

THE DRYINIDAE OF ARGENTINA¹ (HYMENOPTERA - CHRYSIDOIDEA)

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ABSTRACT

A hundred sixteen species of Dryinidae are listed in Argentina. The subfamily *Apodryininae* Olmi, the genera *Crovettia* Olmi, *Lonchodryinus* Kieffer, *Megadryinus* Richards, *Trichogonatopus* Kieffer, *Esagonatopus* Olmi and *Apodryinus* Olmi, and the *Gonatopus cubensis* (Richards) group (formerly *Acrodontochelys*) and *G. nigrithorax* (Ogloblin) group (formerly *Dicondylus*) are quoted for the first time in Argentina. *Dryinus striaticeps* (Kieffer) and *Trichogonatopus albomarginatus* (Cameron) are new records for Paraguay and *Trichogonatopus hispidus* Olmi for Bolivia. Fifty six new records for Argentina and forty one new distribution records at provincial level are given. The relationships between the Argentinian dryinids and their hosts are summarized.

KEY WORDS: Dryinidae, Argentina, distribution, hosts.

INTRODUCTION

The Dryinidae (Hymenoptera - Chrysidoidea) are a widespread family with approximately 1,300 species, which are parasitoids and usually also predators of Hemiptera Auchenorrhyncha. The family is composed of small wasps which are easily distinguished from the other members of Chrysidoidea by the ten segmented antennae inserted near the clypeus and the female chelate protarsus (except for the subfamily *Aphelopinae*) composed of an hypertrophied claw and a lateral expansion of tarsomere 5. The sexual dimorphism is so strong that the opposite sexes are not recognizable. The biology of this family is little known (Olmi 1984, 1994b).

In the Neotropic Region, the Dryinidae are represented by 6 subfamilies, 23 genera and 211 species, according to the old papers made by Walker (1837), Cameron (1888), Dalla Torre (1898), Kieffer (1904,

1905, 1906, 1907, 1909, 1911, 1912, 1913a, 1913b, 1914), Bruch (1915), Fenton (1927), Arlé (1935), Ogloblin (1932, 1938, 1950, 1953), and mainly the papers by Olmi (1984, 1986, 1987a, 1987b, 1987c, 1989, 1992a, 1992b, 1992c, 1992d, 1993a, 1993b, 1994a, 1995, 1996, 1998), De Santis and Vidal Sarmiento (1974), Garcette Barrett and Olmi (1996), Virila (1997, 1998). Only a few papers refer to the biology of the Neotropical species (Bartlett 1939; Hernández and Belloti 1984; De Santis *et al.* 1988; Olmi and Virila 1993; Moya Raygoza and Trujillo-Arriaga 1993a, 1993b; Virila 1992, 1994, 1995; Virila and Olmi, 1997 in press).

The dryinid fauna of Argentina has been little studied and only 5 subfamilies, 10 genera and 60 species are known so far. A few taxonomic studies has been presented by Kieffer (1904, 1912b), Ogloblin (1938, 1950), De Santis and Vidal Sarmiento (1974), De Santis *et al.* (1988), De Santis and Virila (1991), Olmi (1984, 1986, 1987a, 1987c, 1989, 1992a, 1992b, 1992d, 1993a, 1998), Olmi and Virila (1993), Garcette Barrett and Olmi (1996), Virila and Olmi (1994, 1997 in press), Virila (1997, 1998).

Nevertheless the Dryinidae fauna of Argentina is among the better studied in South America, the data has to be considered still insufficient. In fact, in the dryinid fauna of a small country as Costa Rica 89 species are listed (Olmi, 1993a). The knowledge gap is very big, if we consider that in Argentina only 60 species are known.

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The aim of this study is to increase the knowledge of this family in Argentina and to list the species known in this country, assembling all the known information about them.

MATERIAL AND METHODS

This paper is based mainly on the study of the following collections: "A.A. Ogloblin" (at the Museo de Ciencias Naturales de La Plata, Buenos Aires), "Instituto y Fundación Miguel Lillo" (Tucumán), "Museo Argentino de Ciencias Naturales 'B. Rivadavia'" (Buenos Aires) and "Instituto de Entomología de Salta" (INESAL). Other data was obtained by the papers published on Dryinids of Argentina. The classification used is based on that of Olmi (1984, 1986, 1989, 1993b).

In the text, the following data has been indicated:

1. The current name of the dryinid species.
2. The bibliographical records including author, year and page of the original description, and those regarding resdescriptions or original descriptions of the opposite sex and synonymies. The following abbreviations are used: (M): male, (F): female.
3. Hosts: all relationships are quoted with the corresponding author; the absence of an author name means a new record. No host quotations means host unknown.
4. Distribution: all the countries where each species is recorded are listed with citation author; the absence of an author name means a new record. A new record for Argentina is indicated with the symbol (!); a new provincial record is indicated with the symbol (!).
5. Biology: all citations are recorded.

RESULTS

Subfamily Aphelopinae

Genus *Aphelopus* Dalman 1823

Aphelopus leucopus Kieffer 1906

Aphelopus leucopus Kieffer 1906: 239 (F)

Aphelopus leucopus Kieffer: Olmi 1984: 78 (F)

Aphelopus leucopus Kieffer: Olmi 1989: 117 (M)

Distribution: NICARAGUA (Kieffer 1906); MÉXICO

(Olmi 1984); DUTCH ANTILLES, PERÚ, COSTA RICA (Olmi 1989); ARGENTINA; Yacochuya (Salta prov.) (!).

Aphelopus tropicalis Olmi 1984

Aphelopus tropicalis Olmi 1984: 76 (M,F)

Distribution: TRINIDAD, ECUADOR, CHILE (Olmi 1984); COSTA RICA, PANAMÁ, VENEZUELA, BRAZIL (Olmi 1993a); ARGENTINA: Rosario de Lerma (Olmi 1993a).

Aphelopus diffusus Olmi 1984

Aphelopus diffusus Olmi 1984: 79 (M,F)

Hosts: in Argentina (Tucumán): *Empoasca kraemeri* Ross and Moore and *Empoasca manubriata* Young.

Distribution: GRENADA I., ANTIGUA I., COLOMBIA, BRAZIL, ECUADOR (Olmi 1984); VENEZUELA, PERÚ, BOLIVIA, TRINIDAD, BAHAMAS, MÉXICO, GUATEMALA, BELIZE, HONDURAS, COSTA RICA, NICARAGUA, PANAMÁ, CHILE (Olmi 1992d, Olmi 1993a); PARAGUAY (Garcete Barrett and Olmi 1996); CUBA (Genaro and Portuondo, 1997); ARGENTINA: Rosario de Lerma, Abra Grande, S.R. de la N. Orán (Salta prov.), Cochuna, Horco Molle, Las Cejas (Tucumán prov.), Termas de Río Hondo (Santiago de Estero prov.), Moreno (Buenos Aires prov.) (Olmi 1992d, Olmi 1993a); Caimancito (Jujuy prov.)(!), Loreto and Dos de Mayo (Misiones prov.)(!), Belén (Catamarca prov.)(!), Yacochuya (Salta prov.), Reserva Forestal and San Miguel de Tucumán (Tucumán prov.), Villa Ballester, J.C. Paz and Bella Vista (Buenos Aires prov.).

Aphelopus trinitatis Olmi 1984

Aphelopus trinitatis Olmi 1984: 80 (M,F)

Hosts: in Argentina (Tucumán): *Empoasca kraemeri* Ross and Moore.

Distribution: TRINIDAD, GRAND CAYMÁN, MÉXICO, COLOMBIA, ECUADOR, BRAZIL (Olmi 1984); EL SALVADOR, GUATEMALA, PANAMÁ, SURINAM, JAMAICA, CUBA, VENEZUELA, PERÚ (Olmi 1993a); PARAGUAY (Garcete Barrett and Olmi 1996); ARGENTINA: HORCO MOLLE (Tucumán prov.) (Olmi 1984); Rosario de Lerma (Salta prov.)(!), Loreto, Yermal Viejo, Dos de Mayo and Aristobulo del Valle (Misiones prov.)(!), Guatrache (La Pampa Prov.)(!), Bella Vista and J.C. Paz (Buenos Aires prov.)(!), San Miguel de Tucumán (Tucumán prov.).

