

This article was downloaded by: [María C. Melo]

On: 10 August 2015, At: 07:26

Publisher: Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: 5 Howick Place, London, SW1P 1WG



Journal of Natural History

Publication details, including instructions for authors and subscription information:

<http://www.tandfonline.com/loi/tnah20>

Biodiversity of the scentless plant bugs (Hemiptera: Rhopalidae) in southern South America

M.C. Melo^{ab} & S.I. Montemayor^{ab}

^a División Entomología, Museo de La Plata, U.N.L.P., Paseo del Bosque s/nº (1900) La Plata, Buenos Aires, Argentina

^b Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

Published online: 06 Aug 2015.



CrossMark

[Click for updates](#)

To cite this article: M.C. Melo & S.I. Montemayor (2015): Biodiversity of the scentless plant bugs (Hemiptera: Rhopalidae) in southern South America, Journal of Natural History, DOI: [10.1080/00222933.2015.1073810](https://doi.org/10.1080/00222933.2015.1073810)

To link to this article: <http://dx.doi.org/10.1080/00222933.2015.1073810>

PLEASE SCROLL DOWN FOR ARTICLE

Taylor & Francis makes every effort to ensure the accuracy of all the information (the "Content") contained in the publications on our platform. However, Taylor & Francis, our agents, and our licensors make no representations or warranties whatsoever as to the accuracy, completeness, or suitability for any purpose of the Content. Any opinions and views expressed in this publication are the opinions and views of the authors, and are not the views of or endorsed by Taylor & Francis. The accuracy of the Content should not be relied upon and should be independently verified with primary sources of information. Taylor and Francis shall not be liable for any losses, actions, claims, proceedings, demands, costs, expenses, damages, and other liabilities whatsoever or howsoever caused arising directly or indirectly in connection with, in relation to or arising out of the use of the Content.

This article may be used for research, teaching, and private study purposes. Any substantial or systematic reproduction, redistribution, reselling, loan, sub-licensing, systematic supply, or distribution in any form to anyone is expressly forbidden. Terms &

Conditions of access and use can be found at <http://www.tandfonline.com/page/terms-and-conditions>

Biodiversity of the scentless plant bugs (Hemiptera: Rhopalidae) in southern South America

M.C. Melo^{a,b} and S.I. Montemayor^{a,b}

^aDivisión Entomología, Museo de La Plata, U.N.L.P., Paseo del Bosque s/n° (1900) La Plata, Buenos Aires, Argentina; ^bConsejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

ABSTRACT

This paper provides a comprehensive faunal survey of the Rhopalidae from southern South America with emphasis on the fauna of Argentina, based on published and unpublished data. The biodiversity from Argentina comprises 38 recorded species from six genera: *Arhyssus* Stål 1870 (one species), *Liorhyssus* Stål 1870 (two species), *Niesthrea* Spinola 1837 (five species), *Xenogenus* Berg 1883 (two species), *Harmostes* Burmeister 1835 (20 species), and *Jadera* Stål 1862 (eight species). We established accurate distributions for most of the species and report new distributional information for 27 of them. Most of these records are from Argentinean provinces, but we also report five new country records: three from Argentina – *Harmostes* (*Harmostes*) *splendens* Harris 1944, *H.* (*Neoharmostes*) *bergi* Göllner-Scheiding 1998 and *Arhyssus* *tricostatus* (Spinola 1852); one from Brazil – *Xenogenus* *picturatum* Berg 1883; and one from Paraguay – *Harmostes* (*Harmostes*) *gravidator* (Fabricius 1794).

ARTICLE HISTORY

Received 17 June 2014
Accepted 14 July 2015

KEYWORDS

Arhyssus; *Harmostes*;
Liorhyssus; *Niesthrea*;
Xenogenus; *Jadera*

Introduction

The family Rhopalidae is a small group of terrestrial Heteroptera that includes 21 genera and about 227 species (CoreoideaSF Team 2014). They are called scentless plant bugs because of the reduction of their metathoracic scent gland ostioles. They are known from all biogeographical regions in the world, but many genera show a rather restricted range of distribution (Chopra 1967). Schaefer (1965), in his study of the morphology and classification of the Coreoidea, was the first to demonstrate clearly that Rhopalidae form a natural group of insects deserving the rank of family. Chopra (1967) worked on the higher classification of the family, providing keys to subfamilies, tribes and genera, and providing diagnoses of all them. Göllner-Scheiding (1975, 1976, 1977, 1978a, 1978b, 1979, 1980, 1982, 1983, 1998) made the most important contributions to the group, studying many of the genera and cataloguing the entire family.

The family includes two subfamilies: Rhopalinae, with five tribes, and Serinethinae, not divided into tribes. They are all represented in the Nearctic and Neotropical regions except for one tribe, the Corizomorphini, which is restricted to the Palaearctic (Chopra 1967). Six genera are represented exclusively in the Western Hemisphere: *Aufeius* Stål

1870, *Arhyssus* Stål 1870, *Boisea* Kirkaldy 1910, *Harmostes* Burmeister 1835, *Jadera* Stål 1862, *Niesthrea* Spinola 1837 and *Xenogenus* Berg 1883, all of which are represented in Argentina, except *Aufeius* and *Boisea*.

Although Rhopalids are plentiful in collections, they have been poorly studied in Argentina. There are only two compilations: a chapter in a book summarising everything known about this family in Argentina (Melo and Montemayor 2014), and a paper (Pall and Coscarón 2012) which unfortunately contains many contradictions and lacks evidence supporting several new records and distributions reported for Argentina.

Thus, our main goal was to provide a solidly based list of species of the southern South American (Argentina, Chile, Bolivia, southern Brazil, Paraguay and Uruguay) rhopalids, with special attention to the Argentinean fauna. We present a detailed inventory based on the study of specimens from entomological collections and material collected by the authors. We have been able to establish accurate distributions for the Argentinean species, providing new distributional information for many of them both from Argentina and neighbouring countries.

Material and methods

We examined over 1000 specimens from the most important entomological collections in Argentina: Museo de La Plata (MLP), La Plata, Argentina, and Museo Argentino de Ciencias Naturales 'Bernardino Rivadavia' (MACN), Buenos Aires City, Argentina. We also studied the collection of the National Museum of Natural History, Smithsonian Institution, Washington, DC, USA (USNM). We were able to identify most of the specimens studied, although some were excluded because they were poorly preserved and parts of the bodies were missing.

The type species is provided for each genus mentioned. For all species listed, we provide the original description and every bibliographic reference mentioning their distribution in Argentina, including locality data. We include the Isid for each genus and species provided by the Coreoidea Species File (CoreoideaSF Team 2014) database, which links to more information about each taxon. All the material examined, including sex and the complete data from the labels, is presented. New records for Argentinean provinces and for countries are indicated with an asterisk (*).

We also present distributional maps produced using Arc Map 10 geographic information system software.

Results

Subfamily **RHOPALINAE** Amyot and Serville, 1843

Tribe **RHOPALINI** Amyot and Serville, 1843

Genus ***Liorhyssus*** Stål, 1870

Isid:Coreoidea.speciesfile.org:TaxonName:452328

(Figure 1)

Type species

Lygaeus hyalinus Fabricius, 1794.

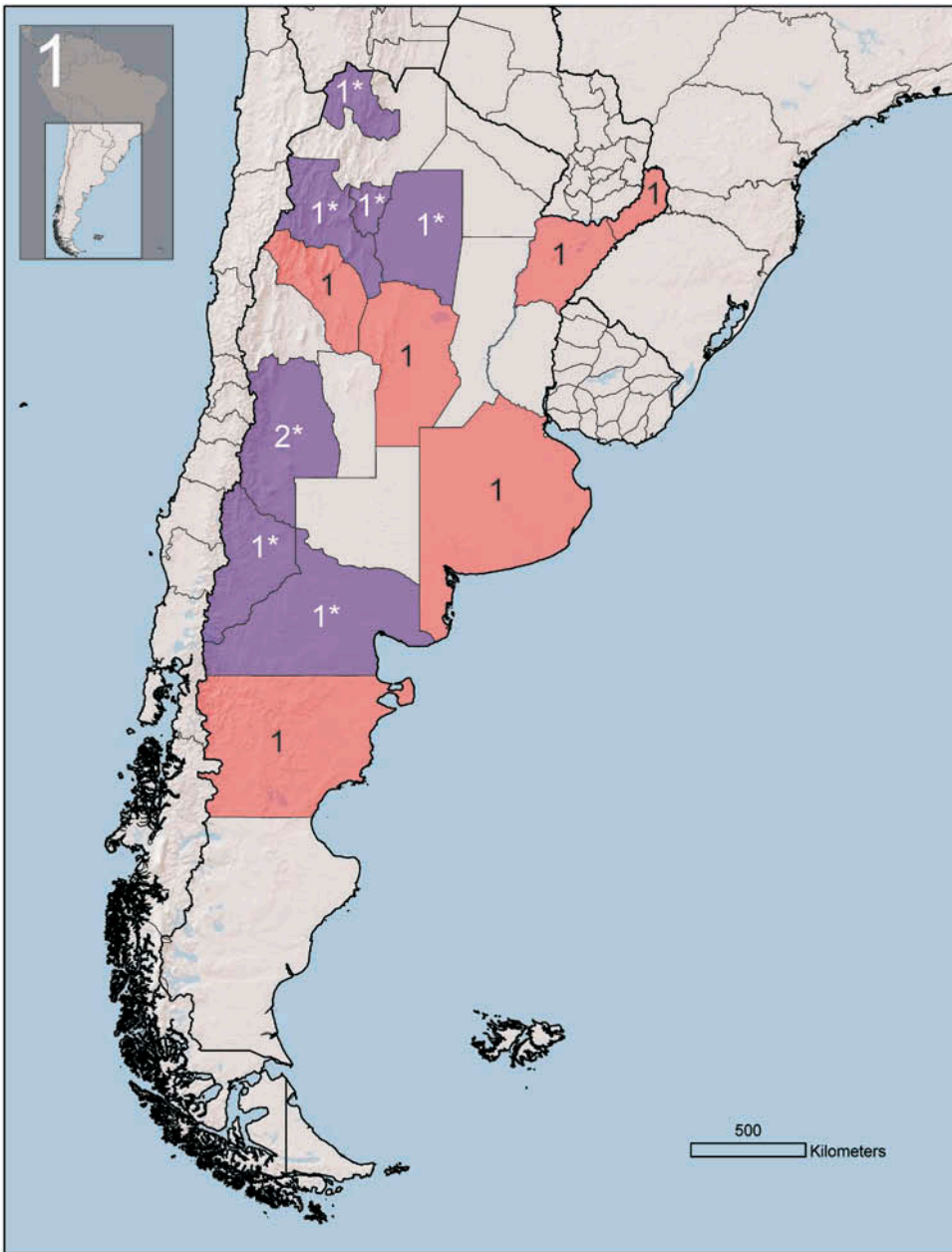


Figure 1. Distribution of *Liorhyssus* Stål species in Argentina. Pale colour: known distributions; dark colour: new distributions. The number of known species for each province is provided, with an asterisk indicating the number of newly recorded species.

***Liorhyssus hyalinus* (Fabricius, 1794)**

Isid:Coreoidea.speciesfile.org:TaxonName:452354

Lygaeus hyalinus Fabricius 1794: 168 (America Insulis).

Corizus (Liorhyssus) lugens (Stål): Berg 1878: 188 (**Corrientes**); Pennington 1920: 16 (Argentina); Pennington 1922: 167 (**Buenos Aires, La Rioja**); Bosq 1940: 402 (Patagonia) (Bold names refer to administrative provinces, departments or states of countries).

Liorhyssus lugens (syn. by Göllner-Scheiding 1976): Berg 1883: 254 (**Buenos Aires**: Tandil; **Corrientes**; Patagonia); Viana and Williner 1978: 75 (**Córdoba**: Carlos Paz).

Corizus lugens: Lethierry and Severin 1894: 118 (Patagonia).

Liorhyssus hyalinus: Henry 1988: 660 (Mexico to South America); Hradil et al. 2007: 58 (**Misiones**: Puerto Iguazú); Carpintero and de Biase 2011: 42 (**Buenos Aires**: Isla Martín García); Cornelis et al. 2012: 84 (**La Pampa**: Santa Rosa); Dellapé and Carpintero 2012: 133 (**Buenos Aires**: Tandil, Parque Independencia); Pall and Coscarón 2012: 1457 (**Corrientes**; Patagonia).

Material examined

ARGENTINA: 1♀, in grapes, intercepted in New York, 28-V-[19]36 (USNM); 1♀ same data, 24-V-[19]35 (USNM); 1♂, 1♀, in grape packing, intercepted in New York, 8-V-[19]36 (USNM); **Buenos Aires**: 1♀, Tigre, Delta, 7-IV-1927, swept in orchard, M. Kisliuk collector (col.) (USNM); 1♀, 24-XI-1038, C.H. Richardson col., H.M. Harris collection (coll.) (USNM); 1♀, 23-XI-1938, C.J. Drake col., H.M. Harris coll. (USNM); 2♂, 1♀, La Colina, 9-XII-1938, C.J. Drake col., H.M. Harris coll. (USNM); 1♂, La Plata, 20-IV-1927, M. Kisliuk col. (USNM); **Catamarca**: 1♀, Saujil, 6-VI-1927, on weeds, M. Kisliuk col. (USNM); **Jujuy**: 1♀, Tilcara, 8-V-1928, swept in orchard, M. Kisliuk col. (USNM); **Mendoza**: 1♀, Uspallata, 13-III-1940, Bosq coll.(MLP); **Misiones**: 3♂, 2♀, Parque Provincial Uruguá-í, 25°51'46.6" S, 54°10'13.9" W, 276 m, 20-IX-2010, S. Montemayor col. (MLP); 1♂, 2♀, same data, 29-IX-2010 (MLP); **Santiago del Estero**: 1♀, 22-V-1927, M. Kisliuk col. (USNM); **Tucumán**: 2♂, 1♀, 1-V-[19]14, T.C. Barber col. (USNM).

Argentinean distribution

Buenos Aires, Catamarca*, Córdoba, Corrientes, Jujuy*, La Pampa, La Rioja, Mendoza*, Misiones, Santiago del Estero* and Tucumán*.

Central and South American distribution

Antillas, Antigua, Argentina, Bermuda, Bolivia, Brazil, Chile, Cuba, Colombia, Dominican Republic, Galápagos Islands, Grenada, Guatemala, Haiti, Jamaica, Nicaragua, Paraguay, Puerto Rico, Venezuela (Hradil et al. 2007).

Liorhyssus lineatoventris (Spinola, 1852)

lsid:Coreoidea.speciesfile.org:TaxonName:452335

Merocoris lineatoventris Spinola 1852: 168–170 (Chile).

Liorhyssus lineatoventris: Göllner-Scheiding 1976: 196 (**Chubut**); Pall and Coscarón 2012: 1457 (Argentina).

Material examined

ARGENTINA: **Chubut**: 3♂, 1♀, Valle Huenuco (?), X-[19]49 (MLP); **Mendoza**: 1♂, Mendoza (MLP); **Neuquén**: 1♀, XII-1922, Koehler col. (MLP); 1♀, San Martín de los Andes, 4-III-1942, M. Birabén col. (MLP); **Río Negro**: 1♀, Valcheta, 20-II-1941, Birabén col. (MLP).

Argentinean distribution

Chubut, Mendoza*, Neuquén* and Río Negro*.

Central and South American distribution

Argentina, Chile, and Ecuador (doubtful) (Göllner-Scheiding 1983).

Tribe **NIESTHREINI** Chopra, 1967

Genus **Arhyssus** Stål, 1870 NEW COUNTRY RECORD

Isid:Coreoidea.speciesfile.org:TaxonName:452430

Type species

Coryzus bohemani Signoret, 1859

Arhyssus tricostatus (Spinola, 1852) NEW COUNTRY RECORD

Isid:Coreoidea.speciesfile.org:TaxonName:452122

Merocoris tricostatus Spinola 1852: 172–173 (Chile: central provinces).

Material examined

ARGENTINA: Mendoza: 1♂, Uspallata, 13-III-1940, Dra. Chiarelli, Bosq coll. (MLP).

Argentinean distribution

Mendoza*.

Central and South American distribution

Chile (Chopra 1968); Argentina*.

Comments

Most *Arhyssus* species occur in the Nearctic Region, where they are widely distributed. Only two species are known from the Neotropics: *A. tricostatus* and *A. peruensis* Chopra, 1968 from Peru, both of which belong to the *tricostatus* group (Chopra 1968).

Genus **Niesthrea** Spinola, 1837

Isid:Coreoidea.speciesfile.org:TaxonName:452477

(Figure 2)

Type species

Lygaeus sidae Fabricius, 1794.

Niesthrea agnes Chopra, 1973

Isid:Coreoidea.speciesfile.org:TaxonName:452503

Niesthrea agnes: Chopra 1973: 456 (**Argentina: Mendoza:** Potrerillos); Göllner-Scheiding 1983: 53 (**Mendoza:** Potrerillos); Pall and Coscarón 2012: 1458 (**Mendoza:** Potrerillos); CoreoideaSF Team 2014 (Argentina).

