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Beetles (Coleoptera) of Peru: A Survey of the Families. Scarabaeoidea

Brett C. Ratcliffe

University of Nebraska-Lincoln, bratcliffe1@unl.edu

M. L. Jameson

Wichita State University, maryliz.jameson@gmail.com

L. Figueroa

Museo de Historia Natural de la UNMSM, luis_thecell@hotmail.com

R. D. Cave

University of Florida, rdcave@ufl.edu

M. J. Paulsen

University of Nebraska State Museum, mjpgaulsen@unl.edu

See next page for additional authors

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Authors

Brett C. Ratcliffe, M. L. Jameson, L. Figueroa, R. D. Cave, M. J. Paulsen, Enio B. Cano, C. Beza-Beza, L. Jimenez-Ferbans, and P. Reyes-Castillo

Beetles (Coleoptera) of Peru: A Survey of the Families. Scarabaeoidea

B. C. RATCLIFFE,^{1,10} M. L. JAMESON,² L. FIGUEROA,³ R. D. CAVE,⁴ M. J. PAULSEN,⁵
ENIO B. CANO,⁶ C. BEZA-BEZA,⁷ L. JIMENEZ-FERBANS,⁸ AND P. REYES-CASTILLO⁹

ABSTRACT: The 1042 species of Scarabaeoidea known to occur in Peru are listed with their taxonomic placement in families, subfamilies, and tribes.

Peru is known for high species richness, endemism, and habitat complexity, but despite this interest in Peruvian biodiversity, little is known about the beetle fauna of the country (Larsen *et al.*, 2011). The following checklist reflects our most current knowledge about the composition of the superfamily Scarabaeoidea in Peru. Compared with the neighboring country of Chile in which 247 species and 66 genera of scarabaeoid beetles are recorded (Elgueta, 2000), we record 1045 species of Peruvian scarabaeoid beetles, but we know the number will increase with additional exploration and discovery.

This checklist was assembled by compiling data from print and online catalogs, the primary literature that describes new species or reviews genera, some research collections, and personal communications from some entomologists who have personally conducted research in Peru. Clearly, there are other species of scarabaeoids that are not yet recorded from Peru because their data have never been included in the literature. Conversely, there may be a few species recorded from Peru in the older catalogs that do not actually occur in Peru because they were incorrectly identified. Moreover, disparate levels of knowledge exist between scarab groups because some have undergone considerable study while others have not.

In the lists below, an asterisk (*) indicates a species that is known only from Peru. Based upon our data, there are large numbers of scarabs endemic to Peru. This suggests that the scarab beetle fauna of Peru is amazingly rich, and that further exploration and discovery will reveal many more species. Scarab beetles are an important component of Peruvian biodiversity because they are important pollinators of plants, decomposers of waste, economically important pests, and some are valuable culturally for adornment or as a food source. Knowledge about

¹ Systematics Research Collections, University of Nebraska, Lincoln, Nebraska 68588-0514, USA; e-mail: bratcliffel@unl.edu.

² Department of Biological Sciences, Wichita State University, Wichita, Kansas 67260-0026, USA; e-mail: Maryliz.jameson@gmail.com.

³ Departamento de Entomología, Museo de Historia Natural de la UNMSM, Lima, PERU; e-mail: luis_thecell@hotmail.com.

⁴ Indian River Research and Education Center, University of Florida, Fort Pierce, Florida 34945-3138, USA; e-mail: rdcave@ufl.edu.

⁵ Systematics Research Collections, University of Nebraska, Lincoln, Nebraska 68588-0514, USA; e-mail: mjpaulsen@unl.edu.

⁶ Systematic Entomology Laboratory, Universidad del Valle de Guatemala, GUATEMALA; e-mail: ecano@uvg.edu.gt.

⁷ Department of Biological Sciences, University of Memphis, Memphis, Tennessee 38152, USA; e-mail: cfbeza@memphis.edu.

⁸ Universidad de La Guajira, Riohacha, COLOMBIA; e-mail: larryjimenezferbans@gmail.com.

⁹ Instituto de Ecología, A. C., Xalapa 91070, Veracruz, MEXICO; e-mail: pedro.reyes@inecol.mx.

¹⁰ Corresponding Author E-mail: bratcliffel@unl.edu.

Peruvian biodiversity is pivotal for conserving and managing natural resources, food security, poverty reduction, health, biosecurity, new industrial product development, and ecotourism (Smith *et al.*, 2011).

Geotrupidae

Diversity in Peru: 1 subfamily, 4 genera, and 11 species.

Recognition: The body shape is oval or round, and the head is not deflexed. The antennae are 11-segmented with a 3-segmented, opposable club with all antennomeres tomentose. The eyes are completely or partially divided by a canthus. The clypeus is often with a tubercle or horn. The labrum is truncate, prominent, and produced beyond the apex of the clypeus. The mandibles are prominent and produced beyond the apex of the labrum. The pronotum is convex with a base wider than or subequal to the elytral base and with or without tubercles, ridges, horns, or sulci. The elytra are convex, with or without striae. The pygidium is concealed by the elytra (Jameson, 2002a).

Habitat: Life histories of the geotrupids are diverse, and food habits vary from saprophagous to coprophagous and mycetophagous. Adults of most species are secretive, living most of their life in burrows. Although adults do not tend larvae, adults provision food for larvae in brood burrows. Adults dig vertical burrows (15–200 cm in depth) and provision larval cells with dead leaves, cow dung, horse dung, or humus. Burrows of some species extend to a depth of 3.0 m (Jameson, 2002a).

Notes: The family Geotrupidae includes 68 genera and about 620 species (Scholtz and Browne, 1996). The subfamily Geotrupinae does not occur in South America. The following checklist of Peruvian Scarabaeidae is from Howden (1985, 2002) and Howden and Martínez (1978).

