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Dryinidae of the Neotropical region (Hymenoptera: Chrysidoidea)

MASSIMO OLMI¹ & EDUARDO G. VIRLA^{2*}

¹ Tropical Entomology Research Center, Via de Gasperi 10, I-01100 Viterbo, Italy. E-mail: olmimassimo@gmail.com; olmi@unitus.it

² CONICET, Inst. of Entomology, Fund. M. Lillo, M. Lillo 251 (4000) S. M. Tucumán, Tucumán, Argentina.

E-mail: evirla@hotmail.com

* Corresponding author: E-mail: evirla@hotmail.com



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MASSIMO OLMI & EDUARDO G. VIRLA

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Abstract

An updated revision of Neotropical Dryinidae is presented. Seven subfamilies, 23 genera and 502 species are treated. Descriptions, geographic distribution, known hosts, natural enemies and type material of each species are presented, together with illustrations of the main morphological characters and keys to the subfamilies, genera and species. Complete lists of references concerning the Neotropical Dryinidae and their hosts are given. A new genus *Peckius* Olmi & Virla, **gen. nov.** (type species *Peckius insularis* Olmi & Virla, **sp. nov.**) (subfamily Apodryininae) is described. The following eleven new species are described: *Anteon xochipalense* Olmi & Virla, **sp. nov.** (Mexico, Guerrero), *Deinodryinus levigatus* Olmi & Virla, **sp. nov.** (Peru, Lamabayeque), *Deinodryinus xanthonotatus* Olmi & Virla, **sp. nov.** (French Guiana), *Dryinus semiruber* Olmi & Virla, **sp. nov.** (Argentina, Corrientes), *Dryinus valens* Olmi & Virla, **sp. nov.** (Dominican Republic, Pedernales), *Dryinus xanthopus* Olmi & Virla, **sp. nov.** (French Guiana), *Megadryinus cacaonis* Olmi & Virla, **sp. nov.** (Brazil, São Paulo), *Gonatopus isabelensis* Olmi & Virla, **sp. nov.** (Ecuador, Galapagos Islands), *Gonatopus villamilensis* Olmi & Virla, **sp. nov.** (Ecuador, Galapagos Islands), *Neodryinus mayanus* Olmi & Virla, **sp. nov.** (Honduras), and *Peckius insularis* Olmi & Virla, **sp. nov.** (Ecuador, Galapagos Islands). The following new synonymies are presented: *Deinodryinus kawensis* Olmi 2011b (April) (= *D. caxiuana* Coelho, Aguiar & Engel, 2011 (June), **syn. nov.**); *Dryinus gibbosus* Olmi, 1984 (= *D. multicarinatus* Coelho, Aguiar & Engel, 2011, **syn. nov.**); *Dryinus striatus* (Fenton, 1927) (= *D. sinopensis* Olmi, 1984, **syn. nov.**; = *D. cerrensis* Olmi, 2004a, **syn. nov.**); *Gonatopus* Ljungh, 1810 (= *Trichogonatopus* Kieffer, 1909, **syn. nov.**); *Eucamptonyx dromedarius* (Cameron 1888) (= *E. hansonii* Olmi, 1991, **syn. nov.**); *Haplogonatopus hernandezae* Olmi, 1984 (= *H. crucianus* Olmi, 1986, **syn. nov.**). The following new combinations are proposed: *Eucamptonyx dromedarius* (Cameron, 1888), **comb. nov.** (from *Gonatopus*); *Gonatopus goiasensis* (Olmi 1991), **comb. nov.** (from *Trichogonatopus*); *G. hispidus* (Olmi 1984), **comb. nov.** (from *Trichogonatopus*); *G. longinoi* (Olmi, 1998d), **comb. nov.** (from *Trichogonatopus*); *G. marinoae* (Virla, 1997), **comb. nov.** (from *Trichogonatopus*); *G. neotropicus* (Olmi, 1984), **comb. nov.** (from *Trichogonatopus*); *G. raptor* (Fenton, 1927), **comb. nov.** (from *Chalcogonatopus*); *G. rubri-*

ceps (Kieffer, 1909), **comb. nov.** (from *Trichogonatopus*); *G. stellaris* (Virla, 1997), **comb. nov.** (from *Trichogonatopus*). The male of *Crovettia brasiliiana* Olmi 1984, is described for the first time.

Key words: taxonomy, revision, Neotropical region, descriptions, hosts, distribution, type material, keys, depositories

Introduction

Dryinidae (Hymenoptera: Chrysidoidea) are parasitoids of Hemiptera Auchenorrhyncha (Guglielmino & Olmi 1997, 2006, 2007; Guglielmino *et al.* 2013).

The first dryinid species described from the Neotropical region is *Metanteon aerias* (Walker 1839). Its holotype is a nice chelate female collected by Charles Darwin in Chile during his famous trip by HMS Beagle. Later Cameron (1888), in his “Biologia Centrali-Americana”, and Ashmead (1894, 1895) completed the literature on the Neotropical Dryinidae printed during the nineteenth century.