Aphelopus jamaicanus* Olmi 1984Aphelopus jamaicanus* Olmi 1984: 81 (M)*Aphelopus jamaicanus* Olmi: Olmi 1996: 58 (F)

Distribution: JAMAICA (Olmi 1984); PANAMÁ, COLOMBIA (Olmi 1993a); CUBA (Genaro and Portuondo, 1997); ARGENTINA: Loreto (Misiones prov.)(!!).

Genus ***Crovettia* Olmi 1984*****Crovettia barbara* Olmi 1984***Crovettia barbara* Olmi 1984: 91 (M,F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Loreto (Misiones prov.)(!!).

Crovettia neotropica* Olmi 1984Crovettia neotropica* Olmi 1984: 92 (M,F)

Distribution: BRAZIL (Olmi 1984); COSTA RICA (Olmi 1993a); ARGENTINA: Loreto and Dos de Mayo (Misiones prov.)(!!).

Crovettia brasiliana* Olmi 1984Crovettia brasiliana* Olmi 1984: 93 (M,F)

Distribution: MÉXICO, BRAZIL (Olmi 1984); COSTA RICA (Olmi 1993a); ARGENTINA: Loreto (Misiones prov.)(!!).

Subfamily **Anteoninae**Genus ***Metanteon* Olmi 1984*****Metanteon aeries* (Walker 1839)***Dryinus aeries* Walker 1839: 92 (F)*Anteon aeries* (Walker): Dalla Torre 1898: 537*Metanteon aeries* (Walker): Olmi 1984: 115 (F)*Metanteon fuscum* Olmi 1984: 116 (F) (in Olmi 1989: 130)

Distribution: CHILE (Walker 1839); ARGENTINA: Liao-Liao (Río Negro prov.) (Olmi 1989); Lago Curruhue (Lanín National Park) (Neuquén prov.)(!).

Genus ***Deinodryinus* R.C.L. Perkins 1907*****Deinodryinus hirticornis* (Kieffer 1911)***Anteon hirticornis* Kieffer 1911: 231 (F)*Trisanteon hirticornis* (Kieffer): Kieffer 1913a: 300*Trisanteon hirticornis* (Kieffer): Kieffer 1914: 197*Deinodryinus hirticornis* (Kieffer): Olmi 1984: 237 (F)*Deinodryinus eminens* Olmi 1984: 217 (M) (in Olmi 1992c:25)

Distribution: MÉXICO (Kieffer 1911), ECUADOR, BRAZIL (Olmi 1984); COSTA RICA (Olmi 1993a); PARAGUAY (Garcete Barrett and Olmi 1996); ARGENTINA: Horco Molle (Tucumán prov.)(!!).

Deinodryinus elegans* Olmi 1984Deinodryinus elegans* Olmi 1984: 154 (M,F)

Distribution: TRINIDAD (Olmi 1984); ARGENTINA: Loreto (Misiones prov.)(!!).

Deinodryinus diaphanus* Olmi 1984Deinodryinus diaphanus* Olmi 1984: 158 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Loreto and Montecarlo (Misiones prov.)(!!).

Deinodryinus nigrorufus* Olmi 1984Deinodryinus nigrorufus* Olmi 1984: 159 (M,F)

Distribution: CHILE (Olmi 1984); ARGENTINA: Pucarà, Lago Lacar (Neuquén prov.)(!!).

Deinodryinus iphias* Olmi 1984Deinodryinus iphias* Olmi 1984: 160 (M,F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Horco Molle (Tucumán prov.)(!!).

Deinodryinus noyesi* Olmi 1984Deinodryinus noyesi* Olmi 1984: 170 (M,F)

Distribution: TRINIDAD, SURINAM, VENEZUELA, BOLIVIA (Olmi 1984); MÉXICO, COSTA RICA, TOBAGO, COLOMBIA, ECUADOR, PERÚ, BRAZIL (Olmi 1993a); ARGENTINA: Salta (Salta prov.), Horco Molle (Tucumán prov.) (Olmi 1993a); Urundel and Yacochuya (Salta prov.); Dos de Mayo and Loreto (Misiones prov.)(!!).

Deinodryinus atlanticus* Olmi 1984Deinodryinus atlanticus* Olmi 1984: 172 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Cerro Aconquija (Tucumán prov.)(!!).

Deinodryinus peruvianus* Olmi 1984Deinodryinus peruvianus* Olmi 1984: 174 (M,F)

Distribution: TRINIDAD, COLOMBIA, PERÚ, BOLIVIA (Olmi 1984); COSTA RICA, BRAZIL, ECUADOR (Olmi

1993a); ARGENTINA: Rosario de Lerma (Salta prov.), Loreto (Misiones prov.)(!!).

***Deinodryinus hymenaeus* Olmi 1984**

Deinodryinus hymenaeus Olmi 1984: 178 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Chusmes (Tucumán prov.)(!!).

***Deinodryinus amoenus* Olmi 1984**

Deinodryinus amoenus Olmi 1984: 185 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Abra Grande (Salta prov.), Loreto (Misiones prov.)(!!).

***Deinodryinus pseudobilobus* Olmi 1984**

Deinodryinus pseudobilobus Olmi 1984: 193 (M,F)

Distribution: BOLIVIA, BRAZIL (Olmi 1984); ECUADOR, PERÚ, PARAGUAY (Garcete Barrett and Olmi 1996); ARGENTINA: Horco Molle, Las Cejas, Los Puestos (Tucumán prov.) (Olmi 1984); Abra Grande, S.R. de la N. Orán, Río Pescado and Rosario de Lerma (Salta prov.)(!).

***Deinodryinus nigrolobatus* Olmi 1984**

Deinodryinus nigrolobatus Olmi 1984: 199 (M,F)

Distribution: PERÚ, BRAZIL (Olmi 1984); ARGENTINA: Horco Molle, Las Cejas (Tucumán prov.) (Olmi 1984); Río Pescado and Rosario de Lerma (Salta prov.)(!).

***Deinodryinus vagans* Olmi 1984**

Deinodryinus vagans Olmi 1984: 201 (M,F)

Distribution: BOLIVIA, BRAZIL (Olmi 1984); PERÚ, PARAGUAY (Garcete Barrett and Olmi 1996); ARGENTINA: Horco Molle (Tucumán prov.) (Olmi 1984); Abra Grande (Salta prov.)(!), Tapia (Tucumán prov.)

***Deinodryinus incaicus* Olmi 1984**

Deinodryinus incaicus Olmi 1984: 214 (M,F)

Distribution: PANAMÁ, COLOMBIA, BRAZIL (Olmi 1984); ARGENTINA: Jujuy (Jujuy prov.), Tucumán and Horco Molle (Tucumán prov.) (Olmi 1984); Dos de Mayo and Loreto (Misiones prov.)(!).

***Deinodryinus trinidadii* Olmi 1984**

Deinodryinus trinidadii Olmi 1984: 220 (M,F)

Distribution: TRINIDAD (Olmi 1984); BRAZIL, VENEZUELA (Olmi 1993a); ARGENTINA: Dos de Mayo (Misiones prov.)(!!).

***Deinodryinus croceus* Olmi 1984**

Deinodryinus croceus Olmi 1984: 223 (M,F)

Distribution: ARGENTINA: Amaicha del Valle (Tucumán prov.) (Olmi 1984).

***Deinodryinus carpens* Olmi 1984**

Deinodryinus carpens Olmi 1984: 232 (M)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Loreto (Misiones prov.)(!!).

***Deinodryinus inermis* Olmi 1984**

Deinodryinus inermis Olmi 1984: 223 (M)

Distribution: TRINIDAD, MÉXICO, COSTA RICA, ECUADOR, PERÚ (Olmi 1993a); ARGENTINA: Jujuy (Jujuy prov.); Las Cejas (Tucumán prov.) (Olmi 1984); Rosario de Lerma (Salta prov.)(!), Cerro San Javier (Tucumán prov.).

***Deinodryinus perlucens* Olmi 1984**

Deinodryinus perlucens Olmi 1984: 233 (M)

Distribution: PERÚ (Olmi 1984); PARAGUAY (Garcete Barrett and Olmi 1996); ARGENTINA: Pocitos (Salta prov.) (Garcete Barrett and Olmi 1996).

***Deinodryinus paranus* Olmi 1984**

Deinodryinus paranus Olmi 1984: 236 (M)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Horco Molle (Tucumán prov.) (Olmi 1984).

***Deinodryinus guanacastei* Olmi 1987**

Deinodryinus guanacastei Olmi 1987a: 375 (M,F)

Distribution: COSTA RICA, VENEZUELA (Olmi 1987a); ARGENTINA: Dos de Mayo (Misiones prov.)(!!).