BOLBOCERATINAE

Athyreini

Athyreus bicornus Howden, 2002*

Athyreus larseni Howden, 2002*

Athyreus martinezi Howden, 1995

Athyreus pyriformis Howden and Martínez, 1978*

Athyreus tribuliformis Felsche, 1909*

Neothyreus fallolobus Howden, 2006

Neothyreus ornatus Howden, 1985*

Neothyreus rufobrunneus Howden, 1985

Neothyreus rufoventris Howden, 1985*

Bolboceratini

Bolboceras baeri Boucomont, 1902

Zefevazia peruana (Boucomont, 1902)*

Lucanidae

Diversity in Peru: 1 subfamily, 14 genera, 40 species.

Recognition: The head is prognathous and not deflexed. The antennae are geniculate or straight, 10-segmented, and with a 3–7 segmented club (all antennomeres unopposable and tomentose). The first antennomere is often subequal in length to the remaining antennomeres.

Habitat: Lucanids are usually associated with decaying wood and logs in coniferous and deciduous forests. Adults of some species are attracted to lights at night and some feed at sap flows from fluxing trees. The eggs are usually laid in crevices in bark or logs, and the larvae feed on decaying wood.

Notes: The stag beetle family Lucanidae includes four subfamilies, 108 genera, and around 1,500 species worldwide. In the New World, there are 41 genera and 223

species with representatives of each of the four subfamilies (Paulsen and Ratcliffe, 2005). Most New World taxa are Neotropical. The following checklist of Peruvian Lucanidae is from Paulsen (2013).

LUCANINAE

Brasilucanini

Brasilucanus acomus Ratcliffe, 1984

Chiasognathini

Sphaenognathus alticollis Möllenkamp, 1912

Sphaenognathus gaujoni (Oberthür, 1885)

Sphaenognathus giganteus Boileau, 1911

Sphaenognathus monguilloni Lacroix, 1972*

Sphaenognathus peruvianus (Waterhouse, 1869)

Sphaenognathus prionoides Buquet, 1838

Sphaenognathus xerophilus Bartolozzi and Onore, 2006*

Sclerostomini

Aegognathus aguirei Arnaud and Bomans, 2007*

Aegognathus confusus Arnaud and Bomans, 2006*

Aegognathus leuthneri leuthneri Van der Poll, 1886

Aegognathus leuthneri damasoi Arnaud and Bomans, 2006*

Aegognathus similis Arnaud and Bomans, 2006*

Aegognathus soulai Arnaud and Bomans, 2004*

Aegognathus waterhousei Leuthner, 1883*

Andinolucanus inesae Arnaud and Bomans, 2006*

Arnaudius bomansi Grossi and Bartolozzi, 2011*

Arnaudius digennaroi (Arnaud *et al.*, 2008)*

Arnaudius koikei (Arnaud *et al.*, 2007)*

Auxicerus platyceps Waterhouse, 1883*

Cantharolethrus azambrei Boileau, 1897

Cantharolethrus elongatus Lacroix, 1982*

Cantharolethrus steinheili Parry, 1875*

Incadorcus ashaninka Grossi, 2011*

Incadorcus cuzcoensis Arnaud *et al.*, 2007*

Incadorcus damasoi Arnaud and Bomans, 2006*

Incadorcus michelleae Arnaud and Bomans, 2006*

Incadorcus shaunai Arnaud *et al.*, 2007*

Incadorcus zugerii Arnaud and Bomans, 2006*

Metadorcinius beneshi (Martínez, 1953)

Metadorcinius lineatus (Deyrolle, 1864)*

Metadorcinius yamauchii Arnaud *et al.*, 2008*

Metadorcus ebeninus Deyrolle, 1864

Onorelucanus boileauii (Weinreich, 1960)*

Onorelucanus marujae (Arnaud *et al.*, 2008)*

Onorelucanus noguchii (Arnaud and Bomans, 2007)*

Pseudoscortizus incredibilis Arnaud *et al.*, 2008

Sclerostomus bartolozzii Arnaud and Bomans, 2007*

Sclerostomus damasoi Arnaud and Bomans, 2006*

Sclerostomus wendyae Arnaud and Bomans, 2006*

Scortizus prodigiosus Arnaud *et al.*, 2007*

Passalidae

Diversity in Peru: 1 subfamily, 2 tribes, 6 genera, 50 species.

Recognition: The body shape is elongate-cylindrical and depressed, and the length is 13–80 mm. Their color is black and shiny. The head is prognathous, narrower than the thorax, and often with a dorsomedian horn. The antennae have ten antennomeres including a 3 to 5-segmented club that is not opposable and not geniculate but is capable of being rolled together. The mandibles are large and project beyond the apex of the labrum, and the apex of the labrum is large, rounded, and toothed. The pronotum is broader than the head, quadrate, and the surface is smooth with a median, longitudinal groove. The elytra are elongate, parallel sided, with rounded apices and well-developed striae. The pygidium is concealed by the elytra (Schuster, 2002).

Habitat: Passalid adults live in well-decayed logs and stumps with their larvae in subsocial family groups. All stages are found in galleries of wood that are excavated by the adults. Eggs are usually placed together in a nest of frass. Adults and larvae communicate by stridulating and can produce different calls. Adults care for larvae and prepare food by chewing it and presumably mixing it with saliva (Schuster, 2002). One species (*Ptichopus angulatus* [L.]) inhabits the waste chamber in nests of leaf cutter ants, *Atta* species.

Notes: Most New World taxa occur in the Neotropics. Hincks and Dibb (1935) cited passalid species from Peru, and Van Doesburg (1942) provided a checklist of Peruvian Passalidae.

