



Systematics, Morphology and Biogeography

Notes on distributions for Argentinean Pentatomidae (Heteroptera: Pentatomoidea), with new records in the country



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ABSTRACT

In this contribution, we present new distributional records from Argentina of 63 pentatomid species; three genera (*Caonabo*, *Cromata* and *Taurocerus*) and 14 species (*Marmessulus brasiliensis*, *Podisus crassimargo*, *Cromata ornata*, *Acletra haematopa*, *Caonabo pseudocylax*, *Dichelops avilapiresi*, *Euschistus cribarius*, *E. paranticus*, *Mormidea maculata*, *Rio indistinctus*, *Banasa lanceolata*, *B. nigrifrons*, *Pallantia macunaima*, and *Taurocerus edessoides*) are reported for the first time from Argentina; also we provided 81 new province records of another 49 species.

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Introduction

Pentatomidae is one of the largest families within the Heteroptera, containing nearly 900 genera and 5000 species (Henry, 2009; Rider, 2012). This family is well represented in all biogeographical regions, and it has been divided into several subfamilies, five of which have members occurring in Argentina: Asopinae, Discocephalinae, Edessinae, Pentatominae, and Podopinae (Kormilev and Pirán, 1952; Grazia and Schwertner, 2008).

The phytophagous habit is the ancestral condition in the family. The majority of the species feed on different parts of the host plants, for example fruits, flowers, and specially seeds (Schuh and Slater, 1995; Grazia and Schwertner, 2008). Among these phytophagous species, some are considered crop pests (Panizzi et al., 2000); members of the Edessinae feed on Solanaceae and Leguminosae (Panizzi, 2004; Frana et al., 2008), and some Pentatominae are pests of major crops of Argentina such as soy, sunflower, alfalfa, snuff, rice, and potato (Rizzo, 1976; Frana et al., 2008). On the other hand, Asopinae is the only group whose members are predators, and contains important species used as biological control agents in

agricultural ecosystems, for example the species of genus *Podisus* Herrich-Schaeffer (De Clercq, 2002).

The diversity and distribution of Pentatomidae in Argentina is known mainly by scattered works, dealing with systematics (e.g. Berg, 1878–1884, 1891, 1892; Pennington, 1920; Pirán, 1948, 1956a,b, 1958, 1959a,b, 1961, 1962a,b, 1963a, 1970; Kormilev, 1955, 1956a,b), regional listings (e.g. Montandon, 1895; Hayward, 1960; Viana and Williner, 1972, 1978; Quintanilla et al., 1968, 1975–1976, 1981; Arnold, 2011) and agricultural issues (e.g. Bosq, 1937, 1940; Rizzo, 1976). Grazia and Schwertner (2008) reviewed the knowledge of the Argentinean Pentatomidae, listed the species and provided general information about habitats, food habits and geographical distribution. The purpose of this contribution is to give new records and distribution expansions of Argentinean Pentatomidae. We also include comments and complementary information not available in previous works.

Material and methods

The specimens studied are deposited in the entomological collection of the Museo de la Plata (MLP) and David A. Rider Collection (DARC). The specimens deposited in the first collection were preserved in 96% ethanol, then mounted in the lab, and were examined under a Nikon SMZ 1000 stereomicroscope. For identification of subfamily level, the keys of Rolston and McDonald (1979) and Grazia and Schwertner (2008) were used. For identification of

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generic level, the keys of Rolston et al. (1980) and Rolston and McDonald (1981, 1984) were used. The genitalia (the pygophore and female abdomen) were prepared with a saturated KOH solution for observation and specific identification when necessary, and preserved in microvials with glycerin.

Results

Asopinae

Marmessus brazilianus Schouteden

Known distribution: Brazil (Thomas, 1992).

Examined material: 1 female, CÓRDOBA, H. Stempelmann col. (DARC); 1 female, ENTRE RÍOS, 22 km E of Bassavilbaso, Hwy., 39, 14-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Argentina].

Oplomus festivus Dallas

Known distribution: Argentina (Corrientes, Salta, Santa Fe, and Tucumán), Bolivia, Brazil, Colombia, Ecuador, Panama, Paraguay, Peru, Surinam, and Venezuela (Thomas, 1992; Dellapé et al., 2003).

Examined material: 1 male, MISIONES, Dos de Mayo, 10-I-1989 (DARC); 1 female, MISIONES, Dos de Mayo, 1-II-1989 (DARC) [First record from Misiones Province].

Remarks: Listed as *Oplomus marginalis* Westwood by Grazia and Schwertner (2008). See Rider and Rolston, 1995.

Oplomus punctatus Montandon

Known distribution: Argentina (Buenos Aires, Salta, and Tucumán) (Montandon, 1895; Thomas, 1992; Carpintero and De Biase, 2011).

Examined material: 1 female, CATAMARCA, Yunka Suma, 15-XII-1947, F. Monrós col. (DARC); 1 male, CATAMARCA, Rodeo, 15-I-1958, R. Golbach col. (DARC) [First record from Catamarca Province].

Oplomus salamandra (Burmeister)

Known distribution: Argentina (Jujuy, Misiones, Salta, and Santiago del Estero), Bolivia, Colombia, Ecuador, Paraguay, Peru, Surinam, and Venezuela (Thomas, 1992; Dellapé et al., 2003; Grazia and Schwertner, 2008).

Examined material: 1 male, CATAMARCA, La Merced, II-1993 (DARC) [First record from Catamarca Province].

