



Revista de la Sociedad Entomológica Argentina
ISSN: 0373-5680
ISSN: 1851-7471
santiago@cepave.edu.ar
Sociedad Entomológica Argentina
Argentina

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Revista de la Sociedad Entomológica Argentina, vol. 77, no. 2, 2018
Sociedad Entomológica Argentina, Argentina
Available in: <https://www.redalyc.org/articulo.oa?id=322054935007>

Blattaria, new generic and specific records for Argentina

Blattaria, nuevos registros de géneros y especies para la
Argentina

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Revista de la Sociedad Entomológica
Argentina, vol. 77, no. 2, 2018

Sociedad Entomológica Argentina,
Argentina

Received: 12 January 2018

Accepted: 30 May 2018

Published: 28 June 2018

Redalyc: [https://www.redalyc.org/
articulo.oa?id=322054935007](https://www.redalyc.org/articulo.oa?id=322054935007)

Abstract: Three genera, four species and the phenotype of *Blattella germanica* are recorded for the first time from Argentina. The distribution area of 15 species is expanded. The cockroach fauna from Argentina is still poorly known and currently represented by 45 genera and 100 species.

Keywords: *Cariblattoides*, Cockroach, *Hormetica*, *Leuropeltis*, Phenotype.

Resumen: Tres géneros, cuatro especies y el fenotipo de *Blattella germanica* se registran por primera vez en Argentina. El área de distribución de 15 especies se amplía. La fauna de cucarachas en Argentina actualmente representada por 45 géneros y 100 especies, es aún poco conocida.

Palabras clave: *Cariblattoides*, cucaracha, fenotipo, *Hormetica*, *Leuropeltis*.

The first revision of Blattaria from Argentina, carried out by Crespo & Valverde (2008), considered both material housed in museums and literature available on the subject. A catalog of the cockroach species known from Argentina was published subsequently (Crespo et al., 2010). These studies included the scattered information about the biodiversity of the order and analyzed the biotic affinities among the biogeographical provinces.

Valverde et al. (2012) recorded for the first time the genus *Schistopeltis* Rehn 1928, extending the distribution of *S. lizeri* Rehn from Bolivia to the Province of Chaco, Argentina. A few years later Crespo et al. (2015b) described a new species of *Tribonium* Saussure 1862, *T. rothi* Crespo, Valverde and Iglesias from the Province of Misiones and the number of species of the genus is increased with the new records of *T. conspersum* (Guérin-Méneville & Percheron) from the Provinces of Jujuy, Misiones and Tucumán, and *T. neospectrum* Lopes from Misiones.

Crespo et al. (2015a) cited for the first time *Hypercompsa fieberi* (Brunner von Wattenwyl) from the Provinces of Tucumán and Buenos Aires. Valverde et al. (2016) recorded *Lanta borgesae* Rocha e Silva & Vasconcellos from the province of Misiones. Both species were known from southeastern Brazil.

The collections of the Museo de La Plata (MLP), Instituto Fundación Miguel Lillo (IFML) and Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” (MACN) are again reviewed. The authors contributions housed in the Facultad de Ciencias Exactas y Naturales-Universidad de Buenos Aires (FCEN) are added. Taxa hierarchy follows the up-to-date database of the cockroaches of the world by Beccaloni (2014).

The aim of this communication is to update, from 2010 onwards, the generic and specific novel records and expand their known distribution area. Distributional data known from Argentina previous to the present study is listed in “Catalogue of Blattaria (Insecta) from Argentina” (Crespo et al., 2010) and we refer the readers to that study for complete records.

Blattidae Latreille

Blattinae

Blatta Linnaeus

Blatta orientalis Linnaeus. Province of Buenos Aires: La Plata, 28/9 to 23/10/1970, coll.: Trotta, H. (MLP).

New locality record.

Periplaneta Burmeister

Periplaneta americana (Linnaeus). Province of Santiago del Estero: Negra muerta, [-27.526425, -64.117344]. Province of Córdoba: Bajo Grande, 12/11/1939, coll.: C. M. A. M. (MLP).

New locality records.

Periplaneta fuliginosa Serville. Province of Buenos Aires: La Plata, 5/7/1982, coll.: Argemi, A.A. (MLP).

New locality record.

