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The Rhopalidae (Hemiptera: Heteroptera) of Argentina

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In Argentina, five genera and 34 species are recorded, in the subfamilies Rhopalinae and Serinethinae. *Harmostes apicatus* Stål; *H. brevispinus* Blöte; *H. corazonus* Distant; *H. corizoides* Jensen-Haarup; *H. dorsalis* Burmeister; *H. gravidator* (Fabricius); *H. imitabilis* Harris; *H. insitivus* Harris; *H. marmoratus* (Blanchard); *H. minor* (Spinola); *H. parafraterculus* Göllner-Scheidig; *H. petulans* Harris; *H. procerus* Berg; *H. prolixus* Stål; *H. reflexus viscens* (Dallas); *H. serratus* (Fabricius); *H. signoreti* Reed; *Jadera aeola aeola* (Dallas); *J. choprai* Göllner-Scheidig; *J. decipiens* Göllner-Scheidig; *J. golbachi* Göllner-Scheidig; *J. haematoloma* (Herrich-Schaefer); *J. obscura* (Westwood); *J. parapectoralis* Göllner-Scheidig; *J. sanguinolenta* (Fabricius); *Niesthrea agnes* Chopra; *N. josei* Göllner-Scheidig; *N. pictipes* (Stål); *N. similis* Chopra; *N. vincentii* (Westwood); *Liorhyssus hyalinus* (Fabricius); *L. lineatoventris* (Spinola); *Xenogenus gracilis* Berg; *X. picturatum* Berg; and *X. extensum* Distant. New locality records are given for Buenos Aires; Catamarca; Corrientes; Córdoba; Chaco; Entre Ríos; Jujuy; La Pampa; Mendoza; Misiones; Neuquén; Río Negro; Salta; San Juan; San Luis; Santiago del Estero; Tierra del Fuego.

Keywords: rhopalids; genera; Argentina; key; distribution

Introduction

The Rhopalidae are often called the “scent-less plant bugs”. They are a small group ranging in length from 4 to 15 mm. Shape and colour vary greatly. The family has often been considered a subfamily of Coreidae, but modern workers such as Chopra (1967) and Göllner-Scheidig (1983) treated it as a distinct family. Göllner-Scheidig (1983) – in a world catalogue of Rhopalidae – provided a summary of the classification of the group and an exhaustive introduction to the literature. Two subfamilies, comprising 21 genera and 209 species are recognized (Henry 2009).

Most rhopalids are of little economic importance, but certain species have become nuisance pests. They are all phytophagous, the members of Rhopalinae feeding on many different plants, and those included in Serinethinae preferring species of Sapindacea (Schaefer and Chopra 1982; Schaefer and Mitchell 1983). The New World genera of Rhopalinae are probably derived from Old World emigrants (Schaefer 1993).

According to Schaefer and Panizzi (2000) they are not of great importance from an agricultural point of view, but some serinethines become annoying in the northeastern United States when they seek shelter in houses during late autumn, as the temperature

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drops; others may become minor pests of cotton, or ornamental plants such as soapberry and goldenrain trees. One species, *Niesthrea lousianica* (Sailer), is beneficial because it helps control velvetleaf, an invasive weed.

Knowledge of the fauna of South America is poor, especially in relation to taxa of economic importance. Comprehensive keys for identification of the species living in the region have not been published.

In Chile, González (1989) stated “*Se desconoce su hábito alimenticios y nunca han sido considerados plagas agrícolas. Antes del periodo de inspección conjunta SAG/USDA, especies de esta familia no fueron jamás interceptadas. En cambio, en la presente década han existido importantes rechazos cuarentenarios por Arhyssus y Liorhyssus.*

A. tricostatus Importancia económica: Cuarentenario. Ha sido interceptado en uva, en los meses de enero a marzo.

L. lineaventrís Importancia económica: Cuarentenaria. Ha sido interceptado en frambuesas.”

[“Feeding habits are unknown, and they have never been considered agricultural pests. Before establishment of joint SAG/USDA inspection, species of this family had never been intercepted. In contrast, during the current decade there have been important quarantine caused by *Arhyssus* and *Liorhyssus*.

A. tricostatus Economic importance: Quarantine required. Intercepted in vineyards between January and March.

L. lineaventrís Economic importance: Quarantine required. Intercepted in raspberries”. Translated from Spanish].

Argentina – the geographical area considered in this paper – lies in the Neotropical faunal region. The country covers an area of 2,791,810 km² and is bordered by Uruguay, Brazil, Paraguay, Bolivia, and Chile. Approximately 75% of the country is occupied by arid and semiarid areas, but rainforest is also present in some places, i.e. the Yungas and Paranaense regions.

The objective of this paper is to provide an illustrated key of the genera of Rhopalidae from Argentina, including a diagnosis, geographical distribution and list of species for each genus.

Materials and methods

Examined specimens belong to the collections of the Museo de Ciencias Naturales de La Plata (MLP), La Plata, Buenos Aires, Argentina (<http://www.fcnym.unlp.edu.ar/abamuse.html>). The photographs were compared with material of the Naturhistoriska riksmuseet of Stockholm, Sweden (<http://www.nrm.se/2.1286b10fdbe80efba80001.html>) and the American Museum of Natural History of New York (<http://www.amnh.org/>).

For the geographical distribution we used the program DIVA-GIS 7.1.7 (<http://www.diva-gis.org/>) and the distribution of those specimens for which global positioning system data were available was used for the construction of maps.

We took photographs using a SONY Cyber-Shot (5.1 megapixels) camera and a magnifying Wild M-Stereomicroscope.

The diagnosis of the genera is taken from Chopra (1967) (<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2311.1967.tb00503.x/pdf>).

Results

Key to genera in Argentina

1. Lateral margin of pronotum with a distinct notch delimiting the collar posteriorly (Figure 1A). Suture between visible abdominal segments III and IV as strong and deep as suture between sternites IV and V (Figure 1B).
Subfamily Serinethinae Stål *Jadera* Stål (Figure 1C)
Lateral margins of pronotum not notched immediately posterior to collar (Figure 1D). Suture between visible abdominal segments III and IV much shallower and weaker than other suture (Figure 1E)
Subfamily Rhopalinae Amyot and Serville 2
2. Posterior femur thicker than median or anterior femora, ventrally with several strong spines (Figure 1F) 3
Posterior femur not thicker than anterior or median femora, no spines ventrally (Figure 1G) 4
3. Anterolateral angle of pronotum produced anteriorly as an acute tooth (Figure 1H). Clypeus acutely projecting beyond juga (Figure 1I).
Tribe Harmostini Stål *Harmostes* Burmeister (Figure 1J)
Anterolateral angle of pronotum not produced (Figure 2A). Clypeus bluntly rounded apically, not or slightly (less than own width) surpassing juga (Figure 2B).
Tribe Chorosomini Douglas and Scott *Xenogenus* Berg (Figure 2C)
4. Pronotum with a sharp medially transverse suture delimiting anterior collar; surface between collar and calli elevated, calloused, impunctate (sometime flecked with fuscous or red) (Figure 2D).
Tribe Rhopalini Amyot and Serville *Liorhysus* Stål (Figure 2E)
Pronotum without a delimited anterior collar, surface between collar and calli distinctly punctate, neither elevated nor calloused.
Tribe Niesthrini Chopra 5
5. Last connexival segment without a dividing suture. Rostrum reaching or surpassing third abdominal sternite (Figure 2F) *Niesthrea* Spinola (Figure 2G)
Last connexival segment not dividing suture. Rostrum not reaching or surpassing third abdominal sternite *Corizus* Fallén (Figure 2H)

Genus *Jadera* Stål

(Figure 1C)

Jadera Stål, 1862: 59. Type species: *Cimex sanguinolenta* Fabricius, monotypic.

