pyrillae* (K.))

Dryinus pyrillivorus Olmi (Dryininae)

—Pakistan (!)

—Sri Lanka (!)

Pyrilla pusana Distant

Dryinus pyrillae (Kieffer) (Dryininae)

—India (**Kurian**: 1954, ***Lestodryinus pyrillae* K.. **Olmi**: 1984, ***Richardsidryinus pyrillae* (K.))

Pyrilla sp.

Dryinus indicus (Kieffer) (Dryininae)

—India (**Pruthi & Mani**: 1942, ***Chlorodryinus pallidus* Perkins. **Olmi**: 1984)

Dryinus pyrillae (Kieffer) (Dryininae)

—India (**Kieffer**: 1911a, 1914b, ***Lestodryinus pyrillae* K.. **Pruthi & Mani**: 1942, ***L. pyrillae* K.. **Olmi**: 1984, ***Richardsidryinus pyrillae* (K.))

Dryinus pyrillivorus Olmi (Dryininae)

—India (**Olmi**: 1986)

Dryinus scaber Olmi (Dryininae)

—India (**Olmi**: 1986)

Gonatopus pyrillae (Mani) (Gonatopodinae)

—India (**Mani**: 1942, ***Pseudogonatopus pyrillae* Mani. **Olmi**: 1984, ***Agonatopoides pyrillae* (Mani))

MEENOPLIDAE

Kermesiinae

Nisia nervosa (Motschulsky)

Gonatopus festivus Olmi (Gonatopodinae)

—Mozambique (**Olmi**: 1994b)

Gonatopus maputensis Olmi (Gonatopodinae)

—Mozambique (**Olmi**: 1994b, ***Paradicondylus australis* Olmi)

RICANIIDAE

Privesa sp.

Dryinus venator (Perkins) (Dryininae)

—Australia (**R.C.L. Perkins**: 1906b, ***Paradryinus venator* Perkins. **Olmi**: 1984)

Neodryinus nelsoni Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Neodryinus raptor* Perkins. **Olmi**: 1984)

Ricania insularis Lallemand

Dryinus afer (Olmi) (Dryininae)

—São Tomé (**Olmi**: 1975, ***Paradryinus afer* Olmi)

Ricania sp.

Neodryinus pseudodiffusus Olmi (Gonatopodinae)

—India (**Guglielmino & Olmi**: 1997)

Scolypopa aphrophoroides (Walker)

Dryinus venator (Perkins) (Dryininae)

—Australia (**Thompson**: 1955, **Privesa aphrophoroides* Walker, ***Paradryinus venator* Perkins. **Olmi**: 1984)

Neodryinus nelsoni Perkins (Gonatopodinae)

—Australia (**Thompson**: 1955, **Privesa aphrophoroides* Walker, ***Neodryinus raptor* Perkins. **Olmi**: 1984)

Scolypopa australis (Walker)

Neodryinus nelsoni Perkins (Gonatopodinae)

—Australia (**Guglielmino & Olmi**: 1997)

Scolypopa sp.

Neodryinus nelsoni Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Neodryinus raptor* Perkins. **Olmi**: 1984)

TROPIDUCHIDAE

Catulliini

Numicia viridis Muir

Dryinus erraticus (Turner) (Dryininae)

- South Africa (**Carnegie:** 1975, ***Dryinus* sp. (possibly *D. erraticus* Turner). **Olmi:** 1984, ***Richardsidryinus erraticus* (Turner))
 —Swaziland (!!)

Gaetuliini

Gaetulia sp.

- Neodryinus nelsoni* Perkins (Gonatopodinae)
 —Australia (**R.C.L. Perkins:** 1906b, ***Neodryinus raptor* Perkins. **Olmi:** 1984)

Tambiniini

Kallitaxila sp.

- Gonatopus haboromo* Terayama & Ohbayashi (Gonatopodinae)
 —Japan (Ogasawara Islands) (**Mita & Olmi:** 2013)

Tambinia debilis Stål

- Gonatopus tambinia* (Esaki & Hashimoto) (Gonatopodinae)
 —Japan (**Esaki & Hashimoto:** 1935, ***Apterodryinus tambinia* Es. & Hash.. **Olmi:** 1984, ***A. tambinia* Es. & Hash.)