PASSALINAE

Passalini

- | | |
|---|--|
| <i>Passalus abortivus</i> Percheron, 1835 | <i>Passalus plicatus</i> Percheron, 1835 |
| <i>Passalus aduncus</i> Erichson, 1847 | <i>Passalus prominens</i> Gravely, 1918* |
| <i>Passalus anguliferus</i> Percheron, 1835 | <i>Passalus pubicostatus</i> (Kuwert, 1898) |
| <i>Passalus arrowi</i> Hincks, 1934 | <i>Passalus pugionatus</i> Burmeister, 1847 |
| <i>Passalus barrus</i> Boucher and Reyes-Castillo, 1991 | <i>Passalus pugionifer</i> (Kuwert, 1891)* |
| <i>Passalus caelatus</i> Erichson, 1847 | <i>Passalus punctiger</i> Le Peletier and Serville, 1825 |
| <i>Passalus coniferus</i> Eschscholtz, 1829 | <i>Passalus rhodocanthopoides</i> (Kuwert, 1891) |
| <i>Passalus convexus</i> Dalman, 1817 | <i>Passalus rotundatus</i> Hincks, 1940* |
| <i>Passalus elfriedae</i> Lüderwaldt, 1931 | <i>Passalus rusticus</i> Percheron, 1835 |
| <i>Passalus episcopus</i> (Kuwert, 1898)* | <i>Passalus schneideri</i> (Kuwert, 1898)* |
| <i>Passalus huebneri</i> (Kuwert, 1898)* | <i>Passalus spinifer</i> Percheron, 1835 |
| <i>Passalus inca</i> (Zang, 1905)* | <i>Passalus zangi</i> Hincks, 1934 |
| <i>Passalus interruptus</i> (L., 1758) | <i>Paxillus camerani</i> (Rosmini, 1902) |
| <i>Passalus interstitialis</i> Eschscholtz, 1829 | <i>Paxillus forsteri</i> Lüderwaldt, 1927 |
| <i>Passalus latifrons</i> Percheron, 1841 | <i>Paxillus leachi</i> MacLeay, 1819 |
| <i>Passalus occipitalis</i> Eschscholtz, 1829 | <i>Spasalus crenatus</i> (MacLeay, 1819) |
| <i>Passalus peruvianus</i> (Kuwert, 1898) | <i>Spasalus kaupi</i> Boucher, 2004* |

Proculini

- | | |
|--|--|
| <i>Popilius amazonicus</i> Gravely, 1918* | <i>Veturius inca</i> Boucher, 2006 |
| <i>Popilius marginatus</i> (Percheron, 1835) | <i>Veturius libericornis</i> Kuwert 1891 |
| <i>Verres furcillabris</i> (Eschscholtz, 1829) | <i>Veturius sinuosus</i> (Drapiez, 1820) |
| <i>Veturius amazonicus</i> Boucher, 2006 | <i>Veturius spinipes</i> (Zang, 1905) |
| <i>Veturius arawak</i> Boucher, 2006 | <i>Veturius standfussi</i> Kuwert, 1891 |
| <i>Veturius cephalotes</i> (Le Peletier and Serville, 1825) | <i>Veturius tarsipes</i> Boucher, 2006* |
| <i>Veturius ecuadoris</i> Kuwert, 1898 | <i>Veturius unicornis</i> Gravely, 1918 |
| <i>Veturius guntheri</i> Kuwert, 1898 [= <i>peruvianus</i> of Arrow] | <i>Veturius yahua</i> Boucher, 2006 |

Trogidae

Diversity in Peru: 1 subfamily, 2 genera, 10 species.

Recognition: Adult trogids are recognized by their warty, brown to gray to black, dirt-encrusted appearance and flat abdominal sternites.

Habitat: Adults and larvae are among the last scavengers that visit the dry remains of dead animals, where they feed on feathers, fur, and skin. They also feed on organic matter found in the nests of mammals and birds.

Notes: The world fauna consists of 4 genera and 300 species (Scholtz, 1982). The following checklist of Peruvian trogids is from Scholtz (1982).

TROGINAE

- | | |
|---|---|
| <i>Omorgus howelli</i> (Howden and Vaurie, 1957) | <i>Polynoncus bullatus</i> (Curtis, 1845) |
| <i>Omorgus suberosus</i> (Fabricius, 1775) | <i>Polynoncus ecuadorensis</i> (Vaurie, 1962) |
| <i>Omorgus persuberosus</i> (Vaurie, 1962) | <i>Polynoncus gordonii</i> (Steiner, 1981)* |
| <i>Polynoncus aeger</i> (Guérin-Méneville, 1844)* | <i>Polynoncus gemmingeri</i> (Harold, 1872) |
| <i>Polynoncus aricensis</i> (Gutiérrez, 1950) | <i>Polynoncus peruanus</i> (Erichson, 1847) |
| <i>Polynoncus brevicollis</i> (Eschscholtz, 1822) | <i>Polynoncus sallei</i> (Harold, 1872) |

Ochodaeidae

Diversity in Peru: 1 subfamily, 1 genus, 1 species.

Recognition: Ochodaeids are elongate and convex. Their color is testaceous, brown, reddish brown, brown, black, or occasionally bicolorous. The head is not deflexed. The antennae have 9 or 10 antennomeres, with a 3-segmented, opposable club, and all antennomeres are tomentose. The clypeus is simple or tuberculate on the anterior margin. The labrum is produced beyond the apex of the clypeus, often bilobed and emarginate, and prominent. The prominent mandibles are produced beyond the apex of the labrum. The pronotum is convex, subquadrate, mostly punctate and setose and without tubercles, ridges, horns, or sulci. The mesotibia at the apex has at least one apical spur pectinate. The elytra are convex, with or without striae, often punctate, or granulate and setose, but some are smooth. The pygidium is exposed or concealed by the elytra (Carlson, 2002).

Habitat: Ochodaeidae are most often collected at lights, sometimes in large numbers. Adults of a few species are active during the day. Many species prefer sandy areas. Adults may spend the day in subterranean burrows, where they may feed on fungi. Little is known about the biology of Ochodaeidae. There are few observations of adult or larval habits except that adults of most species are nocturnal and are attracted to lights (Carlson, 2002).