Note: the 15 species of *Jadera* were revised by Göllner-Scheiding (1979) who offered a key (p.71–74) for their separation.

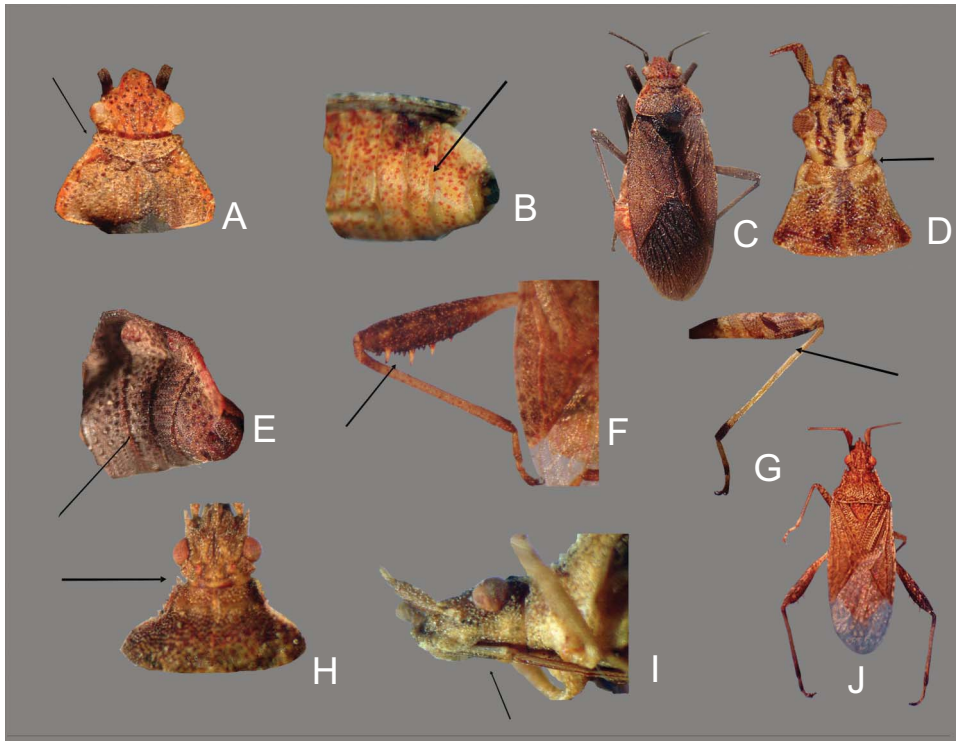


Figure 1(A–J). (A) Head and pronotum; (B) suture between abdominal segments III and IV and sternites IV and V; (C) *Jadera* Stål; (D) pronotum; (E) suture between visible abdominal segments III and IV; (F, G) posterior femur; (H) head and pronotum; (I) clypeus; (J) *Harmostes* Burmeister.

Diagnosis

Body elongate oval; bucculae long reaching base of head; phragma at junction of first and second abdominal terga broad and single in males; broad and bifurcated in females; fourth-fifths of tergal suture almost straight; apodeme of seventh sternum well-developed and single both in males and females.

Jadera aeola aeola (Dallas)

Serinetha aeola Dallas, 1852: 463.

Jadera aeola aeola Bayard, 1943: 19; Göllner-Scheiding 1979: 49; Göllner-Scheiding 1983: 177.

Distribution. Argentina: La Rioja; Tucumán; Mexico.

Jadera choprai Göllner-Scheiding

Jadera choprai Göllner-Scheiding, 1979: 53. Göllner-Scheiding 1983: 179.

Distribution. Argentina; Bolivia.

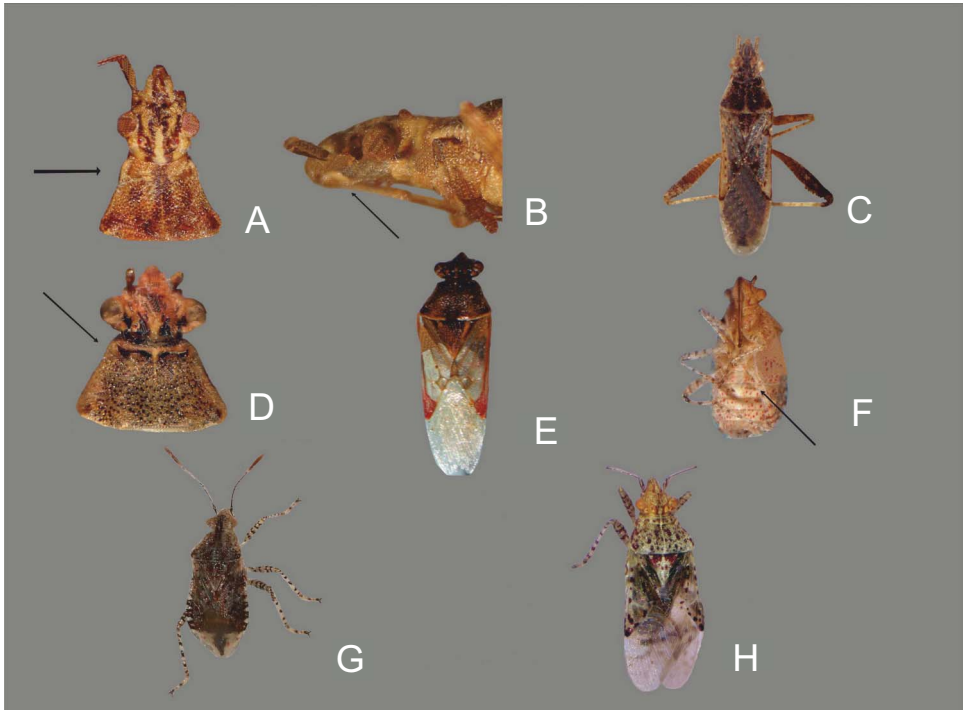


Figure 2(A–H). (A) Head and pronotum; (B) clypeus; (C) *Xenogenus* Berg; (D) head and pronotum; (E) *Liorhyssus* Stål; (F) convexival segment; (G) *Niesthrea* Spinola; (H) *Corizus* Fallén.

Jadera decipiens Göllner-Scheiding

In http://research.amnh.org/iz/types_db/details.php?specimen_id=5743

Jadera decipiens Göllner-Scheiding, 1979: 55. Göllner-Scheiding 1983: 179.

Distribution. Argentina: Chaco; Santa Fé; Brazil.

Jadera golbachi Göllner-Scheiding

Jadera golbachi Göllner-Scheiding, 1979: 56; Göllner-Scheiding 1983: 179.

Distribution. Argentina: Catamarca: El Alto; Salta: Orán, Abra Grande, Ruiz de los Llanos.

