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New records of *Dipsocoromorpha*, *Cimicomorpha* and *Pentatomomorpha* (Hemiptera: Heteroptera) from Argentina

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Abstract

Twenty species of Heteroptera belonging to seven families are recorded for the first time for Argentina: Ceratocombidae (1 sp.), Reduviidae (1 sp.), Miridae (4 sp.), Nabidae (5 sp.), Largidae (2 sp.), Rhyparochromidae (4 sp.), Berytidae (1 sp.), Colobathristidae (1 sp.) and Pachygronthidae (1 sp.). The following genera represent new records from Argentina: *Astemmoplitus*, *Bathycles*, *Tenuicoris*, *Pseudopamera* (Rhyparochromidae), *Diascopoea* (Colobathristidae). A new synonym in the family Largidae is established: *Lergus umbrosus* Distant is considered a junior synonym of *Lergus trochanterus* Signoret.

Key words: Ceratocombidae, Reduviidae, Miridae, Nabidae, Largidae, Rhyparochromidae, Berytidae, Colobathristidae, Pachygronthidae

Introduction

With the aim of improving the knowledge of the biodiversity of terrestrial Heteroptera from Argentina, the authors have published a series of contributions with new records for the country (Carpintero & Carvalho 1993, Melo & Coscarón 2004, Melo *et al.* 2004; Carpintero *et al.* 2006). Continuing with this goal, in this paper the authors record 20 species of Heteroptera for the first time from Argentina, belonging to seven families: Ceratocombidae (1 sp.), Reduviidae (1 sp.), Miridae (4 sp.), Nabidae (5 sp.), Largidae (2 sp.), Rhyparochromidae (4 sp.), Berytidae (1 sp.), Colobathristidae (1 sp.), and Pachygronthidae (1 sp.).

Our knowledge of the diversity of Argentinean Heteroptera is far to be complete; particularly in certain families due to the absence of specialists. This is evident for example in the small family Nabidae for which the authors recorded five species for the first time after the survey and study of collections. This is also true in highly diverse families, such as Miridae and Reduviidae, despite specialists are working on the Argentinean fauna. Carpintero & Carvalho (1993) mentioned 431 species of Miridae from Argentina, a number that has increased about 50% since, with the description of more species and new country records reported. The first record of the family Ceratocombidae from Argentina was given by Carpintero and Farina (2005) in the VI Congreso Argentino de Entomología, and later published by Marrero *et al.* (2008) as *Ceratocombus* sp. Herein, we mention for the first time a species previously known only from Brazil.

The rhyparochromid genera *Astemmoplitus* Spinola, *Bathycles* Distant, *Tenuicoris* Slater & Harrington, *Pseudopamera* Distant, and the colobathristid genus *Diascopoea* Horváth represent new records for Argentina. The largid *Lergus umbrosus* Distant is considered a junior synonym of *Lergus trochanterus* Signoret.

The material examined belongs to the collections of Museo Argentino de Ciencias Naturales, Argentina (MACN); Museo de La Plata, Buenos Aires, Argentina (MLP); and National Museum of Natural History, Smithsonian Institution, Washington, DC, USA (USNM).

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Results**Dipsocoromorpha****Ceratocombidae****Ceratocombinae*****Ceratocombus (Xylonannus) cuneatus* Mc Atee & Malloch 1925**

Ceratocombus (Xylonannus) cuneatus Mc Atee & Malloch 1925: 7

Geographic distribution: Brazil (McAtee & Malloch 1925).

Studied material: ARGENTINA. *Misiones*: 1 male, Montecarlo, III-94, CDC (Trap), Carpintero (MACN). *Corrientes*: 1 male (?), Santa Tecla, III-94, CDC (trap), Carpintero (MACN). *Entre Ríos*: 1 male, Concordia, I-80 (light) (MACN).

Cimicomorpha**Reduviidae****Harpactorinae*****Lindus sahlbergi* (Stål 1860)**

Zelus sahlbergi Stål 1860: 78

Geographic distribution: Brazil, Mexico? (Maldonado Capriles 1990).

Studied material: *Misiones*: 1 male 1 female, 16-IX/20-X-1977 (MACN).

Nabidae**Nabinae*****Hoplistoscelis sordidus* (Reuter 1872)**

Nabis sordidus Reuter 1872: 85

Geographic distribution: From USA to Brazil (Harris 1928, Henry & Lattin 1988).

Studied material: ARGENTINA. *Entre Ríos*: 1 female, Liebig, II-75 (MACN).

***Lasiomerus spinicrus* (Reuter 1890)**

Nabis (Acanthonabis) spinicrus Reuter 1890: 305

Geographic distribution: Bolivia, Brazil, Ecuador, Guyana, Peru (Harris 1928, Henry & Lattin 1988).

Studied material: *Corrientes*: 1 male, Ituzaingó, V-96, Carpintero (MACN).