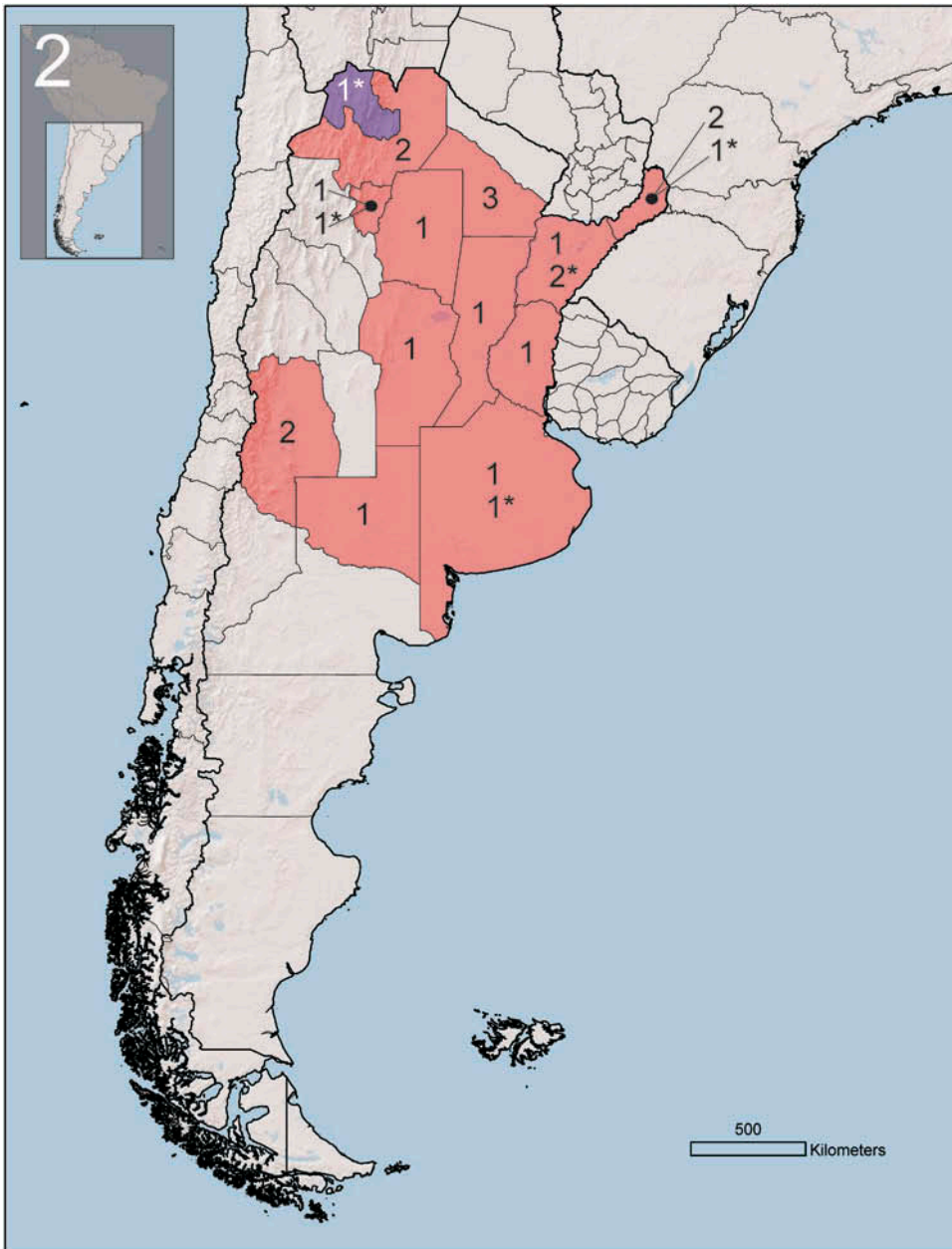


Figure 2. Distribution of *Niesthrea Spinola* species in Argentina. Pale colour: known distributions; dark colour: new distributions. The number of known species for each province is provided, with an asterisk indicating the number of newly recorded species.

Material examined

ARGENTINA: Buenos Aires: 6♂ 5♀, B. Aires, 9-IV-[19]40 m J.B. (MACN); **Mendoza:** 3♂ 5♀, Ñacuñan, I-[19]76, A. Roig. col. (MACN); **Tucumán:** 1♂, Tucumán, II-[19]03 (MACN).

Argentinean distribution

Buenos Aires*, Mendoza, and Tucumán*.

Central and South American distribution

Argentina (Chopra 1973; Göllner-Scheiding 1983).

Niesthrea josei Göllner-Scheiding, 1989

Isid:Coreoidea.speciesfile.org:TaxonName:452496

Niesthrea josei Göllner-Scheiding 1989: 297 (**Salta**); Pall and Coscarón 2012: 1458 (**Salta**); CoreoideaSF Team 2014 (Argentina).

Argentinean distribution

Salta.

Central and South American distribution

Argentina (Göllner-Scheiding 1989).

Niesthrea pictipes (Stål, 1859)

Isid:Coreoidea.speciesfile.org:TaxonName:452487

Rhopalus pictipes Stål 1859: 54 (**Buenos Aires**, Insula Taiti, Rio Janeiro).

Corizus (Niesthrea) anticus Signoret (syn. by Distant 1882): Berg 1878: 187 (**Buenos Aires**).

Corizus anticus: Signoret 1859: 99 (**Buenos Aires**); Lethierry and Severin 1894: 115 (**Buenos Aires**); Quintanilla et al. 1975/1976: 119 (**Corrientes**: Monte Caseros); Göllner-Scheiding 1983: 54 (**Buenos Aires**).

Corizus pictipes: Distant 1882: 171 (**Buenos Aires**); Lethierry and Severin 1894: 119 (**Buenos Aires**); Montandon 1895: 7 (**Buenos Aires, Salta**, San Pablo, Resistencia, Luque, San Pedro); Torre-Bueno and Thorne 1915: 160 (**Buenos Aires, Santiago del Estero**); Quintanilla et al. 1975/1976: 119 (**Corrientes**: Bella Vista, Verón de Astrada, Empedrado, Esquina, General Alvear, Itatí, Ituzaingo, Monte Caseros, Paso de los Libres, San Luis del Palmar, y Santo Tomás); Quintanilla et al. 1967/1968: 31 (**Entre Ríos**: Concordia, Gualeguay, La Paz, Paraná, Victoria, Villaguay); Quintanilla et al. 1981: 149 (**Misiones**: Alem, Belgrano, Cainguás, Eldorado, Montecarlo); Di Iorio 2004: 245 (**Chaco, Corrientes, Entre Ríos, Misiones, Santiago del Estero, Tucumán**).

Corizus (Niesthrea) pictipes: Berg 1878: 186 (**Buenos Aires, Misiones, Corrientes, Tucumán, Córdoba, Mendoza**, Patagonia); Berg 1880: 12 (Argentina); Pennington 1920: 16 (Litoral, Centro y Andina); Pennington 1922: 167 (Argentina); Bosq 1937: 114 (**Santiago del Estero, Chaco**); Dellapé and Carpintero 2012: 133 (**Buenos Aires**: Tandil, Parque Independencia).

Niesthrea pictipes: Chopra 1973: 449–450 (**Chaco**: Isla Los Cisnes); Carpintero and De Biase 2011: 42 (**Buenos Aires**: Isla Martín García); Pall and Coscarón 2012: 1459 (**Buenos Aires**: La Plata; **Córdoba**: Villa Dolores; **Corrientes**: Loreto, Bella Vista, Pellegrini; **Entre Ríos**: La Paz; **La Rioja**; **La Pampa**: General Pico; **Mendoza**;

Misiones; San Juan; Santa Fe: Arrufo; **Santiago del Estero; Salta:** J.V. González; **Tucumán).**

Niesthrea (Corizus) pictipes: Pall et al. 2013: 383–384 (**La Pampa:** Río Salado (Sta. Isabel); Lihue Calel; Casa de Piedra; Gral Pico).

Material examined

Argentina: Buenos Aires: 1♂, Denier col. (MLP); 1♂ 1♀, Pereyra Iraola, 31-VIII-[1]958, E. B. Arana col. (MLP); **Chaco:** 1♂, Laguna Blanca, 7-XII-1939, Birabén-Bezzi col. (MLP); **Córdoba:** 3♂, Alta Gracia, La Granja, I-[1]938, C. Bruch leg. (MLP); **Corrientes:** 1♂ 2♀, Reserva Provincial Iberá, Col. C. Pellegrini, 5-XII-2001, Coscarón col. (MLP); 3♂, same locality, 5-XII-2001, Dellapé, P.M. col. (MLP); **Jujuy:** 1♂, Dique La Ciénaga, 30-I-[1]958, Torres-Ferreyra col. (MLP); **Misiones:** 1♂, Pto. Bemberg, I-[19]45, Bosq coll. (MLP); 2♂, 3♀, R.P. 2, 20 km NE El Soberbio, 27°12.220 S, 54°1.375 W, 326 m, 5-II-2010, G. Del Rio col. (MLP); 1♂, 1♀, close to R.P. Moconá, camino a Gendarmería, 27°7'37.4" S, 53°56'55.5" W, 342 m, 2-IV-2012, S. Montemayor col. (MLP); 1♂, Mesa Redonda, 27°9'18.5" S, 57°58'54.5" W, 2-IV-2012, M.C. Melo col. (MLP); **Salta:** 2♂ 1♀, Güemes, II-[19]45, Martínez-Bezzi cols. (MLP); 2♂, Coronel Moldes, 9-III-1939, Birabén- Scott leg. (MLP); 1♂ 1♀, J.V. González, 28-VII-[19]92, s/ algodón, INTA (MLP); **Tucumán:** 1♂ 2♀, La Cocha, 20-III-1939, Birabén- Scott leg. (MLP).

Argentinean distribution

Buenos Aires, Chaco, Córdoba, Corrientes, Entre Ríos, Jujuy*, La Pampa, Mendoza, Misiones, Salta, Santa Fe, Santiago del Estero and Tucumán.

Central and South American distribution

Argentina, Brazil and Paraguay (Chopra 1973; Göllner-Scheiding 1983).

Comments

Pall and Coscarón (2012) reported this species from La Rioja and San Juan provinces, but did not give a bibliographical reference or list material examined from these areas.

Remarks

This species is often found in sympatry with *N. vincentii*.

***Niesthrea similis* Chopra, 1973**

Isid:Coreoidea.speciesfile.org:TaxonName:452484

Niesthrea similis Chopra 1973: 452–453 (**Misiones:** Bemberg, Alto Paraná); Göllner-Scheiding 1983: 56 (**Misiones:** Bemberg, Alto Paraná); Melo et al. 2011: 16 (**Chaco:** Chaco National Park, Laguna Panza de Cabra); Pall and Coscarón 2012: 1459 (**Misiones:** Alto Paraná, Bember [sic]).

Material examined

Argentina: Chaco: 1♂, P.N. Chaco, Laguna Panza de Cabra, 26°52'3,4" S, 59°37'38" W, 25-IX-2009, P.M. Dellapé col. (MLP); **Corrientes:** 1♂, Corrientes (MLP); **Misiones:** 4♂ 4♀,

close to R.P. Moconá, camino a Gendarmería, 27°7'37.4" S, 53°56'55.5" W, 342 m, 2-IV-2012, S. Montemayor col. (MLP).

Argentinean distribution

Chaco, Corrientes*, and Misiones.

Central and South American distribution

Argentina and Brazil (Chopra 1973; Göllner-Scheiding 1983).

Niesthrea vincentii (Westwood, 1842)

Isid:Coreoidea.speciesfile.org:TaxonName:452478

Corizus vincentii Westwood 1842: 26 (St. Vincent Island).

Niesthrea vincentii: Chopra 1973: 447 (**Chaco**: Roque Sáenz Peña); Pall and Coscarón 2012: 1459 (Argentina).

Material examined

ARGENTINA: Chaco: 1♂, Parque Nacional Chaco, Lag. Panza de Cabra, 26°52'3.4" S, 59°37'38" W, 25-IX-2009, Dellapé, P.M. col. (MLP); **Corrientes**: 1♂ 2♀, Monte Caseros, 4-XI-1944, M. Birabén col. (MLP); 1♂, Reserva Provincial Iberá, Col. C. Pellegrini, 6-XII-2001, Margnanelli, M. col. (MLP); 2♀, same locality, 5-XII-2001, Melo, M.C. col. (MLP); 1♂ 3♀, same locality, 5-XII-2001, Chayle, M. col. (MLP); **Misiones**: 1♂, close to P.P. Moconá, Mesa Redonda, 27°9'18.5" S, 57°58'54.5" W, 2-IV-2012, M.C. Melo col. (MLP); 2♂1♀, P.P. Moconá, 27°9'18.5" S, 57°9'18.5" W, 31-III-2012, S. Montemayor col. (MLP); **Santa Fe**: 1♂, Vera, 24-XI-1939, Birabén-Bezzi col. (MLP); 1♂, Reconquista, 26-XI-1939, Birabén-Bezzi col. (MLP).

Argentinean distribution

Chaco, Corrientes*, Misiones* and Santa Fe*.

Central and South American distribution

Argentina, Brazil, Paraguay, Venezuela and West Indies (Saint Vincent Is.) (Göllner-Scheiding 1983), same countries plus Cuba and Panamá (Chopra 1973).

Remarks

This species is often found in sympatry with *N. pictipes*.

Tribe **CHOROSOMINI** Douglas and Scott, 1865

Genus ***Xenogenus*** Berg, 1883

Isid:Coreoidea.speciesfile.org:TaxonName:452515

(Figure 3)

Type species

Xenogenus picturatum Berg, 1883.

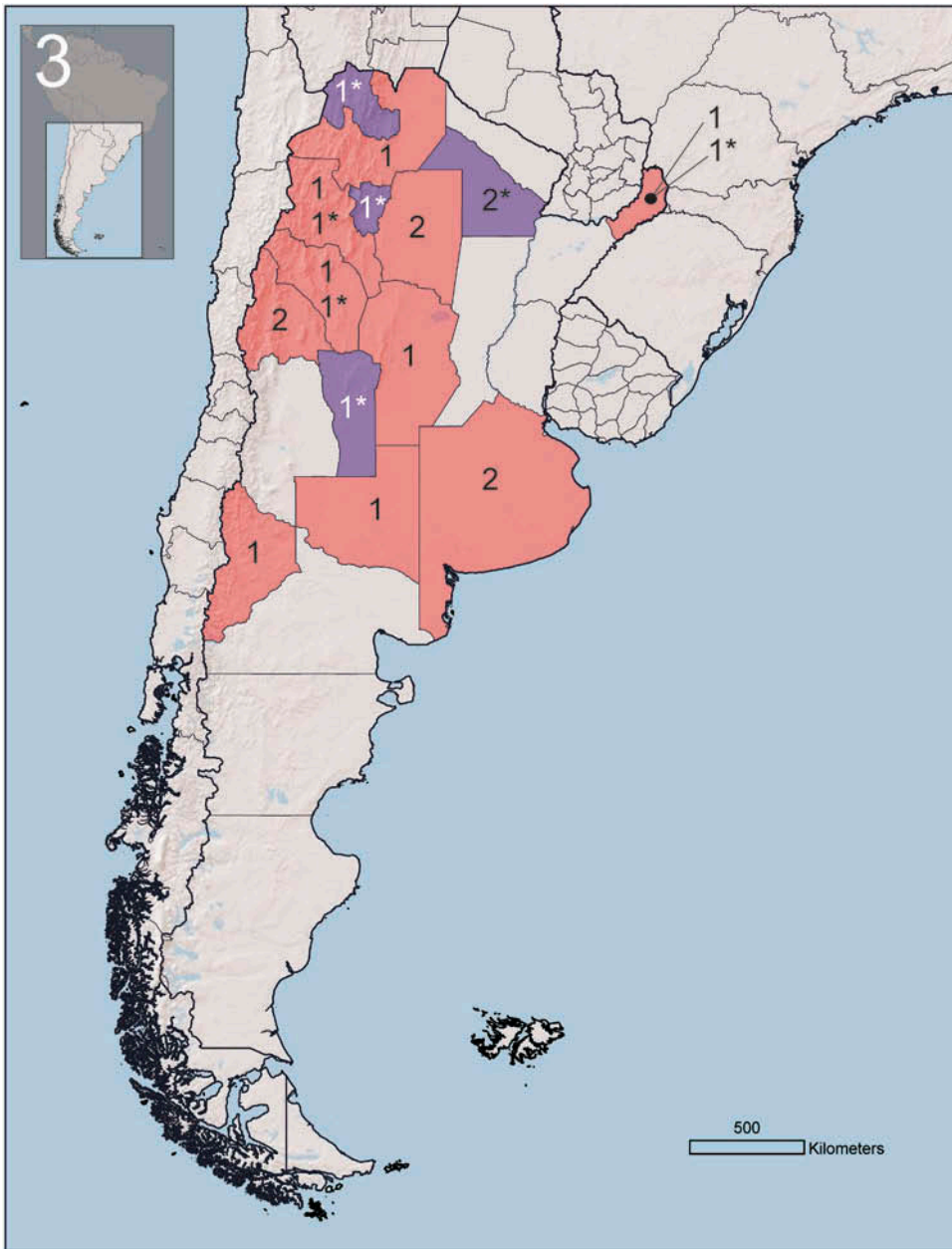


Figure 3. Distribution of *Xenogenus Berg* species in Argentina. Pale colour: known distributions; dark colour: new distributions. The number of known species for each province is provided, with an asterisk indicating the number of newly recorded species.