Jadera haematoloma (Herrich-Schaefer)

(Figure 3B and Figure 4F)

Leptocoris haematoloma Herrich-Schaefer, 1847: 103; Dallas 1852: 463; Guérin-Méneville 1857: 393; Dohrn 1859: 27; Stål 1862: 307; Walker 1871: 145; Uhler 1876: 302; Distant 1882: 65; Berg 1892: 104; Lethierry and Severin 1894: 124; Distant

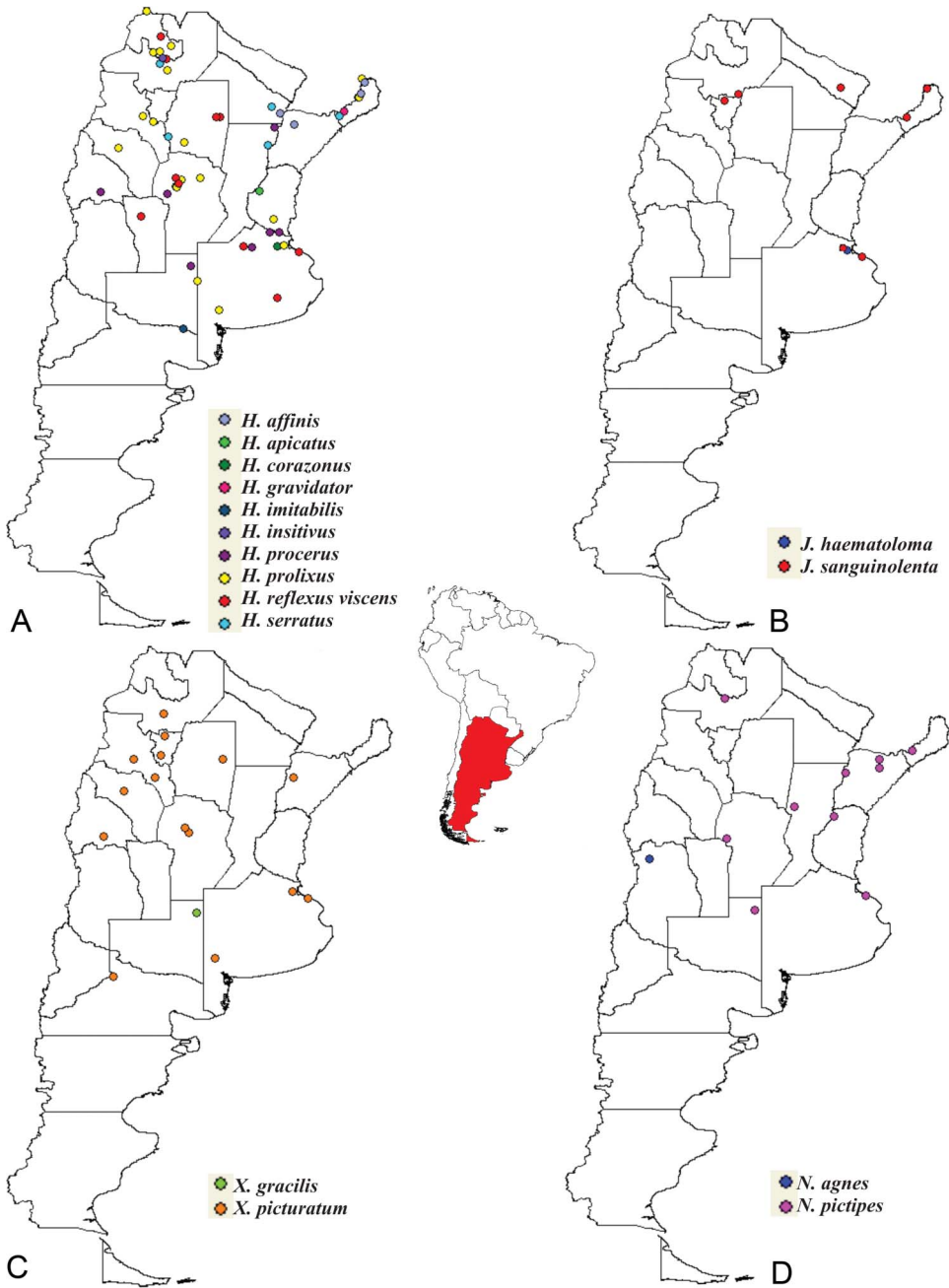


Figure 3(A–D). (A) Geographical distribution of species of genus *Harmostes* in Argentina: *H. affinis*, *H. apicatus*, *H. corazonus*, *H. gravidator*, *H. imitabilis*, *H. insitivus*, *H. procerus*, *H. prolixus*, *H. reflexus viscens*, *H. serratus*. (B) Geographical distribution of species of genus *Jadera* in Argentina: *J. haematoloma*, *J. sanguinolenta*. (C) Geographical distribution of species of genus *Xenogenus* in Argentina: *X. gracilis*, *X. picturatum*. (D) Geographical distribution of species of genus *Niesthrea* in Argentina: *N. agnes*, *N. pictipes*.

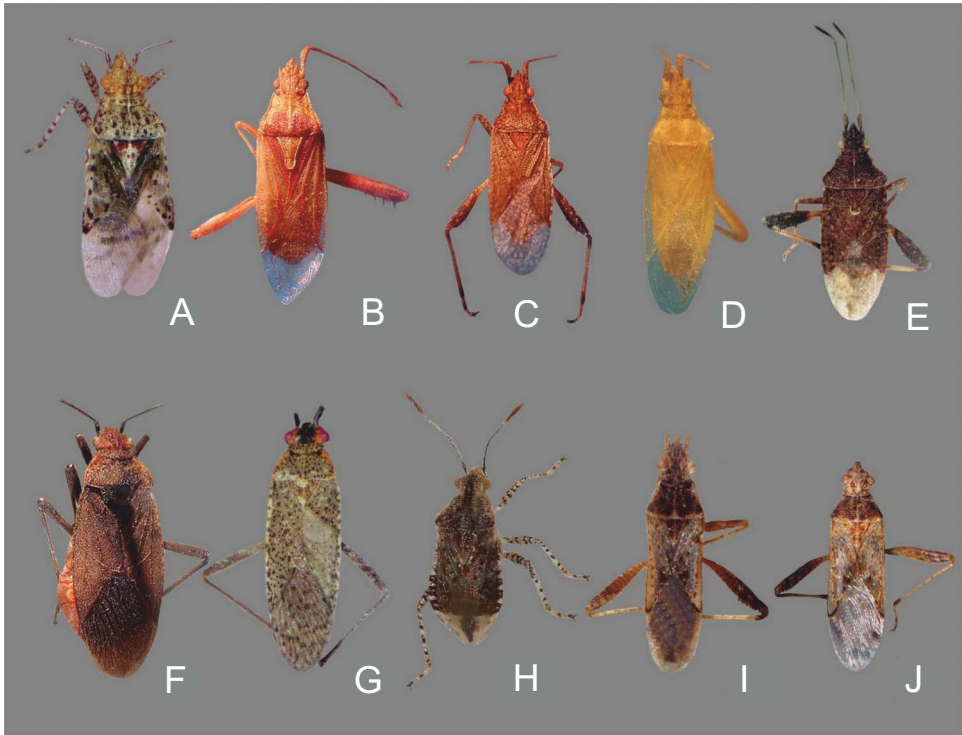


Figure 4(A–J). (A) *Niesthrea (Corizus) pictipes*; (B) *Harmostes procerus*; (C) *H. prolixus*; (D) *H. reflexus viscens*; (E) *H. serratus*; (F) *Jadera haematoloma*; (G) *J. sanguinolenta*; (H) *Niesthrea* sp.; (I) *Xenogenus gracilis*; (J) *X. pituratum*.