Tropiduchini

Vanua respicienda vitiensis Kirkaldy

- Gonatopus kiefferi* (Perkins) (Gonatopodinae)
 —Fiji Islands (**Perkins:** 1906a, 1906b, **Vanua vitiensis* Kirkaldy, ***Pseudogonatopus kiefferi* Perkins. **Olmi:** 1984, **V. vitiensis* Kirkaldy, ***Dicondylus kiefferi* (Perkins))

Trypetimorphini

Ommatissus lybicus De Bergevin

- Bocchus hyalinus* Olmi (Bocchinae)
 —Oman (**Guglielmino & Olmi:** 2007)

CICADOMORPHA

CICADELLIDAE

Aphrodinae

Aphrodini

Aphrodes bicincta (Schrank)

- Gonatopus bilineatus* Kieffer (Gonatopodinae)
 —France (**Abdul-Nour:** 1976, **Aphrodes bicinctus* Schrk., ***Neogonatopus glaber* (K.). **Olmi:** 1984, **A. bicinctus* Schrk.. **Freytag:** 1985, **A. bicinctus* (Schrk.), ***Gonatopus glaber* K.. **Waloff & Jervis:** 1987, **A. bicinctus* (Schrk.))
Gonatopus distinctus Kieffer (Gonatopodinae)
 —Finland (erroneous record) (**Lindberg:** 1950, **Aphrodes bicinctus* Schrk. and **Aphrodes nervosus*, ***Gonatopus separatus* Richards and ***Pseudogonatopus distinctus* (K.). **Freytag:** 1985, **A. bicinctus*

Schrk., ***G. separatus* Richards) (this record is erroneous because *Gonatopus distinctus* (= *separatus*) parasitizes Delphacidae and not Cicadellidae)

Gonatopus striatus Kieffer (Gonatopodinae)

—Great Britain (**Waloff:** 1975, **Aphrodes bicinctus* (Schrk.), ***Plectrogonatopus richardsi* Móczár.

Olmi: 1984. **Freytag:** 1985, **A. bicinctus* (Schrk.), ***Gonatopus richardsi* (Móczár) and ***Gonatopus straitus* K.. **Waloff & Jervis:** 1987, **A. bicinctus* (Schrk.))

Aphrodes sp.

Gonatopus striatus Kieffer (Gonatopodinae)

—Great Britain (**Richards:** 1948, ***Plectrogonatopus striatus* (K.). **Freytag:** 1985. **Waloff & Jervis:** 1987)

Cicadellinae

Cicadellini

Plesiommata mollicella Fowler

Gonatopus desantisi Olmi & Virla (Gonatopodinae)

—Argentina (!)

Gonatopus silvestrii Kieffer (Gonatopodinae)

—Argentina (**Virla & Olmi:** 2007a, **Plesiomatta mollicella* (Fowler))

Xyphon sagittifera (Uhler)

Esagonatopus perdebilis (Perkins) (Gonatopodinae)

—Mexico (**Guglielmino & Olmi:** 2006)

Coelidiinae

Coelidiini

Coelidia sp.

Gonatopus hermosensis Virla & Olmi (Gonatopodinae)

—Argentina (**Virla & Olmi:** 2008)

Deltocephalinae

Athysanini

"*Arawa variegata*" Knight

Gonatopus zealandicus Olmi (Gonatopodinae)

—New Zealand (**Valentine & Walker:** 1991, ***Dicondylus alpinus* (Gourlay)) (the authors have attributed for mistake the hosts of *Gonatopus alpinus* (Gourlay) to *Gonatopus zealandicus* Olmi and vice versa)

Artianus manderstjernii (Kirschbaum)

Gonatopus lunatus Klug (Gonatopodinae)

—Greece (**Olmi:** 1989, **Artianus manderstjernai* (Kbm.))

Atanus viridis Linnavuori

Gonatopus contortus Olmi (Gonatopodinae)

—Argentina (!)

Athysanus sp.

Gonatopus australiae Perkins (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Gonatopus koebelei* Perkins. **Olmi**: 1984. **Freytag**: 1985, **Euscelis* sp., ***G. koebelei* Perkins)

Gonatopus melanias (Perkins) (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Pachygonatopus melanias* Perkins. **Olmi**: 1984, **Freytag**: 1985, **Euscelis* sp.)