***Deinodryinus fiorii* Olmi 1987**

Deinodryinus fiorii Olmi 1987a: 380 (F)

Distribution: ARGENTINA: Horco Molle (Tucumán prov.) (Olmi 1987a).

***Deinodryinus porteri* Olmi 1987**

Deinodryinus porteri Olmi 1987a: 381 (F)

Distribution: ARGENTINA: HORCO Molle (Tucumán prov.) (Olmi 1987a).

***Deinodryinus tucumanensis* Olmi 1987**

Deinodryinus tucumanensis Olmi 1987a: 382 (M)

Distribution: ARGENTINA: HORCO Molle (Tucumán prov.) (Olmi 1987a).

***Deinodryinus horcanus* Olmi 1987**

Deinodryinus horcanus Olmi 1987a: 383 (M)

Distribution: ARGENTINA: HORCO Molle (Tucumán prov.) (Olmi 1987a); Loreto and Dos de Mayo (Misiones prov.) (!).

***Deinodryinus saltensis* Olmi 1987**

Deinodryinus saltensis Olmi 1987c: 99 (M,F)

Distribution: PARAGUAY (Olmi 1987c); ARGENTINA: Rosario de Lerma (Salta prov.) (Olmi 1987c); Loreto (Misiones prov.) (!).

***Deinodryinus insanus* Olmi 1989**

Deinodryinus insanus Olmi 1989: 135 (F)

Distribution: PERÚ (Olmi 1989); ARGENTINA: Loreto (Misiones prov.) (!).

***Deinodryinus latens* Olmi 1989**

Deinodryinus latens Olmi 1989: 136 (M)

Distribution: BRAZIL (Olmi 1989); ARGENTINA: Pocitos (Salta prov.) (!).

***Deinodryinus gauldi* Olmi 1989**

Deinodryinus gauldi Olmi 1989: 140 (M)

Distribution: COSTA RICA (Olmi 1989); ARGENTINA: Loreto (Misiones prov.) (!).

***Deinodryinus papillatus* Olmi 1992**

Deinodryinus papillatus Olmi 1992c: 22 (M)

Distribution: COSTA RICA, MÉXICO (Olmi 1992c); ARGENTINA: Dos de Mayo (Misiones prov.), Yacochuya (Salta prov.) (!).

***Deinodryinus reali* Olmi 1992**

Deinodryinus reali Olmi 1992c: 23 (M)

Distribution: ECUADOR (Olmi 1992c); ARGENTINA: Loreto (Misiones prov.) (!).

***Deinodryinus morae* Virla 1998**

Deinodryinus morae Virla 1998: 2 (F)

Distribution: ARGENTINA: Loreto (Misiones prov.) (Virla 1998).

Genus ***Lonchodryinus* Kieffer**

***Lonchodryinus tricolor* Kieffer 1905**

Lonchodryinus tricolor Kieffer 1905: 96 (F)

Lonchodryinus tricolor Kieffer: Kieffer 1914: 15

Lonchodryinus tricolor Kieffer: Olmi and Currado 1979: 342

Lonchodryinus tricolor Kieffer: Olmi 1983: 81

Lonchodryinus tricolor Kieffer: Olmi 1984: 282(F)

Distribution: BRAZIL (Kieffer 1905); ARGENTINA: Concordia (Entre Ríos prov.); Loreto and Dos de Mayo (Misiones prov.) (!).

Genus ***Anteon* Jurine 1807**

***Anteon albitarse* (Cameron 1888)**

Dryinus albitarsis Cameron 1888: 447 (F)

Mesodryinus albitarsis (Cameron): Kieffer 1914: 33

Anteon albitarse (Cameron): Olmi 1984: 512 (F)

Anteon annulicornis Brues 1905: 185 (F) (in Olmi 1989: 206)

Anteon annulicornis Brues: Olmi 1984: 511 (F)

Anteon albitarse (Cameron): Olmi 1989: 206 (M)

Distribution: GUATEMALA (Cameron 1888), PANAMA (Kieffer 1914), MÉXICO, TRINIDAD, COLOMBIA, ECUADOR, BOLIVIA (Olmi 1984); VENEZUELA, COSTA RICA, BRAZIL (Olmi 1989); ARGENTINA: Loreto (Misiones prov.) (!).

***Anteon pilicorne* (Oglobin 1938)**

Anteon pilicornis Oglobin 1938: 39 (M)

Anteon pilicorne (Oglobin): Olmi 1984: 515 (M)

Anteon mexicanum Olmi 1984: 499 (M,F) (in Olmi 1989: 208)

Distribution: BRAZIL (Olmi 1984); MÉXICO, JAMAICA, PERÚ, COSTA RICA, COLOMBIA, VENEZUELA (Olmi 1993a); ARGENTINA: Gral. Urquiza (Buenos Aires prov.) (Oglobin 1938); Yacochuya (Salta prov.) (!), Burzaco, La Plata (Buenos Aires prov.).

***Anteon conterminum* Olmi 1984**

Anteon conterminum Olmi 1984: 516 (M)

Distribution: BRAZIL (Olmí 1984); ARGENTINA: Loreto (Misiones prov.)(!!).

***Anteon plaumanni* Olmi 1984**

Anteon plaumanni Olmi 1984: 517 (M)

Distribution: BRAZIL (Olmí 1984); ARGENTINA: Yacochuya (Salta prov.), Loreto (Misiones prov.); Horco Molle (Tucumán prov.)(!!).

***Anteon bolivianum* Olmi 1984**

Anteon bolivianum Olmi 1984: 518 (F)

Anteon bolivianum Olmi: Olmi (1987a): 396 (M)

Distribution: BOLIVIA (Olmí 1984); ARGENTINA: Horco Molle (Tucumán prov.) (Olmí 1987a); Loreto (Misiones prov.)(!).

***Anteon oranianum* Olmi 1987**

Anteon oranianum Olmi 1987a: 403 (M)

Distribution: ARGENTINA: Abra Grande, S.R. de la N. Orán (Salta prov.) (Olmí 1987a).

***Anteon victor* Olmi 1987**

Anteon victor Olmi 1987a: 402 (F)

Distribution: BRAZIL (Olmí 1987a); ARGENTINA: Loreto (Misiones prov.)(!!).

***Anteon minusculum* Olmi 1987**

Anteon minusculum Olmi 1987c: 105 (M)

Distribution: PANAMÁ (Olmí 1987c); MÉXICO, BRAZIL, ECUADOR, COSTA RICA (Olmí 1993a); ARGENTINA: Loreto (Misiones prov.)(!!).

***Anteon araripense* Olmi 1989**

Anteon araripense Olmi 1989: 192 (F)

Distribution: BRAZIL (Olmí 1989); ARGENTINA: Loreto (Misiones prov.)(!!).

***Anteon gracile* Olmi 1989**

Anteon gracile Olmi 1989: 192 (M)

Distribution: PERÚ (Olmí 1989); ARGENTINA: Yacochuya (Salta prov.)(!!).

***Anteon dulcicolum* Olmi 1989**

Anteon dulcicolum Olmi 1989: 194 (F)

Distribution: COSTA RICA (Olmí 1989); ARGENTINA: Yacochuya (Salta prov.) (!!).

***Anteon topali* Olmi 1992**

Anteon topali Olmi 1992a: 281 (F)

Distribution: ARGENTINA: Ezeiza (Buenos Aires prov.) (Olmí 1992a); Bella Vista and Moreno (Buenos Aires prov.).

***Anteon sharkeyi* Olmi 1995**

Anteon sharkeyi Olmi 1995: 22 (M)

Distribution: GUATEMALA (Olmí 1995); ARGENTINA: Loreto (Misiones prov.)(!!).

***Anteon deltae* Virla 1998**

Anteon deltae Virla 1998: 3 (M)

Distribution: ARGENTINA: Tigre (Buenos Aires prov.) (Virla 1998).

***Anteon willinki* Virla 1998**

Anteon willinki Virla 1998: 4 (M)

Distribution: ARGENTINA: Yacochuya (Salta prov.) (Virla 1998).

***Anteon desantisi* Virla 1998**

Anteon desantisi Virla 1998: 5 (M)

Distribution: ARGENTINA: Dos de Mayo (Misiones prov.), J.C. Paz, Bella Vista (Buenos Aires prov.) (Virla 1998).

