

Type specimens of true bugs (Hemiptera: Heteroptera) housed in the Museu de Zoologia da Universidade de São Paulo, Brazil

Renan Carrenho^{1,4}; Higor D.D. Rodrigues^{1,2,3}; Adriana Carneiro de Lima^{3,6} & Cristiano F. Schwertner^{1,3,7}

¹ Universidade de São Paulo (USP), Museu de Zoologia (MZUSP). São Paulo, SP, Brasil.

² Instituto Oswaldo Cruz (IOC), Laboratório de Biodiversidade Entomológica. Rio de Janeiro, RJ, Brasil.

³ Universidade Federal de São Paulo (UNIFESP), Departamento de Ecologia e Biologia Evolutiva. Diadema, SP, Brasil.

⁴ ORCID: <http://orcid.org/0000-0003-4268-7309>. E-mail: renan.carrenho@gmail.com (corresponding author)

⁵ ORCID: <http://orcid.org/0000-0002-9649-4142>. E-mail: higorddr@gmail.com

⁶ ORCID: <http://orcid.org/0000-0001-8390-9313>. E-mail: drilima1001@gmail.com

⁷ ORCID: <http://orcid.org/0000-0001-5104-4925>. E-mail: schwertner@unifesp.br

Abstract. This paper provides a record of the type specimens of Heteroptera (Insecta: Hemiptera) housed in the *Museu de Zoologia da Universidade de São Paulo, Brazil* (MZUSP), with information on 65 primary types and 316 secondary types. These type specimens represent 116 nominal species, currently classified in five infraorders and 14 families. The taxa are presented alphabetically, followed by bibliographic citation, type status, preservation method, collection data, and taxonomic remarks when appropriate.

Key-Words. Heteroptera; True bugs; Taxonomy; List of type material; MZUSP.

INTRODUCTION

The insects commonly known as true bugs (Heteroptera) currently comprise seven monophyletic lineages with infraorder status, which account for more than 40,000 described species (Weirauch & Schuh, 2011). Members of the infraorders Enicocephalomorpha and Dipsocoromorpha are usually found on the surface or underneath soil debris and leaf litter; members of Gerromorpha, Nepomorpha and Leptopodomorpha are associated with aquatic environments; and members of Cimicomorpha and Pentatomomorpha, known as terrestrial true bugs, live in a wide variety of habitats (Schuh & Slater, 1995).

The *Museu de Zoologia da Universidade de São Paulo* (MZUSP) is a major biodiversity repository in Latin America, and houses a wealth of research specimens, providing thousands of specimens to worldwide specialists each year (Landim, 2011). MZUSP holdings account for over 10 million animal specimens, with approximately seven thousand primary types (Ulysséa *et al.*, 2015). A series of catalogues have been recently published to document this material (*e.g.*, Valim, 2009; Onody *et al.*, 2014; Falaschi *et al.*, 2016, 2018; Santos

et al., 2017). The entomology collection at MZUSP houses approximately 2.2 million mounted specimens with an additional 2.5 million that await to be processed (Taddei *et al.*, 1999; Ferreira *et al.*, 2016).

Historically, Hemiptera is one of the few collections at the MZUSP that never employed a full-time specialist curator. Although renowned Hemiptera researchers worked in the city of São Paulo in the first half of the 20th century (*e.g.*, Adolf Hempel, José Pinto da Fonseca, Edson J. Hambleton, and Oscar Monte), all of them were formally affiliated with the *Instituto Biológico* (IB), a research division of the Department of Agriculture of the State of São Paulo, which was later incorporated into the Secretariat of Agriculture and Supplies. Like many other insect groups, the earliest Heteroptera specimens from MZUSP date back to the early 20th century and were mainly collected by Hermann von Ihering, Hermann von Lüderwaldt, Adolf Hempel and Ernest Garbe (C. Campaner, personal communication). At that time, the entomology collection was part of the *Museu Paulista* (Landim, 2011), which housed both historical documents and natural history specimens. However, it was later

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incorporated into a newly-established zoology museum (MZSUP) in the late 1960s (Evangelista *et al.*, 2014). This holding includes an extensive amount of species described and/or identified by specialists with great historical significance to Hemiptera systematics (*e.g.*, Albino M. Sakakibara; Olivia Evangelista; Rodney R. Cavichioli; José Cândido de M. Carvalho; José De Carlo; Felipe F.F. Moreira; Nico Nieser; Carl Drake; Harry Brailovsky; Nicholas Kormilev; Jocélia Grazia).

The first catalogue of hemipteran types at the MZUSP was recently published for treehoppers (Auchenorrhyncha: Membracidae) (Evangelista *et al.*, 2014). Following a recommendation by the International Code of Zoological Nomenclature (72F.4), we hereby provide a list of the Heteroptera types as a contribution to the knowledge of the institution's holdings.

MATERIAL AND METHODS

This catalogue contains information on all primary and secondary types of Heteroptera held by the *Museu de Zoologia da Universidade de São Paulo*. Infraorders, families, genera, and species are presented in alphabetical order. Specimen data was extracted from labels, and when necessary, annotated based on original descriptions. The Heteroptera types of this collection do not have unique accession numbers.

The data provided for the type specimens are organized according to the following sequence: genus, species epithet, author, year of publication, page and figure(s) in the original publication, type status, gender, wing traits (if polymorphic), method of preservation, locality data and collector. Types are listed according to their original combination and, when applicable, subsequent taxonomic changes or type designations are indicated. Label transcriptions are cited verbatim, and when abbreviated or incomplete, annotations are provided within brackets to prevent any ambiguity. In some cases, type specimens were originally designated to other institutions, but due to various historical factors, were later deposited at MZSUP. Therefore, this catalogue lists all type specimens whose current repository is the MZUSP, even when it has been stated otherwise in the original description.

RESULTS

A total of 65 primary types (61 holotypes and four lectotypes) and 316 secondary types (307 paratypes, 6 allotypes and 3 paralectotypes) were found (Table 1). These type specimens represent 116 nominal species across 5 infraorders and 14 heteropteran families: Cimicomorpha (Miridae, Reduviidae and Tingidae), Enicocephalomorpha (Enicocephalidae), Gerromorpha (Gerridae and Veliidae), Nepomorpha (Potamocoridae, Naucoridae, Nepidae and Notonectidae), and Pentatomomorpha (Aradidae, Coreidae, Pentatomidae and Rhyparochromidae). Type specimens are listed below.

Table 1. Type material of Heteroptera housed in the Museu de Zoologia da Universidade de São Paulo.

Infraorder	Family	Holotype	Lectotype	Allotype	Paratype	Paralectotype
Cimicomorpha	Miridae	13	—	—	25	—
	Reduviidae	8	—	—	23	—
	Tingidae	—	—	—	11	—
Enicocephalomorpha	Enicocephalidae	1	—	—	3	—
Gerromorpha	Gerridae	1	—	1	—	—
	Veliidae	12	4	1	121	3
Nepomorpha	Naucoridae	2	—	—	11	—
	Nepidae	3	—	3	1	—
	Notonectidae	1	—	1	2	—
	Potamocoridae	—	—	—	10	—
Pentatomomorpha	Aradidae	6	—	—	2	—
	Coreidae	1	—	—	12	—
	Pentatomidae	12	—	—	84	—
	Rhyparochromidae	1	—	—	2	—
Total		61	4	6	307	3

Order Hemiptera Linnaeus, 1758
Suborder Heteroptera Latreille, 1810
Infraorder Cimicomorpha Leston *et al.*, 1954
Miridae Hahn, 1831
***Adparaproba yungensis* Carvalho, 1990**

Adparaproba yungensis Carvalho, 1990: 445-447, figs. 1-4.

Holotype: ♂, glued to pinned paper; Bolivia, Puente Villa, Yungas 1200 m[e]t[e]r[s]. XII.1955, Dirings col.

Paratypes: 1♂, glued to pinned paper; Bolivia, Chulumani Yungas 1700 m[e]t[e]r[s]. XII.1956, Dirings col. 1♀, glued to pinned paper; Bolivia, El Palomar Chaparé 900 m[e]t[e]r[s]. IX.1956, Dirings col. 2♂, glued to pinned paper; Bolivia, La Paz, Coroico Yungas 1700 m[e]t[e]r[s]. XII.1955, Dirings col.

***Collaria boliviana* Carvalho, 1990**

Collaria boliviana Carvalho, 1990: 447-449, figs. 5-8.

Holotype: ♀, glued to pinned paper; Bolivia, Rurrenabaque, Beni, 175 m[e]t[e]r[s]. X.1956, Dirings col.

Paratypes: 3♂, glued to pinned paper; same data as holotype.

Remarks: The original description states that all the specimens were collected in [19]61, but all labels read 1956.