Gonatopus mysorensis Olmi (Gonatopodinae)

—India (**Olmi**: 1984)

Gonatopus schenklingi Strand (Gonatopodinae)

—India (**Olmi**: 1984)

Brachypterona grisea Lindberg

Gonatopus atlanticus Olmi (Gonatopodinae)

—Canary Islands (**Olmi**: 1992)

Condylotes zachvatkini Emeljanov

Gonatopus distinguendus Kieffer (Gonatopodinae)

—Kazakhstan (**Guglielmino & Olmi**: 2006)

Conosanus obsoletus (Kirschbaum)

Gonatopus pedestris Dalman (Gonatopodinae)

—Great Britain (**Butler**: 1902, **Athysanus obsoletus*)

Lonchodryinus ruficornis (Dalman) (Anteoninae)

—Great Britain (**Waloff**: 1974, **Euscelis obsoletus* (Kbm.), ***Prenanteon basalis* (Dalm.); 1975, **E. obsoletus* (Kbm.), ***P. basalis* (Dalm.) and ***Prenanteon daos* (Walker). **Olmi**: 1984, **E. obsoletus* (Kbm.). **Freytag**: 1985, **E. obsoletus* (Kbm.). **Waloff & Jervis**: 1987, **Conosamus obsoletus* (Kbm.))

Euleimonios sp.

Anteon coriaceum (Perkins) (Anteoninae)

—Australia (**R.C.L. Perkins**: 1906b, ***Neochelogyne coriaceus* Perkins. **Olmi**: 1984. **Freytag**: 1985, **Macrosteles* sp., ***Anteon coriaceus* (Perkins)

Anteon parvulum (Perkins) (Anteoninae)

—Australia (**R.C.L. Perkins**: 1906b, *"*Euleimonios*", ***Neochelogyne parvulus* Perkins. **Olmi**: 1984. **Freytag**: 1985, **Macrosteles* sp., ***Anteon parvulus* (Perkins))

Gonatopus melanias (Perkins) (Gonatopodinae)

—Australia (**R.C.L. Perkins**: 1906b, ***Pachygonatopus melanias* Perkins. **Olmi**: 1984. **Freytag**: 1985, **Macrosteles* sp.)

Gonatopus vitiensis (Perkins) (Gonatopodinae)

—Australia (erroneous record) (**Freytag**: 1985, **Macrosteles* sp.) (this record is erroneous, because based on a R.C.L. Perkins (1906b) quotation related to the Fiji Islands and not to Australia)

—Fiji Islands (**R.C.L. Perkins**: 1906b, ***Neogonatopus vitiensis* Perkins. **Olmi**: 1984, ***Acrodonchelys vitiensis* (Perkins))

Euscelidius variegatus (Kirschbaum)

Gonatopus atlanticus Olmi (Gonatopodinae)

—Morocco (**Guglielmino & Olmi**: 1997)

Gonatopus clavipes (Thunberg) (Gonatopodinae)

—Azores Islands (**Guglielmino & Olmi**: 1997)

—Italy (**Alma & Arzone**: 1994, ***Gonatopus sepsoides* West.)

Gonatopus lunatus Klug (Gonatopodinae)

—Azores Islands (**Guglielmino & Olmi**: 1997)

Euscelis alsius Ribaut

Gonatopus bilineatus Kieffer (Gonatopodinae)

—Spain (**Olmi**: 1989)

Gonatopus clavipes (Thunberg) (Gonatopodinae)

—Italy (**Guglielmino & Olmi**: 1997)

Euscelis distinguendus (Kirschbaum)

Gonatopus clavipes (Thunberg) (Gonatopodinae)

—Germany (**Müller**: 1960, ***Gonatopus sepsoides* West.)

Euscelis incisus (Kirschbaum)

Anteon pubicorne (Dalman) (Anteoninae)

—Great Britain (**Waloff**: 1974, 1975, **Euscelis plebejus* (Fall.), ***Anteon lucidum* (Haliday). **Olmi**:

1984, **E. plebejus* (Fall.). **Freytag**: 1985, **E. plebejus* (Fall.), ***A. lucidum* (Haliday). **Waloff & Jervis**: 1987)

Gonatopus clavipes (Thunberg) (Gonatopodinae)

—France (**Abdul-Nour**: 1976, **Euscelis plebejus* Fall., ***Gonatopus sepsoides* West.. **Olmi**: 1984, **E. plebejus* Fall., ***G. sepsoides* West.; 1989a, ***G. sepsoides* West.. **Freytag**: 1985, **E. plebejus* (Fall.), ***G. sepsoides* West.. **Waloff & Jervis**: 1987, ***G. sepsoides* West.)