Notes: The family Ochodaeidae includes 10 genera and about 80 species worldwide (Carlson and Paulsen, 2012).

OCHODAEINAE

Parochodaeus bituberculatus (Erichson, 1847)*

Hybosoridae

Diversity in Peru: 3 subfamilies, 11 genera, 33 species.

Recognition: Hybosorids are light brown to black and glossy. The head is not deflexed. The antennae are 10-segmented with a 3-segmented, opposable club with the last 2 antennomeres tomentose. The first antennomere of the club is hollowed to receive antennomeres 2 and 3. The clypeus generally lacks a tubercle or horn. The prominent labrum is truncate and produced beyond the apex of the clypeus. The large mandibles project beyond the apex of the labrum and have the external edge rounded with the apices pointed.

Habitat: Little life history information is known for hybosorids. Adults feed on both invertebrate and vertebrate carrion in the early stages of decomposition. Some species are found in dung, and others are attracted to lights at night (Jameson, 2002b). Ceratocanthines are commonly found in clusters of dead leaves and can be collected using a beating sheet.

Notes: The family Hybosoridae worldwide contains 4 subfamilies, 35 genera, and about 220 species (Ocampo, 2006; Ocampo and Ballerio, 2006). Species are widely distributed in the tropics. The classification below is from Ocampo and Ballerio (2006).

ANAIDINAE

Anaides onofrii Ocampo, 2006

Anaides rugosus Robinson, 1948*

Chaetodus allsoppi Martínez, 1988*

Chaetodus asuai Martínez, 1956

Chaetodus mimi Ocampo, 2006*
Chaetodus smithi Ocampo, 2006*
Chaetodus tricarinatus Ocampo, 2006
Hybochaetodus disruptus Ocampo, 2006*

Hybochaetodus erugocarinatus Ocampo, 2006*
Hybochaetodus flaco Ocampo, 2002*
Hybochaetodus obscurus Arrow, 1909*

CERATOCANTHINAE

Anopsiostes punctatus Paulian, 1982
Astaenomoechus americanus (Boucomont, 1936)
Astaenomoechus criberrimus Paulian, 1982*
Ceratocanthoides undatus (Petrovitz, 1973)
Ceratocanthus clypealis (Lansberge, 1887)*
Ceratocanthus inca Paulian, 1982*
Ceratocanthus mathani Paulian, 1982*
Ceratocanthus perpunctatus Paulian, 1982*
Ceratocanthus politus (Erichson, 1843)
Ceratocanthus punctulatus Lansberge, 1887*
Ceratocanthus seriatus (Erichson, 1843)

Ceratocanthus suturalis (Lansberge, 1887)
Germarostes antiquus (Erichson, 1843)
Germarostes aphodioides (Illiger, 1800)
Germarostes carltoni Howden and Gill, 2005*
Germarostes geayi Paulian, 1982*
Germarostes macleayi (Perty, 1830)
Germarostes semituberculatus (Germar, 1843)
Germarostes sulcipennis Harold, 1875*
Trachycrusus lescheni Howden and Gill, 1995*
Trachycrusus striatulus Howden and Gill, 1995*

HYBOSORINAE

Coilodes punctipennis Arrow, 1909

Scarabaeidae

Diversity in Peru: 10 subfamilies, 194 genera, and 898 species.

Recognition: Scarabs are 2.0–160.0 mm in length with variable shape and color, with or without metallic reflections, and with or without vestiture. The antennae have 10 antennomeres (some 7–12) with a 3 to 5-segmented, opposable club; the club has the apical antennomeres nearly glabrous (Melolonthinae, Dynastinae, Rutelinae, Cetoniinae) or with all antennomeres tomentose (Aphodiinae, Scarabaeinae). The clypeus is with or without a tubercle or horn. The labrum is distinct in most taxa, and produced beyond the apex of the clypeus or not. The mandibles are variable, produced beyond the apex of the labrum or not. The pronotum is variable, with or without horns or tubercles. The elytra are convex or flattened and with or without striae. The pygidium is concealed by the elytra (Aphodiinae, Scarabaeinae) or exposed (Scarabaeinae, Melolonthinae, Dynastinae, Rutelinae, Cetoniinae). The scutellum is exposed or not, and its shape is triangular or parabolic. The legs have transverse or conical coxae; the protibiae are tridentate, bidentate, or serrate on the outer margin; the meso- and metatibiae at the apex have 1 or 2 spurs; the tarsi are 5-5-5, and the anterior tarsi are absent in some Scarabaeinae; the tarsal claws are variable, equal in size or not, and simple or toothed. The abdomen has 6 free sternites; the 7 functional abdominal spiracles are situated in the pleural membrane (Aphodiinae, Scarabaeinae) or in the sternites and tergites (Melolonthinae, Dynastinae, Rutelinae, and Cetoniinae).

Habitat: Scarab beetles occupy many habitats ranging from deserts to tropical rainforests and have diverse life histories. Depending on the group, adults feed on foliage, dung, flowers, or sap while the larvae are phytophagous, coprophagous, or detritivorous. Some are diurnal, while many are nocturnal in their activity patterns.

Notes: Members of the subfamily **Aphodiinae**, known as the aphodiine dung beetles, are primarily dung and detritus feeders. All of the species are small, rarely exceeding 12 mm in length. Worldwide, the subfamily contains 12 tribes,

approximately 280 genera, and 3,200 species with 9 tribes, 128 genera and 816 species in the New World (Skelley, 2008). In Peru, there are 24 genera and 63 species (Skelley, 2008).