Ectobiidae Brunner von Wattenwyl

Blattellinae

Blattella Caudell

Blattella germanica (Linnaeus) (Fig. 1B). The researchers of Centro de Investigaciones de Plagas e Insecticidas (CIPEIN), where this species is reared since 2014, observed the appearance of a new morph with a homogeneously coloured pronotum (Fig. 1a). We identified them as the phenotype of *B. germanica*, described by Roth (1985), lacking the characteristic black pronotal longitudinal bands of this species.



Fig. 1
Blattella germanica. A. Morph described by Roth (1985). B. Characteristic phenotype of the species.
 Scale = 1 mm

Ischnoptera Burmeister

Ischnoptera argentina Hebard. Province of Buenos Aires: La Plata, 2/11/1976, coll.: Loiacono, M., and 7/12/1975, coll.: Argemi, A.A. (MLP).

New locality record.

Ischnoptera bilunata Saussure. Province of Jujuy: Ledesma, 28/1/1958, colls.: Torres-Ferreira [-23.8505667, -64.7928138]. Province of Santiago del Estero: coll.: Wagner. Province of Misiones: Villa Lanús, 5/1964. [-27.4333, -55.8833]. (MLP).

New locality records.

Nyctiborinae

Pseudischnoptera Saussure

Peudischnoptera rhabdota Hebard. Province of Santiago del Estero: Río Salado, date missing, colls.: Wagner – Bosq, J.M. (MLP).

New locality record.

Pseudophyllodromiinae

Agmoblatta Gurney & Roth

Agmoblatta thaxteri (Hebard) (= *Loboptera thaxteri*) Province of Buenos Aires: Tandil, Piedra Movediza, 11/10/1964, colls.: Alzuet, A.B. - Darrieu. (MLP).

New locality record.

Cariblattoides Rehn & Hebard

Cariblattoides fontesi Rocha e Silva. Province of Misiones: Parque Nacional Iguazú, 20/01/2005, colls.: Ramírez Llorens, P. & Piacentini, L. Low stratum of secondary jungle. (FCEN).

New genus and species record.

Leuropeltis Hebard

Leropeltis hebardei Gutiérrez. Provincia de Formosa: County Laishí, Herradura, 12/2015, colls.: Crespo, F.A. & Valverde, A.C. [-26.48333, -58.300] (FCEN). Collected at night, the specimens flew towards artificial light.

New genus and species record.

Neoblattella Shelford

Neoblattella tapenagae Hebard .Province of Misiones: County Cainguás, 2 de mayo. 14/11/1976, colls.: Spinelli, G.R. – Domizi, A.L., [-27.019722, -54.68444]. (MLP).

New locality record.

Supella Shelford

Supella longipalpa (Fabricius). Province of Córdoba: Córdoba capital, 02/2009, coll.: Lax, P. (FCEN). Province of Santiago del Estero: Sarmiento, Negra Muerta, date and coll.: missing [-28.96667, -63.96667] (MLP).

New locality records.

Blaberidae Saussure

Blaberinae

Blaberus Serville

Blaberus affinis Jurberg, Albuquerque, Reborderes, Goncalves & Felipe. Province of Salta: County Santa Victoria, 17/7/1933, coll.: Denier, P.C. [-22.3695028, -65.0008527] (MLP).

New species record.

Blaberus scutatus Saussure & Zehntner. Province of Chaco: Estancia Anelo, Camino a Zapallar, 10-15/3/ 1949, Birabén M.; Resistencia, Estancia La Amalia, 13/9, colls.: Martín, E. & Galván, M. Province of Córdoba: Los Cocos, El Piquillín, 17/2/1944, coll.: Miss. Prichard [-31.2933333, -63.7571083]. Province of Corrientes: 15-30/2/1959, coll.: Birabén, M. Province of Formosa: Pirané, 15/11/1942, coll.:

Birabén, M. [-25.7377889, -59.11155]; Mojón Fierro, 11/12/1939, coll.: Denier, P.C. [-26.0318806, -58.0482444] Province of Santiago del Estero: County Robles, Turema, 11/1939, coll.: Missing (MLP).

New species records.