Podisus crassimargo (Stål)

Known distribution: Brazil, Chile, Colombia, Ecuador, Panama, and Venezuela (Thomas, 1992).

Examined material: 1 female, MISIONES, Eldorado, 10-X-1967 (identified by D.B. Thomas) (DARC) [First record from Argentina].

Podisus nigrispinus (Dallas)

Known distribution: Argentina (Buenos Aires, Corrientes, Chaco, Entre Ríos, Jujuy, Mendoza, Misiones, Salta, Santiago del Estero, and Tucumán), Bolivia, Brazil, Colombia, Costa Rica, Ecuador, Guyana, Panama, Paraguay, Peru, Uruguay, and Surinam (Thomas, 1992; Dellapé et al., 2003; Grazia and Schwertner, 2008).

Examined material: 1 female, CATAMARCA, La Merced, II-1993 (DARC); 2 females, CATAMARCA, 5 km N of Los Altos, 498 m, 28°0.354 S 65°33.921 W, 27-II-2006, D.A. Rider col. (DARC); 1 female, CATAMARCA, 10 km NE of La Merced, 775 m, 28°4.000 S 65°36.859 W, 5-III-2006, D.A. Rider col. (DARC); 2 females, CÓRDOBA, 2 km S of Villa Gen. Belgrano, 695 m, 32°0.306 S 64°33.601 W, 23-II-2006, D.A. Rider col. (DARC) [First record from Catamarca and Córdoba Provinces].

Podisus pallipes (Dallas)

Known distribution: Argentina, Brazil, Ecuador, and Venezuela (Thomas, 1992).

Examined material: 1 male, 2 females, MISIONES, Victoria, 28-IX-1967 (DARC); 1 female, MISIONES, Eldorado, 18-VIII-1967 (DARC); 1 male, MISIONES, Eldorado, 4-IX-1967 (DARC) [First record from Misiones].

Supputius cincticeps (Stål)

Known distribution: Argentina, Bolivia, Chile, Paraguay, and Venezuela (Thomas, 1992).

Examined material: 1 female, ENTRE RÍOS, Depto. Colón, II-1990, Liebig col. (DARC); 1 female, MISIONES, Dos de Mayo, IV-1994 (DARC) [First record from Entre Ríos and Misiones Provinces].

Tylospilus nigrobinotatus (Berg)

Known distribution: Argentina (Buenos Aires, Chaco, Corrientes, and Río Negro), Brazil, and Uruguay (Berg, 1879; Thomas, 1992; Dellapé et al., 2003).

Examined material: 4 males, 7 females, CATAMARCA, 3 km SW of San José, 1996 m, 26°49.167 S 66°4.159 W, 2-III-2006, D.A. Rider col. (DARC) [First record from Catamarca].

Discocephalinae

Discocephalini

Alveostethus politus (Signoret)

Known distribution: Argentina (Tucumán) (Montandon, 1895), Brazil, Colombia, Peru, and Venezuela (Ruckes, 1966a).

Examined material: 1 male, MISIONES, Delicia, 19-IX-1967 (DARC); 1 female, SALTA, Orán, Abra Grande, 10-I/28-II-1967, R. Golbach col. (DARC) [First record from Misiones and Salta provinces].

Remarks: This species not was listed by Grazia and Schwertner (2008).

Dryptocephala punctata Amyot and Serville

Known distribution: Argentina (Buenos Aires, Misiones, and Tucumán) (Grazia and Schwertner, 2008), Brazil, Peru, Uruguay, and Venezuela (Ruffinelli and Pirán, 1959; Ruckes, 1966b).

Examined material: 2 males, 4 females, CHACO, Depto. Gral. Guemes Pozo La Gringa, I-1995 (DARC) [First record from Chaco province].

Ochlerini

Clypona aerata Rolston

Known distribution: Argentina (Rolston, 1992).

Examined material: 1 female, JUJUY, Ledesma, XI-1948, P. Wygodzinsky col. (DARC) [First record from Jujuy province].

Remarks: It appears that Rolston (1992) misread the data on the labels. The female examined is labeled: "Argentina: Ledesma [sic. Ledesma], Jujuy 11-48, P. Wygodzinsky". Rolston interpreted the 'Jujuy' to be part of the date 'July'. So, even though this is one of the specimens Rolston reported in the literature, no one has actually reported a province.

Cromata ornata Rolston

Known distribution: Brazil (Rolston, 1992).

Examined material: 1 female, MISIONES, Puerto Iguazú, 23-XII-1987; 1 female, same data, 30-XII-1991 (DARC); 1 female, MISIONES, Dos de Mayo, XI-1994 (DARC) [First record of genus and species from Argentina].

Pentatominae

Carpocorini

Acledra (Neoacledra) haematopa (Spinola)

Known distribution: Chile (Spinola, 1852; Prado, 2008).

Examined material: 1 male, CHUBUT (MLP); 1 male, MENDOZA, C.S. Reed col. (MLP); 1 male, RIO NEGRO, C. Bruch col. (MLP) [First record from Argentina].

Caonabo pseudocylax (Bergroth)

Known distribution: Brazil (Rolston, 1974; Grazia, 1987) and Uruguay (Pirán, 1968; Grazia and Casini, 1973).

Examined material: 1 male, 1 female, MISIONES, Cerca Uruzú, 7-III-2010, P. Dellapé col. (MLP); 3 males, 2 females, MISIONES, Provincial Park Araucaria, 6-III-2010, G. Del Río col. (MLP); 1 male, MISIONES, Provincial Park Cruce Caballero, 6-III-2010, P. Dellapé col. (MLP); 1 female, MISIONES, Provincial Park Uruguái, 7-III-2010, P. Dellapé col. (MLP) [First record of genus and species from Argentina].