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Prostematini***Alloeorhynchus (Alloeorhynchus) moritzii* (Stein 1860)**

Prostemma moritzii Stein 1860: 77

Geographic distribution: Virgin Is. (USA) (Harris 1928, Henry & Lattin 1988).

Studied material: ARGENTINA. *Formosa*: 2 females, Ea. La Marcela, 35 km. E. El Colorado, X-07, (luz), Dellapé (MACN). *Chaco*: 1 female, P. N. Chaco, I-81, Barriga (MACN). *Misiones*: 1 female, Cuña-Pirú, XII-04, (Luz), J. Williams (MACN). *Corrientes*: 1 female, Ituzaingó, Reserva Santa María, Trampa de luz, 27-IV-2004, Melo (MACN).

A. (A.) *vittativentris* Stål 1873

A. (A.) vittativentris Stål 1873: 109

Geographic distribution: Colombia (Harris 1928, Henry & Lattin 1988).

Studied material: ARGENTINA. *Misiones*: 1 male, Pto. Iguazú, Int(endencia), X-89, Carpintero (MACN).

***Pagasa luteiceps* (Walker 1873)**

Prostemma luteiceps Walker 1873: 135

Geographic distribution: Brazil, Colombia, Uruguay, Venezuela (Harris 1928, Henry & Lattin 1988).

Studied material: ARGENTINA. *Formosa*: 1 female, Isla Oca, II-58 (MACN). *Corrientes*: 1 female, Ituzaingó, Reserva Santa María, Trampa de luz, 26-IV-2003, Melo (MACN). *Santiago del Estero*: 1 female, Añatuya, III-99, (Luz), D. J. Carpintero (MACN). *Santa Fe*: 1 female, Isla Timbó, IV-1972 (MACN). *Entre Ríos*: 2 females, Ruinas del viejo molino, Dto. Colón, III-03, (luz), Grandinetti-Cicchino (MACN).

Miridae: Cylapinae**Cylapini*****Cylapocoris sulinus* Carvalho & Gomes 1971**

Cylapocoris sulinus Carvalho & Gomes 1971: 486

Geographic distribution: Brazil, Paraguay.

Studied material: ARGENTINA. *Misiones*: 1 Male, Corpus, III-2005, CDC (trap) (MACN).

Orthotylinae**Orthotylini*****Araucanocoris araucanus* Carvalho 1983**

Araucanocoris araucanus Carvalho 1983: 414

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Geographic distribution: Chile (Carvalho 1983).

Studied material: ARGENTINA. *Mendoza*: 1 female Santa Rosa, Ñacuñán, 24/3/98, Col. G. Debandi, on *Atriplex lampa* (MACN).

***Jobertus gabrieli* Carvalho 1987**

Jobertus gabrieli Carvalho 1987: 230

Geographic distribution: Brazil (Carvalho 1987).

Studied material: ARGENTINA. *Misiones*: 1 male, Eldorado, XI-03, CDC (trap) (MACN).

Mirinae

Herdoniini

***Allommatisca squamosa* Carvalho & Ferreira 1973**

Allommatisca squamosa Carvalho & Ferreira 1973: 106

Geographic distribution: Brazil, Paraguay (Carvalho & Ferreira 1973).

Studied material: ARGENTINA. *Corrientes*: 3 males, Ituzaingó, (luz), XII-1995 (MACN).

Pentatomomorpha

Largidae

Larginae

Largini

***Largus balteatus* Stål 1870**

Largus balteatus Stål 1870: 93

Geographic distribution: Bolivia, Brazil, Peru (Hussey 1929).

Studied material: ARGENTINA. *Formosa*: 2 males, Río Pilcomayo, 50 km Oeste Clorinda, 25-I-1940, ex coll. Denier, *Largus balteatus* det. Stehlík 1969 (MLP); 1 male, Puerto Pilcomayo, Garcete-Cue, 1-X-1940, ex coll. Denier, *Largus balteatus* det. Stehlík 1969 (MLP); 1 male, Clorinda, III-1940, ex coll. Denier, *Largus balteatus* det. Stehlík 1969 (MLP); 1 male 1 female, same data, 15-X-1937 (MLP); 1 male, same data, 16-X-1937 (MLP); 1 female, same data, IV-1940 (MLP).

***Largus trochanterus* Signoret 1862**

Largus trochanterus Signoret 1862: 583

Largus umbrosus Distant 1901: 587 **New synonymy**

Geographic distribution: Brazil, Guyana, Peru, Surinam, West Indies (Distant 1901, Hussey 1929, Doesburg 1966).

Studied material: ARGENTINA. *Misiones*: 3 females 1 male, Loreto, III-1936, ex coll. Bosq, *Largus trochanterus trochanterus* det. Stehlík 1973 (MLP); 1 female, ex coll. Berg, *Largus trochanterus*

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trochanterus det. Stehlik 1973 (MLP); 1 female, 9-XI-1899, S. Venturi col. (MACN); 1 macho, INTA San Antonio, 17-05-2009, L. Negrete col. (MLP). *Jujuy*: 1 female (MACN). *Salta*: 1 male, Orán, Aguas blancas, 15-II-[19]59, Vollenweider leg. (MACN); 1 male 1 without abdomen, Orán (MACN).

