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Author(s): Guillermo González
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Beetles (Coleoptera) of Peru: A Survey of the Families. Coccinellidae

Guillermo González
Nocedal 6455, La Reina, Santiago, Chile
E-mail: willogonzalez@yahoo.com

Diversity in Peru: 64 genera, 329 species, 199 endemics (60%).

Recognition: Coccinellids are popularly known as "ladybugs" or "ladybird beetles." The adults are minute to medium sized (1–12 mm). The body is oblong or semicircular, flat underneath and normally convex dorsally, some depressed. The tarsal formula is pseudotetramerous or trimerous. The antennae have 8–11 antennomeres and a 1–5 club. Pilosity may be present or absent. Body colors are frequently red or orange with black or white; in some groups the color is yellow, brown or piceous, rarely metallic green or blue. A post-coxal line is present on the first abdominal ventrite and the penis is modified into a "sipho". Detailed descriptions of the family can be founded in Vandenberg (2002) and Ślipiński and Tomaszewska (2010).

Habits and Habitats: Coccinellids have a wide range of food preference. Some species are plant feeders (Epilachninae) and a few feed exclusively on fungi (Halyziini). The majority, however, are predators of adults and immature stages of hemipteran from the suborder Sternorrhyncha (Aphididioidea, Aleyrodoidea, Psyllidae, Margarodidae, etc). Exceptions from this general predatory pattern might occur, the most relevant being the specialization on tetranychid mites by members of the tribe Stethorini. Given their predatory habits, several coccinellids are used in the biological control of agricultural pest. Some plant feeders, on the other hand, might reach pest status. Coccinellids develop quickly, in about a month in spring or summer; the adults live about six months. They are commonly diurnal species.

Notes: The checklist below covers until 2014. The classification used follows Bouchard *et al.* (2011) with minor changes in tribe structure. The last list available considered only about 100 species (Blackwelder, 1945). The 2/3 of the currently recognized species were described in the last 50 years, especially through the works of Robert D. Gordon from 1969 to today. The bibliography contains all the taxonomic works not included in Blackwelder (1945) or in the bibliography of González (2010). An updated bibliography including taxonomy, phylogeny, biology and agriculture-related jobs, as well as a key to the genera of Coccinellidae in South America, and individual pages about the majority of the species cited from Perú can be found at the website: www.coccinellidae.cl.

Some species have been erroneously assigned to Peru in previous publications:

Delphastus pusillus was cited by Miró and Castillo (2010) (misidentification), but this species has been removed from the Peruvian fauna by Gordon (1994).
Pentilia egena Mulsant cited by González, 2010 (error in countries list).
Psyllobora lenta Mulsant cited by Miró and Castillo (2010) (misidentification).
Scymnobius bilucernarius Mulsant, 1850, cited for Gordon and González (2002) (error in countries list in key, confirmed with R.D. Gordon, personal communication).

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Serratitibia sarah Gordon and Canepari (2013) in the original description, where the type locality (Tabatinga) was mistakenly assigned to Peru instead of Brazil (confirmed with Robert D. Gordon, personal communication).

Zagloba beaumonti Casey cited by González (2013b) (error in countries list).

In the present work, I provide eleven **new records** for coccinellids in Peru:

Delphastus huahuai Gordon, 1994: PERÚ, Madre de Dios, Tahuamanu, Iberia, 292 m. 10–I–2010. leg. J. Miró/Cítricos (Museo de Entomología de la Universidad Nacional de Tumbes, Tumbes, Perú).

Pseudoazya boliviana Gordon, 1980: PERÚ, Madre de Dios, Tambopata, Las Piedras, Alegría, 5–VIII–2012, leg. J. Miró/N: 8860120 E: 486620, Cítricos: Naranjo (Museo de Entomología de la Universidad Nacional de Tumbes, Tumbes, Perú).

Stethorus grossepunctatus Gordon and Chapin, 1983: PERÚ, Depto. [Departamento] Piura, Sol Sol, Chulucanas, 27–VII–2009, leg. A. Garcés (Colección Manuel Diéguez, Santiago, Chile).