Dichelops (Diceraeus) melacanthus (Dallas)

Known distribution: Argentina (Buenos Aires, Chaco, Corrientes, Entre Ríos, Jujuy, La Rioja, Misiones, Salta, Santiago del Estero, and Tucumán), Bolivia, Brazil, Colombia, Paraguay, Peru, Uruguay, and Venezuela (Pirán, 1962a, 1963b; Grazia, 1978).

Examined material: 1 male, CATAMARCA, Andalgala, 7-XII-1971, D.J. Brothers col. (DARC); 1 male, 1 female, FORMOSA, 5 km N of Pirané, 27-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 2 males, 2 females, SANTA FE, Santa Fe River salt flats, 31-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Santa Fe, Formosa, and Catamarca provinces].

Dichelops (Dichelops) avilapirezi Grazia

Known distribution: Brazil and Paraguay (Grazia, 1978).

Examined material: 1 male, 1 female, MISIONES, Provincial Park Uruguái, II-2009, L. Negrete col. (MLP); 1 female, MISIONES, Pto. Península, 6-III-2010, P. Dellapé col. (MLP) [First record from Argentina].

Dichelops (Dichelops) saltensis Grazia

Known distribution: Argentina (Salta) and Brazil (Grazia, 1978).

Examined material: 1 female, TUCUMÁN, Aconquija, XI-1946, R. Golbach col. (identified by J. Grazia) (DARC); 1 male, TUCUMÁN, Capital, IV-1959 (identified by J. Grazia) (DARC) [First record from Tucumán].

Euschistus (Euschistomorphus) longiceps Berg

Known distribution: Argentina (Córdoba, Corrientes, Entre Ríos, Mendoza, Patagonia, and Tucumán) (Berg, 1891; Quintanilla et al., 1975–1976; Grazia and Schwertner, 2008).

Examined material: 2 males, 2 females, CATAMARCA, 78 km N of Jct. 60 & 157, 288 m, 28°50.284 S 65°6.009 W, 27-II-2006, D.A. Rider col. (DARC); 5 males, SALTA, 8.1 km S of Cafayate, 1657 m, 26°8.24 S 65°57.99 W, 3-III-2006, D.A. Rider col. (DARC) [First record from Catamarca and Salta provinces].

Euschistus (Euschistus) taurulus Berg

Known distribution: Argentina (Misiones), Ecuador, and Uruguay (Berg, 1878; Kuhlitz and Melichar, 1903; Ruffinelli and Pirán, 1959).

Examined material: 2 males, CHACO, National Park Chaco, 26°48'34.1" S 59°36'21.9" W, 27-IX-2009, P. Dellapé col. (MLP); 1 male, FORMOSA, 34 km NW of Formosa, I-27-1989, C. & L. Brien & G. Wibmer cols. (DARC) [First record from Chaco and Formosa provinces].

Remarks: Mentioned as *Euschistus bifibulus* var. *guayaquilinus* Kuhlitz by Kuhlitz and Melichar (1903).

Euschistus (Lycipta) circumfusus Berg

Known distribution: Argentina (Buenos Aires, Corrientes, Entre Ríos, Misiones, and Santiago del Estero), Brazil, Paraguay, and Uruguay (Pirán, 1956a; Rolston, 1982; Dellapé and Carpintero, 2012).

Examined material: 1 male, FORMOSA, 8-XI-1918, P. Jorgensen col. (DARC) [First record from Formosa province].

Euschistus (Lycipta) cribrarius Stål

Known distribution: Bolivia and Brazil (Rolston, 1982).

Examined material: 1 male, MISIONES, Dos de Mayo, IV-1991 (DARC) [First record from Argentina].

Euschistus (Lycipta) illotus Stål

Known distribution: Argentina (Misiones), Bolivia, Brazil, and Paraguay (Rolston, 1982).

Examined material: 1 male, SALTA, Las Lajitas, I-1992 (DARC); 4 males, 1 female, CHACO, Depto. Gral. Guemes, Pozo La Gringa, XII-1995 (DARC) [First record from Chaco and Salta provinces].

Euschistus (Lycipta) picticornis Stål

Known distribution: Argentina (Buenos Aires, Córdoba, and Misiones), Brazil, and Uruguay (Berg, 1879; Ruffinelli and Pirán, 1959; Rolston, 1982; Grazia and Schwertner, 2008; Carpintero and De Biase, 2011).

Examined material: 1 male, 2 females, MISIONES, Provincial Park Uruguái, 29-IX-2010, S. Montemayor col. (MLP); 2 females, MISIONES, RP 2, 5-III-2010, P. Dellapé col. (MLP); 1 male, CHACO, National Park Chaco, 26°48'34.1" S 59°36'21.9" W, 17/28-X-2009, R. Pfoh col. (MLP) [First record from Chaco province].

Euschistus (Mitripus) paranticus Grazia

Known distribution: Brazil (Grazia, 1987).

Examined material: 1 male, MISIONES, Eldorado, 18-VIII-1967; 1 male, same data, 29-VIII-1967; 1 female, same data, 4-IX-1967; 1 male, 1 female, same data, 10-IX-1967; 1 male, 1 female, same data, 16-IX-1967; 1 male, same data, 10-X-1967 (DARC); 1 female, MISIONES, Delicia, 19-IX-1967 (DARC) [First record from Argentina].