1901: 540; Barber 1906: 272; Van Duzee 1916: 15; Blatchley 1926: 286; Blöte 1934: 269; Froeschner 1942: 596; Bayard 1943: 30; Barber and Bruner 1947: 88; Chopra 1967: 387; Göllner-Scheiding 1979: 57; Göllner-Scheiding 1983: 180.

Lygaeus marginalis Walker, 1872: 45; Göllner-Scheiding 1983: 180.

Jadera haematoloma Pennington 1920: 16; Göllner-Scheiding 1979: 59.

Studied material. **Argentina:** Buenos Aires: José C. Paz (34°30' S, 58°45' W).

Distribution. Argentina: Buenos Aires: José C. Paz; Colombia; México; Venezuela.

Jadera obscura (Westwood)

Pyrrhotes obscura Westwood, 1842: 26; Stål 1870: 226; Walker 1873: 40; Berg 1878: 188; Distant 1882: 172; Lethierry and Severin 1894: 124; Pennington 1922: 169; Blöte 1934: 269; Torre-Bueno 1941: 100; Bayard 1943: 36; Barber and Bruner 1947: 88; Göllner-Scheiding 1979: 61; Göllner-Scheiding 1983: 180.

Serinettha discolor Stål, 1860: 32; Walker 1871: 145. In http://www2.nrm.se/en/het_nrm/d/jadera_discolor.html

Jadera lateralis Stål, 1862: 307; Stål 1870: 226. In http://www2.nrm.se/en/het_nrm/o/jadera_obscuralateralis.html

Jadera abdominalis Walker, 1871: 145; Lethierry and Severin 1894: 124.

Jadera obscura Berg, 1878: 188; Pennington 1920: 16.

Distribution. Argentina: Misiones: Corpus; Brazil.

Jadera parapectoralis Göllner-Scheiding

Jadera parapectoralis Göllner-Scheiding, 1979: 62; Göllner-Scheiding 1983: 181.

Distribution. Argentina; Brazil.

Jadera sanguinolenta (Fabricius)

(Figure 3B and Figure 4G)

Cimex sanguinolentus Fabricius, 1775: 721; Goeze 1778: 257; Fabricius 1781: 365; Walker 1871: 144; Berg 1878: 189; Distant 1901: 429; Bergroth 1913: 165; Pennington 1922: 170; Blatchley 1926: 286; Blöte 1934: 269; Costa Lima 1940: 93; Torre-Bueno 1941: 101; Barber and Bruner 1947: 88; Göllner-Scheiding 1979: 66; Froeschner 1981: 92; Göllner-Scheiding 1983: 182.

Cimex cruentus Fabricius, 1787: 301; Fabricius 1794: 159; Göllner-Scheiding 1983: 182.

Jadera sanguinolenta Berg, 1878: 189; Lethierry and Severin 1894: 124; Pennington 1920: 16; Bayard 1943: 14; Quintanilla, Margheritis and Rizzo 1976: 120; Quintanilla, Rizzo and Núñez 1981: 150; Göllner-Scheiding 1983: 182.

Jadera rubrofusca Barber, 1923: 2; Barber 1939: 328; Göllner-Scheiding 1983: 182. In http://research.amnh.org/iz/types_db/details.php?specimen_id=5745

Jadera sanguinolenta Viana and Williner, 1972: 27; Göllner-Scheiding 1983: 182.

Studied material. **Argentina:** Buenos Aires: La Plata (34°54' S, 57°56' W). **Argentina:** Formosa: Pirané (25°43' S, 59°06' W). **Argentina:** Misiones: Loreto (27°19' S, 55°32' W), Iguazú (25°46' S, 54°26' W). **Argentina:** Salta: San Lorenzo (26°06' S, 64°38' W). **Argentina:** Tucumán: Trancas (26°25' S, 65°24' W).

Distribution. Argentina: Buenos Aires: la Plata; Catamarca; Córdoba; Corrientes: Esquina; Entre Ríos; Formosa: Pirané; La Pampa; Mendoza; Misiones: Eldorado, Iguazú, Loreto; Rio Negro; San Luis; Santa Fé; Salta: San Lorenzo; Tucumán: Trancas; Jujuy; Puerto Rico.

Remarks. These are the first record of this species for Corrientes, Jujuy, La Pampa, Mendoza and Río Negro.

Genus *Harmostes* Burmeister

(Figure 1J)

Harmostes Burmeister, 1835: 307. Type species: *Harmostes dorsalis* Burmeister, monotypic.

Note: Göllner-Scheiding (1978) revised this genus and included a key (pp.307–310) to its two subgenera and 25 species, the following year she presented additional information on the genus (Göllner-Scheiding 1979).

Diagnosis. Body oblong oval to elongate oval; vertex relatively flat; pronotum generally with median line slightly raised, without linear elevations on either side of mid-line; metapleuron not divided; humeral angle not produced; hind margin truncate, or notched just below humeral angle; thorax and abdomen grooved for labium; hind femora generally with more than three thick spines; extending to, or beyond tip terga fused; third and fourth tergal sutures obliterated hemelytra covering abdominal connexiva.

Harmostes apicatus Stål

In http://www2.nrm.se/en/het_nrm/a/harmostes_apicatus.html

(Figure 3A)

Harmostes apicatus Stål, 1859: 238; Berg 1878: 184; Pennington 1920: 16; Harris 1942: 195; Viana and Williner 1972: 27; Quintanilla, Rizzo and Núñez 1981: 149; Göllner-Scheiding 1983: 132.

Harmostes (Neoharmostes) apicatus Göllner-Scheiding 1983: 131; Stål 1859: 238; Walker 1872: 14; Berg 1878: 184; Lethierry and Severin 1894: 114; Gibson 1917: 444; Pennington 1922: 165; Jensen-Haarup 1924: 327,330; Blöte 1934: 253; Torre-Bueno 1941: 86; Harris 1942: 28; Göllner-Scheiding 1978: 292.

Studied material. **Argentina:** Córdoba: Carlos Paz (31°25' S, 64°30' W), Río San José (31°21' S, 64°32' W). **Argentina:** Misiones: El Dorado (26°23' S, 54°37' W), Montecarlo (26°34' S, 54°45' W), Belgrano (2°21' S, 55°53' W). **Argentina:** San Juan: Villa Aberastein (31°39' S, 68°35' W). **Argentina:** Santa Fé: Guadalupe (31°37' S, 60°4' W), Reconquista (29°08' S, 59°38' W).

Distribution. Argentina: Buenos Aires; Catamarca; Córdoba: Río San José; Carlos Paz; Corrientes; Entre Ríos; La Pampa; La Rioja; Mendoza; Misiones: El dorado, Montecarlo, Belgrano; San Luis; San Juan: Villa Aberastein; Santa Fé: Guadalupe, Reconquista; Santiago del Estero; Tucumán; México; Bolivia; Brazil; Chile; Paraguay; Uruguay.

Remarks. These are the first records of this species for Buenos Aires and Entre Rio.

Harmostes brevispinus Blöte

Harmostes brevispinus Blöte, 1934: 253; Harris 1944: 191; Göllner-Scheiding 1978: 270; Göllner-Scheiding 1983: 125.

Distribution. Argentina; Bolivia.

Harmostes corazonus Distant

(Figure 3A)

Harmostes corazonus Distant, 1893: 85; Lethierry and Severin 1894: 114; Gibson 1917: 446; Harris 1944: 191; Göllner-Scheiding 1978: 295; Froeschner 1981: 91; Göllner-Scheiding 1983: 132.