Subfamily Bocchinae

Genus *Bocchus* Ashmead 1893

***Bocchus neotropicus* Olmi 1986**

Bocchus neotropicus Olmi 1986: 64 (F)

Bocchus neotropicus Olmi: Olmi 1996: 73 (M)

Distribution: COSTA RICA (Olmí 1986); MÉXICO, BRAZIL (Olmí 1993a); PARAGUAY (Garcete Barrett and Olmi 1996); ARGENTINA: Las Cejas (Tucumán prov.) (Olmí 1986); Tucumán (Tucumán prov.), 19 Km S Wanda; Loreto and Dos de Mayo (Misiones prov.)(!!).

***Bocchus opacus* Olmi 1992**

Bocchus opacus Olmi 1992a: 283 (M)

Distribution: ARGENTINA: Urundel (Salta prov.) (Olmí 1992a).

Subfamily Dryiniinae

Genus *Thaumatodryinus* R.C.L. Perkins 1905

Thaumatomydryinus bruchi De Santis and Vidal Sarmiento 1974

Thaumatomydryinus bruchi De Santis and Vidal Sarmiento 1974: 22 (M,F)

Thaumatomydryinus bruchi De Santis and Vidal Sarmiento: Olmi 1984: 714 (M,F)

Distribution: BRAZIL (Olmi 1984); CUBA (Genaro and Portuondo, 1997); ARGENTINA: Alta Gracia, La Paz (Córdoba prov.) (De Santis and Vidal Sarmiento 1974); La Plata (Buenos Aires prov.); Las Cejas, Horco Molle (Tucumán prov.) (Olmi 1984).

Thaumatomydryinus macilentus De Santis and Vidal Sarmiento 1974

Thaumatomydryinus macilentus De Santis and Vidal Sarmiento 1974: 24 (M,F)

Thaumatomydryinus macilentus De Santis and Vidal Sarmiento: Olmi 1984: 706 (M,F)

Distribution: PANAMÁ, ECUADOR, SURINAM, BRAZIL (Olmi 1984); ARGENTINA: Loreto (Misiones prov.) (De Santis and Vidal Sarmiento 1974).

Thaumatomydryinus variegatus De Santis and Vidal Sarmiento 1974

Thaumatomydryinus variegatus De Santis and Vidal Sarmiento 1974: 25 (F)

Thaumatomydryinus variegatus De Santis and Vidal Sarmiento: Olmi 1984: 704 (F)

Distribution: ARGENTINA: Dos de Mayo (Misiones prov.) (De Santis and Vidal Sarmiento 1974).

Genus ***Dryinus*** Latreille 1804

Dryinus ruficauda (Richards) group (formerly *Tridryinus* Kieffer, 1913)

Dryinus ruficeps Cameron 1888

Dryinus ruficeps Cameron 1888: 445 (F)

Prodryinus ruficeps (Cameron): Kieffer in Kieffer and Marshall 1906: 498

Prodryinus ruficeps (Cameron): Kieffer 1914: 51

Lestodryinus dichrous Fenton 1927: 1 (F)

Tridryinus ruficeps (Cameron): Olmi 1984: 958 (F)

Distribution: PANAMÁ (Cameron 1888); VENEZUELA, SURINAM, COLOMBIA, ECUADOR, BRAZIL (Olmi 1984); PARAGUAY, TRINIDAD, MÉXICO, COSTA RICA (Olmi 1993a); PERÚ (Garcete Barrett and Olmi 1996); ARGENTINA: Eldorado (Misiones prov.) (Olmi 1984).

Dryinus striaticeps (Kieffer 1909)

Prodryinus striaticeps Kieffer 1909: 334 (F)

Tridryinus striaticeps (Kieffer): Kieffer 1913b: 325

Tridryinus striaticeps (Kieffer): Kieffer 1914: 29

Tridryinus striaticeps (Kieffer): Olmi 1984: 956 (M,F)

Distribution: BRAZIL (Kieffer 1909); SURINAM, BOLIVIA (Olmi 1984); PARAGUAY; ARGENTINA: Tartagal (Salta prov.)(!).

Dryinus picescens (Olmi 1984)

Tridryinus picescens Olmi 1984: 965 (F)

Distribution: ARGENTINA: Las Cejas (Tucumán prov.) (Olmi 1984).

Dryinus andinus (Olmi 1984)

Tridryinus andinus Olmi 1984: 967 (F)

Distribution: ARGENTINA: Yacochuya (Salta prov.) (Olmi 1984); Córdoba (Córdoba prov.)(!).

Dryinus pictus Virla 1998

Dryinus pictus Virla 1998: 7 (F)

Distribution: ARGENTINA: Loreto (Misiones prov.) (Virla 1998).

Dryinus constans Olmi group (formerly *Dryinus* Latreille, 1804)

Dryinus grandis (Oglobin 1938)

Mesodryinus grandis Oglobin 1938: 35 (F)

Dryinus grandis (Oglobin) Olmi 1984: 852 (F)

Distribution: ARGENTINA: Jujuy (Jujuy prov.) (Oglobin 1938).

Dryinus antilleanus (Evans, 1969)

Mesodryinus antilleanus Evans, 1969: 19 (M,F)

Dryinus antilleanus (Evans): Olmi 1984: 860 (M,F)

Distribution: DOMINICA (Evans 1969); ARGENTINA: Loreto (Misiones prov.); Tapia and Horco Molle (Tucumán prov.)(!).

Dryinus argentinus Olmi 1984

Dryinus argentinus Olmi 1984: 846 (F)

Distribution: BOLIVIA, BRAZIL (Olmi 1984); ECUADOR (Olmi 1987b); ARGENTINA: Horco Molle (Tucumán prov.) (Olmi 1984).

***Dryinus teutoniae* Olmi 1984**

Dryinus teutoniae Olmi 1984: 862 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Loreto (Misiones prov.)(!!).

Dryinus lamellatus (Olmi) group (formerly *Chelothelius* Reinhard, 1863).

***Dryinus lamellatus* (Olmi 1984)**

Alphadryinus lamellatus Olmi 1984: 986 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Horco Molle (Tucumán prov.)(!!).

Genus *Megadryinus* Richards

***Megadryinus pulawskii* Olmi 1993**

Megadryinus pulawskii Olmi 1993b: 71 (F)

Distribution: PERÚ (Olmi 1993b); ARGENTINA: Montecarlo (Misiones prov.)(!!).

Subfamily Gonatopodinae

Genus *Neodryinus* R.C.L. Perkins 1905

***Neodryinus brachycerus* (Kieffer 1904)**

Dryinus brachycerus Kieffer 1904: 351 (F)

Prodryinus brachycerus (Kieffer): Kieffer in Kieffer and Marshall 1906: 497

Prodryinus brachycerus (Kieffer): Bruch 1915: 443

Neodryinus brachycerus (Kieffer): Richards 1953: 51

Prodryinus brachycerus (Kieffer): Olmi and Cuatrecasas 1976: 188

Neodryinus brachycerus (Kieffer): Olmi 1984: 1111 (F)

Distribution: ARGENTINA: Tigre (Buenos Aires prov.) (Kieffer 1904).

***Neodryinus radialis* Olmi 1984**

Neodryinus radialis Olmi 1984: 1104 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Loreto (Misiones prov.)(!!).

Genus *Haplogonatopus* R.C.L. Perkins 1905

***Haplogonatopus hernandezae* Olmi 1984**

Haplogonatopus hernandezae Olmi 1984: 1423 (F)

Hosts: in Colombia, Panamá and Costa Rica: *Ta-gosodes orizocolus* (Muir) (sensu Asche and Wilson 1990 = *Sogatodes oryzicola*) (Olmi 1984); in Argentina: Delphacidae, *Delphacodes sitarea* Remes Lenicov et Tesón, *Toya propinqua* (Fieber), *Delphacodes kuscheli* Fennan and *D. haywardi* Muir (Virla and Olmi 1997, in press), *Toya argentinensis* Remes Lenicov et Tesón.

Distribution: COSTA RICA, PANAMÁ, COLOMBIA (Olmi 1984); ARGENTINA: La Plata, Santa Catalina (Buenos Aires prov.); San Miguel de Tucumán and Tafi del Valle (Tucumán prov.) (Virla and Olmi 1997, in press).

Biology: Hernández (1884), Hernández and Bellotti (1984).