Scymnobius ecuadoricus Gordon and González, 2002: PERÚ, Provincia de Tumbes, Corrales, Los Cedros, 27–VIII–2011, leg. Ruth Ríos (Museo de Entomología de la Universidad Nacional de Tumbes, Tumbes, Perú).

Cryptognatha gemellata Mulsant, 1850: PERÚ, Amazonas, Pedro Ruiz, 1500 m, 8–II–2009, leg. R. Westerduijn. Vegetation near stream (Colección Museo de Historia Natural de la Universidad Nacional Mayor de San Marcos, Lima, Perú).

Hyperaspis matronata Mulsant, 1853: Perú, Madre de Dios, Tahuamanu, Siringayoc, 3-IX-2011, leg. Jimmy Miró/Cítricos, Limón sutil (Museo de Entomología de la Universidad Nacional de Tumbes, Tumbes, Perú). Cited previously from Peru by González (2013b) without label data.

Cycloneda ecuadorica (Timberlake, 1943): PERÚ, [Ancash] Caraz, 28–IX– [19]96, [leg.] Karina Vilca (Universidad Nacional Santiago Antúnez de Mayolo, Ancash, Perú).

Olla roatanensis Vandenberg, 1992: [PERÚ, Tumbes], Puerto Pizarro, 13–IX–[19]97, [leg.] P. Castillo (Museo de Entomología de la Universidad Nacional de Tumbes, Tumbes, Perú).

Epilachna nigrovittata Crotch, 1874: PERÚ, Amazonas, Pedro Ruiz, 1500 m. 8–II–2009, leg. R. Westerduijn. Vegetation near stream (Museo de Entomología Klaus Raven Büller, Universidad Nacional Agraria La Molina, Lima, Perú).

Epilachna holmgreni (Weise, 1926): PERÚ, Cusco Dept. [Departamento], Wayquecha Field Station, Canopy Trail near road, 13.1856°S 71.58877°W, 2990m, 13-V-2011, [leg.] D.J. Bennet, sweeping, PER-11-DJB-011 (KUNHM).

Eremochilus peregrinus Weise, 1912: PERÚ: Cusco Dept. Villa Carmen field station 12.89497°S 71.40364°W 520m 22.V.2011 D.J. Bennett misc. hand collecting PER-11-DJB-025(KUNHM).

Checklist:

Microweiseinae Leng, 1920

Microweiseini Leng, 1920

Coccidophilus citricola Brèthes, 1905
Coccidophilus lozadai González, 2013*
Coccidophilus occidentalis González, 2013

Serangiini Pope, 1962

Delphastus anthracinus Gordon, 1970
Delphastus berryi Gordon, 1994*
Delphastus huahuai Gordon, 1994 **new record**
Delphastus quinculus Gordon, 1994

Coccinellinae Latreille, 1807

Cephaloscymnini Gordon, 1985

Prodilis maculata Weise, 1902*

Coccidulini Mulsant, 1846

Eupalea venusta Weise, 1899
Mimoscymnus rossi Gordon, 2002*
Rhyzobius lophanthae (Blaisdell, 1892)

Poriini Mulsant, 1850

Poria rubens Weise, 1899*

Chnoodini Mulsant, 1850

Chnoodes abendrothi Kirsch, 1876*
Chnoodes decemmaculata Mader, 1957*
Chnoodes dorsalis Kirsch, 1876*
Chnoodes maculamantis González, 2013*
Chnoodes separata Mader, 1957
Chnoodes splendidus González, 2013*
Chnoodes terminalis Mulsant, 1850
Dioria zonata Kirsch, 1876*
Exoplectra ruberrima Erichson, 1847*
Exoplectra spatularis González, 2013*
Gordonita anomala González, 2013*
Incurvus lesnei (Sicard, 1912)

Oryssomini Gordon, 1974

Gordonoryssomus mirnae Almeida and Santos, 2014*

Azyni Mulsant, 1850

Azya satipoi Gordon, 1980*
Azya scutata Mulsant, 1850
Azya orbigera Mulsant, 1850
Azya orbigera ecuadorica Gordon, 1980
Azya weyrauchi Gordon, 1980*
Pseudoazya boliviana Gordon, 1980 **new record**