Blaptica Stal

Blaptica dubia (Serville). Province of Buenos Aires: Punta Blanca, Puerto Magdalena, 16-18/10/1949 coll.: Gethard, I. Province of Córdoba: County Calamuchita, El Sauce 12/1939, coll.: Viana, M.J. [-31.0957306, -64.3103555]; Cosquín, 17/1/1939 colls.: Birabén, M. – Scott, M.I.H. [-31.2469194, -64.4703861]; County Colón, Cabana, 2/1939, colls.: Birabén, M. - Scott, M.I.H. [-31.236111, -64.3280556]. Province of Corrientes: Manantiales, 2/1946, coll.: Birabén, M. [-27.9219694, -58.0996527]. Province of Santiago del Estero: County Sarmiento, Matará, 12/12/1939, coll.: Birabén, M. [-28.1069444, -63.1938889], det. Lopes y Oliveira. (MLP).

New locality records.

Blaptica formosa Lopes & Oliveira. Province of Buenos Aires: Tandil, Parque Independencia, 21/03/1959, colls.: Vidal Sarmiento, J. - Alzuet, A.B., [-34.848333, -57.8872222] det. Lopes, Oliveira & Asunción. (MLP).

New species record.

Blaptica gaucha Lopes & Oliveira. Province of Buenos Aires: Tandil, Sierra Las Ánimas, 20/03/1959, colls.: Vidal Sarmiento, J. - Alzuet, A.B., [-34.7519444, -55.3197222], det. Lopes, Oliveira & Asunción. (MLP).

New species record.

Blaptica interior Hebard. Province of Santiago del Estero: Río Salado. Date missing, coll.: Wagner. (MLP).

New locality record.

Hormetica Burmeister

Hormetica laevigata Burmeister. Province of Misiones: Iguazú, 30/1 to 13/3/1945 colls.: Hayward, K.J., Willink, A. & Goldbach, R. (IFML). Province of Misiones: Iguazú, 11/1944, coll.: Prosen A. (MLP)

New genus and species record.

Monastria Saussure

Monastria similis (Serville) Province of Misiones: County Iguazú, Puerto Bemberg (nowadays Puerto Libertad), 1934, Coll.: Haywards, K.J. (bought to) [-25.92138889, -54.5844444] (MACN).

New locality record.

Parahormetica Bunner

Parahormetica bilobata (Saussure). Province of Misiones: Monte altos Villa Lanús, 24/5/1964 coll.: Togo. [-27.4333, -55.8833]; Loretto, 4/1951, coll.: Bosq, J.M. [-27.3164778, -55.5346277] (MLP).

New locality records.

Parahormetica cicatricosa Saussure. Province of Misiones: Parque Provincial Salto Encantado, 24/11/1996, coll.: Aertz, H. [-27.1, -54.9333333] (FCEN).

New locality record.

Pycnoscelinae

Pycnoscelus Scudder

Pycnoscelus surinamensis (Linnaeus). Province of Corrientes: San Roque, 2/1920, coll.: Bosq, J.M. [-28.5743778, -58.7082194] (MLP).

New locality record.

Zetoborinae

Phortioeca Saussure

Phortioeca verrucosa (Saussure). Province of Chaco: La escondida, 28/10/1936, coll.: Denier, P.C. [-27.10388889, -59.4452778] (MLP); Charata, 10/1924, coll.: Bosq, J.M. Province of Salta: Güemes, 19/7/1913, coll.: Joërgensen, P. [-24.6667361, -65.0501111] (MACN).

New locality records.

From the present study we found that three genera, seven species and a phenotype are registered for the first time from Argentina. The distribution area of 15 species is expanded. We must also add two genera and six species, cited in literature since 2010. Therefore, the number of genera and species of cockroaches found in Argentina is increased to 45 and 100 respectively (plus two species *incertae sedis*). The above mentioned *B. germanica* morph should be studied genetically.

Acknowledgements

We want to thank Mr. Bernardino Rojas (IFML), Dr. Emilia C. Pérez (IFML), Dr. Arturo Roig Alsina (MACN), Dr. Analía Lanteri (MLP), and Dr. Jorge Salas (MLP) for their help. We are very grateful to Dr. Raúl Alzogaray (CIPEIN) for lending us the morph specimens. This work was funded by Centro Nacional de Diagnóstico e Investigación en Endemo-Epidemias, Administración Nacional de Laboratorios e Institutos de

Salud “Dr. Carlos G. Malbrán” and Departamento de Biodiversidad y Biología Experimental, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires.

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