Genus *Trichogonatopus* Kieffer 1909

***Trichogonatopus albomarginatus* (Cameron 1888)**

Gonatopus albomarginatus Cameron 1888: 441 (F)

Gonatopus dromedarius Cameron 1888: 443 (F)

Gonatopus camelus Dalla Torre 1898: 545 (F)

Trichogonatopus bogotensis Kieffer 1909: 337 (F)

Trichogonatopus albomarginatus (Cameron): Olmi 1984: 1485 (F)

Distribution: PANAMÁ (Cameron 1888); COLOMBIA (Kieffer 1909); COSTA RICA, VENEZUELA, BRAZIL (Olmi 1984); PARAGUAY: ASUNCIÓN; ARGENTINA: Loreto, Dos de Mayo and Sta. María (Depto. Concepción) (Misiones prov.)(!!).

***Trichogonatopus palliditarsis* Cameron 1888**

Trichogonatopus palliditarsis Cameron 1888: 441 (F)

Trichogonatopus palliditarsis (Cameron): Olmi 1984: 1481 (F)

Distribution: PANAMÁ (Cameron 1888); BRAZIL (Olmi 1984); ECUADOR (Olmi 1987c); ARGENTINA: Loreto (Misiones prov.)(!!).

***Trichogonatopus richardsi* Olmi 1984**

Trichogonatopus richardsi Olmi 1984: 1476 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Loreto (Misiones prov.)(!!).

***Trichogonatopus hispidus* Olmi 1984**

Trichogonatopus hispidus Olmi 1984: 1478 (F)

Trichogonatopus fiorii Olmi 1986: 90 (F) (in Olmi, 1992c: 52)

Hosts: specimen labeled: Est. Exp. Loreto, 6.I.1932, A.A. Ogloblin, coll, "from *Spangbergiella* sp".

Distribution: COLOMBIA, BRAZIL (Olmi 1984); BRAZIL (Olmi 1986); COSTA RICA, VENEZUELA (Olmi 1992c); BOLIVIA: Beni prov.; ARGENTINA: Loreto (Misiones prov.)(!!).

***Trichogonatopus stellaris* Virla 1997**

Trichogonatopus stellaris Virla 1997: 172 (F)

Distribution: ARGENTINA: Yacochuya (Salta prov.) (Virla 1997).

***Trichogonatopus marinoae* Virla 1997**

Trichogonatopus marinoae Virla 1997: 173 (F)

Distribution: ARGENTINA: 23 de mayo (Misiones prov.) (Virla 1997)

Genus ***Esagonatopus* Olmi 1984**

***Esagonatopus neotropicus* Olmi 1986**

Esagonatopus neotropicus Olmi 1986: 92 (F)

Distribution: BRAZIL (Olmi 1986); ARGENTINA: Loreto (Misiones prov.)(!!).

***Esagonatopus olmii* Virla 1997**

Esagonatopus olmii Virla 1997: 174 (F)

Distribution: ARGENTINA: Loreto (Misiones prov.) (Virla 1997).

***Esagonatopus angelicus* Virla 1997**

Esagonatopus angelicus Virla 1997: 176 (F)

Distribution: ARGENTINA: Loreto (Misiones prov.) (Virla 1997).

Genus ***Gonatopus* Ljungh 1810**

***Gonatopus cubensis* (Richards) group (formerly *Acrodontochelys* Currado 1976)**

***Gonatopus cubensis* (Richards, 1969)**

Cyrtogonatopus cubensis Richards 1969: 80 (M,F)

Acrodontochelys cubensis (Richards): Olmi 1984: 1188 (M,F)

Hosts: in Guadeloupe *Sogatella* sp. (accordins

with Olmi (1984), probably an error, because this hopper belongs to Delphacidae)

Distribution: CUBA (Richards, 1969); GUADALOUPE, MÉXICO (Olmi 1984); MARTINIQUE, ANTIGUA, DUTCH ANTILLES, DOMINICAN REPUBLIC, PARAGUAY (Garcete Bartett and Olmi 1996); ARGENTINA: Loreto (Misiones prov.)(!!).

***Gonatopus flavoides* (Olmi) group (formerly *Pseudogonatopus* R.C.L. Perkins 1905)**

***Gonatopus chilensis* (Olmi 1989)**

Pseudogonatopus chilensis Olmi 1989: 318 (F)

Gonatopus chilensis (Olmi): Olmi and Virla 1993: 63 (M)

nec Pseudogonatopus flavus Olmi 1984 (*Gonatopus flavoides*) (Olmi 1984): Olmi 1993b: 80

nec Pseudogonatopus flavus Olmi sensu De Santis et Virla (1991)

Hosts: *Delphacodes haywardi* Muir, *Delphacodes kucheli* (Olmi and Virla 1993); *Delphacodes sitarea* Remes Lenicov et Tesón, *Dicranotropis fuscoterminata* Berg, *Toya propinqua* (Fieber), *Sogatella* spp. (Virla 1995); *Toya argentinensis* (Muir).

Distribution: CHILE (Olmi 1989); ARGENTINA: La Plata, Santa Catalina, Temperley and Lag. La Bellaca (Buenos Aires prov.), La Paz (Entre Ríos prov.) (De Santis and Virla 1991; Olmi and Virla 1993); Ostende, F. Varela, Villa Devoto, J.C. Paz and Bella Vista (Buenos Aires prov.), Loreto (Misiones prov.)(!), Sampacho and Río IV (Córdoba prov.)(!), Rafaela (Santa Fe prov.)(!), San Miguel de Tucumán and Tafi del Valle (!).

Biology: Virla (1995).

***Gonatopus lauti* Virla 1998**

Gonatopus lauti Virla 1998: 8 (F)

Hosts: Delphacidae

Distribution: ARGENTINA: San Pedrito (Salta prov.), Bella Vista (Buenos Aires prov.), Loreto (Misiones prov.), Fontana (Chaco prov.) (Virla 1998)

***Gonatopus neotropicus* (Olmi) group (formerly *Donisthorpina* Richards 1939).**

***Gonatopus gisellae* Virla 1997**

Gonatopus gisellae Virla 1997: 178 (F)

Distribution: ARGENTINA: Dos de Mayo (Misiones prov.) (Virla 1997)

Gonatopus testaceus Cameron group (formerly *Apterodryinus* Perkins 1907.

***Gonatopus testaceus* Cameron 1888**

Gonatopus testaceus Cameron 1888: 440 (F)
Agonatopoides jujuyensis Ogloblin 1950: 488 (F)
Apterodryinus testaceus (Cameron): Olmi 1984: 1362 (F)

Distribution: PANAMÁ (Cameron 1888); MÉXICO, GUATEMALA, DUTCH ANTILLES, ECUADOR, BRAZIL, COSTA RICA (Olmi 1993a); ARGENTINA: Cerro Perales (Jujuy prov.) (Ogloblin 1950); Buenos Aires (Buenos Aires prov.) (Olmi 1984); Abra Grande, S.R. de la N. Orán (Salta prov.)(!), Dos de Mayo and Loreto (Misiones prov.)(!), Tapia (Tucumán Prov.)(!), San Fernando (Buenos Aires prov.).

***Gonatopus tijucanus* (Arlé 1935)**

Pseudogonatopus tijucanus Arlé 1935: 52 (M,F)
Apterodryinus tijucanus (Arlé): Olmi 1984: 1365 (M,F)

Distribution: BRAZIL (Arlé 1935); ARGENTINA: Tigre (Buenos Aires prov.), Santa María (Dpto. Concepción) and Loreto (Misiones prov.)(!).

***Gonatopus fritzi* (Olmi 1992)**

Apterodryinus fritzi Olmi 1992b: 114 (F)
 Distribution: ARGENTINA: Moreno (Buenos Aires prov.) (Olmi 1992b), Los Reartes (Córdoba prov.)(!).

***Gonatopus nigrithorax* (Ogloblin) group** (formerly *Dicondylus* Haliday 1829-30).

***Gonatopus nigrithorax* (Ogloblin 1953)**

Idologonatopus nigrithorax Ogloblin 1953: 112 (F)
Dicondylus nigrithorax (Ogloblin): Olmi 1984: 1390 (F)
 Distribution: CHILE (Ogloblin 1953); ARGENTINA: Las Chozas (!)(?).

***Gonatopus bonaerensis* Virla 1997**

Gonatopus bonaerensis Virla 1997: 180 (F)
 Hosts: Delphacidae
 Distribution: ARGENTINA: La Plata; Tigre and San Fernando (Buenos Aires prov.) (Virla 1997).