Harmostes gemellus Harris, 1942: 31; Harris 1944: 191.

Studied material. **Argentina:** Buenos Aires: Luján (34°33' S, 59°07' W).

Distribution. Argentina: Buenos Aires, Luján; Chile; Ecuador; Perú.

Harmostes corizoides Jensen-Haarup

Harmostes corizoides Jensen-Haarup, 1924: 328; Harris 1944: 195; Göllner-Scheiding 1978: 297; Göllner-Scheiding 1983: 132.

Distribution. Argentina: Misiones; Mendoza; Río Negro; Salta; Cafayate.

Harmostes dorsalis Burmeister

Harmostes dorsalis Burmeister, 1835: 307; Dohrn 1859: 31; Stål 1870: 221; Walker 1872: 14; Distant 1881: 168; Lethierry and Severin 1894: 114; Gibson 1917: 444; Blöte 1934: 254; Harris 1942: 29; Chopra 1967: 382; Göllner-Scheiding 1978: 273; Göllner-Scheiding 1983: 126.

Harmostes subrufus Distant, 1881: 167; Lethierry and Severin 1894: 115; Van Duzee 1916: 14; Gibson 1917: 445; Blöte 1934: 254; Torre-Bueno 1941: 90; Harris 1944: 191; Göllner-Scheiding 1983: 126.

Harmostes croceus Gibson, 1917: 445; Torre-Bueno 1941: 91; Göllner-Scheiding 1983: 126.

Distribution. Argentina; Mexico.

Harmostes gravidator (Fabricius)

Coreus gravidator Fabricius, 1794: 133; Fabricius 1803: 199; Westwood 1842: 6; Stål 1864: 67; Göllner-Scheiding 1978: 279; Göllner-Scheiding 1983: 127.

1852 *Harmostes perpunctatus* Dallas, 1852: 521; Dohrn 1859: 31; Stål 1860: 56; Banks 1910: 73; Gibson 1917: 444; Göllner-Scheiding 1983: 126.

Harmostes serratus Berg, 1878: 183.

Studied material. **Argentina:** Misiones: Loreto (27°19' S, 55°32' W), Iguazú (25°46' S, 54°26' W), Caraguay (26°36' S, 54°46' W).

Distribution. Argentina: Buenos Aires; Corrientes; Misiones: Loreto, Iguazú, Caraguay; Bolivia; Brazil, Colombia; Peru; Venezuela.

Remarks. These are the first records of this species for Misiones.

Harmostes imitabilis Harris

(Figure 3A)

Harmostes imitabilis Harris, 1942: 30; Harris 1944: 196; Göllner-Scheiding 1978: 305; Göllner-Scheiding 1983: 133.

Studied material. **Argentina:** Río Negro: Río Colorado (38°59' S, 64°09' W).

Distribution. Argentina: Buenos Aires: Luján; Corrientes; Catamarca; Mendoza; Neuquén; Río Negro: Río Colorado.

Harmostes insitivus Harris

Harmostes insitivus Harris, 1942: 31; Harris 1944: 191; Göllner-Scheiding 1978: 298; Göllner-Scheiding 1983: 133.

Studied material. **Argentina:** Jujuy: Urquiza (24°29' S, 65°16' W).

Distribution. Argentina: Jujuy: Urquiza; Chile.

Harmostes marmoratus (Blanchard)

Merocoris marmoratus Blanchard, 1852: 166; Stål 1870: 220; Walker 1872: 144; Lethierry and Severin 1894: 114; Reed 1899: 44; Gibson 1917: 446; Jensen-Haarup 1924: 327.330; Torre-Bueno 1941: 86; Harris 1942: 29; Göllner-Scheiding 1978: 299; Göllner-Scheiding 1983: 133.

Distribution. Argentina; Chile; Peru.

Harmostes minor (Spinola)

Merocoris minor Spinola, 1852: 165; Dohrn 1859: 31; Stål 1870: 220; Lethierry and Severin 1894: 114; Gibson 1917: 448; Harris 1942: 258; Göllner-Scheiding 1978: 301; Göllner-Scheiding 1983: 133.

Harmostes chilensis Dallas, 1852: 165; Dohrn 1859: 31; Walker 1872: 13; Reed 1899: 43; Torre-Bueno 1941: 91; Göllner-Scheiding 1983: 133.

Distribution. Argentina: Tucumán; Chile.

Harmostes parafraterculus Göllner-Scheiding

In http://research.amnh.org/iz/types_db/details.php?specimen_id=5742

Coreus gravidator Fabricius, 1794: 133; Frabricius 1803: 199; Westwood 1842: 6; Stål 1860: 67; Göllner-Scheiding 1978: 279; Göllner-Scheiding 1983: 127.

Harmostes perpunctatus Dallas, 1852: 521; Dohrn 1859: 31; Stål 1860: 56; Banks 1910: 73; Gibson 1917: 444; Göllner-Scheiding 1983: 127.

Harmostes (Harmostes) parafraterculus Göllner-Scheiding, 1978: 311; Göllner-Scheiding 1983: 128.

Distribution. Argentina; Brazil.

***Harmostes petulans* Harris**

Harmostes petulans Harris, 1942: 30; Harris 1944: 196; Göllner-Scheiding 1978: 302; Göllner-Scheiding 1983: 134.

Distribution. Argentina; Bolivia; Peru; Uruguay.

***Harmostes procerus* Berg**

(Figure 3A and Figure 4B)

Harmostes procerus Berg, 1878: 185; Berg 1895: 196, 197; Berg 1896: 132; Breddin 1897: 26; Gibson 1917: 443; Pennington 1920: 16; Pennington 1922: 166; Jensen-Haarup 1924: 327, 329; Torre-Bueno 1941: 86; Harris 1944: 196; Quintanilla, Margheritis and Rizzo 1968: 31; Göllner-Scheiding 1978: 304; Göllner-Scheiding 1983: 134; Coscarón *et al.* 2000: 4.

Studied material. **Argentina:** Buenos Aires: Baradero (33°48' S, 59°30' W), Chacabuco (34°38' S, 60°27' W). **Argentina:** Catamarca: La Viña (28°0' S, 65°35' W). **Argentina:** Córdoba: La Granja (31°01' S, 64°15' W), Nono (31°45' S, 64°59' W). **Argentina:** Entre Ríos: Gualeguay (33°08' S, 59°19' W), Puerto Constanza (33°48' S, 59°02' W). **Argentina:** La Pampa: General Pico (35°39' S, 63°44' W). **Argentina:** San Juan: Villa Arberastein (31°39' S, 68°35' W). **Argentina:** Santa Fé: El Rabón (28°12' S, 59°17' W).

Distribution. Argentina: Buenos Aires: Chacabuco, Baradero; 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 Arberastein; Santa Cruz; Santa Fé: El Rabón; Santiago del Estero; Tucumán; Patagonia; Peru; Uruguay.

Remarks. These are the first record of this species for, Catamarca, Corrientes and Tierra del Fuego.