Xenogenus picturatum Berg, 1883

lsid:Coreoidea.speciesfile.org:TaxonName:452516

Xenogenus picturatum Berg 1883: 253–254 (**Buenos Aires**); Pennington 1920: 16 (Argentina: Litoral, Centro y Andina); Pennington 1922: 166 (**Buenos Aires; La Rioja**); Göllner-Scheiding 1980: 120 (**Buenos Aires**); Henry 1988: 653 (Mexico to

Argentina); Coscarón 1998: 4 (**Buenos Aires**); Carpintero and De Biase 2011: 42 (**Buenos Aires**: Isla Martín García); Dellapé and Carpintero 2012: 133 (**Buenos Aires**: Tandil); Pall and Coscarón 2012: 1455 (**Buenos Aires**: La Plata, Felipe Solá, J.C. Paz; **Catamarca**: Miraflores, Belén; **Córdoba**: La Huerta, La Cabaña; **Corrientes**; **Entre Ríos**; **La Pampa**; **La Rioja**: Nonogasta; **Misiones**; **Mendoza**; **Neuquén**: Lago Curruhué; **San Luis**; **San Juan**: Villa Aberastein [sic]; **Salta**: Güemes, Coronel Moles; **Santiago del Estero**: Quimilí; **Tucumán**: Trancas, La Cocha); Diez and Coscarón 2015: 574 (**Chubut**: Esquel; **Neuquén**: near San Martín de los Andes).

Xenogenus picturatus [sic]: Lethierry and Severin 1894: 115 (**Buenos Aires**).

Xenogenus extensum Distant (syn. by Göllner-Scheiding 1980): Brailovsky and Soria 1981: 153–154 (Argentina); Pall and Coscarón 2012: 1455 (Argentina).

Material examined

URUGUAY: Lectotype ♂, Banda Oriental (MLP); **ARGENTINA**: paralectotype ♂, **Buenos Aires**, Jose Prini, 1883 (MLP); **Buenos Aires**: 1♂, J.C. Paz, XII-1938, (MLP); 1♂ 2♀, José C. Paz, 1940, J.A. Rosas Costa col. (MLP); 1♂ 1♀, José C. Paz, XI-XII-1948, A.R. Bezzi col. (MLP); **Chaco**: 1♂, Lag. La Azula, 26°44'5,5" S, 59°26'14,7" W, 26-IX-2009, P. Dellapé col. (MLP); 1♂ 1♀, Pte. Perón (Chaco), Resistencia, 29-III-1953, J. Foerster col., J.C. Lutz coll. (USNM); **Catamarca**: 1♂, Belén, 9-III-62, Torres- Ferreyra col. (MLP); **Jujuy**: 3♂ 1♀, Pampa Blanca, 13-III-1939, Birabén- Scott cols. (MLP); **La Rioja**: 1♀, VI-1929, Gomez col., H.M. Harris coll. (USNM); **Misiones**: 3♂1♀, Parque Provincial Moconá, 27°9.185' S, 53°54.08' W, 31-III-2012, S. Montemayor col. (MLP); **Neuquén**: 4♂ 2♀, RN 40, 20 NW Esquel, -42.802607600-71.121041000, 866 m, 24-I-2014, Dellapé, P.M. col. (MLP); **San Juan**: 1♂, Dto. Pocito, Villa Aberastain, 22-I-64, Dr. Torres- Ferreyra col. (MLP); 1♀, same data, 23-I-64; **Salta**: 1♂ 3♀, Güemes, 2-9-45, A. Martínez col.(MLP); 1♂, Cafayate, Quebrada R. Colorado, IV-97, P.P. Goodwyn col. (MLP); **Santiago del Estero**: 1♀, XI-1928, Gómez col., H.M. Harris coll. (USNM); 1♂, Quimilí, 9-XII-1939, Birabén-Bezzi col. (MLP). **BRAZIL**: 1♂ 1♀, Parana, Foz do Iguacu, 19-VII-1961, Krauss col. (USNM).

Argentinean distribution

Buenos Aires, Catamarca, Chaco*, Jujuy*, La Rioja, Misiones, Neuquén, Salta, San Juan and Santiago del Estero.

Central and South American distribution

Argentina and Uruguay (Berg 1883); North America, Middle America and South America (Göllner-Scheiding 1983); Argentina, Bolivia, Cuba, Mexico, Puerto Rico and USA (Brailovsky and Soria 1981); Brazil* NEW COUNTRY RECORD.

Comments

Pall and Coscarón (2012) mentioned this species from Corrientes, Entre Ríos, La Pampa, Mendoza and San Luis provinces; but there is no bibliographical record or list of material from these areas. In 'material studied' they reported two localities from each of Tucumán and Córdoba provinces, but we did not find specimens in the collection they studied (MLP) or in any of the other collections examined, so these records could be based on misidentification. It is difficult to track the material they studied because they provide no information other than mentioning localities. Regarding the records from Neuquén, we did not find specimens from the locality they mention, but we did find six specimens

from a more southern locality. They also mentioned Jujuy as a first record although they did not give a record of any material from that province.

Remarks

Pall and Coscarón (2012) include *Xenogenus extensum* Distant in their catalogue, overlooking that it was synonymised by Göllner-Scheiding (1980) under *Xenogenus picturatum* Berg.

Xenogenus gracilis (Reed, 1899)

Isid:Coreoidea.speciesfile.org:TaxonName:452519

Harmostes gracilis Reed 1899: 44–45 (Chile).

Xenogenus gracilis (Reed); Göllner-Scheiding 1980: 120 (Argentina); Pall and Coscarón 2012: 1455 (Argentina); Melo and Montemayor 2014: 122 (**Buenos Aires, Córdoba, La Pampa, San Juan; Santiago del Estero**); Diez and Coscarón 2015: 574 (**Chubut**: Los Altares); Pall et al. 2013: 384 (**La Pampa**: Lihue Calel; Gral Pico).

Material examined

ARGENTINA: Buenos Aires: 1♂, Tigre, Delta, M. Kisluik col., 7-IV-1927, sweep in orchard (USNM); 2♂ 1♀, Ciudad, 29-III-1919 (MLP); 1♂ 1 w/abdomen, Felipe Solá, XII-1944, A. Martínez (MLP); **Catamarca:** 3♂, Miraflores, 5-III-1962, Torres- Ferreyra cols. (MLP); 1♂, 7-VI-1899, S. Venturi col.(MACN); **Chaco:** 2♂, 2♀, Resistencia to Santiago del Estero, 8/12-IV-[19]40, at light, H.L. Parker col. (USNM); 1♂, 23-X-1897, S. Venturi col. (MACN); **Córdoba:** 1♂, La Puerta, 23-I-1940, Birabén col. (MLP); 1♂ 1♀, Villa Allende, 6-VI-1952, A.H. Argemí col. (MLP); 1♀, Cabana, 10-II-1942, M. Birabén col. (MLP); 1♀, Las Toscas, Ischilin, VII-98, Cicchino-Abramovich col. (MLP); **La Pampa:** 7♂ 9♀, [General] Pico, IV-1934 (MLP); **La Rioja:** 4♂ 2♀, Nonogasta, 21-II-59, Torres-Gardella cols. (MLP); 1♂ 1♀, Patquia, Breyer col. (MACN); 1♂, Patquia, Cuayapa, 10-XII-[19]62, L. Yivoff col. (MACN); **Misiones:** 1♂, 7598 (MACN); **San Luis:** 1♂ 3♀, San Luis, 1932, M. Vignati col. (MLP); **San Juan:** 1♂, 1939, J. Liebermann (MLP); 1♂, Pie de Palo, 12-III-1940, Birabén col. (MLP); **Santiago del Estero:** 1♂, Quimili, 9-XII-1939, Birabén-Bezzi col. (MLP); 7♂ 9♀, Fortín Inca, 20-XII- [19]37 (MLP); 1♂, XI-1928 (MACN); **Tucumán:** 3♀, Trancas, 15-III-1939, Birabén-Scott cols. (MLP); 1♂, Trancas, 20-III-1939, Birabén-Scott cols. (MLP); 1♂ 1♀, 19-II-1897, S. Venturi col. (MACN).

Argentinean distribution

Buenos Aires, Catamarca*, Chaco*, Córdoba, La Pampa, La Rioja*, Misiones*, San Juan, San Luis*, Santiago del Estero and Tucumán*.

Central and South American distribution

Argentina, Bolivia, Brazil, Chile, Peru (Göllner-Scheiding 1980).

Tribe **HARMOSTINI** Stål, 1873

Genus **Harmostes** Burmeister, 1835

Isid:Coreoidea.speciesfile.org:TaxonName:452584

(Figures 4, 5)

Type species

Harmostes dorsalis Burmeister, 1835

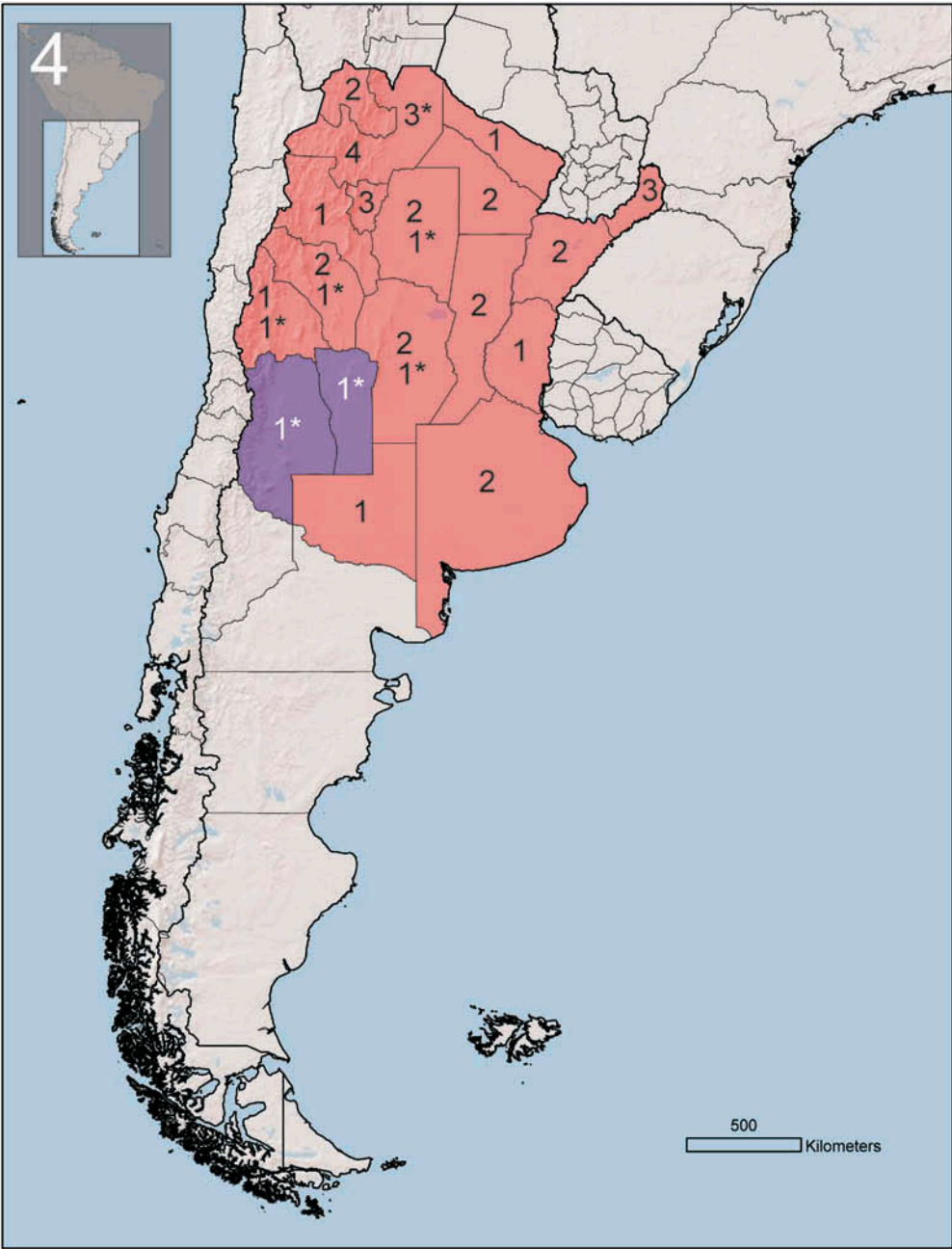


Figure 4. Distribution of *Harmostes* (*Harmostes*) Burmeister species in Argentina. Pale colour: known distributions; dark colour: new distributions. The number of known species for each province is provided, with an asterisk indicating the number of newly recorded species.

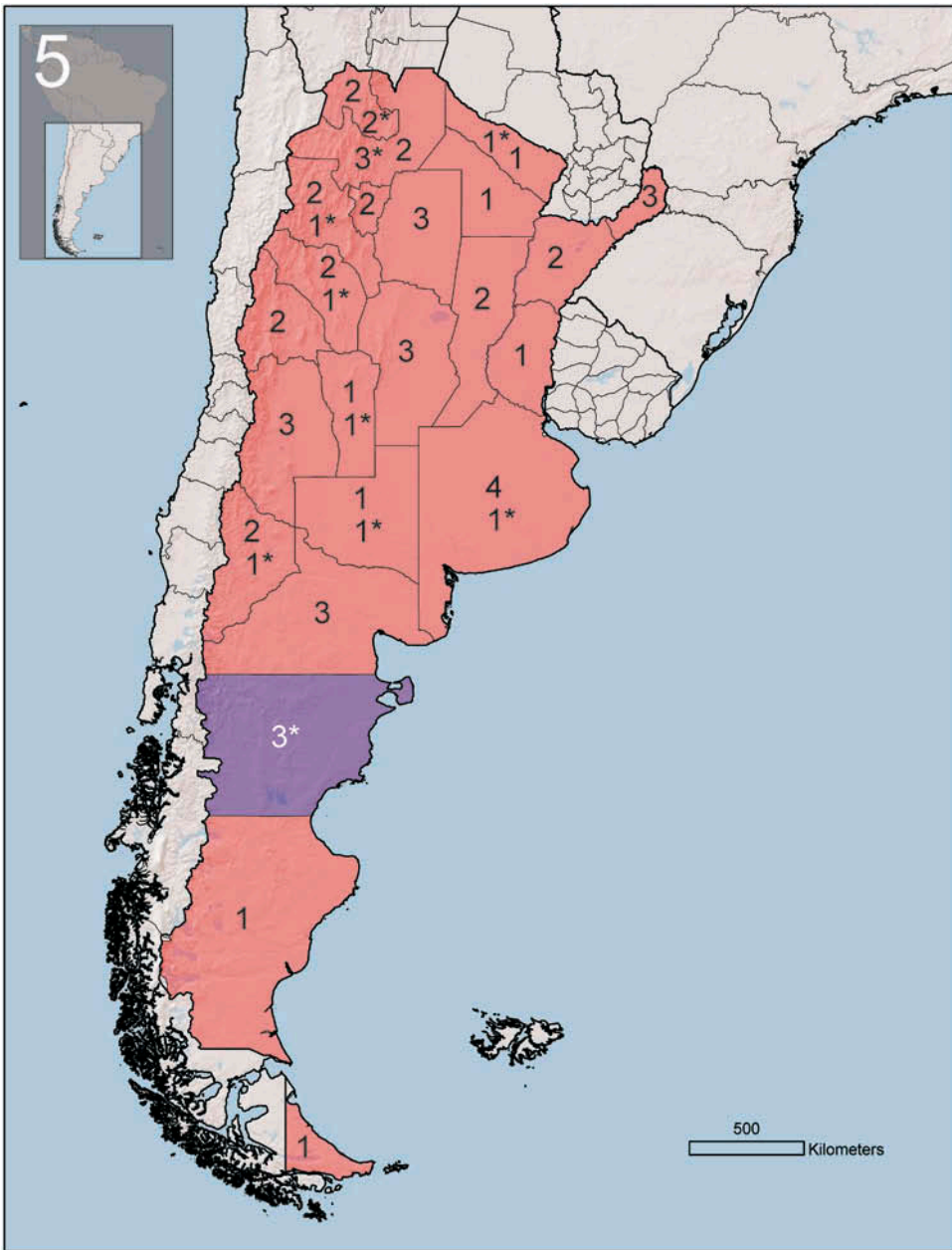


Figure 5. Distribution of *Harmostes* (*Neoharmostes*) Göllner-Scheiding species in Argentina. Pale colour: known distributions; dark colour: new distributions. The number of known species for each province is provided, with an asterisk indicating number of newly recorded species.