***Gonatopus caraibicus* (Olmi) group** (formerly *Tetrodotochelys* Richards 1939)

***Gonatopus caraibicus* (Olmi 1986)**

Tetrodotochelys caraibicus Olmi 1986: 89 (F)
Tetrodotochelys peculiaris (Brues): sensu De Santis, Remes Lenicov et Tesón (1988)
Tetrodotochelys peculiaris (Brues): sensu De Santis et Virla (1991)
Tetrodotochelys peculiaris (Brues): sensu Virla (1992)
Tetrodotochelys caraibicus Olmi: Olmi and Virla 1993: 61 (M)

Hosts: *Exitianus obscurinervis* Stål (De Santis et al., 1988); *Amplicephalus* sp., *Amplicephalus simplicusculus* Linnavuori, *Haldorus sexpunctatus* (Berg) (Virla 1992); *Chlorotettix* sp.

Distribution: PUERTO RICO (Olmi 1984); ARGENTINA: La Plata and Punta Lara (Buenos Aires prov.) (De Santis et al., 1988); Santa Catalina, Lag. "La Bellaca", Temperley, F. Varela and Ostende (Buenos Aires prov.), Santa Isabel (Córdoba prov.) (Virla 1992); Rosario de Lerma (Salta prov.)(!), San Miguel de Tucumán, Macomita, El Cadillal (Tucumán prov.)(!), Sampacho, La Carlota and Rio IV (Córdoba prov.)

Biology: Virla (1992); hyperparasitoids: *Cheilonurus bonaerensis* De Santis and *Helegonatopus pseudophanes* Perkins (De Santis and Virla 1991).

***Gonatopus zolnerowichi* (Olmi 1989)**

Tetrodotochelys zolnerowichi Olmi 1989: 333 (M,F)
 Distribution: MÉXICO (Olmi 1989); CUBA (Genaro and Portuondo, 1997); ARGENTINA: Loreto (Misiones prov.)(!).

***Gonatopus orbitalis* Cameron group** (formerly *Gonatopus* Ljungh)

***Gonatopus breviforceps* Kieffer 1904**

Gonatopus breviforceps Kieffer 1904: 356 (F)
Pachygonatopus breviforceps (Kieffer): Kieffer in Kieffer and Marshall 1906: 50
Cyrtogonatopus breviforceps (Kieffer): Kieffer 1907: 19
Cyrtogonatopus breviforceps (Kieffer): 1914: 70
Cyrtogonatopus breviforceps (Kieffer): Bruch 1915: 443
Metagonatopus brasiliensis Ogloblin 1932: 264 (F)
Cyrtogonatopus breviforceps (Kieffer): Richards 1969: 80

Cyrtogonatopus breviforceps (Kieffer): Olmi and Currado 1976: 165

Gonatopus breviforceps Kieffer: Olmi 1984: 1735 (M,F)

Distribution: BRAZIL (Ogloblin 1932); BAHAMAS, DOMINICAN REPUBLIC, PERÚ (Olmi 1984); ECUADOR (Olmi 1987b); ARGENTINA: Santa Cruz (Sta. Cruz prov.) (Kieffer 1904).

Gonatopus silvestrii Kieffer 1912

Gonatopus silvestrii Kieffer 1912: 174 (F)

Gonatopus silvestrii Kieffer: Kieffer 1914: 128

Gonatopus silvestrii Kieffer: Bruch 1915: 443

Gonatopus carettei Bruch 1915: 443 (F)

Gonatopus silvestrii Kieffer: Olmi 1984: 1759 (F)

Hosts: in Argentina: *Exitianus obscurinervis* Stål, *Amplicephalus* sp., *Amplicephalus simpliciusculus* Linnavuori, *Haldorus sexpunctatus* (Berg)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Sta. Cruz (Santa Cruz prov.) (Kieffer 1912); San Julián (Santa Cruz prov.) (Bruch 1915); Caimancito (Jujuy prov.)(!), Formosa (Formosa prov.)(!), S.M. de Tucumán (Tucumán prov.)(!), La Ciénaga (Catamarca prov.)(!), El Sauce (Depto. Calamuchita - Córdoba prov.)(!), Santa Catalina, La Plata, Lag. La Bellaca, San Pedro, Bella Vista, Castelar and J.C. Paz (Buenos Aires prov.)(!).

Gonatopus willinki Olmi 1984

Gonatopus willinki Olmi 1984: 1742 (F)

Distribution: ARGENTINA: Tucumán (Tucumán prov.) (Olmi 1984); Loreto (Misiones prov.)(!).

Gonatopus bartletti Olmi 1984

Gonatopus bartletti Olmi 1984: 1751 (M,F)

Hosts: in Puerto Rico *Baldulus maidis* (De Long and W.) (Bartlett, 1939)

Distribution: PUERTO RICO (Olmi 1984); MÉXICO (Vega and Barbosa, 1990); CUBA, BAHAMAS (Genaro and Portuondo, 1997); ARGENTINA: Bella Vista (Buenos Aires prov.)(!)

Biology: hyperparasitoids: *Ooencyrtus* sp. (Bartlett, 1939).

Gonatopus flavipes Olmi 1984

Gonatopus flavipes Olmi 1984: 1752 (F)

Gonatopus flavipes Olmi: Olmi 1989: 354

Distribution: COSTA RICA, JAMAICA, ECUADOR

(Olmi 1984); MEXICO, BOLIVIA, BRAZIL (Olmi 1989); ARGENTINA: Aristobulo del Valle (Misiones prov.)(!).

Gonatopus tristis Olmi 1984

Gonatopus tristis Olmi 1984: 1757 (F)

Distribution: COSTA RICA (Olmi 1984); ARGENTINA: La Higuera (Depto. Choromoro - Tucumán prov.), Loreto (Misiones prov.), Santa Catalina Buenos Aires prov.)(!).

Gonatopus arlei Olmi 1984

Gonatopus arlei Olmi 1984: 1764 (F)

Distribution: BRAZIL (Olmi 1984); ARGENTINA: Dos de Mayo (Misiones prov.)(!).

Gonatopus contortus Olmi 1984

Gonatopus contortus Olmi 1984: 1768 (F)

Distribution: BOLIVIA (Olmi 1984); ARGENTINA: Urundel, Los Colorados (50 Km NE J.V. González) (Salta prov.), La Higuera (Depto. Choromoro - Tucumán prov.), Sumalao (Catamarca prov.), Loreto (Misiones prov.), Santa Catalina, Bella Vista (Buenos Aires prov.)(!).

Gonatopus fiorii Olmi 1986

Gonatopus fiorii Olmi 1986: 99 (F)

Distribution: BRAZIL (Olmi 1986); ARGENTINA: Dos de Mayo (Misiones prov.), Punta Lara, Bella Vista, Villa Devoto (Buenos Aires prov.)(!).

Gonatopus amazonicus Olmi 1987

Gonatopus amazonicus Olmi 1987: 450 (F)

Distribution: BRAZIL (Olmi 1987); ARGENTINA: Loreto (Misiones prov.)(!).

Gonatopus desantisi Olmi and Virla 1993

Gonatopus desantisi Olmi and Virla 1993: 58 (M,F)

Hosts: *Exitianus obscurinervis* Stål, *Amplicephalus* sp., *Agalliana ensigera* Oman and *Haldorus sexpunctatus* (Berg), *Amplicephalus simpliciusculus* Linnavuori, *Amplicephalus (Mendozellus) dubius* (Linnavuori) (Virla 1992; Olmi and Virla 1993); *Amplicephalus marginellanus* var *faminoides* Linnavuori

Distribution: ARGENTINA: Santa Catalina, Lag. La Bellaca (Pdo. San Vicente), La Plata (Buenos Aires prov.) (Olmi and Virla 1993); Temperley and Bella

Vista (Buenos Aires prov.), San Miguel de Tucumán, Tafi del Valle (Tucumán prov.)(!), Rosario de Lerma (Salta prov.)(!), Recreo (Catamarca prov.)(!), Dos de Mayo, Loreto (Misiones prov.)(!)

Biology: Virla 1992; hyperparasitoids: *Cheiloneurus bonaerensis* De Santis and *Helegonatopus pseudophanes* Perkins (De Santis and Virla 1991).

Gonatopus virlai Olmi 1994

Gonatopus virlai Olmi in Virla and Olmi 1994: 86 (M,F)

Hosts: *Spångbergiella* sp. (Cicadellidae, Deltocephalinae, Hecalini) (Virla and Olmi 1994)

Distribution: ARGENTINA: La Plata, Florencio Varela and Santa Catalina (Buenos Aires prov.) (Virla and Olmi 1994); Bella Vista (Buenos Aires prov.)