***Clypeocoris amazonicus* Carvalho, 1989**

Clypeocoris amazonicus Carvalho, 1989: 444, figs. 1-5.

Holotype: ♂, glued to pinned paper; [Brazil], AM[azonas], Maturaca, alto Rio Cauaburi 28.XII.[19]62-05.I.[19]63, J. Bechyné col.

***Cylapocoroides centralis* Carvalho, 1989**

Cylapocoroides centralis, Carvalho, 1989: 446, figs. 6-9.

Paratype: 1♂, glued to pinned paper; Brasil, Rio de Janeiro, Rio Grande, Repr[esa]. No date, F.M. Oliveira col.

***Cyrtocapsus bolivianus* Carvalho, 1990**

Cyrtocapsus bolivianus, Carvalho, 1990: 450, fig. 9.

Holotype: ♀, glued to pinned paper; Bolivia, Puente Villa Yungas 1200 m[e]t[r[s]]. XII.1955, Dirings col.

Paratypes: 3♀; same data as holotype.

***Cyrtotylus catarinenses* Carvalho, 1989**

Cyrtotylus catarinenses Carvalho, 1989: 448-450, figs. 12-16.

Holotype: ♂, glued to pinned paper; Brasilien [Brazil], Nova Teutonia, 27°11'O [S], 52°23'L [W], 300-500 m. XII.1949, Fritz Plaumann col.

Remarks: According to the original description, the holotype was collected in *Alchornea sidifolia* (Euphorbiaceae).

***Herdonoides paulistanus* Carvalho, 1989**

Herdonoides paulistanus Carvalho, 1989: 451, figs. 17-22.

Holotype: ♂, pinned; [Brazil], São Paulo, Campos do Jordão. 23.XII.1944, F. Lane col.

***Horciasoides ouropretanus* Carvalho, 1989**

Horciasoides ouropretanus Carvalho, 1989: 451-453, figs. 23-26.

Holotype: ♂, glued to pinned paper; [Brazil], MG [Minas Gerais], Topázios Ouro Preto, 22.II.1962, J. Bechyné col.

Paratype: 1♂, same data as holotype.

***Knightonia incachaca* Carvalho, 1990**

Knightonia incachaca Carvalho, 1990: 450-452, figs. 10-15.

Holotype: ♀, glued to pinned paper; Bolivia, Incachaca, Cochabamba, 2100 m[e]t[r[s]]. VIII.1956, Dirings col.

Remarks: The original description states that the holotype was collected at 3100 meters.

***Liliancoris nigrus* Carvalho, 1989**

Liliancoris nigrus Carvalho, 1989: 454-455, figs. 27-31.

Holotype: ♀, glued to pinned paper; Brasil, MG [Minas Gerais], Mar de Espanha, 27-28.II.1962, J. Bechyné col.

Paratypes: 1♀, glued to pinned paper; same data as holotype. 1♀, glued to pinned paper; Brasil, Barueri, São Paulo. 13.I.1962, K. Lenko col.

Remarks: In the original description, all the paratypes are listed as having the same collection data as the holotype.

***Lygus omnivagus* Knight, 1917**

Lygus omnivagus Knight, 1917: 627-629, fig. 201.

Paratypes: 1♂, glued to pinned paper; [United States of America], N.Y. [New York], Conesus Lake, June [VI] 23.1916, H.H Knight col. 1♀, glued to pinned paper; [United States of America], N[ew].Y[ork], Conesus Lake, June [VI] 23.1916, H.H Knight col.

***Lygus tiliae* Knight, 1917**

Lygus tiliae Knight, 1917: 613-615, fig. 193.

Paratypes: 2♀, glued to pinned paper; [United States of America], N.Y. [New York], Portage, June, 27, 1915, H.H Knight col.

***Lygus vanduzeei* Knight, 1917**

Lygus vanduzeei Knight, 1917: 565-567, fig. 159.

Paratypes: 1♂, pinned; [United States of America], Rock City, N.Y. [New York], Cattaraugus Co[unty], July, 05, 1915, H.H Knight col. 1♀ pinned; [United States of America], Rock City, N[ew].Y[ork], Cattaraugus Co[unty], July, 04, 1915, H.H Knight col.

***Poeas goiana* Carvalho, 1989**

Poeas goiana Carvalho, 1989: 455, figs. 35-38.

Holotype: ♂, glued to pinned paper; Brasil, Goiás, Faz[enda]. Cachoeirinha Jataí, X.1962, Exp[edição]. Dep[artamento]. Zool[ogia].

Paratype: 1♀, pinned; Brasil, Goiás, Faz[enda]. Aceiro Jataí, X.1962, Exp[edição]. Dep[artamento]. Zool[ogia].

Remarks: In the original description, all paratypes are said to be collected in 1862, however, these specimens were collected by staff from the Department of Zoology of Museu Paulista in 1962.

***Prepops rurrenabaquensis* Carvalho & Costa, 1991**

Prepops rurrenabaquensis Carvalho & Costa, 1991: 56, fig. 14.

Holotype: ♀, glued to pinned paper; Bolivia, Beni, Rurrenabaque, 175 m[e]t[e]r[s], X.1956, Dirings col.

Remarks: The original description specifies that the holotype was collected in [1]961, 178 meters, however, the label clearly states 1956 and 175 meters respectively.

***Prepops ubirajarai* Carvalho, 1989**

Prepops ubirajarai Carvalho, 1989: 455-457, figs. 39-42.

Paratype: 1♂, pinned; [Brazil], Faz[enda]. Iracema, Ribeirão Preto, 11.XII.1953, Barretto col.

Remarks: The original description states that the holotype was collected in 11.XII.1956 and deposited in the author's private collection.

***Proba saltensis* Carvalho & Costa, 1989**

Proba saltensis Carvalho & Costa, 1989: 741, figs. 20-23.

Paratype: 1♀, glued to pinned paper; Bolivia, Chulumani Yungas, XII.1955, Dirings col.

***Saileria sulina* Carvalho, 1989**

Saileria sulina Carvalho, 1989: 457-459, figs. 43-46.

Holotype: ♂, glued to pinned paper; Brasilien [Brazil], Nova Teutonia, 27°11'S, 52°23'W, 300-500 m. XII.1949, Fritz Plaumann col.

Paratype: 1♀, glued to pinned paper; same data as holotype.

Remarks: According to the original publication, the holotype was collected in *Alchornea sidifolia* (Euphorbiaceae).

***Vitoriacoris nigrus* Carvalho, 1989**

Vitoriacoris nigrus Carvalho, 1989: 459-460, figs. 48-51.

Holotype: 1♀, glued to pinned paper; Brasil, S[ão]. Paulo, Ilha da Vitória, 16-27.III.1964, Exp[edição]. Dep[artamento]. Zool[ogia].

Paratype: 1♀, glued to pinned paper; same data as holotype.

Reduviidae Latreille, 1807

***Agricocleptes wygodzinskyi* Prosen & Martínez, 1953**

Agricocleptes wygodzinskyi Prosen & Martínez, 1953: 53-56, fig. 1.

Paratypes: 1♀, glued to pinned paper; Bolivia, Cochabamba, Alr[ededores]. de la ciudad, no date Martinez and Prosen col. Bolivia Dep. [artamento de]. Cochabamba 2600 m Zischka, III.1950, Dirings col.

Remarks: No types specimens are designated to MZUSP according to the original description.

***Apiomerus costalimai* Prosen & Martínez, 1955**

Apiomerus costalimai Prosen & Martínez, 1955: 43-46, figs. 1-3.

Paratype: 1♀, Argentina, Buenos Aires, Tandil, 37.3167°S, 59.1500°W, 01 Jan 1952, no collector data.

***Brontostoma diringshofeni* Gil-Santana & Baena, 2009**

Brontostoma diringshofeni Gil-Santana & Baena, 2009: 46-48, figs. 28-46.

Holotype: ♂, pinned, with male genitalia in a vial, pinned separately; Bolivia, Santa Cruz, 500 m, x-1955, [ex-coll.] Dirings[hofen], Zischka, col.

***Dohrnemesa lanei* Wygodzinsky, 1945**

Dohrnemesa lanei Wygodzinsky, 1945: 252-255, figs. 19, 21-33.

Holotype: ♂, pinned; [Brazil], São Paulo, Campos de Jordão, 26.XII.1944, F. Lane col.

***Melanolestes lugens* Coscarón & Carpinteiro, 1993**

Melanolestes lugens Coscarón & Carpinteiro, 1993: 369, figs. 25-38.

Paratypes: 1♀, pinned; [Brazil], MT [Mato Grosso do Sul], Três Lagoas, Faz[enda]. Canaã, Marg[em]. esq[uerda]. rio Sucuriu, I.1967 F. Lane col. 1♀, Pinned; [Brazil], MT [Mato Grosso], Utiariti 325 m, rio Papagaio, VII-VIII. [1]961, K. Lenko col. 1♀, pinned; Brasil, MT [Mato Grosso], Barra do Tapirapé, 21-31.XII.1965, B. Malkin col.