***Harmostes prolixus* Stål**

In http://www2.nrm.se/en/het_nrm/p/harmostes_prolixus.html

(Figure 3A and Figure 4C)

Harmostes prolixus Stål, 1860: 37; Stål 1870: 221; Walker 1872: 14; Berg 1878: 184; Lethierry and Severin 1894: 114; Pennington 1920: 16; Pennington 1922: 165; Jensen-Haarup 1924: 327; Blöte 1934: 254; Torre-Bueno 1941: 85; Harris 1942: 27; Harris 1944: 196; Viana and Williner 1972: 27; Quintanilla, Rizzo and Núñez 1981: 150; Göllner-Scheiding 1978: 284; Göllner-Scheiding 1983: 128.

Studied material. **Argentina:** Buenos Aires: Tornquist (38°01' S, 62°13' W), José C. Paz (31°25' S, 64°30' W), Sierras de Tandil (37°21' S, 59°07' W). **Argentina:** Catamarca: Andalagalá (27°34' S, 66°18' W). **Argentina:** Córdoba: Carlos Paz (31°25' S, 64°30' W), La Granja (31°01' S, 64°15' W), La Cabaña (31°13' S, 64°24' W), La Puerta (30°53' S, 63°15' W). **Argentina:** Entre Ríos: Gualeguay (33°08' S, 59°19' W). **Argentina:** Jujuy: Ledesma (23°49' S, 64°47' W), Yala (24°07' S, 65°24' W), Santa Catalina (21°57' S, 66°07' W), Uquia (24°29' S, 65°16' W). **Argentina:** La Pampa: Catrilo (36°25' S, 63°24' W). **Argentina:** La Rioja: Sañagosta (29°18' S, 67°35' W). **Argentina:** Misiones: El Dorado (26°23' S, 54°37' W), Iguazú (25°35' S, 54°34' W), Montecarlo (26°34' S, 54°45' W), Apóstoles (27°54' S, 65°45' W). **Argentina:** Río Negro: Río Colorado (28°59' S, 64°05' W). **Argentina:** Salta: Juramento (25°08' S, 64°59' W), Mojón (24°11' S, 65°45' W).

Distribution. Argentina: Buenos Aires: Tornquist, José C. Paz, Sierras de Tandil; Catamarca: Andalagalá; Córdoba: Carlos Paz, La Granja, La Cabaña, La Puerta; Corrientes; Entre Ríos: Gualeguay; Jujuy: Ledesma, Yala, Santa Catalina, Uquia; La Pampa: Catrilo; La Rioja: Sañagosta; Misiones: El Dorado, Iguazú, Montecarlo, Apóstole; Río Negro: Río Colorado; Salta: Juramento, Mojón; Brazil; Bolívia; México; Paraguay; Peru; Uruguay.

Remarks. These are the first records of this species for Catamarca Corrientes, Jujuy, Neuquén, Río Negro, Salta and San Juan.

Harmostes reflexus viscens (Dallas) (Figure 4D)

Syromastes reflexus Say, 1831: 10; Stål 1870: 220; Uhler 1876: 300; Provancher 1885: 64; Lethierry and Severini 1894: 114; Banks 1910: 73; Van Duzee 1916: 14; Gibson 1917: 447; Blatchley 1926: 273; Downes 1927: 7; Blöte 1934: 254; Torre-Bueno 1941: 90; Froeschner 1942: 602; Harris 1944: 191; Hoffman 1975: 105; Göllner-Scheiding 1978: 285; Göllner-Scheiding 1983:129.

Harmostes costalis Herrich-Schäeffler, 1851: 270; Göllner-Scheiding 1983: 129.

Harmostes reflexus viscens Dallas, 1852: 520; Dohrn 1859: 31; Walker 1872: 13; Gillette and Baker 1895: 20; Göllner-Scheiding 1983: 130.

Harmostes bicolor Distant, 1881: 167; Lethierry and Severin 1894: 114; Gibson 1917: 447; Torre-Bueno 1941: 91; Harris 1944: 191; Göllner-Scheiding 1983: 129.

Harmostes brusei Bergroth, 1913: 166; Bergroth 1913: 162; Göllner-Scheiding 1983: 129.

Studied material. **Argentina:** Buenos Aires: La Plata (34°54' S, 57°56' W), Junín (34°34' S, 60°56' W), Sierras de Tandil (37°21' S, 59°07' W). **Argentina:** Córdoba: Villa Dolores (30°54' S, 64°31' W), La Cabaña (31°13' S, 64°24' W). **Argentina:** Jujuy: Pampa Blanco (24°31' S, 65°04' W), Uquia (23°18' S, 65°21' W). **Argentina:** San Luis: Nogolí (32°58' S, 66°25' W). **Argentina:** Santiago del Estero: Quimilí (27°38' S, 62°24' W), Girardot (27°37' S, 62°10' W).

Distribution. Argentina: Buenos Aires: La Plata, Junín, Sierras de Tandíl; Córdoba: Villa Dolores, La Cabaña; Jujuy: Pampa Blanco, Uquia; San Luis: Nogolí; Santiago del Estero: Quimilí, Girardot; Cuba; México; North América.

Remarks. These are the first records of this species for Buenos Aires, Córdoba, Jujuy, San Luis and Santiago del Estero.

Harmostes serratus (Fabricius) (Figure 4E)

Acanthia serrata Fabricius, 1775: 695; Fabricius 1781: 338; Rossi 1790: 225; Fabricius 1794: 75; Stål 1868: 67; Walker 1872: 407; Distant 1881: 16; Provancher 1885: 64; Lethierry and Severin 1894: 115; Banks 1910: 73; Van Duzee 1916: 14; Gibson 1917: 444; Pennington 1922: 164; Jensen-Haarup 1924: 327; Torre-Bueno 1941: 89; Harris 1942: 28; Froeschner 1981: 91; Göllner-Scheiding 1978: 287; Göllner-Scheiding 1983: 130.

Harmostes affinis Dallas, 1852: 522; Dohrn 1859: 31; Stål 1870: 220; Walker 1872: 14; Lethierry and Severin 1894: 114; Banks 1910: 72; Van Duzee 1916: 442; Barber 1939: 326; Torre-Bueno 1941:89; Harris 1942: 28; Göllner-Scheiding 1983: 131.

Harmostes serratus Berg, 1878: 183; Pennington 1920: 16; Quintanilla, Margheritis and Rizzo 1976: 120; Göllner-Scheiding 1978; Quintanilla, Rizzo and Núñez 1981: 150; 287; Göllner-Scheiding 1983: 130.

Harmostes ochraceus Blöte, 1934: 254; Harris 1944: 191; Göllner-Scheiding 1983: 131.

Studied material. **Argentina:** Chaco: La Escondida (27°06' S, 59°26' W). **Argentina:** Corrientes: Mburucuya (28°03' S, 58°13' W). **Argentina:** Misiones: Pindapoy (27°35' S, 55°49' W). **Argentina:** Salta: Santa Laura (24°45' S, 65°24' W). **Argentina:** Santa Fé: Reconquista (29°08' S, 59°38' W). **Argentina:** Santiago del Estero: La Aurora (28°43' S, 64°56' W).

Distribution. Argentina: Buenos Aires; Corrientes: Paso de los libres, San Cosme, Santo Romé; Catamarca; Chaco: La Escondida; Córdoba; Corrientes: Mburucuya; Entre Ríos; La Pampa; La Rioja; Misiones: Belgrano, Cainguás, Pindopoy; Santiago del Estero; Santa Fé: Reconquista; Santiago del Estero: La Aurora; North, Central and South América.

Remarks. These are the first record of this species for Chaco and Jujuy.