Biology: Virla and Olmi (1994).

Gonatopus daguerrei Olmi 1998

Gonatopus daguerrei Olmi 1998: 74 (F)

Distribution: ARGENTINA: San Fernando (Buenos Aires prov.) (Olmi 1998); Tigre (Buenos Aires prov.).

Gonatopus ogloblini Virla 1997

Gonatopus ogloblini Virla 1997: 183 (F)

Distribution: ARGENTINA: Loreto (Misiones prov.) (Virla 1997).

Gonatopus fidalgoi Virla 1997

Gonatopus fidalgoi Virla 1997: 183 (F)

Hosts: in Buenos Aires: *Agalliana ensigera* Oman 1934; in Tucumán a non identified species of Agallinae (Virla, 1997).

Distribution: ARGENTINA: La Plata (Buenos Aires prov.), Tafi del Valle (Tucumán prov.), Loreto (Misiones prov.) (Virla 1997)

Gonatopus cordobensis Virla 1998

Gonatopus cordobensis Virla 1998: 10 (F)

Distribution: Trancas (Tucumán prov.), Pilar (Córdoba prov.) (Virla 1998)

Gonatopus doellojuradoi (Ogloblin) complex

Gonatopus doellojuradoi Ogloblin 1938: 38 (F)

Gonatopus doellojuradoi Ogloblin: Olmi 1984: 1757 (F)

Gonatolus argentinus Olmi 1986: 98 (F)

G. doellojuradoi complex: Virla 1998: 13 (F)

Hosts: *Exitianus obscurinervis* Stål, *Amplicephalus simpliciusculus* Linnavuori, *Haldorus sexpunctatus* (Berg) (Virla 1998).

Distribution: ARGENTINA: S.M. de Tucumán (Ogloblin 1938); Cruz del Eje, Guanaco Muerto (Córdoba prov.) (Olmi 1986); Tafi del Valle and Cerro San Javier (Tucumán prov.), Pres. Roque Sáenz Peña (Chaco prov.), Yutu Yacu (Santiago del Estero prov.), La Plata, Lag. La Bellaca, Tigre, Bella Vista and Ostende (Buenos Aires prov.) (Virla 1998)

Biology: found with ants (Olmi 1986).

Subfamily Apodryinidae

Genus *Apodryinus* Olmi 1984

Apodryinus masneri Olmi 1984

Apodryinus masneri Olmi 1984: 1796 (F)

Apodryinus masneri Olmi: Olmi 1993b: 87 (M)

Distribution: CHILE (Olmi 1984); ARGENTINA: Pucará (Lago Lácar (Neuquén prov.)(!)).

CONCLUSIONS

The Dryinidae fauna of Argentina is still little known and further studies are necessary. In fact, if we consider the South-North distribution of Argentina and the consequent climatic and biological variability, we have to expect a dryinid population much larger than that of Costa Rica; the one hundred sixteen species of Argentina appear too few in relation to the 89 Costa Rica species. Costa Rica is the Neotropic country where the dryinid fauna is better known.

In addition, a great part of the Argentinian species are known only on the basis of female specimens. Further studies on biology and mainly rearings should be necessary to recognize the opposite sexes.

The 116 species present in Argentina belong to the following 6 subfamilies:

Aphelopinae: *Aphelopus* (5 spp.) and *Crovettia* (3 spp.); Anteoninae: *Metanteon* (1 sp.), *Deinodryinus* (32 spp.), *Lonchodryinus* (1 sp.) and *Anteon* (16 spp.); Bocchinae: *Bocchus* (3 spp.); Dryininae: *Thaumato-dryinus* (3 spp.), *Dryinus* (10 spp.) and *Megadryinus* (1 sp.); Gonatopodinae: *Neodryinus* (2 spp.), *Haplogonatopus* (1 spp.), *Trichogonatopus* (6 spp.), *Esagonatopus* (3 spp.) and *Gonatopus* (28 spp.); Apodryininae: *Apodryinus* (1 sp.).

The subfamily *Apodryininae*, the genera *Crove-*

itia, *Lonchodryinus*, *Megadryinus*, *Trichogonatopus*, *Esagonatopus* and *Apodryinus*, and the *Gonatopus cubensis* (Richards) group (formerly *Acrodontochelys*) and *G. nigrithorax* (Ogloblin) group (formerly *Dicondylus*) are quoted for the first time in Argentina.

At present, a biogeographical analysis is difficult because the geographic distribution of many species is unknown and a great number of taxa are recorded from only one locality. Of 116 species cited, 82 (70,7%) are widespread in the Neotropical Region; among these, 50 are cited only in a single locality of Argentina. The remaining 34 species (29,3%) are known only in Argentina. In addition, 10 species are known in Central América and Argentina and 3 species are distributed in South of Chile and Argentina. There are no data about the Dryinidae species in the following provinces: Chubut, Corrientes, La Rioja, Mendoza, San Juan, San Luis and Tierra del Fuego.

Probably the citation of species in only one locality do not mean endemisms, but only lack of research. In fact, dryinids endemize very rarely.

Of the 10 world dryinid subfamilies, only 5 (Anteoninae, Aphelopinae, Bocchinae, Dryininae and Gonatopodinae) have known hosts (Guglielmino and Olmi 1997). In Argentina only the hosts of the following 2 subfamilies are known: Aphelopinae and Gonatopodinae. The host records mentioned in the present paper for *Aphelopus trinitatis* Olmi and *Aphelopus diffusus* Olmi are the first for the genus *Aphelopus* in the Neotropic Region and the first for the subfamily Aphelopinae in Argentina. In addition, hosts of 9 species of Gonatopodinae are listed, including new host data for *Gonatopus silvestrii* Kieffer, *Haplogonatopus hernandezae* Olmi and *Trichogonatopus hispidus* Olmi.

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APPENDIX

HOSTS RECORDS FOR ARGENTINA DRYINIDS

For further informations on the present world situation see Guglielmino and Olmi (1997)

FULGOROMORPHA

Delphacidae

Delphacodes haywardi Muir

Gonatopus chilensis (Olmi), **Argentina**: De Santis and Virla (1991) (misid. *Pseudogonatopus flavus* Olmi); Olmi and Virla (1993); Virla (1995).

Haplogonatopus hernandezae Olmi, **Argentina**: Virla and Olmi (1997, in press).

Delphacodes kuscheli Fennah

Gonatopus chilensis (Olmi), **Argentina**: Olmi and Virla (1993); Virla (1995).

Haplogonatopus hernandezae Olmi, **Argentina**: Virla and Olmi (1997, in press).

Delphacodes sitarea Remes Lenicov and Tesón

Gonatopus chilensis (Olmi), **Argentina**: Virla (1995).

Haplogonatopus hernandezae Olmi, **Argentina**: Virla and Olmi (1997, in press).

Dicranotropis fuscoterminata Bergevin

Gonatopus chilensis (Olmi), **Argentina**: Virla (1995)

Sogatella sp.

Gonatopus chilensis (Olmi), **Argentina**: Virla (1995)

Togasodes orizicolus (Muir)

Haplogonatopus hernandezae Olmi, **Colombia**: Hernández (1984); Hernández and Belloti (1984).

Haplogonatopus hernandezae Olmi, **Costa Rica**: Olmi (1984).

Haplogonatopus hernandezae Olmi, **Panamá**: Fiori (1984)

Toya argentinensis Remes Lenicov and Tesón

Gonatopus chilensis (Olmi), **Argentina**: new record

Haplogonatopus hernandezae Olmi, **Argentina**: new record

Toya propinqua (Fieber)

Gonatopus chilensis (Olmi), **Argentina**: De Santis and Virla (1991) (misid. *Pseudogonatopus flavus* Olmi); Olmi and Virla (1993); Virla (1995).

Haplogonatopus hernandezae Olmi, **Argentina**: Virla and Olmi (1997, in press)

CICADOMORPHA

Cicadellidae

Typhlocibinae

Empoasca kraemeri Ross and Moore

Aphelopus trinitatis Olmi, **Argentina**: new record

Aphelopus diffusus Olmi, **Argentina**: new record

Empoasca manubriata Young

Aphelopus diffusus Olmi, **Argentina**: new record

Agalliinae

Agalliana ensigera Oman

Gonatopus caraibicus (Olmi), **Argentina**: Virla (1992) (misid. *Tetrodontocheilus peculiaris* (Brues)) (Only preyed)

Gonatopus desantisi Olmi and Virla, **Argentina**: Olmi and Virla (1993); Virla (1994).