Glypheapomis adroguensis Berg

Known distribution: Argentina (Buenos Aires and Corrientes) and Uruguay (Berg, 1891; Pirán, 1956b; Grazia and Schwertner, 2008).

Examined material: 2 females, CHACO, 70 km NE of Resistencia, 25-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 1 male, ENTRE RÍOS, Depto. Colón, II-1990 (DARC); 1 male, 1 female, ENTRE RÍOS, Pronunciamiento, XII-1964, F.H. Walz col. (DARC); 1 male, SANTA FE, Reconquista, 30-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Entre Ríos, Chaco, and Santa Fe provinces].

Glypheapomis setigera Kormilev & Pirán

Known distribution: Argentina (Buenos Aires, Chaco, Córdoba, and Tucumán) and Uruguay (Pirán, 1956b, 1963a; Grazia and Schwertner, 2008).

Examined material: 2 males, 1 female, ENTRE RÍOS, Departamento Colón, IX-1988, Liebig col. (DARC); 2 males, same data, II-1990 (DARC) [First record from Entre Ríos province].

Mormidea ambigua Berg

Known distribution: Argentina (Córdoba and Corrientes) (Berg, 1891).

Examined material: 1 male, CATAMARCA, 10 km NE of La Merced, 775 m, 28°4.000 S 65°36.859 W, 5-III-2006, D.A. Rider col. (DARC); 1 male, JUJUY, 10 km S of Yuto, 5-V-1964, C.E. & E.S. Ross cols. (DARC) [First record from Catamarca and Jujuy provinces].

Mormidea maculata Dallas

Known distribution: Bolivia, Brazil, Colombia, and Peru (Rolston, 1978).

Examined material: 1 male, 2 females, MISIONES, Victoria, 28-IX-1967 (DARC) [First record from Argentina].

Mormidea pauperula Berg

Known distribution: Argentina (Buenos Aires, Córdoba, Corrientes, Entre Ríos, Jujuy, Misiones, and Santa Fe), Brazil, and Uruguay (Pirán, 1948, 1963a; Ruffinelli and Pirán, 1959; Quintanilla et al., 1975–1976; Rolston, 1978).

Examined material: 1 female, CATAMARCA, 10 km NE of La Merced, 775 m, 28°4.000 S 65°36.859 W, 5-III-2006, D.A. Rider col. (DARC); 1 female, TUCUMÁN, 16 km N of El Indio, 1568 m, 26°59.28 S 65°39.751 W, 28-II-2006, D.A. Rider col. (DARC) [First record from Catamarca and Tucumán province].

Mormidea v-luteum (Lichtenstein)

Known distribution: Argentina (Buenos Aires, Corrientes, Entre Ríos, Misiones, Salta, and Tucumán), Brazil, Paraguay, and Uruguay (Rolston, 1978; Quintanilla et al., 1968, 1975–1976).

Examined material: 1 female, JUJUY, 10 km S of Yuto, 5-V-1964, C.E. & E.S. Ross cols. (DARC) [First record from Jujuy province].

Remarks: Listed as *Mormidea quinqueluteum* by Grazia and Schwertner (2008).

Oebalus ypsilongriseus (De Geer)

Known distribution: Argentina (Chaco, Corrientes, Entre Ríos, and Misiones), Brazil, British Guiana, Paraguay, Peru, Surinam, and Uruguay (Sailer, 1944; Quintanilla et al., 1968; Rebagliati et al., 2005; Grazia and Schwertner, 2008).

Examined material: 3 males, 2 females, FORMOSA, 34 km NW of Formosa, 27-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 1 female, FORMOSA, 14 km SE of Pirané, Hwy 81, 27-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 1 male, FORMOSA, 21 km NW of Formosa, 27-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Formosa province].

Poriptus filius Berg

Known distribution: Argentina (Buenos Aires, Córdoba, Entre Ríos, Santa Fe, and Santiago del Estero) and Uruguay (Ruffinelli and Pirán, 1959; Quintanilla et al., 1968; Barcellos and Grazia, 2008).

Examined material: 1 male, ENTRE RÍOS, Depto. Colón, II-1990 (DARC); 2 males, FORMOSA, 21 km NW of Formosa, 27-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Formosa province].

Prionotocoris albidus (Jensen-Haarup)

Known distribution: Argentina (La Pampa and Mendoza) (Pirán, 1962a).

Examined material: 6 males, 1 female, SALTA, 4.4 km S of San Carlos, 1607 m, 25°56.269 S 65°56.575 W, 3-III-2006, D.A. Rider col. (DARC); 2 females, SALTA, Calchaqui R., Rte. 40 nr. Payogastilla, 1780 m, 25°41.965 S 66°1.862 W, 3-III-2006, D.A. Rider col. (DARC); 2 males, 2 females, SALTA, 21.6 km S of Cafayate, 1664 m, 26°14.783 S 65°56.728 W, 3-III-2006, D.A. Rider col. (DARC) [First record from Salta province].

Remarks: Mentioned as *Euschistus albidus* Jensen-Haarup by Pirán (1962a).

Prionotocoris suilari Kormilev

Known distribution: Argentina (Buenos Aires, Catamarca, Neuquén, and Río Negro) and Bolivia (Kormilev, 1955; Pirán, 1958, 1963a; Grazia and Schwertner, 2008).

Examined material: 1 male, SALTA, 21.6 km S of Cafayate, 1664 m, 26°14.783 S 65°56.728 W, 3-III-2006, D.A. Rider col. (DARC) [First record from Salta province].