***Notocyrtus amapaensis* Carvalho & Costa, 1992**

Notocyrtus amapaensis Carvalho & Costa, 1992: 73-74, figs. 2, 7, 11.

Holotype: ♂, pinned; Brasil, Amapá, Serra do Navio, IX.1957, K. Lenko col.

***Notocyrtus costai* Gil-Santana & Forero, 2009**

Notocyrtus costai Gil-Santana & Forero, 2009: 62-63, figs. 7-13.

Holotype: ♀, pinned, with right middle leg glued to a paper board, pinned with the specimen; Surinam, Marowijne dist.[rict], Langaman Kondre, VIII-1965, B. Malkin col.

***Notocyrtus dispersus* Carvalho & Costa, 1992**

Notocyrtus dispersus Carvalho & Costa, 1992: 75-76, figs. 4, 8, 13.

Holotype: ♂, pinned; [Brazil], S[ão]. Paulo, [Municipality of Bebedouro], Andes, II.[19]55, M. Carrera col.

Paratypes: 2♂, 1♀ pinned; same data as holotype. 1♂, pinned; [Brazil], Goiás, Jataí, I.[19]55, M. Carrera col. 1♂, pinned; [Brazil] Alagoas, Mangabeira, XI.1952, Camargo-Andr. col. 1♀, pinned; Brasil, Minas Gerais, Sete Lagoas, III.1963, F. Werner, U. Martins, L. Silva col. 1♂, pinned; Brasil, MG [Minas Gerais], Serra [do] Caraça, XI.[1]961, 1880 m, Kloss, Lenko, Martins & Silva col.

***Notocyrtus paraenses* Carvalho & Costa, 1992**

Notocyrtus paraenses Carvalho & Costa, 1992: 78, figs. 6, 15.

Holotype: 1♀, glued to pinned plastic; Brasil, Pará, Ananindeua, I.1963, Machado & Pereira col.

***Pessoaia piratoides* Costa Lima, 1940**

Pessoaia piratoides Costa Lima, 1940: 489-490.

Holotype: ♀, pinned with genitalia and leg, slide mounted; [Brazil], Leopoldo Bulhões, no date, Prof. Pessoa col.

***Pseudopothea paulai* Gil-Santana, 2015**

Pseudopothea paulai Gil-Santana, 2015: 543-551, figs. 3-30.

Paratype: 1♀, pinned, with antennae glued to pinned paper; Brasil, CE [Ceará], Carquejo, III.1963, Dirings[hofen] col.

***Rasahus brasiliensis* Coscarón, 1983**

Rasahus brasiliensis Coscarón, 1983: 108-109, fig. 17, A-H.

Paratypes: 1♂, pinned; Brasil, Pará, Ponte Grossa, XII. [19]38 Camargo col. 1♂, pinned; BR[asil], RJ [Rio de Janeiro], Angra dos Reis, Faz[enda]. Japubyba VII-VIII. 1945, L.T.F. col. 1♀, pinned; Brasil, S.P. [São Paulo], Ilha dos Buzios, 16.X-04.XI [1]963 Exp[edição]. Dep[artamento]. Zool[ogia].

***Tydides imitator* Lent, 1955**

Tydides imitator Lent, 1955: 168-172, figs. 8-11, 13, 16, 19, 22, 24.

Paratype: 1♂, pinned; [Brazil], [Rio Grande do Sul], Porto Alegre, no date and collector data.

Tingidae Laporte, 1832***Corythucha pellucida* Drake & Hambleton, 1938**

Corythucha pellucida Drake & Hambleton, 1938: 67-68.

Paratype: 1♂, glued to pinned paper; Brasil, São Paulo, Campinas, 10.III.1936, E.J. Hambleton col.

***Gargaphia paraguayensis* Drake & Poor, 1940**

Gargaphia paraguayensis Drake & Poor, 1940: 229-230.

Paratypes: 2♂, glued to pinned paper; Paraguay, Horqueta, 1938, Alberto Schulze col.

Remarks: Type specimens were said to belong to the C.J. Drake 1956 collection.

***Leptobyrsa bruchi* Drake, 1928**

Leptobyrsa bruchi Drake, 1928: 73-74.

Paratype: 1♀, glued to pinned paper; [Argentina], Cordoba 12-13-21, no date and collector data.

Remarks: Type specimens were said to belong to the C.J. Drake 1956 collection.

***Leptobyrsa tersa* Drake & Hambleton, 1935**

Leptobyrsa tersa Drake & Hambleton, 1935: 148.

Paratype: 1♀, glued to pinned paper; Brasil, São Paulo, São Paulo, 26.IV.1934, E.J. Hambleton col.

***Leptopharsa machalana* Drake & Hambleton, 1946**

Leptopharsa machalana Drake & Hambleton, 1946: 12-13.

Paratype: 1♂, glued to pinned paper; Ecu[ador], Machala, Sept[ember] [IX]. 27, 1944, E.J. Hambleton col.

Remarks: Type specimens were said to belong to the C.J. Drake 1956 collection.

***Teleonemia molinai* Drake, 1940**

Teleonemia molinai Drake, 1940: 243.

Paratype: 1♂, glued to pinned paper; Paraguay, Horqueta 1938, Alberto Schulze col.

Remarks: Type specimens were said to belong to the C.J. Drake 1956 collection.

***Tigava bombacis* Drake & Poor, 1938**

Tigava bombacis Drake & Poor, 1938: 32-33.

Paratypes: 2♀, 1♂, glued to pinned paper; Brazil, Minas Geraes [Gerais], Viçosa, 06.V.[19]34, E.J. Hambleton col.

Remarks: Type specimens were said to belong to the C.J. Drake 1956 collection.

***Vatiga cassiae* Drake & Hambleton, 1934**

Vatiga cassiae Drake & Hambleton, 1934: 440-441.

Paratype: 1♂, glued to pinned paper; Brasil, Minas Geraes [Gerais], Viçosa 28.IV.[19]33, E.J. Hambleton col.

Remarks: Type specimens were said to belong to the C.J. Drake 1956 collection.

**Infraorder Enicocephalomorpha Stichel, 1955
Enicocephalidae Stål, 1860**

***Enicocephalus lenkoi* Wygodzinsky & Schmidt, 1991**

Enicocephalus lenkoi Wygodzinsky & Schmidt, 1991: 119-121, figs. 71, 82, 83.

Holotype: ♂, glued to pinned paper; Brasil, São Paulo, Barueri. 19.III.1967, K. Lenko col.

Paratypes: 1♀, 2 nymphs; glued to pinned paper; same data as holotype.

**Infraorder Gerromorpha Popov, 1971
Gerridae Leach, 1815
Neogerris kontos Nieser, 1994**

Neogerris kontos Nieser, 1994: 31-34, figs. 5, 7-9, 15.

Holotype: Apterous ♂, pinned; Brasil, M.G. [Minas Gerais], Gouveia, 20.III.[19]94, leg Nieser, N9425, 1300 m asl., pond.

Allotype: Apterous ♀, pinned; same data as holotype.

Remarks: In the original description, the author included additional information about the type-locality: "pond alongside road (apparently semi-artificial by the road blocking some water flow) rich emergente and aquatic vegetation, pH 5.5, conductivity 10 µS, N.9495".

Veliidae Brullé, 1836

***Euvelia mazzucconiae* Aristizábal-García et al., 2015**

Euvelia mazzucconiae Aristizábal-García, Floriano, Moreira & Bispo, 2015: 592-594, figs. 1-6.

Paratypes: 1♂, 1♀, glued to pinned paper; Colombia, Antioquia, Mpio, Necoclí, Mar Caribe en el Golfo de Urubá, 07.IX.[19]95, Aristizábal-G col.

Remarks: In the original description, all paratypes are deposited in the Instituto de Ciencias Naturales de La Universidad Nacional de Colombia, Bogota, and in the eQual Collection, Bogota, both in Colombia.

***Oiovelia chena* Rodrigues & Melo, 2014**

Oiovelia chena Rodrigues & Melo in Rodrigues et al., 2014a: 84-87, figs. 47-49, 59-61, 74, 78.

Paratypes: 3 macropterous ♂, 3 macropterous ♀, glued to pinned paper; Brasil, Pará, Alter do Chão, 10 km Santarém, Igarapé Jutuaranã, on foam masses, 30 m, 02°32'04.5"S, 54°54'33.0"W, 01.X.2012, A. Fernandes col.

***Oiovelia hamadae* Rodrigues & Melo, 2014**

Oiovelia hamadae Rodrigues & Melo in Rodrigues et al., 2014a: 87-89, figs. 50-51, 62-64, 75, 79.