Noviini Mulsant, 1846

Anovia peruviana Gordon, 1972*
Anovia punica Gordon, 1972
Rodolia cardinalis (Mulsant, 1850)

Ortaliini Mulsant, 1850

Zenoria discoidalis (Kirsch, 1876)*
Zenoria dozieri Gordon, 1972*
Zenoria lativerpa González and Honour, 2012*
Zenoria papryzyckii Gordon, 1971*
Zenoria peruviana Gordon, 1972*
Zenoria purpurea Gordon, 1972*
Zenoria sylvatica González and Honour, 2012*
Zenoria variabilis Gordon, 1972

Stethorini Dobzhansky, 1924

Parastethorus histrio (Chazeau and Fursch, 1974)
Stethorus grossepunctatus Gordon and Chapin, 1983 **new record**
Stethorus peruvianus González *et al.*, 2008*
Stethorus tridens Gordon, 1982

Scymnini Mulsant, 1846

Nephaspis acuta González, 2009*
Nephaspis aquarius Gordon, 1996
Nephaspis isabelae González, 2009*
Scymnobius ecuadoricus Gordon and González, 2002 **new record**
Scymnobius galapagoensis (Waterhouse, 1845)

Scymnobius triangularis Gordon and González, 2002
Scymnus cerinotum Gordon, 2000*
Scymnus curviger Kirsch, 1876*[(1)]
Scymnus demerarensis Gordon, 2000
Scymnus discimacula Kirsch, 1876*[(1)]
Scymnus hamatus Gordon, 2000
Scymnus quadrimaculatus Kirsch, 1876*[(1)]
Scymnus labiatus Kirsch, 1876*[(1)]
Scymnus loewii Mulsant, 1850
Scymnus mesomelas Kirsch, 1876*[(1)]
Scymnus notatus Kirsch, 1876*[(1)]
Scymnus paprzyckii Gordon, 2000*
Scymnus peruanus Weise, 1929*
Scymnus reyi Kirsch, 1876*[(1)]
Scymnus rubicundus Erichson, 1847
Scymnus simillinus Gordon, 2000
Scymnus spanglerorum Gordon, 2000
Scymnus vulneratus Kirsch, 1876*

Diomini Gordon, 1999

Diomus angela Gordon, 1999
Diomus anthony Gordon, 1999
Diomus bruno Gordon, 1999*
Diomus castilloi González and Honour, 2011*
Diomus chrysanthus Gordon, 1999*
Diomus chrysogonus Gordon, 1999
Diomus cyril Gordon, 1999*
Diomus damasus Gordon, 1999*
Diomus daria Gordon, 1999*
Diomus eleutherius Gordon, 1999*
Diomus eudes Gordon, 1999*
Diomus eusebius Gordon, 1999*
Diomus frances Gordon, 1999*
Diomus hippolytus Gordon, 1999*
Diomus hyacinthus González and Honour, 2011*
Diomus innocentius González and Honour, 2011*
Diomus jerome Gordon, 1999*
Diomus juliana Gordon, 1999*
Diomus leonard Gordon, 1999
Diomus macarius González and Honour, 2011*
Diomus martha Gordon, 1999*
Diomus melchiades Gordon, 1999*
Diomus protase Gordon, 1999*
Diomus secunda Gordon, 1999
Diomus seminulus Mulsant, 1850
Diomus slipinskii González and Honour, 2011*
Diomus thomas Gordon, 1999*
Diomus thoracicus Gordon, 1999
Diomus tucumanus Weise, 1906
Diomus westwerduijni González and Honour, 2011*
Diomus william Gordon, 1999
Diomus xenon González and Honour, 2011*

Scymnillini Casey, 1899

Zagloba mimica González and Aguilera, 2009*
Zilus miroi González and Aguilera, 2009*