Proxys albopunctulatus (Palisot de Beauvois)

Known distribution: Argentina (Entre Ríos and Misiones), Bolivia, Brazil, and Paraguay (Pirán, 1956b; Rebagliati et al., 2005; Grazia and Schwertner, 2008).

Examined material: 1 male, 1 female, CATAMARCA, 5 km N of Los Altos, 498 m, 28°0.354 S 65°33.921 W, 27-II-2006, D.A. Rider col. (DARC); 1 female, CHACO, Depto. Gral. Guemes, Pozo La Gringa, XII-1995 (DARC); 1 female, CHUBUT, El Maiten, 23-XI-1968 (DARC) [First record from Chaco, Catamarca, and Chubut provinces].

Catacanthini

Arocera (Euoapta) variegata Rider

Known distribution: Argentina (Tucumán) and Bolivia (Rider, 1992).

Examined material: 1 male, 1 female, CHACO, Depto. Gen. Guemes, Pozo La Gringa, 11-I-1996 (DARC); 1 female, CHACO, Charata, XI-1994 to I-1995 (DARC) [First record from Chaco province].

Menidini

Rio indistinctus Fortes & Grazia

Known distribution: Brazil (Fortes and Grazia, 2000).

Examined material: 2 males, 5 females, MISIONES, Puerto Iguazú, 30-XII-1991 (DARC); 1 male, same data, 23-XII-1987 (DARC); 1 female, same data, XI-1987 (DARC) [First record from Argentina].

Nezarini

Chinavia abnormis (Berg)

Known distribution: Argentina (Buenos Aires) (Berg, 1892), Brazil, and Uruguay (Rolston, 1983).

Examined material: 1 female, SANTA FE, Rosario, J. Hubrich col. (DARC) [First record from Santa Fe province].

Chinavia apicicornis (Spinola)

Known distribution: Argentina (Mendoza and Salta), Chile, and Uruguay (Ruffinelli and Pirán, 1959; Rolston, 1983; Grazia and Schwertner, 2008).

Examined material: 1 male, BUENOS AIRES, Salinas Chicas, 8/9-III-2008, P. Dellapé col. (MLP); 4 males, 4 females, CATAMARCA, 3 km SW of San José, 1996 m, 26°49.167 S 66°4.159 W, 2-III-2006, D.A. Rider col. (DARC); 1 male, CHUBUT, near of Pta Ninfas, 26-III-2011, Martins col. (MLP); 1 male, 1 female, CHUBUT, P. Valdés, Pto Pirámide, 31-I-2014, G. Dellapé col. (MLP); 1 male, CHUBUT, Puerto Madryn, 9-II-2014, G. Dellapé col. (MLP); 3 males, 1 female, CHUBUT, Dique Ameghino, 5-II-2014, G. Dellapé col. (MLP); 1 male, same data, 6-II-2014 (MLP); 1 male, CÓRDOBA, Rte 34, near of El Condor, 1294 m, 31°35.495 S 64°40.473 W, 24-II-2006, D.A. Rider col. (DARC); 1 female, CÓRDOBA, 15 km NW of Alta Garcia, 835 m, 31°35.417 S 64°30.221 W, 24-II-2006, D.A. Rider col. (DARC); 1 male, 1 female, CÓRDOBA, 2 km S of Villa Gen. Belgrano, 695 m, 32°0.306 S 64°33.601 W, 22-II-2006, D.A. Rider col. (DARC); 4 males, 3 females, CÓRDOBA, 5 km W of Embalse Los Molinos, 825 m, 31°49.402 S 64°34.387 W, 23-II-2006, D.A. Rider col. (DARC); 1 female, CÓRDOBA, 5 mi N of Dean Funes, 8-II-1951, Ross & Michelbacher cols. (DARC); 3 males, 6 females, RIO NEGRO, Valcheta, Ea. Rincón de Chipauquil, 13-I-2013, G. Dellapé col. (MLP); 1 male, same locality, 22-II-2014, D. Barrasso col. (MLP); 1 female, TUCUMÁN, 10 mi N of Trancas, 13-II-1951, Ross & Michelbacher cols. (DARC) [First record from Buenos Aires, Catamarca, Chubut, Córdoba, Río Negro, and Tucumán provinces].

Chinavia australis (Rolston)

Known distribution: Argentina (Buenos Aires, Córdoba, and La Rioja) (Rolston, 1983).

Examined material: 4 males, 4 females, CATAMARCA, 78 km N of Jct. 60 & 157, 288 m, 28°50.284 S 65°6.009 W, 27-II-2006, D.A. Rider col. (DARC); 1 female, CORRIENTES, 16-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 1 male, 1 female, SALTA, 2500 m, J. Steinbach col. (DARC); 1 female, SALTA, II-1991, S.B. Gonzalez col. (DARC); 1 male, SALTA, 10 km S of La Viña, 1157 m, 25°33.597 S 65°34.556 W, 4-III-2006, D.A. Rider col. (DARC); 5 males, 8 females, SALTA, 8.1 km S of Cafayate, 1657 m, 26°8.24 S 65°57.99 W, 3-III-2006, D.A. Rider col. (DARC); 2 males, SANTIAGO DEL ESTERO,

Urutaú, II-1991 (DARC) [First record from Catamarca, Corrientes, Salta, and Santiago del Estero provinces].

Chinavia erythrocnemis (Berg)

Known distribution: Argentina (Corrientes and Misiones), Brazil, Paraguay, and Uruguay (Berg, 1879; Pirán, 1966; Rolston, 1983; Schwertner and Grazia, 2007).