Paratypes: 3 macropterous ♂, 3 macropterous ♀, glued to pinned paper; Brasil, Amazonas, Reserva Florestal Adolpho Ducke, Igarapé Acará, on foam masses, 22.VI.2011, H.D.D. Rodrigues col.

***Oiovelia machadoi* Rodrigues & Moreira, 2016**

Oiovelia machadoi Rodrigues & Moreira, 2016a: 154-156, figs. 1-8, 10.

Holotype: Macropterous ♂, glued to pinned paper; Brasil, São Paulo, Parque Estadual da Serra do Mar, Cachoeira da Pedra Furada, on foam masses, 23°42'16.4"S, 46°02'42.8"W, 725 m, 23.VIII.2014, H. Rodrigues col.

Paratypes: 5 macropterous ♂, 5 macropterous ♀, glued to pinned paper; same data as holotype.

***Oiovelia pydanieli* Rodrigues & Melo, 2014**

Oiovelia pydanieli Rodrigues & Melo, in Rodrigues et al., 2014a: 89-91, figs. 52-54, 65-67, 76, 80.

Paratypes: 3 macropterous ♂, 3 macropterous ♀, glued to pinned paper; Brasil, Roraima, Área Indígena Yanomami, Serra de Surucucu, 02°49'53"N, 63°38'19"W, 26.XI.1991, V. Py-Daniel & U. Barbosa col.

***Oiovelia spumicola* Spangler, 1986**

Oiovelia spumicola Spangler, 1986: 438-443, 446, figs. 1-12, 21.

Paratype: 1 apterous ♀, glued to pinned paper; Venezuela, T.F. Amaz.[onas], Cerro de la Neblina, In masses of foam in mountain stream, Camp XI, 1450 m., 00°52'N, 65°58'W, 25-28 February 1985, P.J. & P.M. Spangler & R.A. Faitoute col.

Remarks: In the original description, the author does not include the MZUSP collection as repository of any specimen of the type series.

***Oiovelia viannai* Rodrigues & Melo, 2014**

Oiovelia viannai Rodrigues & Melo in Rodrigues et al., 2014a: 91-93, 95-97, figs. 55-58, 68-70, 77.

Holotype: Apterous ♂, glued to pinned paper; Brasil, Minas Gerais, Luz, Ribeirão Jorge Grande, 19°40'13"S, 45°36'37"W, 27.IV.2010, H.D.D. Rodrigues col.

Paratypes: 1 macropterous ♂, 2 apterous ♀; glued to pinned paper; Brasil, Minas Gerais, Luz, Ribeirão Jorge Grande, 19°40'13"S, 45°36'37"W, 06.I.2010, H.D.D. Rodrigues col.; 2 apterous ♂, 1 macropterous ♀, Brasil, Minas Gerais, Luz, Ribeirão Jorge Grande, 19°40'13"S, 45°36'37"W, 13.III.2010, H.D.D. Rodrigues & G.J.C. Vianna col.

***Paravelia bachmanni* Rodrigues & Moreira, 2016**

Paravelia bachmanni Rodrigues & Moreira, 2016c: 643, 645, figs. 1-3, 10-12, 51.

Holotype: Macropterous ♂, glued to pinned paper with abdominal segment VIII and genitalia in microvial; Brasil,

São Paulo, Salesópolis, Estação Biológica de Boracéia, in Bromeliaceae, 11.VIII.1961, R.A. Rocha col.

Paratypes: 2 macropterous ♀, glued to pinned paper; same data as holotype. 1 macropterous ♂, 1 macropterous ♀, glued to pinned paper; Brasil, Santa Catarina, Santo Amaro da Imperatriz, Hotel Plaza, 82, in *Canistrum lindenii*, 21.V.2003, J. Steiner & A. Zillikens. 1 macropterous ♂, 1 macropterous ♀, glued to pinned paper; Brasil, Santa Catarina, Florianópolis, Unidade de Conservação Ambiental Desterro – UCAD, 28.XI.2003, J. Steiner & A. Zillikens. 1 macropterous ♂, 1 macropterous ♀, glued to pinned paper; Brasil, Santa Catarina, Santo Amaro da Imperatriz, 402, in *Nidularium innocentii*, 25.I.2005, J. Steiner & A. Zillikens. 1 macropterous ♀, glued to pinned paper; Brasil, Santa Catarina, Santo Amaro da Imperatriz, 414, in *Nidularium innocentii*, 12.V.2005, J. Steiner & A. Zillikens. 2 macropterous ♂, 1 macropterous ♀, glued to pinned paper; Brasil Santa Catarina, Santo Amaro da Imperatriz, 415, in *Nidularium innocentii*, 12.V.2005, J. Steiner & A. Zillikens. 1 macropterous ♂, glued to pinned paper; Brasil, Santa Catarina, Santo Amaro da Imperatriz, 421, in *Nidularium innocentii*, 05.VII.2005, J. Steiner & A. Zillikens. 1 macropterous ♂, 1 macropterous ♀; glued to pinned paper; Brasil, Santa Catarina, Santo Amaro da Imperatriz, 422, in *Nidularium innocentii*, 05.VII.2005, J. Steiner & A. Zillikens.

***Paravelia biae* Spangler, 1989**

Paravelia biae Spangler, 1989: 360-365, figs. 1-8, 15-16.

Holotype: Macropterous ♂, glued to pinned paper with genitalia in microvial; Brazil, Pará, Rio Xingu camp (52°22'W, 03°39'S) Altamira (ca. 60 km s), 10.Oct.1986, P. Spangler & O. Flint col.

Paratypes: 6 macropterous ♂, 7 macropterous ♀ (1♀ indicated as allotype), glued to pinned paper; same data as holotype.

***Paravelia bilobata* Rodrigues et al., 2014**

Paravelia bilobata Rodrigues, Moreira, Nieser, Chen & Melo in Rodrigues et al., 2014b: 8-10, figs. 4, 6A-F, 21.

Paratype: 1 macropterous ♂, glued to pinned paper with abdominal segment VIII and genitalia in microvial; Brasil, Mato Grosso, Nova Xavantina, Córrego da Mata, fourth order, 15°01'32"S, 52°26'29"W, 17.XI.2005, 1788, H.S.R. Cabette et al.

***Paravelia bipunctata* Rodrigues et al., 2014**

Paravelia bipunctata Rodrigues, Moreira, Nieser, Chen & Melo in Rodrigues et al., 2014b: 10-14, figs. 5, 6G-I, 21.

Paratypes: 1 micropterous ♀, glued to pinned paper; Brasil, Minas Gerais, Serra do Cipó, [MG-010], km 117, 26.VII.1972, C.G. Froehlich. 1 macropterous ♀, glued to pinned paper; Brasil, Mato Grosso, Nova Xavantina, Córrego Bacaba, ponto 1, 5906, 14°43'03.5"S, 52°21'48.3"W, 01.VI.2011, N.F.S. Giehl & P.V.B. Fonseca. 1 macropterous ♂, glued to pinned paper; Brasil, Mato Grosso, Nova Xavantina, Córrego Bacaba, ponto 3, 6728, 14°43'14.80"S, 53°21'35.63"W, 29.VI.2012, N.F.S. Giehl & P.V.B. Fonseca col.

***Paravelia bromelicola* Rodrigues & Moreira, 2016**

Paravelia bromelicola Rodrigues & Moreira, 2016c: 645, 647, figs. 4-5, 13-15, 51.

Holotype: Macropterous ♂, glued to pinned paper with abdominal segment VIII and genitalia in microvial; Brasil, Santa Catarina, Hammonia, tombo 15.550 (70.965), VII.1910, H. Lüderwaldt col.

Paratype: Macropterous ♂, glued to pinned paper with abdominal segment VIII and genitalia in microvial; Brasil, São Paulo, Cubatão, Estação Raiz da Serra, entre folhas de Bromeliaceae, tombo 9.968 (70.318), 30.IX.1907, H. Lüderwaldt col.

Remarks: Unique specimen records 15,550 (holotype) and 9,968 (paratype) are field numbers from Hermann von Lüderwaldt (1865-1934), whereas 70,965 (holotype) and 70,318 (paratype) are likely accession numbers from MZUSP, which are no longer used today.

***Paravelia cunhai* Rodrigues & Moreira, 2016**

Paravelia cunhai Rodrigues & Moreira, 2016b: 184-187, figs. 1-7, 11.

Holotype: Macropterous ♂, glued to pinned paper with abdominal segment VIII and genitalia in microvial; Brasil, Pará, Vitória do Xingu, comunidade Leonardo da Vinci, poça dentro de caverna, 03°09'07"S, 52°04'30"W, 08.II.2014, E.J.R. Cunha.

***Paravelia digitata* Rodrigues & Moreira, 2016**

Paravelia digitata Rodrigues & Moreira, 2016c: 647-649, figs. 6-7, 16-18, 31, 51.