Subgenus *Harmostes* Burmeister, 1835
 Isid:Coreoidea.speciesfile.org:TaxonName:452610
 (Figure 4)

Harmostes bilobatus Melo and Montemayor, 2011
 Isid:Coreoidea.speciesfile.org:TaxonName:464557

Harmostes bilobatus Melo and Montemayor 2011: 132 (**Salta**); CoreoideaSF Team 2014 (Salta).

Material examined

ARGENTINA: Holotype ♂, Argentina, **Salta**, 7115 (MACN); paratype ♂, same data as holotype (MACN); **Santiago del Estero:** 3♀, west, 28-II-[19]92, L.E. Peña col. (USNM).

Argentinean distribution

Salta and Santiago del Estero*.

Central and South American distribution

Argentina (Melo and Montemayor 2011).

Harmostes brevispinus Blöte, 1934

Isid:Coreoidea.speciesfile.org:TaxonName:452627

Harmostes brevispinus Blöte 1934: 253–254 (Bolivia).

Harmostes brevispinus: Göllner-Scheiding 1978a: 272 (Argentina); Göllner-Scheiding 1983: 125 (Argentina); Pall and Coscarón 2012: 1449 (Argentina).

Material examined

ARGENTINA: 1♂ 3♀, Argentina, H.L. Parker col. (USNM); **Córdoba:** 1♂, 15 NW Alta Gracia, 835 m, 31°35.417' S, 64°30.221' W, 24-II-2006, D. Rider col. (USNM); **La Rioja:** 1♂1♀, San Blas, 12-XI-1991, L.E. Peña leg. (USNM); **Salta:** 1♀, C. Olleros, II-[1]958, P. Dor col., Daguerre coll. (USNM); 1♂ 2♀, Metan, IV-[1]957, P. Dor col., Daguerre coll. (USNM); **San Juan:** 4♀, Jachal, 2-XI-1991, L.E. Peña leg. (USNM). **BOLIVIA:** 1♂, Yungas, la Pza, Coroico, L.E. Peña col. (USNM); 1♀, La Paz, X-1936, L.E. Peña col. (USNM).

Argentinean distribution

Córdoba*, La Rioja*, Salta* and San Juan*.

Central and South American distribution

Argentina and Bolivia (Göllner-Scheiding 1978a; Göllner-Scheiding 1983).

Harmostes dorsalis Burmeister, 1835

Isid:Coreoidea.speciesfile.org:TaxonName:452651

Harmostes dorsalis Burmeister 1835: 307 (Mexico).

Harmostes dorsalis: Göllner-Scheiding 1978a: 275 (Argentina); Göllner-Scheiding 1983: 126 (Argentina); Henry 1988: 654 (Mexico to Argentina and Peru); Pall and Coscarón 2012: 1450 (Argentina).

Central and South American distribution

Argentina, Canada (British Columbia), Guatemala, Mexico, USA (California) and Peru (Göllner-Scheiding 1978a).

Harmostes gravidator (Fabricius, 1794)

Isid:Coreoidea.speciesfile.org:TaxonName:452620

Coreus gravidator Fabricius 1794: 133 (America Meridionalis Insulis).

Harmostes gravidator: Göllner-Scheiding 1978a: 281 (Argentina); Göllner-Scheiding 1983: 127 (Argentina); Pall and Coscarón 2012: 1450 (**Buenos Aires, Corrientes, Misiones**: Loreto, Iguazú, Caraguay [sic]).

Material examined

ARGENTINA: Misiones: 1♀, 23/24-XI-1941, B.L. Parker col. Drake coll. (USNM); 1♀, Parque Prov. Cruce Caballero, 26°31.189'S, 53°59.196'W 621 msnm, (metros sobre nivel del mar/ metres above sea level) 6-III-2010, P. Dellapé col.; 2♂ 2♀, Iguazú, XI-1944, Birabén col. (MLP); 7♂ 1♀, same locality, XI-[19]87 (USNM); 1♂ 2♀, Dos de Mayo, XII-1989 (USNM); 1♀, same locality, XI-[19]89 (USNM); 4♂ 1♀, Apartado, XI-[19]80 (USNM); 1♀, Caraguatay, I-1960, Ronderos- Trotta cols. (MLP); 1♀, Loreto, XII-1947, A.R. Bezzi col. (MLP); 1♀, Puesta, 10-VI-1029, O. Zahler col. (USNM); 1♂, Mesa Redonda, 27°9'18.5" S, 57°58'54.5" W, 365 m, 2-IV-2012, S. Montemayor col. (MLP). **BRAZIL**: Santa Catarina, Nova Teutonia, 22-XII-1952, F. Plaumann col., J.C. Lutz coll. (USNM); 3♂ 1♀, Santa Catarina, Nova Teutonia, 22-XII-1952, F. Plaumann col. J.C. Lutz coll. (USNM); 1♀, DF, 32 km N Brasília, near Planaltina, 15°35'S, 47°42'W, 1000 m, 17-XI-1997, T.J. Henry col. (USNM); 1♀, Minas Gerais, Cardeal Mota at Cipo River, 19°20' S, 43°38' W, MG road 10, 5/6-XI-1997, T.J. Henry and A. Paula cols. (USNM). **PARAGUAY**: Paraguari, Ybycui, 25 km SE, in Ybycui National Park, 12/24-IV-1980, P.J. Spangler et al. col. (USNM).

Argentinean distribution

Misiones.

Central and South American distribution

Argentina, Bolivia, Brazil, Colombia, México, Peru, Venezuela (Göllner-Scheiding 1978a, 1983); Paraguay* NEW COUNTRY RECORD.

Comments

Pall and Coscarón (2012) mentioned Buenos Aires and Corrientes, but they did not give a bibliographical reference or a list of material from these provinces. They did not mention Mexico in the distribution of the species, and they misspelled a locality in Misiones province as 'Caraguay' instead of 'Caraguatay'.

Harmostes parafraterculus Göllner-Scheiding, 1978a

Isid:Coreoidea.speciesfile.org:TaxonName:452617

Harmostes parafraterculus: Göllner-Scheiding 1978a: 311 (Argentina); Göllner-Scheiding 1979: 74 (**Tucumán**: Ladasma [sic], which should be Ledesma); Göllner-Scheiding 1983: 128 (Argentina); Pall and Coscarón 2012: 1451 (Argentina).

Material examined

ARGENTINA: Salta: 1♂ 1♀, San Lorenzo, 11-I-[19]50, P. Wygodzinsky col. (USNM).

Argentinean distribution

Salta* and Tucumán.

Central and South American distribution

Argentina and Brazil (Göllner-Scheiding 1978a, 1979, 1983).

Harmostes prolixus Stål, 1860

Isid:Coreoidea.speciesfile.org:TaxonName:464553

Harmostes prolixus Stål 1860: 37 (Brazil); Berg 1878: 184 (**Corrientes**); Pennington 1920: 16 (litoral); Pennington 1922: 165 (**Corrientes; Entre Ríos**: Puerto Yeruá); Jensen-Haarup 1924: 327 (Argentina); Harris 1942: 27 (**Corrientes; Córdoba**: San Javier, La Paz); Harris 1944: 196 (Argentina); Viana and Williner 1972: 27 (**Córdoba**: Carlos Paz); Göllner-Scheiding 1978a: 285 (Argentina); Viana and Williner 1978: 75 (**Córdoba**: Carlos Paz, San Javier; **Corrientes**); Quintanilla et al. 1981: 150 (**Misiones**: Eldorado, Iguazú, Montecarlo); Göllner-Scheiding 1983: 128 (Argentina); Di Iorio 2004: 246 (**Misiones, Santiago del Estero, Tucumán**); Melo et al. 2011: 16 (**Buenos Aires; Catamarca; Chaco**: P.N. Chaco; **Córdoba; Corrientes; La Rioja; Misiones; Salta; Santa Fe; Santiago del Estero; Tucumán**); Pall and Coscarón 2012: 1453 (**Buenos Aires**: Tornquist, Jose C. Paz, Sierras de Tandil; **Catamarca**: Andalgalá [sic]; **Córdoba**: Carlos Paz, La Granja, La Cabaña, La Puerta; **Corrientes; Entre Ríos**: Gualaguay; **Jujuy**: Ledesma, Yala, Santa Catalina, Uquía; **La Pampa**: Catrilo; **La Rioja**: Sañagosta [sic]; **Misiones**: El Dorado, Iguazú, Montecarlo, Apóstoles; **Neuquén; Río Negro**: Río Colorado; **Salta**: Juramento, Mojón; **San Juan**); Dellapé and Carpintero 2012: 133 (**Buenos Aires**: Tandil, Parque Independencia, Sierras Albión); Pall et al. 2013: 383 (**La Pampa**: Metileo; Lihue Calel; Parque Luro; Gral Pico; Catrilo).

Material examined

ARGENTINA: Buenos Aires: 1♂, Ensenada, 20/28-II-1990, L.A. Pereira col. (USNM); 1♂, Saavedra, IX-1936 (MLP); 1♂, La Plata, A.R. Bezzi col. (MLP); 1♀, Junín, s/camino, 12-II-1959, Torres-Dadone cols. (MLP); 1♀, José C. Paz, XII-1944, Uvagli leg. (MLP); 1♀, Sierras de Tandil, J. Llano leg. (MLP); 1♀, San Isidro, II-[1]944, J.B. Daguerre col., Daguerre coll. (USNM); **Catamarca:** 3♂, 5 km N Los Altos, 498 m, 28°0.354' S, 65°33.921' W, 27-II-2006, D. Rider col. (USNM); 5♂ 5♀, 78 km N Jct. 60 and 157, 288 m, 28°50.284' S, 65°6.009' W, 27-II-2006, D. Rider col. (USNM); 1♂ 1♀, Andalgalá, II-[1]946, Daguerre col., Daguerre coll. (USNM); 1♂ 1♀, Pta. Balasto, 25-II-[19]92, L.E. Peña leg. (USNM); **Chaco:** 2♀, Lag. La Azula, 26°44'5,5" S, 59°26'14,7" W, 26-IX-2009, P. Dellapé col. (MLP); 1♂, Resistencia, 14-II-1936, Denier col. (MLP); **Córdoba:** 2♂ 2♀, Haras

General Paz, Ordoñez, 10-XI-1945, Bruzzone col. (MLP); 1 ♀, La Puerta, 23-I-1940, Birabén col. (MLP); 1 ♀, Villa Allende, 6-VI-1952, Argemí col. (MLP); 1 ♂, Cabana, II-1939, Birabén- Scott cols. (MLP); 1 ♂, Alta Gracia, La Granja, I-1938, C. Bruch col. (MLP); 3 ♀, Alta Gracia, III-[1]959, Daguerre col., Daguerre coll. (USNM); 1 ♀, Villa Dolores, 16-II-1940, Birabén col. (MLP); 1 ♂, Cabana, 10-II-1942, Birabén col. (MLP); 1 ♂, La Granja, Alta Gracia, C. Bruch, I-1938 (MLP); 1 ♀, Los Reartes, 12-I-1937 (MLP); 1 ♂, Biale Massé, 14-I-1952, Morinigo col. (MLP); 1 ♂, San Javier, La Paz, 1/20-I-1929, C. Bruch col. (USNM); 1 ♂ 1 ♀, 2 km S Villa Gen. Belgrano, 695 m, 32°0.306' S, 64°33.601' W, 23-II-2006, D. Rider col. (USNM); 4 ♂ 1 ♀, Capilla del Monte, MV and bikit, 919 m, 30°50.975' S, 64°31.838' W, 6-III-2006, D. Rider col. (USNM); 1 ♂, Rt. prov. 34, nr El Condor, 1294 m, 31°35.495' S, 64°40.473' W, 24-II-2006, D. Rider col. (USNM); 3 ♂ 1 ♀, 30 km S Mina Clavero, 900 m, 31°53.017' S, 65°1.277' W, 25-II-2006, D. Rider col. (USNM); **Corrientes**: 4 ♀, Santa Lucia, 14-XI-1947, Birabén col. (MLP); **Jujuy**: 1 ♂, Uquía, 1-II-1958, Torres- Ferreyra cols. (MLP); 1 ♀, Pampa Blanca, 13-III-1939, Birabén- Scott leg. (MLP); **La Pampa**: 3 ♀, C. Castex, 10-XI-[1]944, Daguerre col., Daguerre coll. (USNM); **La Rioja**: 4 ♂ 1 ♀, Olta, 5-II-[19]92, L.E. Peña col. (USNM); 6 ♂ 3 ♀, Villa Unión, II-1993, L.E. Peña leg. (USNM); 1 ♂, same locality, 1-XII-1983, L.E. Peña col. (USNM); **Mendoza**: 1 ♂ 4 ♀, San Rafael, 12-XI-[1]944, Daguerre col., Daguerre coll. (USNM); **Misiones**: 1 ♂ 1 ♀, 17-X-[19]51, J.C. Lutz coll. (USNM); 1 ♂ 1 ♀, Apartado, XI-[19]80 (USNM); **Salta**: 1 ♀, El Pucara Empalme, 8 km SW Cerrillos, 1315 m, 7-I-1974, F.A. Enders col. (USNM); 1 ♀, Olleros, II-[1]958, Daguerre col., Daguerre coll. (USNM); 1 ♀, Metan, V-[1]945, Daguerre col., Daguerre coll. (USNM); 2 ♂ 1 ♀, same locality, IV-[1]957, P. Dor col., Daguerre coll. (USNM); 1 ♂ 3 ♀, El Aybal, X-[1]958, Daguerre col., Daguerre coll. (USNM); **San Luis**: 1 ♂, Nogolí, 21-II-1940, Birabén col. (MLP); **Santa Fe**: 1 ♀, General Obligado, Lanteri, 10-I-1946, R. Maldonado Bruzzone cols. (MLP); **Santiago del Estero**: 1 ♀, Hernández, V-1958 (MLP); 2 ♂, Santiago del Estero, 24-IX-1944, R.N. Bruzzone (MLP); 7 ♂ 7 ♀, Girardet, 9-XII-1939, Birabén-Bezzi cols. (MLP); 1 ♀, Telares, 3-III-[19]92, L.E. Peña col. (USNM); **Tucumán**: 1 ♀, Siambón, 7-IX-1933 (MLP); 1 ♂, Tucumán, 26-II-[19]48, P. A. Berry col., 1402 (USNM); 1 ♀, Puesta, 21-VI-1929, O. Zahler col. (USNM). **BOLIVIA**: 1 ♀, Cochabamba, 2 mi W Cochabamba Exp. Station, 29-III-1976, C.R. Ward col. (USNM). **BRAZIL**: 1 ♂, Rio Grande do Sul, Quinta, 1-XI-1919, E.G. Hols col. (USNM); 1 ♂ 1 ♀, Sao Paulo, Maua, 20-X-1961, N.L.H. Krauss col. (USNM). **PARAGUAY**: 2 ♂, Aregua, 20 mi E Asuncion, 6-IX-1980, D.C. Lowrie col. (USNM); 1 ♂ 2 ♀, Paraguari, Ybycui (25 km SE), in Ybycui National Park, 12/24-IV-1980, P.J. Spangler et al. col. (USNM).

Argentinean distribution

Buenos Aires, Catamarca, Chaco, Córdoba, Corrientes, Entre Ríos, Jujuy, La Pampa, La Rioja, Mendoza*, Misiones, Salta, San Luis*, Santa Fe, Santiago del Estero and Tucumán.

Central and South American distribution

Argentina, Bolivia, Brazil, Paraguay, Peru and Uruguay (Göllner-Scheiding 1978a, 1983).

Comments

Pall and Coscarón (2012) mentioned Catamarca and Corrientes as new records, although both provinces have been previously mentioned (Melo et al. 2011; Berg 1878, respectively). Other new records they provided are Neuquén, Río Negro and San Juan, but there is no material from these provinces in the collection they examined (MLP) or in any of the collections studied. They mentioned *H. prolixus* as distributed in Mexico, but it has never been recorded from that country.

Harmostes rubrum Melo and Montemayor, 2011
 Isid:Coreoidea.speciesfile.org:TaxonName:464560

Harmostes rubrum Melo and Montemayor 2011: 132–133 (**Salta**); CoreoideaSF Team 2014 (**Salta**: San Lorenzo).

Material examined

ARGENTINA: Holotype ♀, Argentina, **Salta**, San Lorenzo 17–11-[19]29, 82, *H. procerus* P. Denier det. (MLP).

Argentinean distribution

Salta.

Central and South American distribution

Argentina (Melo and Montemayor 2011).

Harmostes serratus (Fabricius, 1775)

Isid:Coreoidea.speciesfile.org:TaxonName:452631

Acanthia serrata Fabricius 1775: 695 (Unknown).