Cryptognathini Mulsant, 1850

Cryptognatha auriculata Mulsant, 1850
Cryptognatha gemellata Mulsant, 1850 **new record**
Curticornis bicolor Gordon, 1971*
Curticornis satipensis Gordon, 1971*
Pentilia cincta Kirsch, 1876*
Pentilia dispar Kirsch, 1876*
Pentilia minuta Kirsch, 1876*
Pentilia specularis Kirsch, 1876*

Hyperaspidini Mulsant, 1846

Clypeaspis trilineata Mulsant, 1850
Diazonema fallax Weise, 1926*
Diazonema pubescens Weise, 1926
Hyperaspidius trimaculatus Linnaeus, 1767 [(1)]
Hyperaspis arida Gordon and Canepari, 2008*
Hyperaspis cingulata Korschefsky, 1931*
Hyperaspis esmeraldas Gordon and González, 2011
Hyperaspis festiva Mulsant, 1850
Hyperaspis matronata Mulsant, 1853
Hyperaspis onerata Mulsant, 1850
Hyperaspis prolata Gordon and Canepari, 2008
Hyperaspis proserpinae Mulsant, 1850*[(1)]
Hyperaspis satipoensis Gordon and Canepari, 2008*
Hyperaspis vetusta Weise, 1902*[(1)]
Menoscelis saginata Mulsant, 1850
Peruaspis hypocrita Gordon and Canepari, 2008*
Peruaspis paprzyckii Gordon and Canepari, 2008*
Tenuisvalvae bisquinquepustulata Fabricius, 1801
Tenuisvalvae bromelicola Sicard, 1925

Brachiacanthini Mulsant, 1850

Brachiacantha april Gordon and Canepari, 2014
Brachiacantha bistripustulata (Fabricius, 1801)
Brachiacantha blandula (Weise), 1902
Brachiacantha bruchi Weise, 1906

Brachiacantha buckleyi Crotch, 1874
Brachiacantha darlene Gordon and Canepari, 2014
Brachiacantha groendali (Mulsant), 1850
Brachiacantha hazel Gordon and Canepari, 2014*
Brachiacantha jamie Gordon and Canepari, 2014*
Brachiacantha loricata (Mulsant), 1850
Brachiacantha octopustulata (F.) 1801
Cyrea blandula (Weise, 1902)*
Cyrea jocosa (Mulsant, 1850)*
Cyrea propria (Kirsch, 1876)*
Cyrea renifera (Kirsch, 1876)*
Cyrea staudingeri (Weise, 1901)*
Cyrea thriacantha (Mulsant, 1850)
Dilatitibialis carolinae (Crotch, 1874)
Dilatitibialis connie Canepari and Gordon, 2013
Dilatitibialis edith Canepari and Gordon, 2013*
Dilatitibialis ellen Canepari and Gordon, 2013*
Dilatitibialis florence Canepari and Gordon, 2013*
Dilatitibialis luteola (Mulsant, 1850)
Dilatitibialis mulsanti (Kirsch, 1876)
Dilatitibialis semicincta (Weise, 1899)
Dilatitibialis shannon Canepari and Gordon, 2013
Dilatitibialis thelma Canepari and Gordon, 2013*
Serratitibia abendrothi (Kirsch, 1876)*
Serratitibia barbara Gordon and Canepari, 2013*
Serratitibia beverly Gordon and Canepari, 2013*
Serratitibia bonnie Gordon and Canepari, 2013*
Serratitibia dennise Gordon and Canepari, 2013*
Serratitibia donna Gordon and Canepari, 2013
Serratitibia doris Gordon and Canepari, 2013*
Serratitibia fraudulenta (Kirsch, 1876)
Serratitibia heather Gordon and Canepari, 2013*
Serratitibia judy Gordon and Canepari, 2013*
Serratitibia julie Gordon and Canepari, 2013*
Serratitibia katherine Gordon and Canepari, 2013*
Serratitibia kimberly Gordon and Canepari, 2013*
Serratitibia laura Gordon and Canepari, 2013*
Serratitibia loreto Gordon and Canepari, 2013
Serratitibia mary Gordon and Canepari, 2013*
Serratitibia melissa Gordon and Canepari, 2013*
Serratitibia paprzycki Gordon and Canepari, 2013*
Serratitibia quincemil Gordon and Canepari, 2013*
Serratitibia regularis (Erichson, 1847)*
Serratitibia satipoensis Gordon and Canepari, 2013*
Serratitibia susan Gordon and Canepari, 2013*
Serratitibia teresa Gordon and Canepari, 2013*
Serratitibia uncinata (Mulsant, 1853)