Harmostes signoreti Reed

Harmostes signoretii Reed, 1899: 43; Bergroth 1913: 162; Torre-Bueno 1941: 84; Harris 1944: 196; Göllner-Scheiding 1978: 289; Göllner-Scheiding 1983: 131.

Distribution. Argentina; Chile.

Genus *Xenogenus* Berg

(Figure 2C)

Xenogenus Berg, 1883: 252. Type of genus: *Xenogenus picturatum*, monotypic.

Diagnosis. Body elongate; head longer than broad; first antennal segment shorter than median length of head; slightly surpassing tylus; fourth antennal segment as long as or longer than third; pronotum broader than long; mesosternum grooved for labium; hind femora incrassate with two rows of small spines of uniform length; reaching tip of abdomen; hind tibiae slender; first hind tarsal segment one and a half times as long as second and third together; all tergal sutures obliterated; no brachypterous forms known; hemelytra covering abdominal connexiva.

Xenogenus gracilis Reed

(Figure 3C and Figure 4I)

Harmostes gracilis Reed, 1899: 44; Bergroth 1913: 162; Torre-Bueno 1941: 84; Harris 1942: 360; Göllner-Scheiding 1980: 119; Göllner-Scheiding 1983: 110.

Xenogenus picturatum Berg

(Figure 3C and Figure 4J)

Xenogenus picturatum Berg, 1883: 253; Lethierry and Severin 1894: 115; Pennington 1920: 16; Torre-Bueno 1941: 92; Göllner-Scheiding 1983: 110; Coscarón *et al.* 2000: 4.

Studied material. **Argentina:** Buenos Aires: La Plata (34°54' S, 57°56' O), Felipe Sola (38°00' S, 62°48' W), José C. Paz (34°30' S, 58°45' W). **Argentina:** Catamarca: Miraflores (28°36' S, 65°55' W), Belén (27°39' S, 67°01' W). **Argentina:** Córdoba: La Huerta (31°27' S, 64°09' W), La Cabaña (31°12' S, 64°21' W); **Argentina:** San Juan: Villa Aberastein (31°39' S, 68°35' W). **Argentina:** La Rioja: Nonogasta (29°18' S, 67°30' W). **Argentina:** Neuquén: Lago Currhúe (38°56' S, 68°05' W). **Argentina:** Salta: Güemes (34°30' S, 58°45' W), Coronel Moles (25°16' S, 65°28' W). **Argentina:** Santiago del Estero: Quimilí (27°38' S, 62°24' W). **Argentina:** Tucumán: Trancas (26°25' S, 65°24' W), La Cocha (27°25' S, 65°35' W).

Distribution. Argentina: Buenos Aires: La Plata, Felipe Sola, José C. Paz; Catamarca: Miraflores, Belén; Córdoba: La Huerta, La Cabaña; Corrientes; Entre Ríos; La Pampa; La Rioja: Nonogasta; Mendoza; Misiones; Neuquén: Lago Currhúe; La Rioja; San Luis; Salta: Güemes, Coronel Moles; San Juan: Villa Aberastein; Santiago del Estero: Quimilí; Tucumán: Trancas, La Cocha.

Remarks. These are the first records of this specie for Jujuy and Neuquén.

Xenogenus extensum Distant

Xenogenus extensum Distant, 1893: 461; Brailovsky and Soria 1981: 153.

Distribution. Argentina; Mexico.

Genus *Liorhyssus* Stål

(Figure 2E)

Corizus (*Liorhyssus*) Stål, 1870: 122. Type species: *Corizus* (*Liorhyssus*) *hyalinus*.

Diagnosis. Body elongate oval; head less than one and a half times as broad as long, not decumbent; bucculae tapering posteriorly; lateral projections of antenniferous tubercle small; pronotum with a distant collar anteriorly; area between collar and cicatrices raised, shiny and impunctate; episternum heavily punctuate; mesosternum and metasternum grooved for labium; labium reaching metasternum; seventh connexival suture absent; clavus and corium hyaline; hemelytra punctuate along outer margin; almost covering abdominal connexiva.

Liorhyssus hyalinus (Fabricius)

Lygaeus hyalinus Fabricius, 1794: 168; Fabricius 1803: 201; Billberg 1820: 69; Dohrn 1859: 31; Stål 1868: 68; Walker 1872: 22; Stål 1873: 98; Uhler 1876: 300; Ferrari 1878: 62; Jakovlev 1879: 62; Puton 1881: 116; Distant 1882: 169; Provancher 1885: 65; Puton 1886: 18; Reuter 1888: 541; Lethierry and Severin 1894: 117; Distant 1902: 416; Kirkaldy 1902: 170; Matsumura 1905: 16; Barber 1906: 271; Oshanin 1906: 220; Kirkaldy 1907: 146; Baker 1908: 243; Banks 1910: 72; Oshanin 1912: 25; Horváth 1916: 6; Van Duzee 1916:14; Gibson 1919: 90; Barber 1929: 22; Butler 1923: 114; Seabra 1925: 25; Stichel 1925: 428; Blatchley 1926: 279; Readio 1928: 189; Matsumura 1931: 1193; Blöte 1934: 257; Barber 1939: 402; Costa Lima 1940: 93; Seabra 1941: 15; Torre-Bueno 1941: 286; Froeschner 1942: 603; Harris 1942: 360; Kiritshenko 1948: 286; Zimmermann 1948:45; Kiritshenko 1951: 315; Dupuis 1953: 73; Lindberg 1953: 52; Priesner and Alfieri 1953: 36; Miller 1956: 58; Putshkov and Putshkova 1956: 218; Putshkova 1957: 44; Wagner 1961: 142; Putshkov 1962: 115; Kerzner and Jaczewski 1964: 817; Chopra 1967: 375; Hoffman 1975: 44; Göllner-Scheiding 1976: 189; Hoberlandt 1977: 79; Froeschner 1981: 91; Tamanini 1981: 154; Göllner-Scheiding 1983: 61.

Corizus gracilis Herrich-Schäffer, 1835a: 127; Herrich-Schäffer 1835b: 75; Dallas 1852: 528; Costa 1853: 71; Dohrn 1859: 31; Signoret 1859: 88; Walker 1872: 19; Ferrari 1874: 141; Reed 1899: 46; Göllner-Scheiding 1983: 62.

Corizus truncatus Rambur, 1839: 144; Stål 1865: 117; Göllner-Scheiding 1983: 63.

Rhopalus bengalensis Dallas, 1852: 528; Dohrn 1859: 31; Walker 1872: 23; Stål 1873: 98; Lethierry and Severin 1894: 116; Distant 1902: 417; Göllner-Scheiding 1983: 61.

Merocoris maculiventris Spinola, 1852: 170; Signoret 1859: 105; Stål 1870: 224; Walker 1872: 22; Lethierry and Severin 1894: 118; Reed 1899: 47; Göllner-Scheiding 1983: 62.

Rhopalus ruber Dallas, 1852: 525; Dohrn 1859: 31; Stål 1870: 225; Walker 1872: 21; Lethierry and Severin 1894: 119; Chopra 1973: 447; Göllner-Scheiding 1983: 63.

Merocoris microtomus Spinola, 1852: 171; Signoret 1859: 105; Stål 1870: 224; Walker 1872: 22; Lethierry and Severin 1894: 118; Reed 1899: 48; Berg 1900: 86; Göllner-Scheiding 1983: 62.