Harmostes serratus: Berg 1878: 183 (**Buenos Aires, Corrientes**); Distant 1881: 166 (Argentina); Lethierry and Severin 1894: 115 (**Buenos Aires**); Pennington 1920: 16 (litoral, centro, norte, andina); Pennington 1922: 164 (**Buenos Aires, Córdoba, La Rioja, Misiones, Tucumán**); Jensen-Haarup 1924: 327 (Argentina); Quintanilla et al. 1975/1976: 120 (**Corrientes**: Paso de los Libres, San Cosme, Santo Tomé); Göllner-Scheiding 1978a: 289 (Argentina); Quintanilla et al. 1981: 149 (**Misiones**: Belgrano, Cainguás); Di Iorio 2004: 246 (**Misiones, Santiago del Estero, Tucumán**); Melo et al. 2011: 16 (**Chaco**: P.N. Chaco; **Córdoba; Corrientes; Formosa; Jujuy; Misiones; Salta; San Juan; Santa Fe; Santiago del Estero**); Pall and Coscarón 2012: 1454 (**Buenos Aires; Corrientes**: Paso de los Libres, San Cosme, Santo Romé [sic], Mburucuyá; **Catamarca; Chaco**: La Escondida; **Córdoba; Corrientes; Entre Ríos; Jujuy; La Pampa; La Rioja; Misiones**: Pindapoy, Belgrano, Cainguás; **Salta**: Santa Laura; **Santiago del Estero**: La Aurora; **Santa Fe**: Reconquista); Dellapé and Carpintero 2012: 133 (**Buenos Aires**: Tandil).

Harmostes affinis Dallas (syn. by Göllner-Scheiding 1978a): Harris 1942: 28 (**Argentina**).

Material examined

ARGENTINA: **Chaco**: 2♂, Lag. La Azula, 26°44'5.5" S, 59°26'14.7" W, 26-IX-2009, P. Dellapé col. (MLP); 2♂, La Escondida, 28-X-1936, ex coll. Denier (MLP); 1♂, Puerto Vilela, 22-XII-1937 (MLP); 1♀, Resistencia, 2-XII-1939, Birabén-Bezzi cols. (MLP); 1♂ 1♀, Resistencia, XI-1935 (MLP); **Corrientes**: 1♂, San Roque, II-1920, Bosq col. (MACN); 3♂ 4♀, Mburucuyá, 15/23-XI-1952, Birabén col. (MLP); 1♂ 1♀, San Roque, II-1920, Bosq col. (MLP); 1♀, Corrientes capital, VII-1934 (MLP); **Formosa**: 1♂, Clorinda, III-1940, ex coll. Denier (MLP); 4♂ 2♀, Terr. Formosa, Gran Guardia, J. Foerster col. J.C. Lutz coll. (USNM); 2♀, same locality, 7-XI-1952, J. Foerster col. J.C. Lutz coll. (USNM); 1♂, same data, 10-XI-1952 (USNM); **Jujuy**: 1♂, Jujuy (MACN); **Misiones**: 1♀, Apartado, XI-[19]80 (USNM); 1♀, 23/24-XI-1941, H.L. Parker col., Drake coll. 1956 (USNM); 1♂, Pto.

Misiones, XI-[19]87 (USNM); 1♂, 24-III-1897, S. Venturi col. (MACN); 1♂, 25-III-1897 (MACN); 1♂, Pto. Aguirre (MACN); 1♂, 18-X-[19]51, J.C. Lutz coll. (USNM); 1♂, Posadas, V-1961, N.L.H. Krauss col. (USNM); 1♂1♀, Parque Prov. Uruguayí, 25°51,464' S, 54°10,139' W, 276 msnm, 7-III-2012, P. Dellapé col. (MLP); 1♂, same data, 30-IX-2010, P. Dellapé col. (MLP); 2♂, Parque Prov. Puerto Península, 25°44.142' S, 54°32.124' W, 271 msnm, 8-III-2010 (MLP); 1♀ 1w/ abdomen, Iguazú, XI-1944, Birabén leg. (MLP); 1♀, Eldorado, 5-XI-1944, Birabén col. (MLP); 1♂ 12♀, (Chaco??), Puerto Tirol, 10-IV-1936 (MLP); 1♀, Pindapoy, 14-XII-1941, Birabén-Bezzi cols. (MLP); **Salta**: 1♂, (MACN); 1♂, La Merced, 17-I-[19]51, P. Wygodzinsky col. (USNM); 1♂, Argentina, H.L. Parker col. (USNM); 4♂, 3♀, Metán, IV-[1]957, P. Dor col., Daguerre coll. (USNM); **Santa Fe**: 1♀, Reconquista, 26-XI-1939, Birabén-Bezzi cols. (MLP); **Santiago del Estero**: 1♂, La Aurora, 11-IV-1945, R. Maldonado-Bruzzzone cols. (MLP). **BRAZIL**: 1♀, Parana, Foz do Iguacu, 19-VII-1961, Krauss col. (USNM); 2♂, Minas Gerais, 4 km SW Cardeal Mota and Cipo River, MG Rd 10, 19°23' S, 43°41' W, 6-XI-1997, T. Henry and A. Paula cols. (USNM); 1♀, Sao Paulo, Santos, VI-1961, N.L.H. Krauss col. (USNM); 1♂ 1♀, DF, Brasilia, Univ. Federal Brasilia, 16-XI-1997, T.J. Henry col. (USNM); 1♀, Brasilia, VII-1961, Krauss col. (USNM). **PARAGUAY**: 3♂ 1♀, Paraguari, Ybycui (25 km SE), Ybycui National Park, 12/24-IV-1980, P.J. Spangler et al. cols. (USNM); 1♀, Aregua, 20 mi E Asunción, 20-V-1980, D.C. Lowrie col. (USNM); 1♀, same data, 16-VIII-1980 (USNM); 1♂, same data, 6-IX-1980 (USNM); 2♂ 1♀, same locality, Cerro Patino, 13-IX-1980 (USNM); 1♂ 2♀, IAN, Caacupé, 16-IX-1980, D.C. Lowrie col. (USNM).

Argentinean distribution

Buenos Aires, Chaco, Córdoba, Corrientes, Formosa, Jujuy, La Rioja, Misiones, Salta, San Juan, Santa Fe, Santiago del Estero and Tucumán.

Central and South American distribution

Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Peru, Venezuela, West Indies and United States (Florida and Texas) (Göllner-Scheiding 1978a).

Comments

Pall and Coscarón (2012) mentioned as new records Chaco and Jujuy provinces, although both had been recorded previously (Melo et al. 2011). They also listed Catamarca, Entre Ríos and La Pampa, which have never been mentioned in the literature, and there are no specimens from these locations in the collection they examined or in the other collections we examined.

***Harmostes signoreti* Reed, 1899**

Isid:Coreoidea.speciesfile.org:TaxonName:452613

Harmostes signoreti Reed 1899: 43 (Chile); Göllner-Scheiding 1978a: 291 (Argentina (southern 40° S); Göllner-Scheiding 1983: 131 (Argentina); Pall and Coscarón 2012: 1454 (Argentina and Chile).

Central and South American distribution

Argentina and Chile (Göllner-Scheiding 1978a; Göllner-Scheiding 1983).

***Harmostes splendens* Harris, 1944 NEW COUNTRY RECORD**

Isid:Coreoidea.speciesfile.org:TaxonName:452611

Harmostes splendens Harris 1944: 191 (Bolivia, Brazil).*Material examined***ARGENTINA: Salta:** 1♀, San Lorenzo, 17-I-[19]51, P. Wygodzinsky col. (USNM). **BRAZIL:** 1♂, DF, 32 km N Brasília, nr. Planaltina, 15°35'S, 47°42'W, 1000 m, 17-XI-1997, T.J. Henry col. (USNM). **PARAGUAY:** 1♂, Horqueta, 45 mi E Paraguay Riv., 23-V-1933, A. Schulze col. J.C. Lutz coll. (USNM).*Argentinean distribution*

Salta*.

Central and South American distribution

Bolivia, Brazil and Paraguay (Göllner-Scheiding 1983); Argentina*.

Subgenus ***Neoharmostes*** Göllner-Scheiding, 1978a

Isid:Coreoidea.speciesfile.org:TaxonName:452585

(Figure 5)

Type species

Harmostes procerus Berg, 1878***Harmostes apicatus* Stål, 1859**

Isid:Coreoidea.speciesfile.org:TaxonName:452608

Harmostes apicatus Stål 1859: 238 (**Buenos Aires**); Berg 1878: 184 (**Buenos Aires, Corrientes**); Lethierry and Severin 1894: 114 (**Buenos Aires**); Pennington 1920: 16 (Litoral, Centro, Norte, Andina); Pennington 1922: 165 (**Buenos Aires, Corrientes, La Rioja**); Jensen-Haarup 1924: 330 (Argentina); Harris 1942: 28 (**Buenos Aires: Tigre; Corrientes**); Harris 1944: 195 (Argentina); Viana and Williner 1972: 27 (**Córdoba: Río San José, Carlos Paz**); Göllner-Scheiding 1978a: 294 (**Buenos Aires**); Quintanilla et al. 1981: 149 (**Misiones: Belgrano, Eldorado, Montecarlo**); Göllner-Scheiding 1983: 131 (**Buenos Aires**); Di Iorio 2004: 245 (**Misiones**); Pall and Coscarón 2012: 1449 (**Buenos Aires; Catamarca; Córdoba: Carlos Paz, Río San José; Corrientes; Entre Ríos; La Pampa; La Rioja; Mendoza; Misiones: El Dorado, Montecarlo, Belgrano; San Luis; San Juan: Villa Aberastein [sic]; Santa Fé: Guadalupe, Reconquista; Santiago del Estero; Tucumán**).*Material examined***ARGENTINA: Buenos Aires:** 1♀, José C. Paz, XI/XII-1948, Bezzi col. (MLP); 1♂, José C. Paz, 1940, J.A. Rosas Costa col. (MLP); 1♀, Ciudad de Buenos Aires, 28-XII-1918 (MLP); 1♂, Buenos Aires, XII-1919, A. Pecorino col. (USNM); **Córdoba:** 1♀, Nono, 15-II-1940, Birabén-Bezzi cols. (MLP); **Corrientes:** 1♀, Manantiales, 1/10-III-1959, Birabén col. (MLP); 1♂ 3♀, Colonia C. Pellegrini, Res. Iberá, 5-XII-2001, Melo, M.C. col. (MLP); **Formosa:** 1♂, Terr. Formosa, Gran Guardia, 7-XI-1952, J. Foerster col., J.C. Lutz coll. (USNM); 1♂, same data, 10-XI-1052

(USNM); **La Rioja:** 1♂, Nido de Famatina, Trapiche Durazno, 1600–1800 m, 1/4-I-1031 (MACN); **Misiones:** 1♀, Parque Prov. Urugua-í, 25°51.464' S, 54°10.189' W, 276 msnm, 29-IX-2010, Montemayor col. (MLP); 2♀, NW Apóstoles, 27°52.686' S, 55° 39.183' W, 135 msnm, 5-III-2010, Dellapé col. (MLP); 1♂, Ruta Prov. 2, 27°12.22' S, 54°1.375' W, 326 msnm, 5-III-2010, Dellapé col. (MLP); 1♀, Oberá, 30-XII-1957, Birabén col. (MLP); 1♂, San Ignacio, 8-XII-1941, Birabén-Bezzi cols. (MLP); 3♂ 4♀, Mesa Redonda, 27°9'18.5" S, 57°58'54.5" W, 365 m, 2-IV-2012, S. Montemayor col. (MLP); 1♂, Obeia Negra, nr. Mocona, 2-IV-2012, S. Montemayor col. (MLP); **San Juan:** 2♂, Dpto. Pocito, Villa Aberastain, 23-I-64, Torres- Ferreyra cols. (MLP); **Salta:** 2♂ (MACN); 1♂, 1♀, C. Olleros, II-[19]58, P. Dor col., Daguerre coll. (USNM); 6♀, San Lorenzo, 11-I-[19]51, P. Wygodzinsky col. (USNM); **Santa Fe:** 1♂, 8 km from city on highway, 7-IV-1975, sweeping Malvaceae (USNM); 1♀, Rosario, 28-IX-1944, B.A. Torres col. (MLP); 1♀, General Obligado, Lanteri, 10-I-1946, R. Maldonado-Bruzzzone col. (MLP); 1♀, El Rabón, 27-XI-1939, Birabén-Bezzi cols. (MLP); 1♂, Reconquista, 26-XI-1939, Birabén-Bezzi cols. (MLP); 1♂, Guadalupe, 27-XI-1939, Birabén-Bezzi cols. (MLP); 1♂ 1♀, Silva, 22-XI-1939, Birabén-Bezzi cols. (MLP); **Santiago del Estero:** 1♂, Puna, 11-XII-1939, Birabén-Bezzi cols. (MLP); 1♀, Telares, 3-III-[19]92, L.E. Peña col. (USNM); 1♀, Saladillo, *S. bonariensis*, 10-XI-[19]82, ERB-Frids col. (USNM). **BRAZIL:** 9♂ 2♀, DF, Brasilia, VIII-1961, Krauss col. (USNM); 1♀, Nova Teutonia, 27°11' S, 52°23' W, 300–500 m, 23-VII-1956, F. Plaumann col., J.C. Lutz coll. (USNM); 1♀, Par., Curitiba, III-[19]54, N.L.H. Krauss col. (USNM). **PARAGUAY:** 1♂, Puerto Pinasco, 80 km W Kilometro, 27-IX-[19]20, A. Wetmore col. (USNM). **URUGUAY:** 1♂, Sweeping from Montevideo to Salto, 6/14-III-1940, H.L. Parker col. (USNM).

Argentinean distribution

Buenos Aires, Córdoba, Corrientes, Formosa*, La Rioja, Misiones, Salta*, San Juan, Santa Fe and Santiago del Estero.

Central and South American distribution

Argentina, Bolivia, Brazil, Chile, Mexico and Paraguay (Göllner-Scheiding 1978a); same data adding Uruguay (Göllner-Scheiding 1983).

Comments

Pall and Coscarón (2012) listed this species from Catamarca, Entre Ríos, La Pampa, Mendoza and Tucumán provinces, but they did not give a bibliographical record or a list of material examined from these provinces. They also mentioned new records from Buenos Aires and Entre Ríos, but neither of them is new, as Buenos Aires had been already recorded by many authors, as demonstrated above, and there is no corresponding specimen in the collection they studied or the remaining collections we examined from Entre Ríos.

***Harmostes bergi* Göllner-Scheiding, 1998 NEW COUNTRY RECORD**

lsid:Coreoidea.speciesfile.org:TaxonName:452607

Harmostes bergi Göllner-Scheiding 1998: 176–177 (Bolivia).

Material examined

ARGENTINA: Jujuy: 1♂ 1♀, Mrl. Aguilar, 23-II-1983, L.E. Peña col. (USNM).

Argentinean distribution

Jujuy*.

Central and South American distribution

Bolivia (Göllner-Scheiding 1998); Argentina*.

Harmostes corazonus Distant, 1893

Isid:Coreoidea.speciesfile.org:TaxonName:452601

Harmostes corazonus Distant 1893: 85 (Ecuador); Göllner-Scheiding 1978a: 296 (**Buenos Aires**: Luján); Göllner-Scheiding 1983: 132 (Argentina); Pall and Coscarón 2012: 1450 (**Buenos Aires**: Luján).

Harmostes gemellus Harris 1942: 32 (**Buenos Aires**) (syn. by Göllner-Scheiding 1978a); Harris 1944: 196 (Argentina); Göllner-Scheiding 1983: 132 (**Buenos Aires**: Luján); Pall and Coscarón 2012: 1450 (**Buenos Aires**: Luján).

Material examined

ARGENTINA: Jujuy: 2♀, Rt. 9, Volcán, 5-II-1990, sweeping *Baccharis salicifolia*, P.E. Boldt col. (USNM); 2♂, Rt. 9, 5 mi S Volcán, 6-II-1990, sweeping *Baccharis medulosa*, P.E. Boldt col. (USNM); **Salta**: 1♂, San Lorenzo, 11-I-[19]51, P. Wygodzinsky col. (USNM); 1♀, La Merced, 17-I-[19]51, P. Wygodzinsky col. (USNM); 2♂ 2♀, Alemania, 22-II-[19]92, L.E. Peña G. col. (USNM).

Argentinean distribution

Buenos Aires, Jujuy* and Salta*.

Central and South American distribution

Argentina, Chile, Ecuador and Peru (Göllner-Scheiding 1978a, 1983).

Harmostes corizoides Jensen-Haarup, 1924

Isid:Coreoidea.speciesfile.org:TaxonName:452599

Harmostes corizoides Jensen-Haarup 1924: 328 (**Misiones**); Harris 1944: 195 (Argentina); Göllner-Scheiding 1978a: 298 (**Misiones; Mendoza; Río Negro; [Salta]**: Cafayate); Göllner-Scheiding 1982: 462 (**Santiago del Estero**); Göllner-Scheiding 1983: 132 (**Misiones**); Pall and Coscarón 2012: 1450 (**Misiones; Mendoza; Río Negro; Salta**: Cafayate).

Material examined

ARGENTINA: La Rioja: 1♀, Guayapa, Patquia, 20-II-[19]63, L. Yivoff col. (MACN); **Mendoza**: 1♂, (S) Ea. El Leoncito, N Uspallata, 2000 m, 4-XII-[19]83, L.E. Peña G. col. (USNM); 3♂, El Sosneado, 7-XII-1983, L.E. Peña G. col. (USNM); 4♂ 3♀, N San Rafael, 6-XII-1983, L.E. Peña G. col. (USNM); **Salta**: 1♀, Calchaquí R., Rte. 40 nr. Payogastilla, 25°41.965' S, 66°1.862' W, 1780 m, 3-III-2006, D. Rider col. (USNM).