The species of Dryinidae present in the Neotropical zoogeographical region were studied in the first half of 1900 by few researchers (Arlé 1935; Ashmead 1900; Bartlett 1939; Bruch 1915; Fenton 1921, 1924, 1927; Kieffer 1904; 1905a, 1905b, 1906, 1909, 1911b, 1912, 1914; Kieffer & Marshall 1904–06; Ogloblin 1932, 1938; Richards 1936, 1947, 1948). The Kieffer’s world monograph of Dryinidae (1914) should be considered the most important contribution of that time to the knowledge of Neotropical species. However, afterwards, studies on Neotropical Dryinidae did not have substantial progresses mainly because of the confusion existing in the systematics. The previous attempt of Kieffer to give order to the family obtained few results, mainly because the descriptions and keys to species in Kieffer’s monograph are almost completely unreliable.

The first important attempt to create a workable systematics of Dryinidae was that of Richards (1939, 1953) mainly related to the British species. After Kieffer, one of the authors (Olmi) was the first researcher (and still unique) trying to give order to the dryinid taxonomy on a modern world basis. His world monograph (Olmi 1984) included all species known at that time in a system of subfamilies and genera that also today represents the base of all studies on Dryinidae. In Olmi’s world monograph (1984) 213 species, belonging to six subfamilies and 24 genera, were recognized in the Neotropical region.

After 1984, Olmi continued to study Dryinidae by publishing a lot of papers, many of which concerning the Neotropical fauna (Olmi 1986, 1987a, 1987b, 1987c, 1987d, 1990b, 1991, 1992a, 1992b, 1992c, 1993a, 1993b, 1993c, 1994a, 1995a, 1995c, 1995d, 1995e, 1996a, 1996c, 1998a, 1998c, 1998d, 1999a, 1999c, 1999e, 2003a, 2004a, 2004b, 2005a, 2005b, 2006, 2008a, 2008b, 2010, 2011a, 2011b).

Argentina is one of the largest countries of the Neotropical region. The first efforts to better the knowledge of Argentina dryinids were those of Ogloblin (1938), followed by De Santis (1967) and his school (De Santis *et al.* 1988; De Santis & Vidal Sarmiento 1974; De Santis & Virla 1991). However, the biggest results were obtained afterwards by one of the authors (Virla). He collected a lot in Argentina and published a long series of papers (Virla 1992, 1994, 1995, 1997, 1998, 2000a, 2000b, 2001, 2003a, 2003b, 2004; Olmi & Virla 1993, 2004, 2006, 2008; Virla *et al.* 2010, 2011; Virla & Mangione 2000; Virla & Olmi 1994, 1998a, 1998b, 2001, 2007a, 2007b, 2008a, 2008b).

The other Neotropical countries were less studied than Argentina, with the exception of Costa Rica, where the number of known species is larger (Olmi 1993a). In Mexico, after the first description of a dryinid species by R. Perkins (*Dryinus mexicanus* (R. Perkins 1907)), the dryinid fauna was investigated at first by Vega (1989a, 1989b, 1989c) and Vega & Barbosa (1990), followed by Moya-Raygoza (1990, 1993, 1994, 2007), Moya-Raygoza *et al.* (2004, 2006), Moya-Raygoza & Olmi (2010) and Moya-Raygoza & Trujillo Arriaga (1993a, 1993b). In Colombia the knowledge of the dryinid fauna received a big impulse thanks to the work of Fernando Fernández and Michael Sharkey. They collected a lot, giving to one of the authors (Olmi) the possibility to describe many new species (Olmi 1998d, 2004a, 2011b). The same Fernández published with Olmi a paper on the dryinid fauna of Colombia (Fernández & Olmi 1999). In Paraguay Garcete-Barrett collected large series of dryinids. They were studied by Olmi (1996a, 1998d). The same Garcete-Barrett summarized the knowledge of dryinids from Paraguay in some papers (Garcete-Barrett 2001; Garcete-Barrett & Olmi 1996). In Brazil, the studies on Dryinidae were made mainly by Olmi (1984, 1986, 1987a, 1991, 1993c, 1995e, 1998d, 2003, 2004b, 2010, 2011a), though in the last years some researchers have collected a lot (Coelho *et al.* 2011). In addition, Loíacono & Margaría (2002) have presented a catalogue of Diapriidae of Brazil, indicating two species of Ismarinae (*Ismarus neotropicus* Masner, 1976, and *I.*

Type: BRAZIL: Rio de Janeiro, Petropolis, Alto da Serra, 23.XI.1934, R. Arlé leg.

The type (only known specimen) was a female specimen. It has not been found in the main world dryinid collections (Olmí 1984). According to Mr. Arlé (pers. comm.) the type has to be considered lost. Arlé (1935) proposed for this species the new genus *Ctenodryinus*. The original description is unreliable, so that it is impossible to identify this species.

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