Holotype: Macropterous ♂, glued to pinned paper with abdominal segment VIII and genitalia in microvial; Brasil, Bahia, Santa Maria da Vitória, gruta da Bananeira, no date, F. Chaimowicz.

Paratypes: 1 macropterous ♀, glued to pinned paper; same data as holotype. 3 macropterous ♂, 1 macropterous ♀, glued to pinned paper; Brasil, Bahia,

Serra do Ramalho, Gruna do Google, 13°37'42.0"S, 43°48'49.0"W, 13.IX.2008, M.E. Bichuette & R. Rantin. 2 macropterous ♂, 1 macropterous ♀, glued to pinned paper; Brasil, Bahia, Serra do Ramalho, Gruna Vila Nova/ZE, 13°33'14.3"S, 43°52'40.7"W, 11.IX.2008, M.E. Bichuette & R. Rantin. 2 macropterous ♀, glued to pinned paper; Brasil, Bahia, Serra do Ramalho, Gruna Vila Nova/ZE, 13°33'14.3"S, 43°52'40.7"W, 26.VII.2012, M.E. Bichuette & J.E. Gallão. 1 macropterous ♀, glued to pinned paper; Brasil, Bahia, Serra do Ramalho, Caverna Vila Nova/ZA, 13°33'14.3"S, 43°52'40.7"W, 27.VII.2012, M.E. Bichuette & J.E. Gallão. 1 macropterous ♂, 1 macropterous ♀, glued to pinned paper; Brasil, Bahia, Caririnha, Caverna Domingão, 13°44'40.7"S, 43°49'59.7"W, 27.VII.2012, M.E. Bichuette & J.E. Gallão. 7 macropterous ♀, glued to pinned paper; Brasil, Bahia, Iuiú, Lapa do Baixão-Epígeo, 14°23'08.11"S, 43°37'35.00"W, 06.XII.2012, M.E. Bichuette & J.E. Gallão. 11 macropterous ♂, 4 macropterous ♀, glued to pinned paper; Brasil, Bahia, Coribe, Gruna do Enfundado, 13°38'41.8"S, 44°12'34.7"W, VII.2007, E. Trajano & D. Sansone. 1 macropterous ♀, glued to pinned paper; Brasil, Bahia, Feira da Mata, Caverna Chico Pernambuco, 13°49'09.0"S, 44°04'14.9"W, 28.VII.2012, M.E. Bichuette & J.E. Gallão. 1 macropterous ♀, glued to pinned paper; Brasil, Bahia, São Desidério, Gruta Baixa Fria, 12°22'55.2"S, 44°56'14.4"W, 04.XI.2008, M.E. Bichuette, T.L.C. Scatolini & D.R. Pedroso. 1 macropterous ♂, 1 macropterous ♀, glued a pinned paper; Brasil, Bahia, Andaraí, Gruna dos Torras, 12°51'41.6"S, 41°18'52.6"W, 14.VII.2008, M.E. Bichuette, T.L.C. Scatolini & D.R. Pedroso. 1 macropterous ♀; glued to pinned paper; Brasil, Rio Grande do Norte, Martins, Gruta Labirinto, 06°03'23"S, 37°53'46"W, 10.I.2013, M. Kramer.

***Paravelia lacrymosa* Rodrigues et al., 2014**

Paravelia lacrymosa Rodrigues, Moreira, Nieser, Chen & Melo in Rodrigues et al., 2014b: 14-15, figs. 7, 9A, 21.

Holotype: Macropterous ♀, glued to pinned paper; Brasil, MG [Minas Gerais], Serra [do] Caraça, 1380 m, XI.[1]961, Kloss, Lenko, Martins & Silva col.

***Paravelia luederwaldti* Rodrigues & Moreira, 2016**

Paravelia luederwaldti Rodrigues & Moreira, 2016c: 649-651, figs. 8-9, 19-21, 51.

Holotype: Brachypterous ♂, glued to pinned paper with abdominal segment VIII and genitalia in microvial; Brasil, São Paulo, Alto da Serra, Paranapiacaba, 19.334/70.307, 1909, H. Lüderwaldt col.

Paratypes: 4 macropterous ♀, glued to pinned paper; same data as holotype, except the number: 70.459, 70.460, 70.461, 70.462.

***Paravelia micromaculata* Rodrigues *et al.*, 2014**

Paravelia micromaculata Rodrigues, Moreira, Nieser, Chen & Melo in Rodrigues *et al.*, 2014b: 15-17, figs. 8, 9B, 21.

Holotype: Macropterous ♀, glued to pinned paper; Brasil, Maranhão, Aldeia Yavaruhu, Rio Gurupi, about 30 km west of Canindé, isolated trail, forest stream with mud, gravel and leaf litter, 14.II.1966, B. Malkin col.

***Paravelia nieseri* Moreira & Barbosa, 2012**

Paravelia nieseri Moreira & Barbosa, 2012: 61-63, figs. 10-18.

Holotype: Macropterous ♂, glued to pinned paper; Serra [do] Caraça, 1.380 m, MG [Minas Gerais] – Brasil, XI.[1]961, Kloss, Lenko, Martins & Silva col.

Paratypes: 2 macropterous ♂, glued to pinned paper with abdominal segment VIII and genitalia in microvial; same data as holotype. 1 macropterous ♀, glued to pinned paper; [Brasil] S.[erra do] Caraça (Engenho), 800 m, Minas [Gerais] XI.[1]961, Kloss, Lenko, Martins & Silva col.

***Paravelia ornata* Rodrigues *et al.*, 2014**

Paravelia ornata Rodrigues, Moreira, Nieser, Chen & Melo in Rodrigues *et al.*, 2014b: 17-19, figs. 10, 12A-D, 21.

Holotype: Macropterous ♂, glued to pinned paper; [Brasil], Tapuruquara, Rio Negro, AM[azonas], 26-27. XI.1962, J. Bechyné col.

Paratypes: 3 macropterous ♂, 2 macropterous ♀, glued to pinned paper, a male with abdominal segment VIII and genitalia in microvial; Barcelos AM[azonas], Brasil, 18-22.II.1963, J. Bechyné col.

Remarks: In the original description, the authors specified geographical coordinates for the two localities mentioned above.

***Rhagovelia ochroischion* Nieser & Melo, 1997**

Rhagovelia ochroischion Nieser & Melo, 1997: 105, 107, fig. 121.

Lectotype: Apterous ♂, glued to pinned paper; Brasil, M.G. [Minas Gerais], Carmen d.[o] R.[io] Claro, Córrego do Castelhana, lowland type stream, 13.III.[19]94, Nieser col.

Paralectotype: 1 apterous ♀, glued to pinned paper; same data as holotype.

Remarks: Nemésio & Melo (2012) made the lectotype designation. The nomenclatural history of this species can be found in Moreira *et al.* (2010) and Nemésio & Melo (2012).

***Rhagovelia sbolos* Nieser & Melo, 1997**

Rhagovelia sbolos Nieser & Melo, 1997: 105, 107, figs. 122-123.

Lectotype: Apterous ♀, glued to pinned paper; Brasil, M.G. [Minas Gerais], Nova Lima, São Seb.[astião das] Ag.[uas] Claras, Ribão [Ribeirão] Marumbé, 01.III.1994, Nieser col.

Paralectotype: Apterous ♂, glued to pinned paper; same data as holotype.

Remarks: Nemésio & Melo (2012) made the lectotype designation. The nomenclatural history of this species can be found in Moreira *et al.* (2010) and Nemésio & Melo (2012).

***Rhagovelia trianguloides* Nieser & Melo, 1997**

Rhagovelia trianguloides Nieser & Melo, 1997: 109.

Lectotype: Apterous ♂, double-mounted on minuten pin; Brasil, MG [Minas Gerais], Bel.[o] Horz[Horizonte], Nova Lima, [São Sebastião das] A.[guas] Claras, Ribão [Ribeirão] Marumbé, N9215, #25, XI.1992, N. Nieser col.

Remarks: Nemésio & Melo (2012) made the lectotype designation. The nomenclatural history of this species can be found in Moreira *et al.* (2010) and Nemésio & Melo (2012).

***Rhagovelia turmalis* Nieser & Melo, 1997**

Rhagovelia turmalis Nieser & Melo, 1997: 104, 107.

Lectotype: Apterous ♂, glued to pinned paper; Brasil, M.G. [Minas Gerais], Sra[Serra do] Cipó, córrego do Palácio, km 120 #1992, N9225, 05.XII, N. Nieser col.

Paralectotype: Apterous ♀; glued to pinned paper; same data as holotype.

Remarks: Nemésio & Melo (2012) made the lectotype designation. The nomenclatural history of this species can be found in Moreira *et al.* (2010) and Nemésio & Melo (2012).