—Germany (**Müller**: 1960, **Euscelis plebejus* Fall., ***Gonatopus sepsoides* West.. **Sander**: 1980, ***G. sepsoides* West.. **Olmi**: 1984, ***G. sepsoides* West.. **Waloff & Jervis**: 1987, ***G. sepsoides* West.)

—Great Britain (**Waloff**: 1980, **Euscelis plebejus* (Kbm.), ***Gonatopus sepsoides* West.. **Freytag**: 1985, **E. plebejus* (Fall.), ***G. sepsoides* West.. **Waloff & Jervis**: 1987, ***G. sepsoides* West.)

—Italy (**Waloff & Jervis**: 1987, ***G. sepsoides* West.. **Alma & Arzone**: 1994, ***G. sepsoides* West.)

—Romania (**Teodorescu**: 1982, ***Gonatopus sepsoides* West.)

Gonatopus lunatus Klug (Gonatopodinae)

—Germany (**Olmi**: 1984. **Waloff & Jervis**: 1987)

—Italy (**Alma & Arzone**: 1994)

Lonchodryinus ruficornis (Dalman) (Anteoninae)

—Great Britain (**Waloff**: 1974, **Euscelis plebejus* (Fall.), ***Prenanteon basalis* (Dalm.); 1975, **E.*

plebejus (Fall.), ***P. basalis* (Dalm.) and ***Prenanteon longicornis* (Dalm.). **Olmi**: 1984, **E. plebejus*.

Freytag: 1985, **E. plebejus* (Fall.). **Waloff & Jervis**: 1987)

Euscelis lineolatus Brullé

Gonatopus atlanticus Olmi (Gonatopodinae)

—Italy (**Olmi**: 1995a)

Gonatopus plumbeus Olmi (Gonatopodinae)

—Italy (**Olmi**: 1989, *misid. *Euscelis incisus stictopleurus* S.)

Gonatopus tussaci (Olmi) (Gonatopodinae)

—Italy (**Guglielmino & Olmi**: 1997)

Euscelis sp.

Gonatopus clavipes (Thunberg) (Gonatopodinae)

—Great Britain (**Waloff**: 1974, ***Gonatopus sepsoides* West.. **Waloff & Jervis**: 1987, ***G. sepsoides* West.)

—Italy (**Currado & Olmi**: 1972, ***Gonatopus sepsoides* West.. **Freytag**: 1985, ***G. sepsoides* West.. **Waloff & Jervis**: 1987, ***G. sepsoides* West.)

"*Eutettix*" sp.

Anteon nigricorne (Perkins) (Anteoninae)

—Australia (**R.C.L. Perkins**: 1906b, ***Neochelogyne nigricornis* Perkins. **Olmi**: 1984. **Freytag**: 1985, ***Anteon nigricornis* (Perkins))

Graphocraerus ventralis (Fallén)

Anteon tripartitum Kieffer (Anteoninae)

—France (**Olmi**: 1994a: record related to France)

—Italy (!)

Hardya anatolica Zachvatkin

Gonatopus clavipes (Thunberg) (Gonatopodinae)

—Greece (**Olmi**: 1989, ***Gonatopus sepsoides* West.)

Laburrus pellax (Horváth)

Gonatopus atlanticus Olmi (Gonatopodinae)

—Italy (!)

Streptanus sordidus (Zetterstedt)

Anteon pubicorne (Dalman) (Anteoninae)

—Great Britain (**Waloff**: 1974, 1975, ***Anteon lucidum* (Haliday). **Olmi**: 1984. **Freytag**: 1985, ***A. lucidum* (Haliday). **Waloff & Jervis**: 1987)

Gonatopus clavipes (Thunberg) (Gonatopodinae)

—Great Britain (**Waloff**: 1980, ***Gonatopus sepsoides*. **Freytag**: 1985, **"*G. sepsoides*" West.. **Waloff & Jervis**: 1987, ***G. sepsoides* West.)