Gonatopus fidalgoi Virla, **Argentina**: Virla (1997)

Deltocephalinae

Athysanini

Chlorotettix sp.

Gonatopus caraibicus (Olmi), **Argentina**: new record.

Exitianus obscurinervis (Stål)

Gonatopus caraibicus (Olmi), **Argentina**: De Santis et al. (1988); Virla (1992) (misid. *Tetrodontocheilus peculiaris* (Brues)); Olmi and Virla (1993).

Gonatopus desantisi Olmi and Virla, **Argentina**:

Virla (1992) (misid. *Gonatopus flavipes* Olmi); Olmi and Virla (1993); Virla (1994).

Gonatopus silvestrii Kieffer, **Argentina**: new record

Gonatopus doellojuradoi (Ogloblin) complex, **Argentina**: Virla (1998)

Balcluthini

Balclutha sp.

Gonatopus breviforceps Kieffer, **Ecuador**: Guglielmino and Olmi (1997)

Deltocephalini

Amplicephalus dubius (Linnavuori)

Gonatopus caraibicus (Olmi), **Argentina**: Virla (1992) (misid. *Tetrodotochelys peculiaris* (Brues))

Gonatopus desantisi Olmi and Virla, **Argentina**: Virla (1992) (misid. *Gonatopus flavipes* Olmi); Virla (1994).

Amplicephalus marginellanus var. *faminoides* Linnavuori

Gonatopus desantisi Olmi and Virla, **Argentina**: new record

Amplicephalus simpliciusculus Linnavuori

Gonatopus caraibicus (Olmi), **Argentina**: Virla (1992) (misid. *Tetrodotochelys peculiaris* (Brues))

Gonatopus desantisi Olmi and Virla, **Argentina**: Virla (1992) (misid. *Gonatopus flavipes* Olmi); Virla (1994).

Gonatopus silvestrii Kieffer, **Argentina**: new record

Gonatopus doellojuradoi (Ogloblin) complex, **Argentina**: Virla (1998)

Amplicephalus sp.

Gonatopus caraibicus (Olmi), **Argentina**: Olmi and Virla (1993).

Gonatopus desantisi Olmi and Virla, **Argentina**: De Santis and Virla (1991) (misid. *Gonatopus flavipes* Olmi); Olmi and Virla (1993); Virla (1994)

Gonatopus silvestrii Kieffer, **Argentina**: new record

Graminella stelliger viridescens Linnavuori

Gonatopus caraibicus (Olmi), **Argentina**: Virla (1992) (misid. *Tetrodotochelys peculiaris* (Brues))

Gonatopus desantisi Olmi and Virla, **Argentina**: Virla (1992) (only preyed) (misid. *Gonatopus flavipes* Olmi)

Haldorus sexpunctatus (Berg)

Gonatopus caraibicus (Olmi), **Argentina**: Virla (1992); Olmi and Virla (1993) (misid. *Tetrodotochelys peculiaris* (Brues))

Gonatopus desantisi Olmi and Virla, **Argentina**: Virla (1992) (misid. *Gonatopus flavipes* Olmi); Olmi and Virla (1993); Virla (1994).

Gonatopus silvestrii Kieffer, **Argentina**: new record.

Gonatopus doellojuradoi (Ogloblin) complex, **Argentina**: Virla (1998)

Hecalini

Spångbergiella sp.

Gonatopus virlai Olmi, **Argentina**: Virla and Olmi (1994)

Trichogonatopus hispidus Olmi, **Argentina**: new record

Macrostelini

Dalbulus elimatus (Ball)

Gonatopus bartletti Olmi, **México**: Vega (1989a, 1989b, 1989c); Vega and Barbosa (1990)

Gonatopus flavipes Olmi, **México**: Moya-Raygoza (1990, 1993); Moya-Raygoza and Trujillo-Arriaga (1993a, 1993b).

Dalbulus maidis (De Long and Wolcott)

Gonatopus bartletti Olmi, **Puerto Rico**: Bartlett (1939); **México**: Vega (1989a, 1989b, 1989c); Vega and Barbosa (1990); Moya-Raygoza (1990); Moya-Raygoza and Trujillo-Arriaga (1993a, 1993b); **Nicaragua**: Guglielmino and Olmi (1997).

Gonatopus caraibicus (Olmi), **Argentina**: Virla (1992) (misid. *Tetrodotochelys peculiaris* (Brues)).

Gonatopus desantisi Olmi and Virla, **Argentina**: Virla (1992) (misid. *Gonatopus flavipes* Olmi).

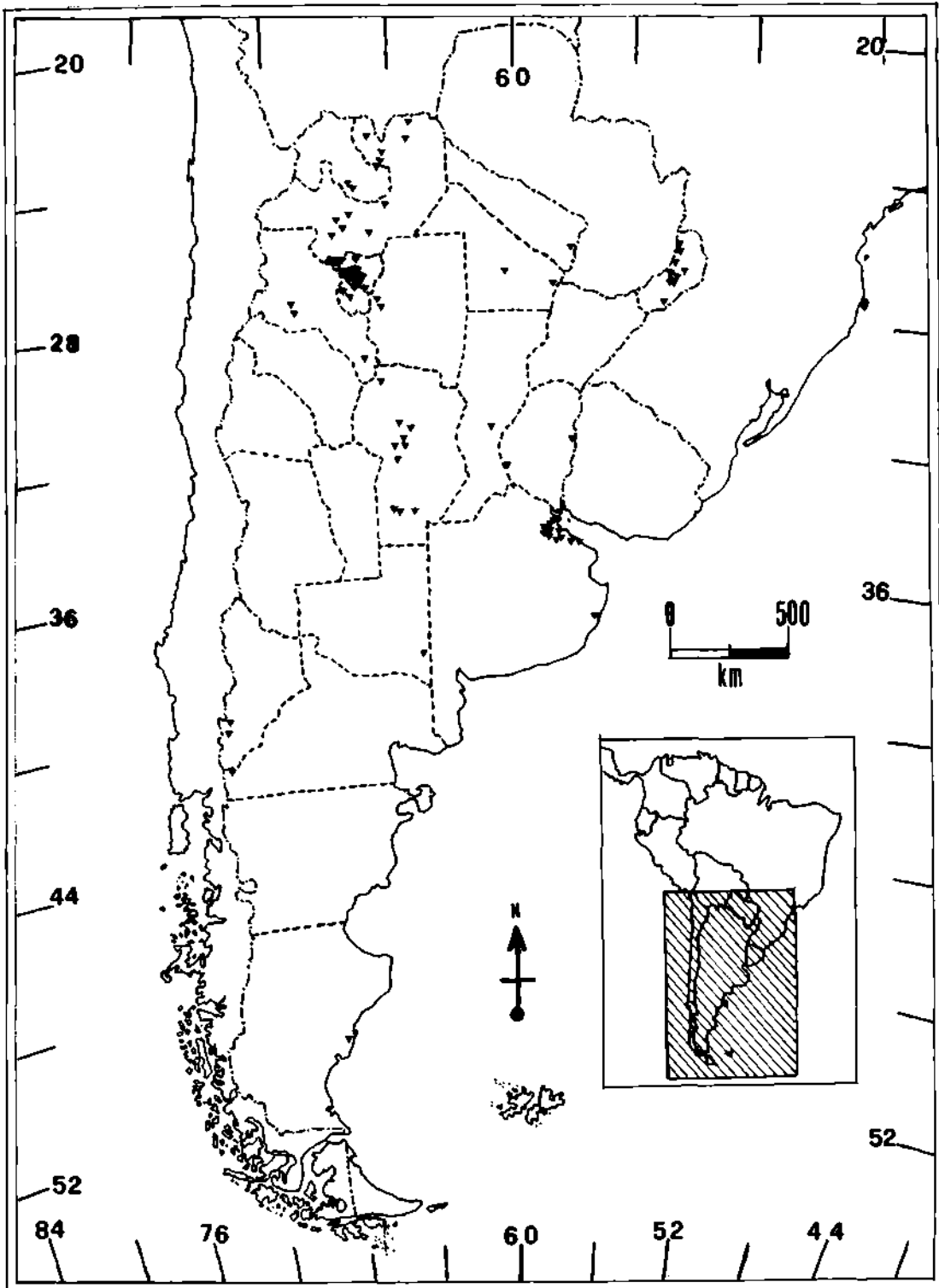


Figure 1. Argentina. Localities with dryinid fauna records