Examined material: 1 female, BUENOS AIRES, Punta Lara, 26-X-2012, L.J. Álvarez col. (MLP) [First record from Buenos Aires province].

Remarks: Genevicius and Schwertner (2014) mapped *C. erythrocnemis* on Buenos Aires province; however there are no examined materials.

Chinavia herbida (Stål)

Known distribution: Argentina (Buenos Aires, Córdoba, Corrientes, Entre Ríos, La Rioja, Mendoza, Misiones, Santa Fe, and Tucumán), Brazil, Peru, Surinam, and Uruguay (Berg, 1879; Ruffinelli and Pirán, 1959; Rolston, 1983; Grazia and Schwertner, 2008).

Examined material: 2 males, BUENOS AIRES, Salinas Chicas, 8/9-III-2008, P. Dellapé col. (MLP); 1 female, CHUBUT, Península Valdés, Ruta 52, 22-II-2007, on *Larrea divaricata* Cav., P. Dellapé col. (MLP) [First record from Chubut province].

Chinavia impicticornis (Stål)

Known distribution: Argentina (Misiones and Salta) (Berg, 1892; Pirán, 1963a), Bolivia, Brazil, Colombia, Ecuador, Paraguay, Peru, Suriname, and Venezuela (Rolston, 1983; Schwertner and Grazia, 2007).

Examined material: 1 male, CATAMARCA, 10 km NE of La Merced, 775 m, 28°4.000 S, 65°36.859 W, 5-III-2006, D.A. Rider col. (DARC) [First record from Catamarca province].

Remarks: Mentioned as *Nezara vicina* by Berg (1892) and as *Acrosternum vicina* by Pirán (1963a).

Chinavia musiva (Berg)

Known distribution: Argentina (Buenos Aires, Catamarca, Chubut, Córdoba, Corrientes, Entre Ríos, Formosa, La Pampa, La Rioja, Mendoza, Neuquén, Río Negro, Salta, San Juan, Santa Cruz, Santa Fe, Santiago del Estero, and Tierra del Fuego), Brazil, Paraguay, and Uruguay (Berg, 1879; Pirán, 1963a; Rolston, 1983; Schwertner and Grazia, 2007; Grazia and Schwertner, 2008; Turienzo and Di Iorio, 2008; Arnold, 2011).

Examined material: 3 females, CATAMARCA, 3 km. SW of San José, 1996 m, 26°49.167 S 66°4.159 W, 2-III-2006, D.A. Rider col. (DARC); 2 females, CHACO, 2008 (MLP); 1 female, CHACO, Charata, I-1993 (DARC); 1 male, 8 females, CHACO, Charata, XI-1994 to I-1995 (DARC); 1 male, 1 female, CHACO, Depto. Gen. Guemes, Pozo La Gringa, 11-I-1996 (DARC); 4 males, 6 females, same data, I-1995 (DARC); 1 male, 14 females, same data, XII-1995 (DARC); 1 male, 1 female, CÓRDOBA, 2 km S of Villa Gen. Belgrano, 695 m, 32°0.306 S 64°33.601 W, 23-II-2006, D.A. Rider col. (DARC); 1 male, CÓRDOBA, 30 km S of Mina Clavero, 900 m, 31°53.017 S 65°1.277 W, 25-II-2006, D.A. Rider col. (DARC); 2 males, 1 female, ENTRE RÍOS, Pronunciamiento, I-1964 (DARC); 1 male, 6 females, ENTRE RÍOS, Depto. Colón, II-1990 (DARC); 11 males, 16 females, ENTRE RÍOS, Depto. Colón, II-1990, Liebig col. (DARC); 11 males, 10 females, ENTRE RÍOS, Depto. Colón, III-1990, Liebig col. (DARC); 1 male, MENDOZA, 8-I-1923, W.S.B. col. (DARC) [First record from Chaco province].

Chinavia nigradorsata (Bredin)

Known distribution: Argentina (Buenos Aires, Chaco, Entre Ríos, and Santa Fe), Brazil, Paraguay, and Uruguay (Rolston, 1983; Rebagliati et al., 2005; Schwertner and Grazia, 2007).

Examined material: 1 male, 1 female, CORRIENTES, 3 km E of Corrientes, Hwy. 5, 18-I-1989, night, C. & L. O'Brien & G. Wibmer

cols. (DARC); 1 male, CORRIENTES, 28 km NE of Esquina, 15-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 1 male, 7 km S of Bella Vista, Hwy 12, 16-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 2 females, CORRIENTES, 3 km W of Valencia, 23-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 1 female, FORMOSA, 45 km SW of Formosa, 28-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Corrientes and Formosa provinces].

Remarks: Listed as *Chinavia bella* (Rolston) by Grazia and Schwertner (2008). See Schwertner and Grazia (2007).

Cyptocephala cogitabunda Berg

Known distribution: Argentina (Buenos Aires, Catamarca, Córdoba, Entre Ríos, Mendoza, San Luis, and Tucumán), Bolivia, and Uruguay (Berg, 1879; Pirán, 1963a; Quintanilla et al., 1968; Rolston, 1986).

Examined material: 1 female, LA PAMPA, La Maruja, II-1980 (DARC) [First record from La Pampa province].

Thyanta (Phacidium) acuta Ruckes

Known distribution: Argentina (Misiones), Bolivia, Brazil, and Paraguay (Rider and Chapin, 1991).

Examined material: 1 female, ENTRE RÍOS, Depto. Colón, II-1990 (DARC) [First record from Entre Ríos province].