Infraorder Nepomorpha Popov, 1971
Naucoridae Leach, 1815
***Carvalhoiella acuminata* Rodrigues & Sites, 2016**

Carvalhoiella acuminata Rodrigues & Sites in Rodrigues *et al.*, 2016: 578-581, figs. 1-6, 32.

Holotype: Macropterous ♀, pinned; Brasil, Mato Grosso, Nova Xavantina, waterfall at Córrego Chupador, 18.IX.2010, H. Cabelle *et al.* col.

Paratypes: 2 macropterous ♂, pinned; same data as holotype. 1 macropterous ♂, specimen pinned; Brasil, Mato Grosso, Nova Xavantina, waterfall at Córrego Chupador, 29.IV.2011, H. Cabelle *et al.* col. 1 macropterous ♂, 1 macropterous ♀, pinned; Brasil, Mato Grosso, Nova Xavantina, waterfall at Córrego Buriti, 14°45'04.1"S, 52°33'11.0"W, 27.IV.2011, H. Cabelle *et al.* col. 1 macropterous ♂, pinned; Brasil, Mato Grosso, Nova Xavantina, waterfall at Córrego Buriti, 14°45'04.1"S, 52°33'11.0"W, 19.IX.2010, H. Cabelle *et al.* col. 2 macropterous ♂, pinned; Brasil, Mato Grosso, Nova Xavantina, waterfall at Córrego Duílio, 17.IX.2010, H. Cabelle *et al.* col. 1 macropterous ♀, pinned; Brasil, Mato Grosso, Nova Xavantina, waterfall at Córrego Duílio, downstream, 14°48'18.8"S, 52°30'10.7"W, 01.V.2011, H. Cabelle *et al.* col. 1 macropterous ♂, pinned; Brasil, Mato Grosso, Nova Xavantina, waterfall at Córrego Duílio, downstream, 14°48'18.8"S, 52°30'10.7"W, 01.V.2011, N.F.S. Giehl col.

***Carvalhoiella helenae* Rodrigues & Sites, 2016**

Carvalhoiella helenae Rodrigues & Sites in Rodrigues *et al.*, 2016: 581, 582-585, figs. 13-18, 32.

Holotype: Macropterous ♀, pinned; Brasil, Mato Grosso, Nova Xavantina, Córrego Buriti, upstream, 14°45'04.1"S, 52°33'11.0"W, 27.IV.2011, H. Cabelle *et al.* col.

Paratype: 1 macropterous ♂, pinned with abdominal segments VI-VIII and genitalia in microvial; same data as holotype.

Nepidae Latreille, 1802 *Curicta granulosa* De Carlo, 1951

Curicta granulosa De Carlo, 1951: 411-412, figs. 35-38.

Holotype: ♂, pinned; [Brazil] Amazonas, Mana'os [Manaus], 1899, Bicego leg.

Allotype: ♀, pinned; same data as holotype, except 19336.

Paratype: 1♀, pinned; without label of locality.

Remarks: The paratype has no locality label; however, according to the original description, all specimens in type series were collected on the same site.

***Ranatra lanei* De Carlo, 1946**

Ranatra lanei De Carlo, 1946: 21-22, fig. 72.

Holotype: ♂, pinned; [Brazil], Rio de Janeiro, Campo Bello, IV-[19]06.

Allotype: ♀, pinned; same data as holotype.

Remarks: In the original description, the author mentions that the collector of the type series is "Luderwaldt". That person is probably Hermann von Lüderwaldt (1865-1934), technician of the Museu Paulista at the time. The type-locality is currently part of the Itatiaia National Park.

***Ranatra neivai* De Carlo, 1946**

Ranatra neivai De Carlo, 1946: 31-32, fig. 82.

Holotype: ♂, pinned; [Brazil], São Paulo, Capital, X.1937, R. Araujo col.

Allotype: ♀, pinned; same data as Holotype.

Notonectidae Latreille, 1802 *Buenoa koina* Nieser & Pelli, 1994

Buenoa koina Nieser & Pelli, 1994: 3-4, figs. 8-10.

Holotype: Macropterous ♂, pinned with left fore leg glued to a paper; Brasil, MG [Minas Gerais], Serra da Moeda, km 34 da BR-135, Nova Lima, 20.08.[19]72, H.N. Espínola col.

Allotype: Macropterous ♀, pinned; same data as holotype.

***Buenoa konta* Nieser & Pelli, 1994**

Buenoa konta Nieser & Pelli, 1994: 1-3, figs. 1-4.

Paratypes: 1 brachypterous ♂, 1 brachypterous ♀; glued to pinned paper; Brasil, M.G. [Minas Gerais], Lagoa Santa, Lagoa Olhos D'Água, 05.09.[19]91, Pelli, A. col.

Potamocoridae Usinger, 1941 *Coleopterochoris nelsoni* Longo *et al.*, 2005

Coleopterochoris nelsoni Longo, Ribeiro & Nessimian, 2005: 41-43, figs. 3-8.

Paratypes: 3 brachypterous ♂, 7 brachypterous ♀, in ethanol; Brasil, Rio de Janeiro, Macaé, Rio Macaé, 29.VIII.2003, N. Ferreira-Jr leg.

Remarks: The genus *Coleopterochoris* Hungerford, 1942 is currently junior synonym of *Potamocoris* 1941 (Polhemus & Carrie, 2013). Therefore, the current status of this species is *Potamocoris nelsoni* (Longo *et al.*, 2005). In the orig-

inal description, the authors designated 4 males and 6 female paratypes to MZUSP but these are actually 3 males and 7 females.

Infraorder Pentatomomorpha Leston et al., 1954

Aradidae Spinola, 1837

***Proxius (Neoproxius) amazonicus* Kormilev, 1976**

Proxius (Neoproxius) amazonicus Kormilev, 1976: 739-740, figs. 4-5.

Holotype: ♀, glued to pinned paper; Brazil, Amazonas, 5 km W Cacau Pereira, across Rio Negro from Manaus, 120 m, July[VII] 24, 1973, R.T. Schuh col.

***Aneurus carioca* Kormilev, 1968**

Aneurus carioca Kormilev, 1968: 48-49, figs. 1-2.

Holotype: ♀, pinned; [Brazil], Rio de Janeiro, VIII.1952, Ary Vulcano col.

Remarks: In the original description, the collection year is 1962, however the label specifies 1952. The current status of the species is *Iralunelus carioca* (Kormilev, 1968).

***Calisius pulcher* Kormilev, 1976**

Calisius pulcher Kormilev, 1976: 737-739, fig. 3.

Holotype: ♂, glued to pinned paper; Brazil, Minas Geraes [Gerais], Pedra Azul, XI.1971, Seabra and Oliveira col.

***Mezira gracilis* Kormilev, 1968**

Mezira gracilis Kormilev, 1968: 52-53, figs. 5-6.

Holotype: ♂, glued to pinned paper; Brasil, Amazonas, Manaus, VIII.1962 K. Lenko col.

Paratype: 1♂, glued to pinned paper; same data as holotype.

***Mezira pilosa* Kormilev, 1968**

Mezira pilosa Kormilev, 1968: 51-52, figs. 3-4.

Holotype: ♂, glued to pinned paper; Mexico, E[sta]do. Mexico, Bosenchebe, 01.III.1964, P. Reyes C. col.

***Mezira timida* Kormilev, 1968**

Mezira timida Kormilev, 1968: 53-54, fig. 7.

Holotype: ♀, glued to pinned paper; [Brazil], MT [Mato Grosso], Utiariti, Rio Papagaio, XI.1966, Lenko and Pereira col.

Paratype: 1♀, glued to pinned paper; Brasil, Mato Grosso, Corumbá, Serra do Urucum, 23.30/XI.1960, K. Lenko col.

Coreidae Leach, 1815

***Althos terminalis* Brailovsky, 1990**

Althos terminalis Brailovsky, 1990: 76-79, figs. 13-15, 67, 68, 85, 86, 106, 124, 239.

Paratypes: 1♀, 1♂, pinned; Brasil, MG [Minas Gerais], Serra [do] Caraça 1380 m, XI.[1]961, Kloss, Lenko, Martins and Silva col. 1♂, pinned; Brasil, São Paulo, Osasco, 09.XI.1956, M.A. Vulcano col.

Remarks: In the original description, the specimens from Minas Gerais are reported to occur in the state of Mato Grosso. This was probably a misunderstanding of the initials written on the label – MG refers to Minas Gerais.

***Paryphes pullulus* Brailovsky, 1986**

Paryphes pullulus Brailovsky, 1986a: 108-110, figs. 5, 6, 17, 18, 23-25.

Paratypes: 2♀, pinned; [Brazil], Amaz[onas]., Manaus, Rio Negro, 14.VII.1927, J.F. Zikán col.