Chilocorini Mulsant, 1846

Curinus coeruleus Mulsant, 1850
Exochomus orbiculus Weise, 1893*[(1)]
Harpasus quadrifolium González *et al*., 2008
Zagreus decempunctatus (Weise, 1893)
Zagreus hexasticta (Crotch, 1874)*

Coccinellini Latreille, 1807

Anatis lebasi (Mulsant, 1850)
Cirocolla conspicillata (Mulsant, 1850)
Coleomegilla maculata limensis (Philippi and Philippi, 1864)
Coleomegilla occulta González, 2014b
Cycloneda ancoralis (Germar, 1824)
Cycloneda andresi Oroz *et al.*, 2009*
Cycloneda arcula (Erichson, 1847)
Cycloneda ecuadorica (Timberlake, 1943) **new record**
Cycloneda ebenina (Mulsant, 1866)*
Cycloneda fryii Crotch, 1874
Cycloneda marcapatae Oroz *et al.* 2009*
Cycloneda reclusa Weise, 1902*
Cycloneda sanguinea (Linnaeus, 1763)
Eriopis alticola Hofmann, 1970*
Eriopis canrash Bustamante *et al.*, 2007*
Eriopis concordia González, 2014
Eriopis connexa (Germar, 1824)
Eriopis heliophila Mulsant, 1850
Eriopis huancavelicae Bustamante *et al.*, 2009*
Eriopis lawalawani Bustamante *et al.*, 2007*
Eriopis minima Hofmann, 1970
Eriopis nobilis Mader, 1958*
Eriopis peruviana Hofmann, 1970*
Eriopis punicola Hofmann, 1970
Eriopis sebastiani Bustamante, 2005*
Harmonia axyridis (Pallas, 1772)
Hippodamia convergens Guerin-Meneville,1836
Neda patula Erichson, 1847
Neda boliviana Weise, 1898
Neda ochracea Erichson, 1847
Neda cardinalis Erichson, 1847*
Neda ostrina Erichson, 1847
Neocalvia blanchardi Mulsant, 1850.
Olla roatanensis Vandenberg, 1992* **new record**
Paraneda pallidula guticollis (Mulsant, 1850)

Halyziini Mulsant, 1846

Oxytella longula Weise, 1902*
Psyllobora abancayana Almeida, 1991*
Psyllobora confluens Fabricius, 1801
Psyllobora huancayensis Almeida, 1991*
Psyllobora lutescens Crotch, 1874
Psyllobora peruana Weise, 1902*