Remarks: This species not was listed by Grazia and Schwertner (2008).

Thyanta (Phacidium) aeruginosa Berg

Known distribution: Argentina (Buenos Aires, Catamarca, Chaco, Chubut, Córdoba, Corrientes, Entre Ríos, Formosa, Jujuy, La Rioja, Mendoza, Neuquén, Río Negro, San Juan, San Luis, Santa Fe, Santiago del Estero, and Tucumán), Paraguay, and Uruguay (Berg, 1879; Quintanilla et al., 1968; Rider and Chapin, 1991).

Examined material: 10 males, 5 females, SALTA, 30 km S of La Viña, 1263 m, 25°40.465 S 65°40.873 W, 4-III-2006, D.A. Rider col. (DARC); 1 male, 1 female, SALTA, 21.6 km S of Cafayate, 1664 m, 26°14.783 S 65°56.728 W, 3-III-2006, D.A. Rider col. (DARC); 1 male, SALTA, Calchaqui R., Rte. 40 nr. Payogastilla, 1780 m, 25°41.965 S 66°1.862 W, 3-III-2006, D.A. Rider col. (DARC) [First record from Salta province].

Thyanta (Thyanta) perditor (Fabricius)

Known distribution: Antigua, Argentina (Jujuy, Mendoza, Misiones, and Salta), Bahamas, Barbados, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, French Guiana, Grenada, Guadalupe, Guatemala, Haiti, Honduras, Jamaica, Martinique, Mexico, Nicaragua, Panama, Peru, Puerto Rico, St. Vincent, St. Lucia, Suriname, Trinidad and Tobago, USA, Venezuela, and Virgin Isl. (Pennington, 1920; Maes, 1994; Rider and Chapin, 1991, 1992).

Examined material: 1 male, 1 female, ENTRE RÍOS, Concordia INTA, VI-2011, G. Dellapé col. (MLP) [First record from Entre Ríos province].

Pentatomini

Arvelius albopunctatus (De Geer)

Known distribution: Antigua, Argentina (Buenos Aires, Catamarca, Córdoba, Corrientes, Entre Ríos, La Rioja, Misiones, Salta, Santa Fe, and Santiago del Estero), Bahamas, Barbados, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominican Republic, El Salvador, Guatemala, Guyana, Haiti, Honduras, Montserrat, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Surinam, Trinidad and Tobago, Uruguay, USA, Venezuela, and Virgin Isl. (Uhler, 1875; Berg, 1879; Stoner, 1919; Pirán, 1948; Quintanilla et al., 1968; Brailovsky, 1981; Maes, 1994; Arismendi and Thomas, 2003; Perez-Gelabert and Thomas, 2005).

Examined material: 8 males, 6 females, CATAMARCA, 40 km NE of Catamarca, 783 m, 28°16.557 S 65°37.389 W, 5-III-2006,

D.A. Rider col. (DARC); 1 male, CATAMARCA, Alijilan, 3-XI-1972, G.E. Bohart col. (DARC); 3 females, CATAMARCA, Miraflores, II-1993 (DARC); 5 males, CHACO, National Park Chaco, 26°48'34.1" S 59°36'21.9" W, 25-IX-2009, P. Dellapé col. (MLP); 6 males, 8 females, CHACO, Depto. Gral. Guemes, Pozo La Gringa, XII-1995 (DARC); 2 males, 3 females, same data, I-1995 (DARC); 4 males, 1 female, CHACO, Charata, XI-1994 to I-1995 (DARC) [First record from Chaco province].

Banasa lanceolata Thomas

Known distribution: Brazil (Thomas and Yonke, 1990).

Examined material: 1 male, MISIONES, RP1, 3-III-2010, P. Dellapé col. (MLP) [First record from Argentina].

Banasa nigrifrons Thomas

Known distribution: Brazil (Thomas and Yonke, 1990).

Examined material: 2 males, MISIONES, Puerto Iguazú, 23-XII-1987 (DARC); 1 female, same data, XI-1987 (DARC); 3 females, same data, 30-XII-1991 (DARC); 2 females, same data, XII-1991 (DARC) (all specimens identified by Thomas) [First record from Argentina].

Chlorocoris complanatus (Guérin-Méneville)

Known distribution: Argentina (Misiones) (Jensen-Haarup, 1926), Bolivia, Brazil, and Paraguay (Thomas, 1985).

Examined material: 1 female, CHACO, Laguna Panza de Cabra, 25-IX-2009, P. Dellapé col. (MLP); 1 female, CORRIENTES, Col. C. Pellegrini, 6-V-2002, P. Dellapé col. (MLP); 1 male, same locality, 7-V-2002, Chayle col. (MLP) [First record from Chaco and Corrientes provinces].

Kermana fucosa (Berg)

Known distribution: Argentina (Buenos Aires, Entre Ríos, Misiones, Salta, Santa Fe, and Tucumán), Brazil, and Uruguay (Berg, 1892; Pirán, 1963a; Rolston and McDonald, 1981; Grazia and Schwertner, 2008; Carpintero and De Biase, 2011).