Corizus quadrilineatus Signoret, 1859: 90; Signoret 1859: 561; Stål 1870: 225; Walker 1872: 21; Lethierry and Severin 1894: 119; Reed 1899: 48; Göllner-Scheiding 1983: 62.

Corizus variegatus Signoret, 1859: 123; Göllner-Scheiding 1983: 63.

Corizus siculus Signoret, 1859: 91; Göllner-Scheiding 1983: 63.

Rhopalus lugens Stål, 1859: 240; Signoret 1859: 92; Stål 1870: 222; Walker 1872: 23; Berg 1878: 188; Lethierry and Severin 1894: 118; Pennington 1922: 167; Göllner-Scheiding 1983: 62. In http://www2.nrm.se/en/het_nrm//corizus_lugens.html

Rhopalus victoris Mulsant and Rey, 1870: 123; Ferrari 1874: 141; Göllner-Scheiding 1983: 63.

Corizus viridicatus Uhler, 1876: 404; Lethierry and Severin 1894: 117; Van Duzee 1916: 14; Göllner-Scheiding 1983: 63.

Corizus (Liorhyssus) lugens Berg, 1878: 188; Pennington 1920: 16.

Corizus lugens Lethierry and Severin, 1894: 118.

Corizus scotti Distant, 1913: 148; Bergroth 1913: 163; Göllner-Scheiding 1983: 63.

Corizus imperialis Distant, 1918: 170; Göllner-Scheiding 1983: 62.

Corizus pronotalis Distant, 1918: 170; Göllner-Scheiding 1983: 62.

Distribution. Argentina: Corrientes; Patagonia.

Liorhyssus lineatovenstris (Spinola)

Merocoris lineato-ventris Spinola, 1852: 168; Signoret 1859: 90; Stål 1870: 224; Walker 1872: 21; Lethierry and Severin 1894: 118; Reed 1899: 48; Berg 1900: 86; Göllner-Scheiding 1976: 461; Göllner-Scheiding 1983: 65.

Merocoris rubescens Blanchard, 1852: 173; Signoret 1859: 95; Stål 1870: 222; Walker 1872: 22; Lethierry and Severin 1894: 119; Berg 1900: 85; Göllner-Scheiding 1983: 66.

Corizus chilensis Reed, 1899: 47; Bergroth 1913: 163; Göllner-Scheiding 1983: 66.

Distribution. Argentina; Chile.

Genus *Niesthrea* Spinola

(Figure 2G and Figure 4H)

Niesthrea Spinola 1852: 245. Type species: *Lygaeus sidae* Fabricius, monotypic.

Note: Chopra (1973) revised *Niesthrea* and illustrated the male pygophore of all 10 included species.

Diagnosis. Body oblong to elongate oval; head with median longitudinal groove; lateral projections of antenniferous tubercles small; ocelli about half as far from eyes as from each other; metasternum not projecting between hind coxae; labium extending to,

or beyond third abdominal sternum; phragma at junction of first and second abdominal terga median and bifurcated in male, absent in females; oblique connexival suture absent, apodeme of seventh sternum single and well developed in male, absent in female; no brachypterous species known.

Niesthrea agnes Chopra

(Figure 3D and Figure 4A)

Niesthrea agnes Chopra, 1973: 455; Göllner-Scheiding 1983: 53.

Studied material. Argentina: Mendoza: Potrerillos (32°57' S, 69°12' W).

Distribution. Argentina: Mendoza: Potrerillos.

Niesthrea josei Göllner-Scheiding

Niesthrea josei Göllner-Scheiding, 1980: 297.

Distribution. Argentina: Salta.

Niesthrea pictipes (Stål)

(Figure 3D)

Rhopalus pictipes Stål, 1859: 239; Stål 1862: 307; Stål 1870: 223; Walker 1872: 23; Berg 1878: 186; Distant 1882: 378; Lethierry and Severin 1894: 119; Barber 1906: 271; Van Duzee 1916: 15; Pennington 1922: 168; Sailer 1961: 297; Chopra 1973: 448; Froeschner 1981: 91; Göllner-Scheiding 1983: 54.

In http://www2.nrm.se/en/het_nrm/p/corizus_pictipes.html

Corizus anticus Signoret, 1859: 99; Stål 1870: 223; Walker 1873: 49; Berg 1878: 187; Lethierry and Severin 1894: 115; Quintanilla, Margheritis and Rizzo 1976: 119; Göllner-Scheiding 1983: 54.

Corizus mexicanus Signoret, 1859: 95; Distant 1882: 171; Göllner-Scheiding 1983: 55.

Corizus nebulosus Signoret, 1859: 98; Göllner-Scheiding 1983: 55.

Corizus proximus Signoret, 1859: 96; Göllner-Scheiding 1983: 55.

Corizus (Niesthrea) anticus Berg, 1878: 187.

Corizus (Niesthrea) pictipes Berg, 1878: 186; Pennington 1920: 16.

Corizus pictipes var. luteolus Distant, 1882: 171; Baker 1908: 244.

Corizus pictipes Lethierry and Severin, 1894: 116; Distant 1882: 171; Quintanilla, Margheritis and Rizzo 1968: 31; Quintanilla, Margheritis and Rizzo 1976: 119; Quintanilla, Rizzo and Núñez 1981: 149.

Studied material. Argentina: Buenos Aires: La Plata (34°54' S, 57°56' W). **Argentina:** Córdoba: Villa Dolores (31°56' S, 65°11' W). **Argentina:** Corrientes: Loreto (27°19' S, 55°32' W); Bella Vista (28°30' S, 59°02' W), Pellegrini (28°13' S, 57°16' W). **Argentina:**

Entre Ríos: La Paz (30°44' S, 59°38' W). **Argentina:** La Pampa: General Pico (35°39' S, 63°44' W). **Argentina:** Santa Fé: Arrufo (30°14' S, 61°41' W). **Argentina:** Salta: J.V. Gonzales (24°38' S, 65°18' W).

Distribution. Argentina: Buenos Aires: La Plata; Córdoba: Villa Dolores; Corrientes: Loreto; Bella Vista, Berón de Astrada, Emperador, Esquina, General Alvear, Itatí, Ituzaingó, Monte Caseros, Paso de los Libres, Pellegrini, San Luis del Palmar, Santo Tomé; Entre Ríos: La Paz; Córdoba; Entre Ríos; La Rioja; La Pampa: General Pico; Mendoza; Misiones: Alem, Belgrano, Cainguás, El dorado, Montecarlo; San Juan; Santa Fé: Arrufo; Salta: J.V. Gonzales; Santiago del Estero; Tucumán; Brazil; Paraguay.

Niesthrea similis Chopra

Niesthrea similis Chopra, 1973: 453; Göllner-Scheiding 1983, 56.

Distribution. Argentina: Misiones: Alto Paraná; Bember.

Niesthrea vincentii (Westwood)

Corizus vincentii Westwood, 1842: 26; Signoret 1859: 103; Stål 1870: 224; Lethierry and Severin 1894: 120; Distant 1901: 332; Blöte 1934: 265; Chopra 1973: 447; Göllner-Scheiding 1983: 56.

Corizus aurantiacus Signoret, 1859: 96; Stål 1870: 225; Lethierry and Severin 1894: 115.

Corizus robustus Westwood, 1842: 26; Signoret 1859: 103; Stål 1870: 224; Lethierry and Severin 1894: 119; Distant 1901: 332; Bergroth 1913: 163.

Distribution. Argentina.

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