The subfamily **Scarabaeinae** is commonly referred to as dung beetles. Most species feed on mammal dung, but others specialize upon the dung of other vertebrates and invertebrates as well as on carrion, mushrooms, rotting fruit, and other decomposing plant material. The world fauna includes over 5,000 described species in 234 genera, with about 1,800 species just in the genus *Onthophagus* (Gill, 2005). The tribal classification below follows that of Hanski and Cambefort (1991). Peru is incredibly rich in dung beetles, and over 150 species are recorded from a single lowland forest site in Madre de Dios (Los Amigos, Peru) (Trond Larsen, personal communication to BCR, February 2014). Larsen and Génier (2008a, b) provided color guides for identifying dung beetles at two different biological stations in Peru. Peru has 40 genera and 278 species, but many more will be recognized in the future, especially in the genera *Ateuchus*, *Canthidium*, *Dichotomius*, and *Uroxys*. In comparison, neighboring Brazil includes 49 genera and 618 species (Vaz-de-Mello, 2000).

The **Melolonthinae**, often called May beetles, June beetles, or leaf chafers, are cosmopolitan in distribution and one of the largest and most diverse subfamilies of Scarabaeidae. There are approximately 750 genera and over 11,000 species worldwide, with about 90 genera in the New World (Evans and Smith, 2005). Peru has 20 genera and 82 species, but this number will increase as more species are recognized. This is not now easily accomplished because identification of some genera and many species remains in a state of confusion. The tribes are still unresolved due to the lack of definition and inconsistent use of characters (Evans and Smith, 2005). Reliable identifications are difficult since the majority of descriptions prior to 1940 lacked illustrations or comparisons with other similar species.

The subfamily **Rutelinae** (leaf chafers) includes 7 tribes, 2 of which do not occur in Peru (Adoretini from the Old World and Alvarengiini from southern Brazil), and approximately 4,300 species. Based on this checklist, the leaf chafers of Peru encompass a rich fauna with 52 genera, 270 species and subspecies, and 150 endemic species. The neighboring country of Ecuador includes 53 genera, 298 species, and 92 endemic species (Paucar-Cabrera, 2005). The last compilation of ruteline species of Peru was a product of the Hamburg Southern Peru Expedition in 1936, and this yielded 29 genera and 85 species (Ohaus, 1952).

Because of the economic importance and interest in the Rutelinae, classification and nomenclature of the group is undergoing extensive revisions. This checklist reflects changes in the tribes Anomalini (Ramírez-Ponce and Morón, 2009; Morón and Ramírez-Ponce, 2012), Anoplognathini (Smith, 2003), Anatistini (previously Spodochlamyini; Jameson and Ratcliffe, 2011), Geniatini (Hawkins and Jameson, 2005; Soula, 2010), and Rutelini (Soula, 1998, 2002a, b, 2003, 2005, 2006a, b, 2008, 2009, 2010, 2011a, b; Jameson, 1998; Moore and Jameson, 2013). It should be noted that Soula's species concept was typological as well as topological; specimens that displayed variation from the type specimen and/or specimens from unique localities were often described as new species, subspecies, or varieties, thus reflecting a "stamp collector" view of biodiversity. As a result, Soula greatly overestimated ruteline diversity by describing many new genera and species that we believe will become

invalid. In this checklist, Soula's taxa comprise nearly half of the ruteline diversity (119 species and 31 subspecies) in Peru. Because Soula's names were established in accordance with the rules of zoological nomenclature, the names must be considered as available. We do not address validity of Soula's species and genera here, but we caution the user in accepting Soula's classification and species concepts. Because of Soula's overestimation of ruteline diversity, lack of survey throughout South America, and poor taxonomic foundation, the Rutelinae are currently poor bioindicators for habitat conservation. Rutelines are important ecologically as pollinators and decomposers; agriculturally as consumers of crop leaves, roots, and fruits; and culturally as food and decorative adornment. Species in the subfamily are often highly metallic and large (up to 50 mm in length). Because of their beauty and abundance, the Shuar people (also Achuar, apach, inkis, jívaros, or jíbaros) of the eastern Amazonian areas in Peru and Ecuador use the bodies of some rutelines (especially *Chrysophora chrysochlora*) to create headpieces and necklaces (Ratcliffe, 2006). These decorative pieces are now popular among tourists and local people alike.

The subfamily **Dynastinae** is one of the most conspicuous subfamilies of the beetle family Scarabaeidae. Members of the subfamily occur in all the major biogeographic areas of the world (except the polar regions), although most species are found in the tropics, specifically the New World tropics. Dynastines comprise 196 genera and about 1,500 species grouped among 8 tribes. Six tribes, 87 genera, and at least 800 species occur in the New World, and most of these species occur in the Neotropics. Our checklist for Peru currently has 39 genera and 182 species. By comparison, Mexico, another large and megadiverse country, has 30 genera and 196 species (Ratcliffe *et al.*, 2013), while Costa Rica and Panama together have 36 genera and 158 species (Ratcliffe, 2003).

Adult dynastines are small (4 mm) to very large (160 mm) beetles. The males in some species (principally Dynastini, Agaocephalini, and Oryctini) possess prominent and often spectacular horns on the head and/or prothorax which, together with their large size, have given rise to such popular names for them as "rhinoceros," "elephant", "hercules", and "unicorn" beetles. In fact, the entire subfamily is usually referred to as the rhinoceros beetles even though the majority of species do not possess horns. The adults of nearly all species are nocturnal or crepuscular, and many are readily attracted to lights at night. Adult dynastines are known to feed on ripe or rotting fruits, slime fluxes, and plant roots. The adults of some Cyclocephalini are important pollinators of palms and aroids when they feed on the floral parts of these plants.

The subfamily **Cetoniinae**, or flower chafers, are most abundant in Africa and Asia. In the New World they comprise 6 tribes in 41 genera with approximately 275 species (Krajcik, 2012). In Peru there are 4 tribes containing 8 genera and 18 species. The genus *Gymnetis* is still in need of revision, and the species names below have presumed synonyms that may turn out to be valid species.