***Stenoprasia abortiva* Brailovsky, 1986**

Stenoprasia abortiva Brailovsky, 1986b: 457, fig. 10.

Holotype: ♂, pinned; [Brazil], Est[ado]. do Amazonas, Rio Juruá, 1901, E. Garbe col.

***Sundarus volutatorius* Brailovsky, 1988**

Sundarus volutatorius Brailovsky, 1988: 578-580, fig. 49.

Paratype: 1♀, pinned; [Brazil], Amaz.[onas], Pará, Santarém, R[io] Juruá 1901, E. Garbe col.

***Sundarus zonatus* Brailovsky, 1988**

Sundarus zonatus Brailovsky, 1988: 593-596, figs. 43, 57.

Paratypes: 1♂, pinned; Peru, Satipo, II.1938, P. Paprzyck col. 1♂, pinned; Peru, Satipo, Huancayo, I. 1944, P. Paprzyck col. 1♂, pinned; Peru, Satipo, Huancayo, II.1944, P. Paprzyck col. 1♀, pinned; Peru, Satipo, Huancayo, III.1944, P. Paprzyck col. 1♂, pinned; Peru, Satipo, Huancayo, II.1944, P. Paprzyck col.

Pentatomidae Leach, 1815

Callostethus flavolineatus Fernandes & Grazia, 2011

Callostethus flavolineatus Fernandes & Grazia in Fernandes et al., 2011: 57-59, figs. 5-7, 9.

Holotype: ♂, pinned with genitalia in a microvial; [Brazil], Ter.[ritório do] Amapá, Rio Aniconi, 16.VI.[19]59, J. Lane col.

Catulona lucida Campos & Grazia, 2004

Catulona lucida Campos & Grazia in Campos et al., 2004: 4-7, figs. 3-9.

Paratypes: 3♂, 1♀, pinned; [Brazil], São Paulo, Batatais, 12-43.XII-1943, Padre P. col.

Cyrtocoris egeris Packauskas & Schaefer, 1998

Cyrtocoris egeris Packauskas & Schaefer, 1998: 373-375, figs. 3, 6-7, 15.

Paratypes: 1♀, pinned; Ecuad[or], Balzapamba, no date, R. Haensch S. col. 1♂, pinned; Brasil, SP [São Paulo], S[ão]. Sebastião, Barra do Una, 08.VII.[1]961, K. Lenko col. 1♀, pinned; Brasil, São Paulo, Barueri, 24.IV.1955, K. Lenko col. 1♀, pinned; Brasil, São Paulo, Barueri, K. Lenko 26.I.1955, K. Lenko col. 1♀, pinned; Brasil, São Paulo, Barueri, K. Lenko 31.XII.1954, K. Lenko col. 1♀, pinned; Brasil, SP [São Paulo], Mogi Guaçu, Faz[enda]. Campinas, XII.29-31.1969, JM e BA Campbell col. 1♀, pinned; [Brazil], R[io de] Janeiro, Corcovado, 01.XII.1961 Warner col. 1♀, pinned; Brasil, E[spirito]. Santo, Corrego do Itá, XI-XII-1956, W. Zikan col. 4♀, 3♂, pinned; Brasil, Goiás, Jataí, Faz[enda]. Aceiro, X.1962, Exp[edição]. Dep[artamento]. Zool[ogia]. 1♀, pinned; Brasil, São Paulo, Itu, Faz[enda]. Pau D'alho, XII.1956, U. Martins col. 1♀, pinned; [Brazil], Goiás, Anapolis, V.1939, P.J. Ribeiro col. 1♀, pinned; [Brazil], [Minas Gerais], Monte Alegre, Sta. [Santa] Maria, Alt[itude]. 1.100 m[e]t[er]s. 24-30.XI.1942, F. Lane col. 3♀, 1♂, pinned; BR [Brazil], Rio de Janeiro, Nova Friburgo, XII. 1976, Mury, Gred & Guimarães col. 1♀, pinned; BR [Brazil], Rio de Janeiro, Nova Friburgo, XII.1980, Mury, Gred & Guimarães. 1♀, pinned; [Brazil], RJ [Rio de Janeiro], Nova Friburgo, XII.1961, J.H. Guimarães col. 1♀, pinned; [Brazil], RJ [Rio de Janeiro], Nova Friburgo, XII.1975, J.H. Guimarães col. 1♀, 1♂, pinned; Brasil, SC [Santa Catarina], Nova Teutonia, III.1966, F. Plaumann col. 1♀, 1♂, pinned; [Brazil], E.S [Espírito Santo], Linhares, Parque Sooretama, 17-27.X.1962, F.S. Pereira col. 3♀, pinned; Brasil, S.P. [São Paulo], Rio Claro, 18.I.1962, Biasi, Reichardt col. 1♀, pinned; [Brazil], São Paulo, Cidade Jardim, 23.II.1941 F. Lane col. 1♀, pinned; [Brazil], São Paulo, Osasco, 15.IV.1938, F. Lane col. 1♀, pinned; [Brazil], S[ão]. Paulo, S[erra]. Negra, Sítio B[oa]. Vista, 20.III.1943, Lima col. 2♀, 3♂, pinned; [Brazil], S[ão]. Paulo, Serra Negra, Sítio Boa Vista, 20.III.1943, Lima col.

1♀, pinned; [Brazil], S[ão]. P[aulo]., Serra Negra, Sítio Boa Vista, 20.III.1943, Lima col.

Euschistus (Mitripus) hansii Grazia, 1987

Euschistus (Mitripus) hansii Grazia, 1987: 83-87, figs. 1-9.

Holotype: ♂, pinned; [Brazil], R.G.S [Rio Grande do Sul], S[ão]. F[rancisco de]. Paula, Inst[ituto]. Nac[ional do]. Pinho, 22.I.1959, Pereira, Ditadi, Petersen, Meyrer, Volkmer col.

Paratypes: 2♂, pinned; [Brazil], R.G.S [Rio Grande do Sul], S[ão]. F[rancisco de]. Paula, Inst[ituto]. Nac[ional do]. Pinho, 20.XII.1959, Pereira, Ditadi, Petersen, Meyrer, Volkmer col. 1♀, pinned; [Brazil], R.G.S [Rio Grande do Sul], S[ão]. F[rancisco de]. Paula, Inst[ituto]. Nac[ional do]. Pinho, 21.XII.1959. Petersen col. 1♀, pinned; BR[asil], SP [São Paulo], Campinas, X.[19]76, S. Pereira col. 1♀, pinned; BR[asil], SP [São Paulo], Jundiaí, 08.X.1976, B.C. Lopes col.

Remarks: *Adustonotus hansii* (Grazia, 1987) is currently the valid name of *Euschistus (Mitripus) hansii* Grazia, 1987.

Euschistus (Mitripus) paranticus Grazia, 1987

Euschistus (Mitripus) paranticus Grazia, 1987: 87-88, figs. 10-19.

Holotype: ♂, pinned; Brasil, RS [Rio Grande do Sul], Pq. [Parque] Est. [Estadual do] Turvo, 10.I.1982, S.L. Bonatto Col.

Remarks: *Adustonotus paranticus* (Grazia, 1987) is currently the valid name for *Euschistus (Mitripus) paranticus* Grazia, 1987.

Dichelops avilapiresei Grazia, 1978

Dichelops avilapiresei Grazia, 1978: 22-23, figs. 1-9, 126.

Holotype: ♀, pinned; Brasil, Paraná, Ponta Grossa, XII. [19]38, Camargo col.

Paratypes: 1♀, pinned; [Brazil], Paiol [Grande], 03.II.1948 M. Gordinho col. 1♂, pinned; Brasil, M[inas Gerais], IX.1962 F.S. Pereira col.

Dichelops miriamae Grazia, 1978

Dichelops miriamae Grazia, 1978: 36-37, figs. 28-36, 126.

Paratypes: 2♂, 1♀, pinned; no locality data.

Remarks: In the original description, the author states that specimens were collected by R. von Ihering in 1933. In addition to the paratype label, the specimens bear

a previous identification label (*D. leucostigma* as determined by L. Buckup).

***Dichelops phoenix* Grazia, 1978**

Dichelops phoenix Grazia, 1978: 80-81, figs. 102-111, 126.

Paratypes: 1♀, pinned; Brasil, GO [Goias], Rib. Vãozinho, 12.II.1962, J. Bechyné col. 1♂, pinned; [Brazil], Goias, Campinas, Deze[embro] [XII] 1935, Spitz col. 1♂, pinned with genitalia in a microvial; [Brazil], Goias, Campinas, Deze[embro] [XII] 1935, Spitz col.

***Dichelops pradoi* Grazia, 1978**

Dichelops pradoi Grazia, 1978: 52-53, figs. 55-63, 126.