Argentinean distribution

La Rioja*, Mendoza, Misiones, Río Negro, Salta and Santiago del Estero.

Central and South American distribution

Argentina and Uruguay (Göllner-Scheiding 1978a; 1983).

Comments

Pall and Coscarón (2012) overlooked Santiago del Estero province and Uruguay.

Harmostes imitabilis Harris, 1942

Isid:Coreoidea.speciesfile.org:TaxonName:452597

Harmostes imitabilis Harris 1942: 30 (Argentina: **Buenos Aires**: Luján); Harris 1944: 196 (Argentina); Göllner-Scheiding 1978a: 305–307 (**Buenos Aires**: Luján; **Catamarca**; **Mendoza**; **Neuquén**; [**Río Negro**]: Río Colorado); Göllner-Scheiding 1983: 133 (**Buenos Aires**: Luján); Di Iorio 2004: 246 (**Entre Ríos**); Pall and Coscarón 2012: 1451 (**Buenos Aires**: Luján; **Corrientes**; **Catamarca**; **Mendoza**; **Neuquén**; **Río Negro**: Río Colorado).

Material examined

ARGENTINA: Holotype ♂, **Buenos Aires**, Luján, 18-XII-1938, C.J. Drake col., *H. imitabilis* Harris (USNM); **Chubut**: 1♂ 1♀, W Trelew, 4-XI-1987, L.E. Peña G. col. (USNM); **Mendoza**: 3♂, (S) Ea. El Leoncito, N Uspallata, 2000 m, 4-XII-[19]83, L.E. Peña G. col. (USNM); 1♂, N San Rafael, 6-XII-1983, L.E. Peña G. col. (USNM).

Argentinean distribution

Buenos Aires, Catamarca, Chubut*, Mendoza, Neuquén and Río Negro.

Central and South American distribution

Argentina (Göllner-Scheiding 1978a, 1983).

Comments

Although Pall and Coscarón (2012) mentioned that they studied material from Río Negro (Río Colorado), no specimens from this locality were found. They also recorded this species from Corrientes, but there is no bibliographical record documenting this province.

Harmostes insitivus Harris, 1942

Isid:Coreoidea.speciesfile.org:TaxonName:452595

Harmostes insitivus Harris 1942: 31 (Chile); Göllner-Scheiding 1978a: 299 (Argentina); Göllner-Scheiding 1983: 133 (Argentina); Pall and Coscarón 2012: 1451 (**Jujuy**: Urquiza [sic]).

Material examined

ARGENTINA: **Jujuy**: 1♂, Uquía, 1-II-1958, Torres- Ferreyra cols. (MLP).

Argentinean distribution

Jujuy.

Central and South American distribution

Argentina and Chile (Göllner-Scheiding 1978a; 1983).

Comments

We checked the label of the material examined and found that the locality mentioned in Pall and Coscarón (2012) is misspelled as 'Urquiza' instead of 'Uquíá'.

Harmostes marmoratus (Blanchard, 1852) Isid:Coreoidea.speciesfile.org:TaxonName:452593

Merocoris marmoratus Blanchard 1852: 166–167 (Chile).

Harmostes marmoratus: Jensen-Haarup 1924: 330 (**Córdoba**); Göllner-Scheidig 1978a: 301 (Argentina); Göllner-Scheidig 1983: 133 (Argentina); Pall and Coscarón 2012: 1451 (Argentina).

Material examined

ARGENTINA: Chubut: 2 ♂ 3 ♀, Pico Salamanca, Comodoro [Rivadavia], 20-XI-[19]85, L.E. Peña G. col. (USNM); 1 ♂ 1 ♀, RN 40, 20 NW Esquel, -42.802607600–71.121041000, 866 m, 24-I-2014, Dellapé, P.M. col. (MLP); **Neuquén:** 1 ♂ 3 ♀, El Huecu S, 4-II-1991, L.E. Peña leg. (USNM).

Argentinean distribution

Córdoba, Chubut* and Neuquén*.

Central and South American distribution

Argentina, Bolivia, Chile and Peru (Göllner-Scheidig 1978a, 1983).

Comments

Pall and Coscarón (2012) overlooked Córdoba Province and Bolivia in the distribution of this species.

Harmostes minor (Spinola, 1852) Isid:Coreoidea.speciesfile.org:TaxonName:452590

Merocoris minor Spinola 1852: 165–166 (Chile).

Harmostes minor: Göllner-Scheidig 1978a: 302 (**Tucumán**); Göllner-Scheidig 1983: 133 (Argentina); Pall and Coscarón 2012: 1451 (**Tucumán**).

Material examined

ARGENTINA: La Pampa: 1 ♂ 1 ♀, N. Puelen, 4-XI-[19]87, L.E. Peña G. col. (USNM); **San Luis:** 2 ♂, San Luis S, 4-III-1983, L.E. Peña col. (USNM); 1 ♀, Choele- Choele, 10-XI-1990, L.E. Peña leg. (USNM).

Argentinean distribution

La Pampa*, San Luis* and Tucumán.

Central and South American distribution

Argentina and Chile (Göllner-Scheidig 1978a, 1983).

***Harmostes petulans* Harris, 1942**

Isid:Coreoidea.speciesfile.org:TaxonName:452588

Harmostes petulans Harris 1942: 31 (Bolivia, Peru, Argentina); Harris 1944: 196 (Argentina); Göllner-Scheiding 1978a: 302–304 (Argentina); Göllner-Scheiding 1983: 134 (Argentina); Pall and Coscarón 2012: 1452 (Argentina).

Material examined

ARGENTINA: Buenos Aires: 1♂, Zelaya, II-[1]944, J.B. Daguerre col., Daguerre coll. (USNM); **Catamarca:** 3♂ 1♀, 5 km N of Los Altos, 498 m, 28°0.354' S, 65°33.921' W, 27-II-2006, D.A. Rider col. (USNM); 1♂ 1♀, Belén, II-1993, L.E. Peña leg. (USNM); **Salta:** 3♂ 1♀, San Lorenzo, 11-I-[19]51, P. Wygodzinsky col. (USNM); 1♂ 1♀, La Merced, 17-I-[19]51, P. Wygodzinsky col. (USNM); 1♂, 1♀, Metán, IV-[1]957, P. Dor col., Daguerre coll. (USNM); 1♂ 1♀, Alemania, 22-II-[19]92, L.E. Peña G. col. (USNM). **BOLIVIA:** 1♂ 3♀, Beni, Rurrenabaque, W.M. Mann col., Mulford Biol. Expl. 1921–1922 (USNM); Santa Cruz, Florida, Vicoquin area above Achira, rd to Amboró, 18°7' S, 63°47' W, 16-XII-2008, 1730–2000 m, T. Henry, S. Lingafelter and D. Windsor cols.(USNM).

Argentinean distribution

Buenos Aires*, Catamarca* and Salta*.

Central and South American distribution

Argentina, Bolivia, and Peru (Göllner-Scheiding 1978a); same data plus Uruguay (Göllner-Scheiding 1983).

***Harmostes procerus* Berg, 1878**

Isid:Coreoidea.speciesfile.org:TaxonName:452586

Harmostes procerus Berg 1878: 185 (Argentina, from north to south, reaching Santa Cruz River in Patagonia); Berg 1881: 82 (**Buenos Aires:** Chacabuco; Salinas Chicas; Fuerte Ameghino (Tornquist)); Berg 1883: 252 (Argentina); Lethierry and Severin 1894: 114 (**Buenos Aires.** Patagonia); Berg 1895: 197 (**Tierra del Fuego:** Rio Santa Cruz, Filaret); Berg 1896: 132 (**Tierra del Fuego**); Torre-Bueno and Thorne 1915: 160 (Argentina); Pennington 1920: 16 (litoral, centro, norte); Pennington 1922: 165 (**Buenos Aires:** Tigre; Quilmes; Tandil; **La Rioja**); Jensen-Haarup 1924: 329 (Argentina); Harris 1942: 27 (Argentina); Harris 1944: 196 (Argentina); Quintanilla et al. 1967/1968: 31 (**Entre Ríos:** Gualeguay); Göllner-Scheiding 1978a: 304–305 (Patagonia); Göllner-Scheiding 1983: 134 (Patagonia); Coscarón 1998: 4 (**Buenos Aires:** Baradero; Chacabuco); Di Iorio 2004: 246 (**Entre Ríos**); Carpintero 2009: 302 (**Buenos Aires:** Reserva Provincial y Reserva de Biosfera Internacional Parque Costero del Sur); Melo et al. 2011: 16 (**Buenos Aires; Catamarca; Chaco:** P.N. Chaco; **Córdoba; Corrientes; Entre Ríos; Jujuy; La Pampa; La Rioja; Mendoza; Misiones; Neuquén; Río Negro; Salta; San Luis; San Juan; Santa Fe; Tierra del Fuego**); Carpintero and De Biase 2011: 42 (**Buenos Aires:** Isla Martin García); Dellapé and Carpintero 2012: 132 (**Buenos Aires:** Tandil); Cava et al. 2012: 1218 (**Buenos Aires:** Baradero; Chacabuco; Cerro Cura Malal; **Chaco; Corrientes; Entre**

Ríos: Gualeguay Department; **Formosa; Jujuy; La Pampa; Misiones; Salta:** Los Cardones National Park; **San Luis; Santa Cruz:** Río Santa Cruz; **Santa Fe; Santiago del Estero; Tierra del Fuego; Tucumán;** Pall and Coscarón 2012: 1452 (**Buenos Aires:** Baradero, Chacabuco; **Catamarca:** La Viña; **Córdoba:** La Granja, Nono; **Corrientes; Entre Ríos:** Gualeguay, Puerto Constanza; **Jujuy; La Pampa:** General Pico; **Misiones; Salta; San Luis; San Juan:** Villa Aberastein [sic]; **Santa Cruz; Santa Fe:** El Rabón; **Santiago del Estero; Tucumán).**

Material examined

Type material. **URUGUAY:** Lectotype without abdomen (♂ according to Harris, 1942), Banda Oriental, #1462 (MLP); Paralectotypes: 1♀, same data as lectotype (MLP). **ARGENTINA:** 1♀, (**Buenos Aires**) Baradero, F. Lynch (MLP); 1♂, **Buenos Aires**, Baradero, F. Lynch col. (USNM). *Other specimens:* **Buenos Aires:** 1♂, Ensenada, 20/28-II-1990, L.A. Pereira col. (USNM); 2♂, Rio Salado, Rt. 57, 15 km SW, M.J. Cobo, 29-XI-1979, C. M. and O.S. Flint Jr. cols. (USNM); 3♂ 3♀, Punta Indio, XII-[1]957, Daguerre col. (USNM); 1♂, Luján, 18-XII-1938, C.J. Drake col. (USNM); 1♂, Buenos Aires (USNM); 3♀, Rosas, F.C. Sud, J.B. Daguerre col. (USNM); 2♀, San Blas, III-1933, Daguerre col., Daguerre coll. (USNM); 1♂, 1♀, San Justo, XII-1933, B. Daguerre col. (USNM); 1♂, Martinetas, 31-XII-[19]38, C.J. Drake col. (USNM); 1♀, Luján, 18-XII-1938, C.J. Drake col. (USNM); 1♀, La Plata, J.C. Lutz coll. (USNM); 1♂, 14-XII-1899, S. Venturi col. (USNM); 1♀, Olivos, 31-I-1951, J. Foerster col., J.C. Lutz coll. (USNM); 1♀, Rt. San Miguel del Monte, 14-VII-1990, sweeping *Baccharis pringoea*, P.E. Boldt col. (USNM); 1♂, San Isidro, II-[1]944, J.B. Daguerre col., Daguerre coll. (USNM); 2♀, Delta, 9-XII-1945, Bachmann leg. (MACN); 1♀, Parque Provincial Tornquist, 30-I-1947, Bachmann-Rossi leg. (MACN); 1♀, Cnel. Suarez, Sierra de la Tunas, 18-I-1947, Bachmann-Rossi leg. (MACN); **Catamarca:** 1♂ 2♀, Pta. Balasto, 10-XI-1983, L.E. Peña leg. (USNM); **Chaco:** 1♂, Lag. La Azula, 26°44'5.5" S, 59°26'14.7" W, 26-IX-2009, P. Dellapé col. (MLP); **Chubut:** 3♂ 5♀, Esquel, 15-XII-1950, J.C. Lutz coll. (USNM); 1♂, Rawson, 16-II-[19]958, Daguerre col., Daguerre coll. (USNM); 1♀, Rt. 3, 26 mi N Pto. Madryn, 16-I-1990, sweeping *Baccharis salicifolia*, P.E. Boldt col. (USNM); 6♂ 4♀, RN 40, 20 NW Esquel, -42.802607600-71.121041000, 866 m, 24-I-2014, Dellapé, P.M. col. (MLP); **Córdoba:** 1♂, 4♀, Alta Gracia, III-[1]959, Daguerre col. Daguerre coll. (USNM); 2♂, Alta Gracia, La Granja, Sierras de Córdoba, II-1925, C. Bruch col. (USNM); 2♂ 2♀, San Javier, la Población, 15-I-1946, Bachmann col. (MACN); 1♀, same data, 17-I-1946 (MACN); **Entre Ríos:** 1♂ 11♀, Gualhounichu, III-[19]81, Drake col. '56 (USNM); 2♂ 2♀, Gualeguaychú, 19-IV-1924, Excurs. Prof. M.D. Jurado (MACN); **Jujuy:** 3♂ 1♀, 15 km N Jujuy, 20-II-[19]92, L.E. Peña col. (USNM); **La Pampa:** 3♂, N. Puelen, 4-XI-[19]87, L.E. Peña G. col. (USNM); **Mendoza:** 1♂, Palmira, XII-[19]76, A. Roig col. (MACN); 1♂, San Rafael, 5-III-1983, L.E. Peña G. col. (USNM); 1♂, same data, 6-III-[19]83 (USNM); 1♂, Cochico, 9-XI-1987, L.E. Peña G. col. (USNM); **Neuquén:** 3♂ 5♀, El Huecu S, 4-II-1991, L.E. Peña leg. (USNM); 5♂ 1♀, Neuquén, 6-I-[19]94, Ugarte col. (USNM); 1♀, Trelew, III-[1]954, Daguerre col., Daguerre coll. (USNM); **Río Negro:** 1♀, de Conesa a San Antonio, 7-II-[1]938, Birabén- Scott cols. (USNM); 1♀, Rt. 304, 9 mi N San Antonio Oeste, 17-I-1990, sweeping *Baccharis ulicina*, P.E. Boldt col. (USNM); 2♂ 1♀, Sn. Ant. Oeste, XI-1987, L.E. Peña G. col. (USNM); 2♀, Rt. 22, Rio Colorado, 15-I-1990, sweeping *Baccharis spartioides*, P.E. Boldt col. (USNM); 1♂, Choele-Choel, 10-XI-1990, L.E. Peña leg. (USNM); **San Luis:** 1♂ 1♀, San Luis S, 4-III-1983, L.E. Peña col. (USNM).

Argentinean distribution

Buenos Aires, Catamarca, Chaco, Chubut*, Córdoba, Corrientes, Entre Ríos, Formosa, Jujuy, La Pampa, La Rioja, Mendoza, Misiones, Neuquén, Río Negro, Salta, San Juan, San Luis, Santa Cruz, Santa Fe, Santiago del Estero, Tierra del Fuego and Tucumán.

Central and South American distribution

Argentina, Peru and Uruguay (Göllner-Scheiding, 1978a), same data adding Brazil (Göllner-Scheiding 1983).

Comments

None of the new records mentioned by Pall and Coscarón (2012) is new, as demonstrated above.

Final remarks

Pall and Coscarón (2012) mentioned *Harmostes reflexus viscens* [sic] (Dallas) from many provinces in Argentina. However, this is not a valid name and we assume that in fact they are referring to *Harmostes reflexulus* (Say) because we have found in the MLP collection two specimens of this species from Mexico and USA (Arizona) labelled as *Harmostes reflexulus virescens* Dallas. Because the list of studied material in Pall and Coscarón (2012) mentioned only provinces and localities, it is impossible to track the specimens they referred to; we have studied specimens from some of the localities they mentioned, but they belong to other species.

Subfamily **SERINETHINAE** Stål, 1873

Genus **Jadera** Stål, 1862

Isid:Coreoidea.speciesfile.org:TaxonName:452675

(Figure 6)

Type species

Leptocoris coturnix Burmeister, 1835

Jadera choprai Göllner-Scheiding, 1979

Isid:Coreoidea.speciesfile.org:TaxonName:452701

Jadera choprai Göllner-Scheiding 1979: 53 (Argentina); Carpintero and De Biase 2011: 42 (**Buenos Aires**: Isla Martín García); Pall and Coscarón 2012: 1444 (Argentina and Bolivia).

Material examined

ARGENTINA: Corrientes: 1♂, Col. C. Pellegrini, Res. Iberá, 6-XII-2001, Magnanelli, M. col. (MLP).