The following checklist of Peruvian Scarabaeidae is extracted from many sources, principal among them are Ocampo and Colby (2009) (Allidiostomatinae); Skelley (2008), Smith and Skelley (2007), and Stebnicka (2005, 2007, 2009) (Aphodiinae); Edmonds (1994, 2000), Edmonds and Zidek (2010, 2012), and Figueroa *et al.* (2014) (Scarabaeinae in part); Evans and Smith (2009) (Melolonthinae); Machatschke (1972), Villatoro (2002), Jameson (1998), and Soula (1998–2011) (Rutelinae); Colby

(2009) (Orphninae), Endrödi (1966–1985) (Dynastinae); Erichson (1847) (Peru); Blackwelder (1944) (Scarabaeoidea), and Krajcik (2012). The older checklists in particular should be used with caution because classification and some names may have changed.

APHODIINAE

Aphodiini

Aidophus infuscatopennis (Schmidt, 1909)
Aphodius pseudolividus Balthasar, 1941
Blackburneus laxepunctatus (Schmidt, 1910)
Gonaphodiellus castanescens (Petrovitz, 1973)
Gonaphodiellus chapini (Hinton, 1934)
Gonaphodiellus nigrinus (Schmidt, 1916)*

Neotrichaphodioides woytkowskii Dellacasa, Dellacasa, and Skelley, 2010*
Orodaliscoides rugosiceps (Harold, 1859)
Paranimbus peruanus (Erichson, 1834)
Trichaphodiellus brasiliensis (Laporte, 1840)

Eupariini

Ataenopsis regulis (Balthasar, 1947)
Ataenius abancay Stebnicka, 2005*
Ataenius aequatorialis Petrovitz, 1961
Ataenius atramentarius (Erichson, 1847)
Ataenius attenuator Harold, 1874
Ataenius buenavistae Stebnicka, 2001
Ataenius carinator Harold, 1874
Ataenius catenulatus (Erichson, 1847)*
Ataenius columbicus Harold, 1889
Ataenius complicatus Harold, 1869
Ataenius costulifer Balthasar, 1941*
Ataenius crenaticollis Petrovitz, 1973
Ataenius gracilis (Melsheimer, 1844)
Ataenius huanus Stebnicka, 2007
Ataenius icanus Balthasar, 1951*
Ataenius impiger Schmidt, 1916
Ataenius lamarensis Stebnicka, 2007
Ataenius montanus Schmidt, 1911
Ataenius morator Harold, 1869
Ataenius napoensis Stebnicka, 2007
Ataenius nugator Harold, 1880
Ataenius palmaritoensis Stebnicka, 2007

Ataenius petrovitzi Balthasar, 1960
Ataenius picinus Harold, 1868
Ataenius platensis (Blanchard, 1846)
Ataenius rubrotessellatus (Blanchard, 1843)
Ataenius santarosae Stebnicka, 2007
Ataenius sculptilis Harold, 1868
Ataenius siminasus Petrovitz, 1973
Ataenius strigicaudus Bates, 1887
Ataenius tambopatae Stebnicka, 2001*
Auperia andamanensis (Koshantschikov, 1916)
Auperia capitosus (Harold, 1867)
Auperia huebneri (Petrovitz, 1970)
Auperia iquitosae (Stebnicka, 2002)
Auperia loretoensis (Stebnicka, 2002)*
Euparixia boliviana Gordon and McCleve, 2003
Euparixiodes johnsoni Stebnicka, 1998
Lomanoxoides mapitunari Stebnicka and Skelley, 2005*
Odontolytes iquitosae (Stebnicka, 2007)
Passaliolla corticalis (Bates, 1887)
Saprosites dentipes Harold, 1867
Saprosites parallelus Harold, 1867
Saprosites sulcatus Harold, 1869

Odontolochini

Amerilochus cinereus Skelley, 2007*
Saprolochus tambopatae Stebnicka and Galante, 2007
Saprolochus tridentatus Skelley, 2007

Saprositellus denticulatus Balthasar, 1967
Saprositellus peruanus Stebnicka, 2003*
Stebnickiella zosterixys Skelley, 2007*

Psammodiini

Mysarus peruanus Petrovitz, 1962*

Rhyparini

Aschnarhyparus peregrinus (Hinton, 1934)

Stereomerini

Termitaxis holmgreni Krikken, 1970*

SCARABAEINAE

Onthophagini

Digitonthophagus gazella (Fabricius, 1787)
Onthophagus bidentatus Drapiez, 1819*
Onthophagus clypeatus Blanchard, 1846
Onthophagus coscineus Bates, 1887
Onthophagus haematopus Harold, 1875
Onthophagus marginicollis Harold, 1880
Onthophagus onorei Zunino and Halffter, 1998
Onthophagus onthochromus Arrow, 1913
Onthophagus ophion Erichson, 1847

Oniticellini

Eurysternus caribaeus (Herbst, 1789)
Eurysternus cayemensis Laporte, 1840
Eurysternus contractus Génier, 2009
Eurysternus foedus Guérin-Méneville, 1830
Eurysternus gracilis Génier, 2009
Eurysternus hamaticollis Balthasar, 1939
Eurysternus howdeni Génier, 2009
Eurysternus hypocrita Balthasar, 1939
Eurysternus inca Génier, 2009
Eurysternus inflexus Germar, 1824