Examined material: 1 female, CATAMARCA, 5 km N of Los Altos, 498 m, 28°0.354 S 65°33.921 W, 27-II-2006, D.A. Rider col. (DARC); 3 females, CHACO, Depto. Gral. Guemes, Pozo La Gringa, I-1995 (DARC); 1 female, same data, 11-I-1996 (DARC); 1 female, CHACO, Charata, II-1991 (DARC); 1 male, 2 females, same data, XI-1994 (DARC); 1 male, 2 females, same data, XI-1994 to I-1995 (DARC); 1 female, CÓRDOBA, IV-1967, L.E. Pena & G. Barria cols. (DARC); 1 male, 4 females, CÓRDOBA, 2 km N of Cruz del Eje, 496 m, 30°42.781 S 64°47.85 W, 28-II-2006, D.A. Rider col. (DARC); 1 male, ENTRE RÍOS, Dept. Colón, II-1990 (DARC); 1 male, ENTRE RÍOS, Dept. Colón, II-1991, Liebig col. (DARC); 2 males, 1 female, LA RIOJA, 10 km SE of Chamental, 395 m, 30°25.379 S 66°11.624 W, 6-III-2006, D.A. Rider col. (DARC); 5 males, 6 females, SANTIAGO DEL ESTERO, Uru-taú, II-1991 (DARC) [First record from Catamarca, Chaco, Córdoba, La Rioja, and Santiago del Estero provinces].

Pallantia macunaima Grazia

Known distribution: Brazil and Paraguay (Grazia, 1980).

Examined material: 1 male, MISIONES, Hwy. 12, 28 km SW of Monte Carlo, 21-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Argentina].

Taurocerus edessoides (Spinola)

Known distribution: Bolivia, Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Guyana, Mexico, and Panama (Grazia and Barcellos, 2005).

Examined material: 1 male, ENTRE RÍOS, Dept. Colón, II-1991 (DARC) [First record of genus and species from Argentina].

Piezodorini

Piezodorus guildinii (Westwood)

Known distribution: Argentina (Buenos Aires, Chaco, Córdoba, Corrientes, Entre Ríos, Misiones, and Santa Fe) (Quintanilla

et al., 1975–1976, 1981; Grazia and Schwertner, 2008), Brazil, Colombia, Costa Rica, Cuba, Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panamá, Paraguay, St. Vincent Is., Uruguay, and USA (Rizzo, 1976; Maes, 1994; Malaguindo and Panizzi, 1998).

Examined material: 1 female, JUJUY, N of Ledesma, 10-X-1968, L.E. Pena col. (DARC) [First record from Jujuy province].

Procteticini

Odmalea pallida (Jensen-Haarup)

Known distribution: Argentina (Formosa and Misiones), Brazil, and Uruguay (Grazia and Casini, 1973; Rolston, 1978).

Examined material: 1 male, 1 female, CHACO, National Park Chaco, 26°48'25" S 59°36'26.5" W, 26-X-2009, P. Dellapé & M.C. Melo cols. (MLP) [First record from Chaco province].

Remarks: This species was not listed by Grazia and Schwertner (2008).

Thoreyella cornuta Berg

Known distribution: Argentina (Buenos Aires, Entre Ríos, and Misiones), Brazil, and Uruguay (Berg, 1879; Pirán, 1956b; Quintanilla et al., 1981; Grazia and Schwertner, 2008; Bernardes et al., 2011).

Examined material: 1 male, CORRIENTES, 3 km W of Valencia, 23-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 2 males, 2 females, FORMOSA, 45 km SW of Formosa, 28-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC); 2 females, FORMOSA, 47 km NW of Formosa, 27-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Formosa and Corrientes provinces].

Thoreyella trinotata Berg

Known distribution: Argentina (Buenos Aires, Entre Ríos, Formosa, Misiones, Santa Fe), Brazil, Paraguay, and Uruguay (Ruffinelli and Pirán, 1959; Quintanilla et al., 1968; Grazia and Schwertner, 2008; Bernardes et al., 2011).

Examined material: 1 male, CORRIENTES, 4 km NE of Goya, Hwy. 12, 16-I-1989, C. & L. O'Brien & G. Wibmer cols. (DARC) [First record from Corrientes province].

Unplaced

Capivaccius bufo Distant

Known distribution: From Panama to North of Argentina (Brailovsky and Rolston, 1986), Panama (Distant, 1893; Kirkaldy, 1909), Trinidad (Callan, 1948), and Brazil (Garbelotto, 2008).

Examined material: 1 female, CHUBUT, El Maiten, 23-XI-1968 (DARC); 1 male, 4 females, MISIONES, Eldorado, 16-IX-1967 (DARC); 2 females, same data, 18-VIII-1967 (DARC); 1 female, same data, 19-IX-1967 (DARC) [First record from Chubut and Misiones provinces].

Podopinae

Neoleprosoma argentinensis Kormilev & Pirán

Known distribution: Argentina (Buenos Aires and Santa Fe) and Uruguay (Kormilev and Pirán, 1952; Kormilev, 1955; Pirán, 1966).

Examined material: 1 male, CÓRDOBA, 2 km S of Villa Gen. Belgrano, 695 m, 32°0.306 S 64°33.601 W, 22-II-2006, D.A. Rider col. (DARC); 1 male, 1 female, ENTRE RÍOS, Concordia INTA, XII-2010, collected with yellow sticky traps in citrus, G. Dellapé col. (MLP); 1 male, MENDOZA, Las Heras Villavicencio, 4/14-XII-2004, S. Claver & A. Scollo cols. (MLP) [First record from Córdoba, Entre Ríos, and Mendoza provinces].

Remarks: This is the only species of Podopinae known from Argentina; it was not listed by Grazia and Schwertner (2008).

Conclusions

In this contribution two species of Asopinae, one genus and species of Discocephalinae, and two genera and 11 species of Pentatominae are reported for the first time from Argentina; we also provided 81 new province records of another 49 species.

Conflicts of interest

The authors declare no conflicts of interest.

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