Argentinean distribution

Buenos Aires and Corrientes*.

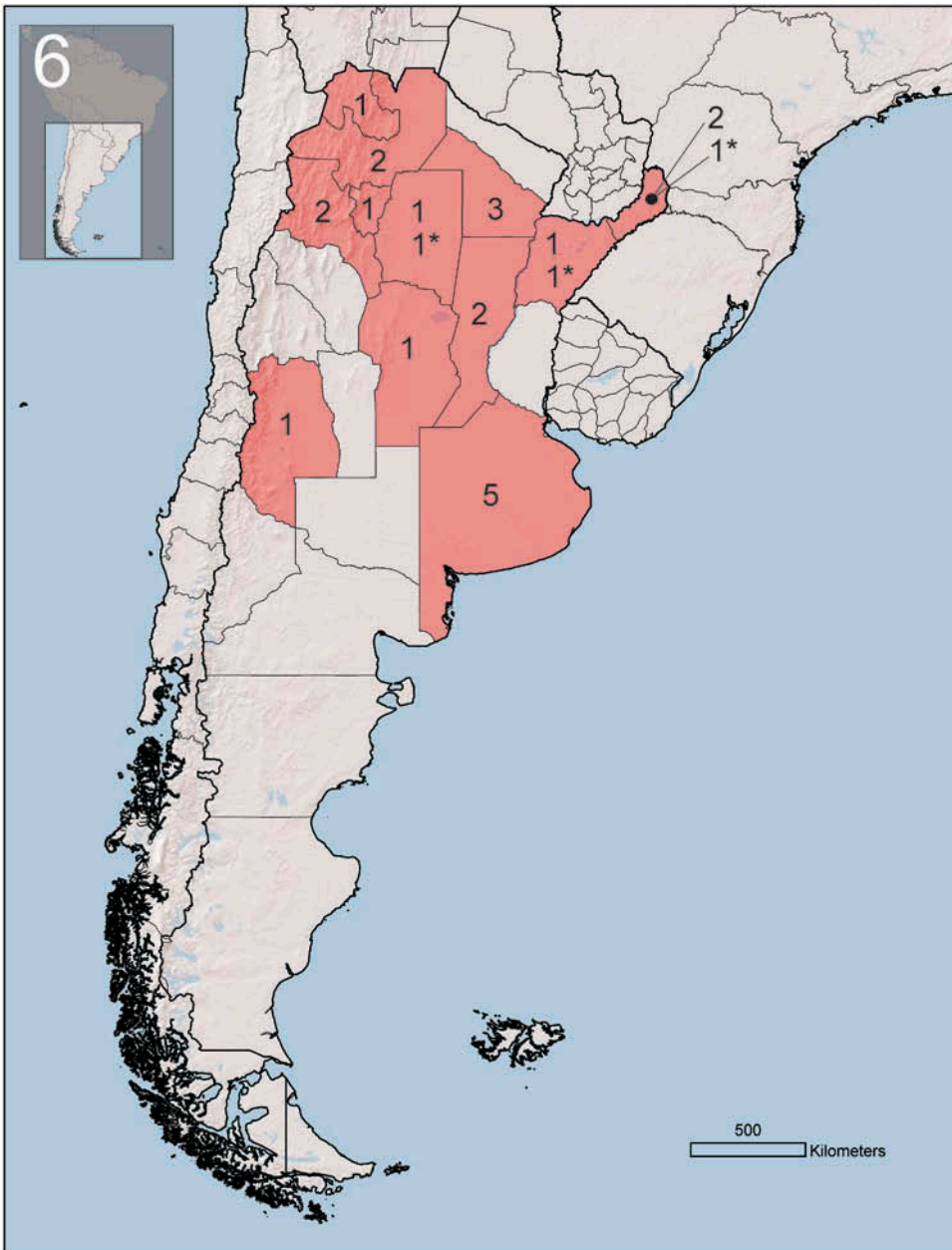


Figure 6. Distribution of *Jadera Stål* species in Argentina. Pale colour: known distributions. The number of known species for each province is provided, with an asterisk indicating the number of newly recorded species.

Central and South American distribution

Argentina, Bolivia, Brazil, Paraguay and Uruguay (Göllner-Scheiding 1979/1983).

Comments

Pall and Coscarón (2012) overlooked published records from Brazil, Paraguay and Uruguay.

Jadera coturnix (Burmeister, 1835)

Isid:Coreoidea.speciesfile.org:TaxonName:452700

Leptocoris coturnix Burmeister 1835, 2: 305 (Brazil).*Jadera aeola aeola* (Dallas) *syn. by Göllner-Scheiding 1979: 51* (Argentina); Melo et al. 2011: 17 (**Chaco**: P.N. Chaco); Carpintero and De Biase 2011: 42 (**Buenos Aires**: Isla Martín García); Pall and Coscarón 2012: 1444 (**La Rioja, Tucumán**).*Jadera coturnix* Henry 1988: 663 (Mexico to South America).*Material examined***ARGENTINA: Buenos Aires:** 1♂, La Plata, C. Bruch col., H.M. Harris coll. (USNM); **Chaco:** 1♂ 1♀, P.N. Chaco, park rangers' house, 26°48'25" S, 59°36'36.5" W, 26-IX-2009, light trap, P.M. Dellapé and M.C. Melo cols. (MLP); 1♂, same data, 25-IX-2009, light trap, M.C. Melo col. (MLP); 1♂, same data, 17/28-X-2009, light trap, R. Pfoh col. (MLP); **Misiones:** 1♀, Parque Provincial Urugua-í, 25°51'46.4" S, 54°10'13.9" W, 276 m, 30-IX-2010, Montemayor, S.I. col. (MLP).*Argentinean distribution*

Buenos Aires, Chaco and Misiones*.

Central and South American distribution

Argentina, Jamaica, Mexico and Panama (Göllner-Scheiding 1979); from USA (Texas) to Argentina (Göllner-Scheiding 1983).

Comments

Pall and Coscarón (2012) recorded this species from La Rioja and Tucumán, but neither province is mentioned in the literature and we did not find any specimens in the MLP collection or any of the collections studied. They also overlooked Panama, Jamaica and the USA.

Jadera decipiens Göllner-Scheiding, 1979

Isid:Coreoidea.speciesfile.org:TaxonName:452698

Jadera decipiens Göllner-Scheiding 1979: 55 (Argentina: **Chaco, Santa Fe**); Pall and Coscarón 2012: 1445 (**Chaco, Santa Fe**).*Material examined***ARGENTINA: Santiago del Estero:** 1♂, S. Rosa, II-1935, s/ algodónero [cotton], Bosq. coll. (MLP).*Argentinean distribution*

Chaco, Santa Fe, and Santiago del Estero*.

Central and South American distribution

Argentina, Brazil and West Indies (Curaçao and Antigua) (Göllner-Scheiding 1979,1983).

Comments

Pall and Coscarón (2012) did not mention the West Indies in the distribution of the species.

Jadera golbachii Göllner-Scheiding, 1979

Isid:Coreoidea.speciesfile.org:TaxonName:452696

Jadera golbachii Göllner-Scheiding 1979: 56 (Argentina: **Salta**: Abra Grande Orán, Ruiz de los Llanos; **Catamarca**: El Alto); Pall and Coscarón 2012: 1445 (**Catamarca**: El Alto; **Salta**: Abra Grande Orán, Ruiz de los Llanos).

Argentinean distribution

Catamarca and Salta.

Central and South American distribution

Argentina, Bolivia and Ecuador (Göllner-Scheiding 1979-1983).

Comments

Argentina is the only country mentioned by Pall and Coscarón (2012).

Jadera obscura (Westwood, 1842)

Isid:Coreoidea.speciesfile.org:TaxonName:452687

Pyrrhotes obscura Westwood 1842: 26 (Rio, Brazil?).

Jadera obscura: Berg 1878: 188 (**Misiones**); Distant 1882: 172–173 (Argentina); Pennington 1922: 169 (**Misiones**); Pall and Coscarón 2012: 1448 (**Misiones**: Corpus)

Material examined

ARGENTINA: Misiones: 1♂ 1♀, Misiones, Berg coll. (MLP); 2♂, Loreto, III-1936, Bosq coll. (MLP).

Argentinean distribution

Misiones.

Central and South American distribution

Argentina, Brazil, Mexico and Peru (Göllner-Scheiding 1979, 1983).

Comments

Argentina and Brazil are the only countries Pall and Coscarón (2012) listed for this species.

Jadera parapectoralis Göllner-Scheiding, 1979

Isid:Coreoidea.speciesfile.org:TaxonName:452686

Jadera parapectoralis Göllner-Scheiding 1979: 62 (Argentina); Göllner-Scheiding 1982: 462 (**Chaco, Santa Fe**); Schaefer 2001: 473 (Argentina); Carpintero and De Biase 2011: 42 (**Buenos Aires**: Isla Martín García); Pall and Coscarón 2012: 1444 (Argentina).

Argentinean distribution

Buenos Aires, Chaco and Santa Fe.

Central and South American distribution

Argentina and Brazil (Göllner-Scheiding 1979, 1983).

Comments

Pall and Coscarón (2012) overlooked the distribution of *J. parapectoralis* in Argentina. Tsai et al. (2013) stated that the specimen photographed in Pall and Coscarón (2012) and identified as *J. haematoloma* may correspond to *J. pectoralis* Stål 1862 or *J. parapectoralis* Göllner-Scheiding 1979. Pall and Coscarón (2012) studied only one specimen (the photographed one?) from the locality of José C. Paz in Buenos Aires province; unfortunately this identification was impossible to check because the specimen is not currently deposited in the MLP collection.

Jadera sanguinolenta (Fabricius, 1775)

Isid:Coreoidea.speciesfile.org:TaxonName:452679

Cimex sanguinolentus Fabricius 1775: 721 (America).

Jadera sanguinolenta: Berg 1878: 189–190 (**Buenos Aires, Córdoba, Corrientes, Mendoza, Misiones, Tucumán**); Lethierry and Severin 1894: 124 (**Buenos Aires, Tucumán**); Torre-Bueno and Thorne 1915: 160 (**Santiago del Estero**); Pennington 1922: 170 (from north of Argentina to **Buenos Aires**); Bosq 1937: 115 (**Santiago del Estero**); Quintanilla et al. 1975/1976: 120 (**Corrientes**: Esquina); Viana and Williner 1978: 75 (**Córdoba**: Carlos Paz; **Buenos Aires; Corrientes; Misiones; Tucumán**); Quintanilla et al. 1981: 149 (**Misiones**: Eldorado); Bressa et al. 2001: 152 (**Buenos Aires**: Natural Reserve Martín García Island; **Entre Ríos**: Gualeguaychú; **Misiones**: Iguazú National Park); Di Iorio 2004: 246 (**Corrientes, Santiago del Estero**); Carpintero 2009: 302 (**Buenos Aires**: Reserva Provincial y Reserva de Biósfera Internacional Parque Costero del Sur); Pall and Coscarón 2012: 1448 (**Buenos Aires**: La Plata; **Catamarca; Córdoba; Corrientes; Entre Ríos; Formosa**: Pirané; **La Pampa; Mendoza; Misiones**: Loreto, Iguazú; **Río Negro; San Luis; Santa Fé; Salta**: San Lorenzo; **Tucumán**: Las Trancas; **Jujuy**).

Jadera sanguinolenta [sic]: Viana and Williner 1972: 27 (**Córdoba**: Carlos Paz).

Material examined

ARGENTINA: **Buenos Aires**: 1♂ 2♀, La Plata (MLP); **Catamarca**: 1♂ 1♀, Portezuelo, 14-VI-1948 (MLP); **Córdoba**: 1♂, Cabana, 13-III-[1]926, H.M. Harris coll. (USNM); **Corrientes**: 1♂, Col. C. Pellegrini, Res. Iberá, 5-XII-2001, Melo, M.C. col. (MLP); 1♂, San Roque, II-1920, Bosq coll. (MLP); **Jujuy**: 1♂, Yala, 12-III-1939, Birabén- Scott cols., H.M. Harris coll. (USNM); **Misiones**: 1♂, Berg coll. (MLP); **Salta**: 1♂, San Lorenzo, 17-XI-[19]29, Denier coll. (MLP); **Santiago del Estero**: 3♂ 3♀, Turena, 10-XII-[19]40, R.M. Bruzzone col., H.M. Harris coll. (USNM).

Argentinean distribution

Buenos Aires, Catamarca, Córdoba, Corrientes, Jujuy, Mendoza, Misiones, Salta, Santiago del Estero and Tucumán.

Central and South American distribution

Argentina (Berg 1878), Puerto Rico and West Indies (St. Croix, Culebra, St. John and St. Thomas) (Göllner-Scheiding 1979, 1983).

Comments

Pall and Coscarón (2012) referred to Corrientes and Mendoza as new records, but both had been previously mentioned by Berg (1878) and many other authors. Other new records they provide are La Pampa, Mendoza and Río Negro, but there is no specimen in the MLP collection from these provinces, or in any of the collections studied. Moreover, they mentioned the species from Formosa, San Luis and Santa Fe, but these distributions are not mentioned in the literature and there is no material from these provinces in any of the collections studied.

Remarks

According to Göllner-Scheiding (1979), this species has been extensively confused with *J. choprai*, and is restricted to the Caribbean Islands; nevertheless, we have found many specimens of *J. sanguinolenta* from Argentina.

Species whose distribution needs confirmation

Jadera haematoloma (Herrich- Schaeffer, 1847)
lsid:Coreoidea.speciesfile.org:TaxonName:452693

Leptocoris haematoloma Herrich- Schaeffer 1847, 8: 103 (Mexico).

Jadera haematoloma: Pennington 1922, 5: 170 (**Buenos Aires**: Quilmes); Bressa et al. 2001: 152 (**Buenos Aires**: Natural Reserve Martín García Island; **Entre Ríos**: Gualeguaychú); Pall and Coscarón 2012, 46: 1447 (**Buenos Aires**: José C. Paz).

Central and South American distribution

Colombia, México, USA, Venezuela and West Indies (Göllner-Scheiding 1979, 1983).

Comments

Pall and Coscarón (2012) overlooked records from USA and the West Indies. Tsai et al. (2013) concluded that all sub-Amazonian records of this species are apparently erroneous, and may correspond – at least in part – to *J. pyrroloma* Stål 1870; they also show that the specimen photographed in Pall and Coscarón (2012) is a misidentification, probably corresponding to *J. pectoralis* Stål 1862 or *J. parapectoralis* Göllner-Scheiding 1979. We were unable to examine any specimens confirming its occurrence in Argentina.

Discussion

We were able to examine specimens for 32 of the 38 Argentinean species recorded. Many of the specimens were undetermined. As a result of identifying over 1000 specimens, we have found new distributional information for 27 species, summarised in [Figures 1–6](#).

We have recorded 38 species in six genera from Argentina: *Liorhyssus* Stål (two species), *Arhyssus* Stål (one species), *Niesthrea* Spinola (five species), *Xenogenus* Berg (two species), *Harmostes* Burmeister (20 species), and *Jadera* Stål (eight species). Three species are recorded for the first time from Argentina: *Harmostes* (*Harmostes*) *splendens* Harris, *H.* (*Neoharmostes*) *bergi* Göllner-Scheiding and *Arhyssus* *tricostatus* (Spinola) (a first record for the genus). This is also the first time that *Harmostes* (*Harmostes*) *gravidator* is mentioned from Paraguay and *Xenogenus* *picturatum* from Brazil, though the latter has been mentioned from America Meridionalis (Göllner-Scheiding 1983) with no specification of country or region.

As shown in [Figure 7](#), for over a century, very little was known about the distribution of Argentinean rhopalids. This is particularly striking for a family that is so widespread in the Neotropical Region and in entomological collections. Melo et al. (2011) provided a comprehensive study from Argentina. We are confident that the information presented

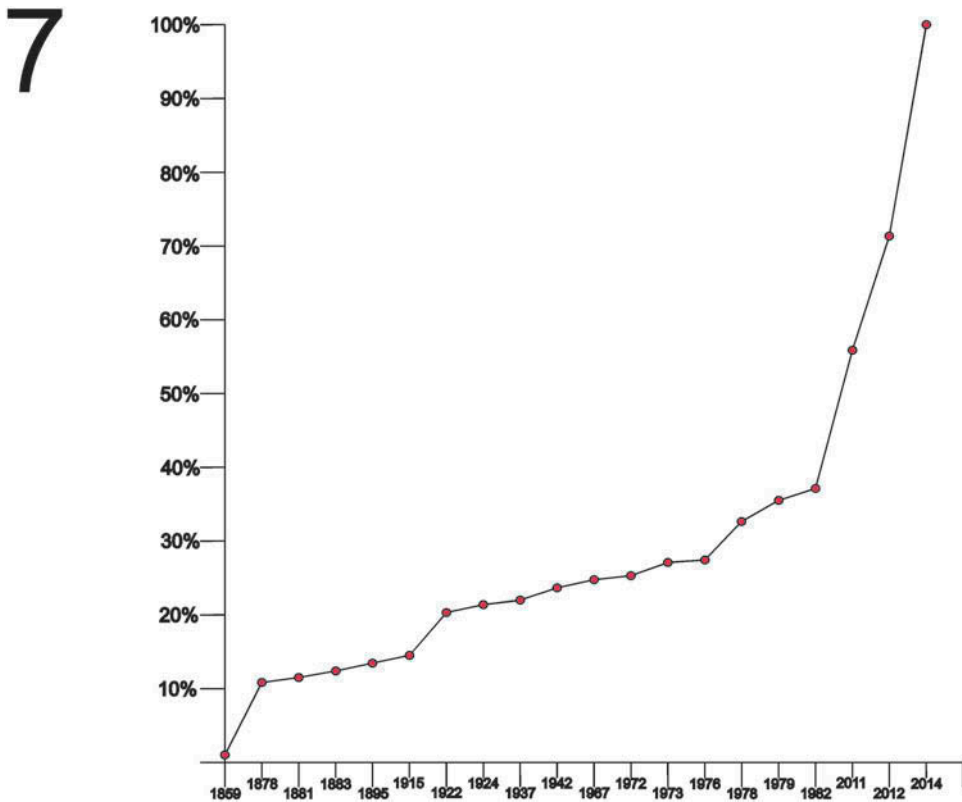


Figure 7. Known records for the species of Rhopalidae from Argentina over the years (cumulative relative frequencies 0–100%).

herein will supplement this study by more completely documenting what is currently known from Argentina and neighbouring countries.