Canthonini

Anisocanthon villosus (Harold, 1868)
Canthon aberrans (Harold, 1868)
Canthon aequinoctialis Harold, 1868
Canthon angustatus Harold, 1867
Canthon balteatus Boheman, 1858
Canthon bimaculatus Schmidt, 1922
Canthon brunneus Schmidt, 1922
Canthon chiriguano Martínez and Halffter, 1972
Canthon coloratus Schmidt, 1922
Canthon conformis Harold, 1868
Canthon fulgidus Redtenbacher, 1867
Canthon fuscipes Erichson, 1847
Canthon gemellatus Erichson, 1847
Canthon helleri Schmidt, 1922
Canthon janthinus Blanchard, 1843
Canthon juvenis Harold, 1868
Canthon laesum Erichson, 1847
Canthon lituratus Germar, (1813)
Canthon luteicollis Erichson, 1847
Canthon sp. aff. *matthewsi* Martínez and Halffter, 1972
Canthon monilifer Blanchard, 1843
Canthon mutabilis Lucas, 1857
Canthon muticus Harold, 1867
Canthon pallidus Schmidt, 1922
Canthon sp. aff. *pallidus* Schmidt, 1922
Canthon paraguayana Balthasar, 1939
Canthon quadriguttatus (Olivier, 1789)
Canthon quinquemaculatus Laporte, 1840
Canthon rubescens Blanchard, 1843
Canthon semiopacus Harold, 1868

Onthophagus osculatii Guérin-Méneville, 1855
Onthophagus ptox Erichson, 1847*
Onthophagus ranunculus Arrow, 1913
Onthophagus rhinophyllus Harold, 1868
Onthophagus rubescens Blanchard, 1846
Onthophagus schunckeii Paulian, 1936*
Onthophagus sp. aff. *tristis* Harold, 1873
Onthophagus xanthomerus Bates, 1887
Onthophagus sp. aff. *xanthomerus* Bates, 1887

Eurysternus lanuginosus Génier, 2009
Eurysternus marmoreus Laporte, 1840
Eurysternus nigrovirens Génier, 2009
Eurysternus plebejus Harold, 1880
Eurysternus squamosus Génier, 2009
Eurysternus streblus Génier, 2009
Eurysternus strigilatus Génier, 2009
Eurysternus vastiorum Martínez, 1988
Eurysternus wittmerorum Martínez, 1988

Canthon septemmaculatus septemmaculatus (Latreille, 1807)
Canthon septemmaculatus histrio LePeletier and Serville, 1828
Canthon sericatus Schmidt, 1922
Canthon simulans Martínez, 1950
Canthon smaragdulus (Fabricius, 1781)
Canthon subhyalinus Harold, 1867
Canthon triangulare Drury, 1870
Canthon unicolor Blanchard, 1843
Canthon velutinus Harold, 1868
Canthon virens chalybaeus Blanchard, 1843
Canthonella sp. aff. *amazonica* Ratcliffe and Smith, 1999
Canthonella barrerai Halffter and Martínez, 1968
Canthonella sp. aff. *catharinensis* Pereira and Martínez, 1956
Canthonella cf. *gomezi* Halffter and Martínez, 1968
Canthonidia rubromaculata (Blanchard, 1846)
Cryptocanthon campbellorum Howden, 1973
Deltochilum aequinoctiale Buquet, 1844
Deltochilum amazonicum Bates, 1887
Deltochilum cf. *aureopilosum* Paulian, 1939
Deltochilum burmeisteri Harold, 1867
Deltochilum carinatum Westwood, 1837
Deltochilum crenulipes Paulian, 1938
Deltochilum erodioides Harold, 1867
Deltochilum fuscocupreum Bates, 1870
Deltochilum granulatatum Bates, 1870
Deltochilum howdeni Martínez, 1955
Deltochilum hyponum Buquet, 1844

Deltochilum sp. aff. *komareki* Balthasar, 1939
Deltochilum mexicanum Burmeister, 1848
Deltochilum orbiculare Lansberge, 1874
Deltochilum peruamum Paulian, 1939
Deltochilum pretiosum Harold, 1875
Deltochilum pseudoicarum Balthasar, 1939
Deltochilum robustus Molano and Gonzalez, 2009
Deltochilum tessellatum Bates, 1870
Deltochilum valgum Burmeister, 1873
Deltochilum sp. aff. *valgum* Burmeister, 1873
Malagoniella astyanax (Olivier, 1789)
Malagoniella cupreicollis Waterhouse, 1890*
Pseudocanthon felix (Arrow, 1913)
Pseudocanthon xanthurum (Blanchard, 1843)

Dichotomiini

Anomiopus andrei Canhedo, 2006
Anomiopus batesi (Waterhouse, 1891)
Anomiopus brevipes (Waterhouse, 1891)
Anomiopus cambeforti Canhedo, 2006*
Anomiopus foveicollis Canhedo, 2006
Anomiopus gilli Canhedo, 2006*
Anomiopus idei Canhedo, 2006*
Anomiopus intermedius (Waterhouse, 1891)
Anomiopus pictus (Harold, 1862)
Anomiopus pishtaco Edmonds and Figueroa, 2013*
Anomiopus pumilius Canhedo, 2006
Anomiopus smaragdinus (Westwood, 1842)
Anomiopus validus Canhedo, 2006*
Ateuchus aeneomicans (Harold, 1868)
Ateuchus cereus (Harold, 1868)
Ateuchus columbianus (Harold, 1868)
Ateuchus connexus (Harold, 1868)
Ateuchus sp. aff. *laevicollis* (Harold, 1868)
Ateuchus peruamum (Balthasar, 1939)*
Ateuchus pygidialis (Harold, 1868)
Ateuchus sp. aff. *pygidialis* Harold, 1868
Ateuchus scatimoides (Balthasar, 1939)
Ateuchus sp. aff. *setulosus* Balthasar, 1939
Ateuchus simplex (Le Peletier and Serville, 1828)
Ateuchus striatulus (Preudhomme de Borre, 1886)
Ateuchus substriatus (Harold, 1868)
Ateuchus viridimicans (Boucomont, 1935)
Besourenge horacioi (Martínez, 1967)
Bdelyrus cochabambae Cook, 2000
Bdelyrus howdeni Cook, 1998
Bdelyrus iquitosensis Cook, 2000*
Bdelyrus lobatus Cook, 1998*
Bdelyrus parvus Cook, 1998
Bdelyrus pecki Cook, 1998
Bdelyrus peruviansis Cook, 1998*
Bradypodidium adisi (Ratcliffe, 1980)
Canthidium angusticeps (Bates, 1887)
Canthidium atramentarium Balthasar, 1939
Canthidium basipunctatum Balthasar, 1939
Canthidium batesi Harold, 1867
Canthidium bicolor Boucomont, 1928