Lonchodryinus ruficornis (Dalman) (Anteoninae)

—Poland (Germany in **Haupt**: 1941, **Euscelis sordidus* Zetterstedt, ***Prenanteon euscelisi* Hpt.) (this record was attributed to Germany also by **Olmi**: 1984 and **Waloff & Jervis**: 1987, but Haupt's record was from Bellinchen (= Bielinek), which is now in Poland)

Thamnotettix confinis Zetterstedt

Anteon tripartitum Kieffer (Anteoninae)

—Great Britain (erroneous record) (**Burn**: 1993) (the record of Burn (1993), reported by Guglielmino & Olmi (1997), is wrong. The nymph from which *Anteon tripartitum* was reared by Burn was identified erroneously (Burn, pers. comm.). Maybe the true host is a nymph of *Psammotettix* sp.)

Gonatopus clavipes (Thunberg) (Gonatopodinae)

—Finland (dubious record) (**Waloff & Jervis**: 1987, ***Gonatopus sepsoides* West.) (this record is dubious because the quotation for Finland cannot be attributed to any author, excluding Waloff & Jervis 1987 (for not-British records they report records of other authors))

Thamnotettix dilutior (Kirschbaum)

Gonatopus bilineatus Kieffer (Gonatopodinae)

—France (**Abdul-Nour**: 1976, ***Neogonatopus glaber* (K.). **Olmi**: 1984. **Freytag**: 1985, **Loepotettix dilutior* (Kbm.), ***Gonatopus glaber* K.. **Waloff & Jervis**: 1987)

Thamnotettix sp.

Gonatopus popovi Ponomarenko (Gonatopodinae)

—Russia (**Ponomarenko**: 1965; 1978. **Olmi**: 1984. **Waloff & Jervis**: 1987)

Bonaspeiini

Bonaspeia eriocephala (Cogan)

Gonatopus communis Olmi (Gonatopodinae)

—South Africa (**Olmi**: 2006)

Caffrolix cyclopia (Cogan)

Gonatopus operosus Olmi (Gonatopodinae)

—South Africa (**Guglielmino & Olmi: 2007**)

Colistra parvulus (Linnavuori)

Deinodryinus danielssoni Olmi (Anteoninae)

—South Africa (**Olmi: 2006**)

Colistra sp.

Gonatopus maritimus Olmi (Gonatopodinae)

—South Africa (**Guglielmino & Olmi: 2007**, **Colistra* n. sp. (Stiller, in press))

Chiasmini

Aconurella aethiopica (Cogan)

Gonatopus ridens Olmi (Gonatopodinae)

—Mozambique (**Olmi: 2004a**)

—South Africa (**Guglielmino & Olmi: 2007**)

Gonatopus vulgaris Olmi (Gonatopodinae)

—South Africa (**Guglielmino & Olmi: 2007**)

Aconurella compta (Naudé)

Deinodryinus paulyi (Olmi) (Anteoninae)

—Namibia (**Guglielmino & Olmi: 2007**)

Gonatopus cornutus (Benoit) (Gonatopodinae)

—Namibia (**Guglielmino & Olmi: 2007**)

Gonatopus fortis Olmi (Gonatopodinae)

—Namibia (**Guglielmino & Olmi: 2007**)

Gonatopus maritimus Olmi (Gonatopodinae)

—Namibia (**Guglielmino & Olmi: 2007**)

Gonatopus ochreus (Olmi) (Gonatopodinae)

—Namibia (**Guglielmino & Olmi: 2007**)

Aconurella proluxa (Lethierry)

Anteon abdunnouri Olmi (Anteoninae)

—Lebanon (**Olmi: 1987c**)

Gonatopus brunneicollis (Richards) (Gonatopodinae)

—Morocco (**Guglielmino & Olmi: 1997**)

Aconurella shaba Ghauri

Gonatopus ochreus (Olmi) (Gonatopodinae)

—Mozambique (**Guglielmino & Olmi: 2006**)

Gonatopus ridens Olmi (Gonatopodinae)

—Mozambique (**Olmi et al.: 2012**)

Chiasmus conspurcatus (Perris)

Gonatopus ater Olmi (Gonatopodinae)

—Turkey (**Olmi: 1989**)

Doratura homophyla (Flor)

Gonatopus formicarius Ljungh (Gonatopodinae)

—Hungary (**Guglielmino & Olmi: 2006**)

Gonatopus lunatus Klug (Gonatopodinae)

—Hungary (**Guglielmino & Olmi: 2006**)

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