Discotomini Mulsant, 1850

Pristonema coccinea Erichson, 1847*

Epilachnini Mulsant, 1846

Adira nucula (Weise, 1902)*
Epilachna aureola Gordon, 1975
Epilachna aureopilosa Gordon, 1975*
Epilachna basalis (Weise, 1898)*
Epilachna bisbivittata Gordon, 1975*
Epilachna bonplandi Mulsant, 1850
Epilachna cacica (Guerin-Meneville, 1836)
Epilachna callangae Gordon, 1975*
Epilachna ciliata Gordon, 1986*
Epilachna confixa Gordon, 1975*
Epilachna consimilis Gordon, 1975*
Epilachna convergens Crotch, 1874
Epilachna cuscoi Gordon, 1975*
Epilachna cushmani Gordon, 1975*
Epilachna discoidea Erichson, 1847*
Epilachna discolor Erichson, 1847
Epilachna dives Erichson, 1847*
Epilachna divisa (Weise, 1899)*
Epilachna divisoides Gordon, 1975*
Epilachna dorsigera Erichson, 1847*
Epilachna emerita Gordon, 1975*
Epilachna esemephata Gordon, 1986*
Epilachna eusema (Weise, 1904)
Epilachna fausta Erichson, 1847
Epilachna fenestrata Erichson, 1847
Epilachna fenestroides Gordon, 1975*
Epilachna flavofasciata (Laporte, 1840)
Epilachna furtiva Gordon, 1975*
Epilachna fuscopilosa (Weise, 1902)*
Epilachna geometrica (Weise, 1899)*
Epilachna honesta (Weise, 1899)*
Epilachna ignobilis (Weise, 1902)*
Epilachna incaorum Gordon, 1975*
Epilachna languida (Weise, 1899)*
Epilachna lepida Erichson, 1847*
Epilachna mandibularis Gordon, 1975*
Epilachna monovittata Gordon, 1975
Epilachna mutabilis Crotch, 1874
Epilachna nigrovittata Crotch, 1874 **new record**
Epilachna obliqua Gordon, 1975*
Epilachna olmosi Gordon, 1975*
Epilachna ostensa (Weise, 1902)
Epilachna ostensoides Gordon, 1975
Epilachna oviforma Gordon, 1975*
Epilachna pachiteensis (Weise, 1926)*
Epilachna paenulata (Germar, 1824)
Epilachna parastriata Gordon, 1975*
Epilachna pastica (Weise, 1902)
Epilachna patricia Mulsant, 1850
Epilachna peltata Erichson, 1847
Epilachna pemptea Gordon, 1975*
Epilachna persimilis Crotch, 1874
Epilachna peruviana Crotch, 1874*
Epilachna propinqua (Weise, 1898)*
Epilachna pseudolepida Gordon, 1986*
Epilachna pseudostriata Gordon, 1975*
Epilachna quirozensis Gordon, 1975*
Epilachna satipensis Gordon, 1975*
Epilachna schunkei Gordon, 1975*
Epilachna sellata Weise, 1895
Epilachna sexmaculata Kirsch, 1876*
Epilachna simulans Gordon, 1975*
Epilachna staudingeri (Weise, 1902)
Epilachna strictanotata Gordon, 1975*
Epilachna striola (Weise, 1902)*
Epilachna sztolcmani Jadwiszczak and Wegrzynowicz, 2003*
Epilachna transverselineata (Mader, 1958)
Epilachna velata Erichson, 1847
Epilachna viridilineata Crotch, 1874
Epilachna viridinitens Crotch, 1874*
Epilachna vittigera Crotch, 1874
Epilachna v-pallidum Blanchard, 1846
Epilachna woytkowskii Gordon, 1975
Toxotoma andicola Weise, 1899*
Toxotoma chapini Gordon, 1975*
Toxotoma cuzcoensis Gordon, 1975*
Toxotoma disparans Gordon, 1975*
Toxotoma huanucoi Gordon, 1975*
Toxotoma imitator Gordon, 1975*
Toxotoma leechi Gordon, 1975*
Toxotoma longicrura Gordon, 1975*
Toxotoma mimetica Gordon, 1975*
Toxotoma nunenmacheri Gordon, 1975*
Toxotoma opulenta (Weise, 1902)*
Toxotoma orbicula Gordon, 1975*
Toxotoma pilifera (Weise, 1902)
Toxotoma pulchra (Weise, 1902)*
Toxotoma rosae, Gordon, 1975*
Toxotoma rugulosa Weise, 1901*
Toxotoma soukupi Gordon, 1975*
Toxotoma townsendi Gordon, 1975*
Toxotoma tridentata Gordon, 1975*
Toxotoma venusta (Erichson, 1847)*
Toxotoma weuyrauchi Gordon, 1975*

Madaini Gordon, 1875

Eremochilini Gordon and Vandenberg, 1987
Eremochilus peregrinus Weise, 1912
Lorma paprzyckii Gordon, 1975*
Mada amazona (Weise, 1926)

Mada circumflua (Mulsant, 1850)
Mada elegans Gordon, 1975*
Mada insolitaphallus Gordon, 1975*
Mada nexophallus Gordon, 1975*

(1) Species whose types have not been located in the revisions to the corresponding genera or that are located in genera not present in South America, and whose generic location is uncertain.

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