Acknowledgements

We express our gratitude to Thomas J. Henry for allowing us to examine the collection of rhopalids in the National Museum of Natural History, Smithsonian Institution, Washington DC, USA.

Disclosure statement

No potential conflict of interest was reported by the authors.

Funding

This work was supported by the Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), under an external grant to the first author to work at the entomological collection of the National Museum of Natural History, Smithsonian Institution.

References

- Amyot CJB, Serville JGA. 1843. Histoire naturelle des insectes: hemipteres. Paris: Fain et Thunot.
- Berg C. 1878. Hemiptera Argentina. *An Soc Cien Argentina*. 6:179–192.
- Berg C. 1880. Hemiptera Argentina (Addenda). *An Soc Cien Argentina*. 9:5–25.
- Berg C. 1881. Insectos. *Informe oficial de la Comisión Científica agregada al Estado Mayor general de la Expedición al Río Negro (Patagonia) realizada en los meses de abril, mayo y junio de 1879 bajo las órdenes del General Julio A. Roca*. Buenos Aires, Oswald y Martínez. 1: 77–115 + plate II.
- Berg C. 1883. Addenda et emendanda ad Hemiptera Argentina. *An Soc Cien Argentina*. 15:241–269.
- Berg C. 1895. Hemípteros de la Tierra del Fuego colectados por el Sr. Carlos Backhausen. *An Mus Nac Buenos Aires*. 4:195–206.
- Berg C. 1896. Contribución al estudio de los Hemípteros de la Tierra del Fuego. *An Mus Nac Buenos Aires*. 5:131–137.
- Blanchard ME. 1852. Historia Física y Política de Chile. Zoología. París: Mauke & Renou. Orden VII Hemipteros; p. 113–320.
- Blöte HC. 1934. Catalogue of the Coreidae in the Rijksmuseum Van Natuurlijke Historie. Part I, Corizinae, Alydinae. *Zool Meded (Leiden)*. XVII:253–285.
- Bosq JM. 1937. Lista preliminar de los Hemípteros (Heteropteros); especialmente relacionados con la agricultura nacional. *Rev Soc Entomol Arg*. 9:111–133.
- Bosq JM. 1940. Lista Preliminar de los Hemípteros (Heteropteros), especialmente relacionados con la Agricultura Nacional (Continuación). *Rev Soc Entomol Arg*. 10:399–417.
- Brailovsky H, Soria F. 1981. Contribución al Estudio de los Hemiptera Heteroptera de México: XVIII. Revisión de la tribu Harmostini Stål (Rhopalidae) y descripción de una nueva especie. *Anales Inst Biol Univ Nac Autón México*. 51:123–168.
- Bressa MJ, Papeschi AG, Mola L, Larramendy ML. 2001. Autosomal univalents as a common meiotic feature in *Jadera haematoloma* (Herrich-Schaeffer, 1847) and *Jadera sanguinolenta* (Fabricius, 1775) (Heteroptera: Rhopalidae: Serinethinae). *Eur J Entomol*. 98:151–157.
- Burmeister HCC. 1835. *Handbuch der Entomologie*, T. Enslin. Berlin: G. Reimer.
- Carpintero DL. 2009. Parque Costero del Sur. Naturaleza, conservación y patrimonio cultural. Buenos Aires: Fundación de Historia Natural; “Feliz de Azara”. Chapter X, Insecta: Hemiptera: Heteroptera; p. 295–305.
- Carpintero DL, De Biase S. 2011. Los Hemiptera Heteroptera de la Isla Martín García (Buenos Aires, Argentina). *Hist Nat*. 1:27–47.

- Cava MB, Corronca JA, Coscarón MC. 2012. Composition and structure of Heteroptera communities (Hemiptera) in high altitude habitats of a national protected area in Argentina. *Mun Ent Zool*. 7:1214–1226.
- Chopra NP. 1967. The higher classification of the family Rhopalidae (Hemiptera). *Trans R Ent Soc Lond*. 12:363–399.
- Chopra NP. 1968. A revision of the genus *Arhyssus* Stal (Hemiptera: Rhopalidae). *Ann Entomol Soc Am*. 61:629–655.
- Chopra NP. 1973. A revision of the genus *Niesthrea* Spinola (Rhopalidae: Hemiptera). *J Nat Hist Mus*. 7:441–459.
- CoreoideaSF Team. 2014. Coreoidea species file online [Internet]. Version 5.0/5.0. Available from: <http://Coreoidea.SpeciesFile.org>
- Cornelis M, Quirán E, Coscarón MC. 2012. The scentless plant bug, *Liorhyssus hyalinus* (Fabricius) (Hemiptera: Heteroptera: Rhopalidae): Description of immature stages and notes on its life history. *Zootaxa*. 3525:83–88.
- Coscarón MC. 1998. Los ejemplares tipo de Coreoidea (Heteroptera) depositados en la colección del Museo de La Plata. *Rev Mus La Plata (n.s.), Ser Téc Did*. 34:1–7.
- Dellapé PM, Carpintero DL. 2012. Relevamiento de los Heteroptera (Insecta: Hemiptera) de las sierras de Tandil, provincia de Buenos Aires, Argentina. *Rev Mus Argent Cienc Nat*. 14:125–134.
- Di Iorio O. 2004. Catálogo de insectos fitófagos de la Argentina y sus plantas asociadas. Buenos Aires: Sociedad Entomológica Argentina Ediciones. Hemiptera Corizidae; p. 245–246.
- Diez F, Coscarón MC. 2015. Contribution to the knowledge of Patagonia, Argentina: redescription of the genus *Xenogenus* Berg 1883 (Hemiptera: Heteroptera: Rhopalidae) and description of immature stages of *Xenogenus gracilis* Reed, 1899. *Zootaxa*. 3919:573–582.
- Distant WL. 1881. *Biologia Centrali-Americana* Vol. I. Insecta. Rhynchota. Hemiptera-Heteroptera. London: R.H. Porter; p. 89–168.
- Distant WL. 1882. *Biologia Centrali-Americana* Vol. I. Insecta. Rhynchota. Hemiptera-Heteroptera. London: R.H. Porter; p. 169–224.
- Distant WL. 1893. Description of new genera and species of Neotropical Rhynchota. *Trans Entom Soc Lond*. 1:83–96.
- Douglas JW, Scott J. 1865. *The British Hemiptera*. Vol. I. Hemiptera-Heteroptera. London: Robert Hardwicke.
- Fabricius JC. 1775. *Systema entomologiae, sistens insectorum classes, ordines, genera, species, adjectis synonymis, locis, descriptionibus, observationibus*. Lausanne: Flensburgi et Lipsiae.
- Fabricius JC. 1794. *Entomologia Systematica emendata et aucta, secundum classes, ordines, genera, species, adjectis synonymis, locis, observationibus*. Hafniae: C.G. Proft.
- Göllner-Scheiding U. 1975. Revision der Gattung *Stictopleurus* Stål, 1872 (Heteroptera, Rhopalidae). *Deut Entomol Z*. 22:47–49.
- Göllner-Scheiding U. 1976. Revision der Gattung *Liorhyssus* Stål, 1870 (Heteroptera, Rhopalidae). *Deut Entomol Z*. 23:181–206.
- Göllner-Scheiding U. 1977. Beiträge zur Heteropteren- Fauna Brandenburgs. 3. Übersicht über die Heteropteren von Brandenburg. Teil III Faun Abh Mus Tierk Dresden. 6:187–214.
- Göllner-Scheiding U. 1978a. Revision der Gattung *Harmostes* Burm., 1835 (Heteroptera, Rhopalidae) und einige bemerkungen zu den Rhopalinae. *Mitt Zool Mus Berl*. 54:257–311.
- Göllner-Scheiding U. 1978b. Beiträge zur Heteropteren- Fauna Brandenburgs. 2. Übersicht über die Heteropteren von Brandenburg. Teil II. Faun Abh Mus Tierk Dresden. 7:75–90.
- Göllner-Scheiding U. 1979. Die Gattung *Jadera* Stål, 1862. *Dtsch Ent Z N F*. 26:47–75.
- Göllner-Scheiding U. 1980. Einige bemerkungen zu den gattungen *Corizus* Fallén, 1814, und *Xenogenus* Berg, 1883, (Heteroptera, Rhopalidae). *Mitt Zool Mus Berl*. 56:111–121.
- Göllner-Scheiding U. 1982. Ergänzungen zu Gattungen der Rhopalidae (Heteroptera). *Dt Entom Z N F*. 29:459–467.
- Göllner-Scheiding U. 1983. General-Katalog der Familie Rhopalidae (Heteroptera). *Mitt Zool Mus Berlin*. 59:37–189.
- Göllner-Scheiding U. 1989. Supplements to the genus *Niesthrea* Spinola, 1837 (Heteroptera: Rhopalidae). *Mitt Zool Mus Berl*. 65:297–298.

- Göllner-Scheiding U. 1998. Drei neue Arten der Rhopalidae: *Harmostes (Harmostes) paraprolixus* spec. nov. und *Harmostes (Neoharmostes) bergi* spec. nov. aus Bolivien, und *Peliochrous thomasi* spec. nov. aus Uganda (Insecta: Heteroptera: Coreoidea). Faun Abh Mus Tierk Dresden. 32:175–179.
- Harris HM. 1942. Notes on *Harmostes*, with descriptions of some new species (Hemiptera: Corizidae). J Wash Acad Sci. 32:27–32.
- Harris HM. 1944. A new *Harmostes*, with a provisional key and a check list to the species (Hemiptera: Rhopalidae). Iowa State Coll J Sci. 18:191–197.
- Henry TJ. 1988. Catalog of the Heteroptera or True Bugs of Canada and the Continental United States. Leiden, New York, København, and Köln: EJ Brill. Family Rhopalidae Amyot & Serville, 1843. The Scentless Plant Bugs; p. 652–664.
- Herrich-Schaeffer GAW. 1847. Die Wanzenartigen Insecten. CH Zeh'schen Buchhandlung. 8:101–130.
- Hradil K, Kment P, Roháèová M. 2007. New records of *Liorhyssus hyalinus* (Heteroptera: Rhopalidae) in the Czech Republic, with a review of its worldwide distribution and biology. Acta Mus Moraviae Sci biol. 92:53–107.
- Jensen-Haarup AC. 1924. Hemipterological notes and descriptions III. Særtryk af Entomol. Medd. 14:323–338.
- Kirkaldy GW. 1910. A preliminary list of the Hemiptera of California, pt. 1. Proc Haw Ent Soc. 3:123–126.
- Lethierry L, Severin G. 1894. Catalogue général des Hémiptères. Vol. 2. Bruxelles and Berlin: F. Hayez.
- Melo MC, Dellapé PM, Carpintero DL, Montemayor SI. 2011. Heteroptera (Hemiptera) from the Chaco National Park (Argentina). Zootaxa. 2999:1–19.
- Melo MC, Montemayor SI. 2011. Two new species of *Harmostes (Harmostes)* Burmeister (Hemiptera: Heteroptera: Rhopalidae) from Argentina. Stud Neotrop Fauna Environ. 46:131–136.
- Melo MC, Montemayor SI. 2014. Rhopalidae. In Biodiversidad de Artrópodos Argentinos vol. III. San Miguel de Tucumán (Argentina): Editorial INSUE - Universidad Nacional de Tucumán; p. 451–456.
- Montandon AL. 1895. Hèmiptères Hétero-ptères. Première liste et descriptions d'espèces nouvelles. Boll Mus Zool Anat Comp R Univ Torino. 10:1–10.
- Pall JL, Coscarón MC. 2012. The Rhopalidae (Hemiptera: Heteroptera) of Argentina. J Nat Hist. 46:1441–1465.
- Pall JL, Quirán EM, Coscarón MC. 2013. New records of species of the family Rhopalidae (Heteroptera) in the province of La Pampa (Argentina). Mun Ent Zool. 8:382–386.
- Pennington MS. 1920. Lista de los Hemipteros Heteropteros de la República Argentina, Part. 1. Buenos Aires: Anales de la Sociedad Científica.
- Pennington MS. 1922. Notas sobre Coreidos argentinos (conclusión). Physis. 5:125–170.
- Quintanilla RH, Margheritis AE, Rizzo HF. 1967/1968. Catálogo de hemípteros hallados en la provincia de Entre Ríos. Rev Fac Agron Vet Buenos Aires. 17:29–38.
- Quintanilla RH, Margheritis AE, Rizzo HF. 1975/1976. Catálogo de hemípteros hallados en la provincia de Corrientes (Argentina). Rev Soc Ent Argentina. 35:115–133.
- Quintanilla RH, Rizzo HF, de Nuñez AS. 1981. Catálogo preliminar de hemípteros hallados en la provincia de Misiones (Argentina). Rev Fac Agron. 2:145–161.
- Reed EC. 1899. Sinopsis de los Hemípteros de Chile. Primera parte: heterópteros (continuación). Rev Chilena Hist Nat. 3:37–49.
- Schaefer CW. 1965. The morphology and higher classification of the Coreoidea (Hemiptera-Heteroptera). Part III. The families Rhopalidae, Alydidae, and Coreidae. Misc Publ Entomol Soc Am. 5:1–76.
- Schaefer CW. 2001. Variation in *Jadera parapectoralis* Göllner-Scheiding (Hemiptera: Rhopalidae). Neotrop Entomol. 30:473–474.
- Signoret V. 1859. Monographie du genre *Corizus*. Ann Soc Entomol Fr serie. 3:75–105.
- Spinola M. 1837. Essai sur les genres d'insects appartenants a l'ordre des Hemipteres, Lin. ou Rhynchotes, Fab., et a la section des Heteropteres, Dufour. Geneva: Yves Graviers.
- Spinola M. 1852. Historia Física y Política de Chile. Zoología. Maukale & Renou. París: Orden VII, Hemipteros; p. 113–320.
- Stål C. 1859. Hemiptera. Species novas descripsit. Fregatten Eugenies Resa. Arkiv for Zoologi. Utgifvet af K. Svenska Vetenskaps-akademien Stockholm. 4:219–298.

- Stål C. 1860. Bidrag till Rio Janeiro-traktens, Hemipter-fauna. Kongliga Svenska Vetenskaps-Akademiens Handlingar. 2:1–84.
- Stål C. 1862. Bidrag till Rio Janeiro-traktens Hemipter-fauna. Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar. 2:1–75.
- Stål C. 1870. Enumeratio Hemipterorum. Bidrag till en företeckning öfver alla hittills Hemiptera, jemte systematiska meddelanden. Kongl Svenska Vetenskaps-Akademiens Handlingar. 9:1–232.
- Stål C. 1873. Enumeratio Hemipterorum. Bidrag till en företeckning öfver alla hittills Hemiptera, jemte systematiska meddelanden. Kongl Svenska Vetenskaps-Akademiens Handlingar. 11:1–162.
- Torre Bueno JR, Thorne T. 1915. Nota sobre hemípteros del chaco de Santiago del Estero. An Mus Nac Hist Nat Buenos Aires. 26:157–162.
- Tsai J-F, Hsieh Y-X, Rédei D. 2013. The soapberry bug, *Jadera haematoloma* (Insecta, Hemiptera, Rhopalidae): first Asian record, with a review of bionomics. ZooKeys. 297:1–41.
- Viana MJ, Williner GJ. 1972. Evaluación de la fauna entomológica y aracnológica de las provincias cuyanas (primera comunicación). Acta Scientifica. 1:1–29.
- Viana MJ, Williner GJ. 1978. Evaluación de la fauna entomológica y aracnológica de las provincias centrales y cuyanas (4ta comunicación). Acta Scientifica. 11:70–77.
- Westwood JO. 1842. A catalogue of Hemiptera in the collection of the Rev. F.W. Hope, with short Latin descriptions of new species. London: J. Bridgewater.