Paratype: 1♀, pinned; Brasil, Mato grosso, Corumbá, Serra do Urucum, 02.XII.1960 R. Lenko col.

***Dichelops saltensis* Grazia, 1978**

Dichelops saltensis Grazia, 1978: 62-63, figs. 73-91, 126.

Holotype: ♂, pinned; Argentina. P[rovin]cia. [de] Salta, Pocitos I. 1959, A. Martinz col.

Paratypes: 3♀, pinned; same data as holotype.

Remarks: In the original description, there are one male and two females from Argentina, and one male from Brazil, deposited at MZUSP.

***Dinocoris nigrodecoratus* Becker & Grazia, 1985**

Dinocoris nigrodecoratus Becker & Grazia, 1985: 105-106, figs. 3, 16, 29, 50, 51, 67, 83, 90.

Holotype: ♀, pinned; [Brasil], PA [Pará], Santarém, Taperinha, 29.XII.1967-09.I.1968, Exp[edição] Perm[amente]. Amaz[onica].

***Dinocoris reticulatus* Becker & Grazia, 1985**

Dinocoris reticulatus Becker & Grazia, 1985: 99-100, figs. 1, 7, 20, 33, 43, 58.

Holotype: ♂, pinned with genitalia in a microvial; [Brazil], [Minas Gerais], Lagoa Santa, 28.I.1963, N. Papavero col.

***Edessa rufodorsata* Silva et al., 2006**

Edessa rufodorsata Silva, Fernandes & Grazia, 2006: 356, figs. 14, 26, 38-39, 52.

Paratype: 1♂, pinned with genitalia in a microvial; Brasil, Mato Grosso, Barra do Tapirapé, 14.XII.1964, R. Malkin col.

***Edessa virididorsata* Silva et al., 2006**

Edessa virididorsata Silva, Fernandes & Grazia, 2006: 356-361, figs. 15, 27, 40-41, 53.

Paratypes: 1♂, pinned; BRA[zil]. SP [São Paulo], São Carlos, Fazenda Canchim, Cerrado 23.X.1993, N.W. Periotto col. 1♂, 1♀, pinned; [Brazil], MT [Mato Grosso], Utiariti, Rio Papagaio, 21-31.X.1966, Lenko and Pereira col.

***Euschistus longicornis* Hildebrand & Grazia, 1983**

Euschistus longicornis Hildebrand & Grazia, 1983: 82-84, figs. 1-10.

Holotype: ♂, Brasil, Mato Grosso, Barra do Tapirapé, 16-26.I.1964, R. Malkins col.

***Galedanta pulchra* Grazia, 1967**

Galedanta pulchra Grazia, 1967: 49-51, figs. 1, 3, 7-9.

Holotype: 1♂, pinned with genitalia in a microvial; Brasil, Paraná, Ponta Grossa, no date Camargo col.

Remarks: According to the original description, the holotype is deposited at the Museu Rio-grandense de Ciências Naturais (MRCN) and was collected in XII. [19]38.

***Hyantracos ditarsus* Grazia & Campos, 1996**

Hyantracos ditarsus Grazia & Campos, 1996: 16-19, figs. 2, 4, 9-12, 16-18, 20.

Holotype: ♂, pinned with genitalia in a microvial; Brasil, PA [Pará], Santarém, 04.v.1967, Exp[edição]. Perm[amente]. Amaz[onica].

***Lincus anulatus* Rolston, 1983**

Lincus anulatus Rolston, 1983: 22-24, figs. 45-48.

Paratypes: 1♀, pinned; Brasil, PA [Pará], S[an]ta. Isabel do Pará, 30.III.1962, J. Bechyné col. 1♂, pinned; [Brazil], Amapá, Igarapé Sucuriju, Série Navio, no date, Bicelli col. 1♂, pinned; Brasil, Amazonas, Benjamin Constant, 18-28. IX.1962, K. Lenko col.

***Lincus cropius* Rolston, 1983**

Lincus cropius Rolston, 1983: 12-13, figs. 12-15.

Holotype: ♂, pinned; Brasil, Amapá, Rio Pelioca, 04.VIII.1957, J. Lane col.

***Neotibilis peruana* Grazia & Barcellos, 1994**

Neotibilis peruana Grazia & Barcellos, 1994: 76-77, figs. 58, 65, 77-78, 86, 96, 100.

Holotype: ♂, pinned with genitalia in a microvial; Peru, Pucallpa, Rio Ucayali 200 m, Jan [1] 1960, Dirings col.

***Pallantia macunaima* Grazia, 1980**

Pallantia macunaima Grazia, 1980: 26-27, figs. 28-36.

Paratypes: 1♀, pinned; Brasil, Minas Gerais, Sete Lagoas, III.1963, F. Werner, U. Martins, L. Silva col. 1♀, pinned; [Brazil], MT [Mato Grosso], Três Lagoas, Água Tirada [stream], 15-30.V.[19]64, Exp[edição]. Dep[artamento]. Zool.[ogia].

***Paralincus silvae* Rolston, 1983**

Paralincus silvae Rolston, 1983: 185-187, figs. 2-5.

Paratype: 1♂, pinned; [Brazil], Ter.[ritório do] Amapá. Rio Amapari 16.VI.[19]35, J. Lane col.

***Paratibraca infuscata* Campos & Grazia, 1995**

Paratibraca infuscata Campos & Grazia, 1995: 165-170, figs. 1-15.

Paratypes: 1♂, pinned with genitalia in a microvial; [Brazil], AM [Amazonas], Ilha do Careiro, Lago do Rei, 12.IV.1967, Exp[edição] Perm[amente]. Am[a]z.[onica]. 1♂, pinned with genitalia glued to pinned paper; [Brazil], Santos, S[ão]. Paulo, Estrada velha [Caminhos do Mar Park] III.[19]57, Werner col.

***Phalaeus nigromaculatus* Grazia, 1983**

Phalaeus nigromaculatus Grazia, 1983: 185-186, figs. 23-31.

Paratype: 1♀, glued to pinned paper with genitalia in a microvial; Brasil, Terr.[itório do] Amapá, Rio Amapari, 8. VIII. 1959, J. Lane col.

***Rio indistincus* Fortes & Grazia, 2000**

Rio indistincus Fortes & Grazia, 2000: 81-83, figs. 8, 21, 34, 45-46, 55-56, 65, 76, 86-87, 114.

Paratypes: 2♀, pinned; Brasil, GO [Goias], Jataí Faz[enda]. Nova Orlandia, I.1964, Martins, Morgante & Silva col.

***Sedia robusta* Fortes & Grazia, 2005**

Sedia robusta Fortes & Grazia, 2005: 324-326, figs. 5, 22, 76, 90, 107, 113.

Paratypes: 1♀, pinned; [Brazil], S. [Santa] Catarina, Brusque, XII.[19]57, J. Leme col. 1♀, pinned; [Brazil], Est. [tação]. Bio.[lógica] Boraceia, Salesópolis, S.P. [São Paulo], 12.II.1963, L. Silva & H. Reichardt col.

***Serdia indistincta* Fortes & Grazia, 2005**

Serdia indistincta Fortes & Grazia, 2005: 310-312, figs. 3, 20, 37, 52, 69, 84.

Paratype: 1♀, pinned; S.[São] Paulo 13.XII.1916, Costa Lima col.

***Tibilis apposita* Barcellos & Grazia, 1993**

Tibilis apposita Barcellos & Grazia, 1993: 188-191, figs. 2-5, 14, 17, 20, 23, 28.

Paratypes: 1♂, pinned with genitalia in a microvial; [Brazil], Caraguatatuba SP [São Paulo]. Res. Flor. – 40 m, 02.IV.[1]962, Martins Reichardt and Silva col. 1♀, pinned; [Brazil], E[stado]. Rio [de Janeiro], Itatiaia, Maromba, 26.II[XII].1952, C. Leite, Seabra & Zikan col.

***Tibilis riograndensis* Barcellos & Grazia, 1993**

Tibilis riograndensis Barcellos & Grazia, 1993: 192-195, figs. 6-9, 15, 18, 21, 25, 30.

Paratypes: 1♀, 1♂, pinned; [Brazil], RS [Rio Grande do Sul], São Leopoldo, 01.X.1986, C.J. Becker col.

**Rhyparochromidae Amyot & Serville, 1843
Paisana lydiae Dellapé, 2008**

Paisana lydiae Dellapé, 2008: 24, 25, fig. 3, 16-20.

Holotype: ♂, one leg glued to pinned paper with genitalia in a microvial; Brasil, MG [Minas Gerais], Serra Caraça, 1390 m, XI.[1]9611, Kloss, Lenko, Martins & Silva col.

Paratype: 1♀, glued to pinned paper; same data as holotype.

Remarks: In the original description, two females are designated as paratypes, however, only one was found at MZUSP.

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