Discussion:

Signoret's original description of *L. trochanterus* (1862), Distant's original description of *L. umbrosus* (1901), and the redescription of this species made by Doesburg (1966) are quite similar.

Doesburg (1966) gave a detailed description of *L. umbrosus* Distant, as well as illustrations of habitus, pygophore and parameres; and he stated that the specimens from Surinam perfectly agree with the holotype of the species. Then he synonymized *L. trochanterus* var. *surinamensis* Schmidt 1931 under *L. umbrosus* Distant.

The identification of Amyot & Serville (1843) of *L. lineola* was considered as *L. trochanterus* by Hussey (1929) and as *L. umbrosus* by Doesburg (1966). The identification of Blöte (1931) of *L. trochanterus* was considered as *L. umbrosus* by Doesburg (1966).

We studied material from Argentina deposited in MLP and determined as *L. trochanterus* by Stehlik that totally agree with Distant's and Doesburg's descriptions of *L. umbrosus*.

We concluded that both specific names are referred to the same taxon, therefore we considered a *L. umbrosus* Distant a junior synonym of *L. trochanterus* Signoret.

Rhyparochromidae

Rhyparochrominae

Udeocorini

Astemmoplitus nitidus (Blanchard 1852)

Pachymerus nitidus Blanchard 1852: 150

Geographic distribution: Chile (Blanchard 1852).

Studied material: ARGENTINA. *Rio Negro*: 1 male, Lago Mascardi, 41°21'S 71°32'W, S. Rubilis, Dec.-Jan. 1985, in water tank, *Astemmoplitus nitidus* (Blanc.) Froeschner 87 (USNM).

Bathycles amarali (Correa 1956)

Barnsleyia amarali Correa 1956: 119–124

Geographic distribution: Brazil (Correa 1956).

Studied material: ARGENTINA. *Córdoba*: 2 males, Dique Chico, Alta Gracia, Julio (19)74, Col. Dr. Carpintero Argentina, *Bathycles amarali* (Correa) det. Slater 1981 (MACN). *Chaco*: 1 male, R. S. Peña, VII-1971, Col. Dr. Carpintero Argentina, *Bathycles amarali* (Correa) det. Slater 1981 (MACN). *Salta*: 1 female, Urundel, III-1950, Martinez col. (MACN).

Myodochini

Tenuicoris myrmeforme Slater & Harrington 1974

Tenuicoris myrmeforme Slater & Harrington 1974: 174–176

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Geographic distribution: Bolivia, Brazil, Peru.

Studied material: ARGENTINA. *Formosa*: 1 male 1 female, Río Pilaga, 10–20 Feb. 1990, L. A. Pereira (USNM).

***Pseudopamera setosa* (Stål 1874)**

Pamera setosa Stål 1874: 150

Geographic distribution: Guatemala, Mexico, USA (Slater 1964).

Studied material: ARGENTINA. *Misiones*: 1 male, Argentina, Meloidie, H. L. Parker 1942, *Pseudopamera setosa* det. H. Brailovsky (USNM).

Berytidae**Metacanthinae****Metacanthini*****Jalysus macer* (Stål 1859)**

Metacanthus macer Stål 1859: 236

Geographic distribution: Brazil, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Guatemala, Guyana, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, USA (Henry 1997).

Studied material: ARGENTINA. *Salta*: 1 female 1 s/a, San Lorenzo, 18-I-51, P. Wygodzinsky, *Jalysus macer* (Stål) det. T. H. Henry 1997 (USNM); 1 s/a same data, 11-I-87 (USNM). *Buenos Aires*: 1 male 1 female, Punta Lara, III-1998, D. L. Carpintero col., *Jalysus macer* (Stål) det. Dellapé 2008 (MACN).

Colobathristidae***Diascopoea debilis* Horváth 1904**

Diascopoea debilis Horváth 1904: 157

Geographic distribution: Peru (Horváth 1904).

Studied material: ARGENTINA. *Misiones*: 1 male, Nov-23-1941, H. L. Parker, C.J. Drake coll. 1956 (USNM); 1 male, Pto, Iguazu, Nov.-1987 (USNM); 1 female, Iguazu, X-(19)84 (USNM); 1 female, Apartado, Nov. (19)80 (USNM).

Pachygronthidae**Pachygronthinae****Pachygronthini*****Pachygrontha oedancalodes carvalhoi* Slater 1955**

Pachygrontha oedancalodes carvalhoi Slater 1955: 38–39

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Geographic distribution: Brazil, Ecuador, Uruguay (Slater 1964).

Studied material: ARGENTINA. *Tucumán*: 1 male 1 female, Quebrada de la Angostura, Tafí del Valle, 1800 m., 26/11/53, T. Ramirez collector, *Pachygrontha oedancalodes carvalhoi* Slater, det. P.D. Ashlock '60 (USNM).

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