Scybalocanthon aereus (Schmidt, 1922)
Scybalocanthon imitans (Harold, 1868)
Scybalocanthon moniliatus (Bates, 1887)
Scybalocanthon pinopterus (Kirsch, 1873)
Scybalocanthon sexspilotus (Guérin-Ménéville, 1855)
Scybalocanthon trimaculatus (Schmidt, 1922)
Scybalocanthon zischkai Martínez, 1949
Scybalophagus rugosus (Blanchard, 1846)
Streblopus opatroides Lansberge, 1874
Streblopus punctatus Balthasar, 1938*
Sylvicanthon bridarollii (Martínez, 1949)
Sylvicanthon furvus (Schmidt, 1921)

Canthidium sp. aff. *centrale* Boucomont, 1928
Canthidium coeruleascens Balthasar, 1939
Canthidium cupreum (Blanchard, 1846)
Canthidium sp. aff. *deyrollei* Harold, 1867
Canthidium discolor Harold, 1867
Canthidium cf. *dohrni* Harold, 1867
Canthidium escalerae Balthasar, 1939
Canthidium sp. aff. *funebre* Balthasar, 1939
Canthidium gerstaeckeri Harold, 1867
Canthidium sp. aff. *gigas* Balthasar, 1939
Canthidium histrio Balthasar, 1939
Canthidium kirschi Harold, 1875
Canthidium lentum Erichson, 1847
Canthidium miscellum Harold, 1883
Canthidium cf. *onitoides* (Perty, 1830)
Canthidium sp. aff. *quadridens* Harold, 1867
Canthidium cf. *ruficollis* (Germar, 1824)
Canthidium thalassinum (Erichson, 1847)
Dichotomius adrastus (Harold, 1875) *
Dichotomius apicalis (Lüderwaldt, 1931)
Dichotomius batesi (Harold, 1869)
Dichotomius belus (Harold, 1869) *
Dichotomius bicornis (Waterhouse, 1891)*
Dichotomius bicuspis Germar, 1824
Dichotomius calcaratus (Arrow, 1913)
Dichotomius camargoi (Martínez, 1955)
Dichotomius conicollis (Blanchard, 1843)
Dichotomius cotopaxi (Guerin, 1855)
Dichotomius cuprinus (Felsche, 1901)*
Dichotomius diabolicus (Harold, 1875)
Dichotomius fissus (Harold, 1867)
Dichotomius sp. aff. *fonsecae* (Lüderwaldt, 1924)
Dichotomius globules (Felsche, 1901)
Dichotomius inachus (Erichson, 1847)
Dichotomius lucasi (Harold, 1869)
Dichotomius mamillatus (Felsche, 1901)
Dichotomius melzeri (Lüderwaldt, 1922)
Dichotomius ocellapunctatus (Felsche, 1901)
Dichotomius ohausi (Lüderwaldt, 1924)
Dichotomius planicollis (Gillet, 1911)
Dichotomius prietoi Martínez and Martínez, 1982

Dichotomius problematicus (Lüderwaldt, 1924)
Dichotomius protectus (Harold, 1867)
Dichotomius pullus (Felsche, 1910)*
Dichotomius quinquelobatus (Felsche, 1901)
Dichotomius robustus (Lüderwaldt, 1935)
Dichotomius satanas (Harold, 1867)
Dichotomius semiaeneus (Germar, 1824)
Dichotomius simplicicornis (Lüderwaldt, 1924)
Dichotomius virescens (Lüderwaldt, 1924)
Dichotomius worontzowi (Pereira, 1942)
Genieridium cryptops (Arrow, 1913)
Homocopris torulosus (Eschscholtz, 1822)
Onoreidium cristatum (Arrow, 1931)
Ontherus alexis (Blanchard, 1846)
Ontherus aphodioides Burmeister, 1847
Ontherus ashei Génier, 1996*
Ontherus azteca Harold, 1869
Ontherus brevipennis Harold, 1867
Ontherus bridgesi Waterhouse, 1891
Ontherus sp. aff. *bridgesi* Waterhouse, 1891
Ontherus carinifrons Lüderwaldt, 1930
Ontherus edentulus Génier, 1996
Ontherus howdeni Génier, 1996
Ontherus laminifer Balthasar, 1938

Phanaeini

Coprophanaeus callegarii Arnaud, 2002*
Coprophanaeus degallieri Arnaud, 1997
Coprophanaeus ignecinctus (Felsche, 1909)
Coprophanaeus lancifer (L., 1767)
Coprophanaeus larseni Arnaud, 2002
Coprophanaeus ohausi (Felsche, 1911)
Coprophanaeus parvulus (Olsoufieff, 1924)
Coprophanaeus suredai Arnaud, 1996
Coprophanaeus telamon (Erichson, 1847)
Dendropaemon angustipennis Harold, 1869
Dendropaemon telephus Waterhouse, 1891
Diabroctis mimas (L., 1758)
Gromphas aeruginosa (Perty, 1830)
Gromphas amazonica (Bates, 1870)
Phanaeus sororibispinus Edmonds and Zidek, 2012
Sulcophanaeus faunus (Fabricius, 1775)

ORPHNINAE

Aegidinus petrovi Colby, 2009*
Aegidinus teamscaraborum Colby, 2009

ALLIDIOSTOMATINAE

Allidiostoma simplicifrons (Fairmaire, 1885)
Parallidiostoma tricorneum Ocampo and Colby, 2009*

MELOLONTHINAE

Sericini

Astaena andicola Frey, 1973*
Astaena biciliata Saylor, 1946*

Ontherus obliquus Génier, 1996
Ontherus pubens Génier, 1996
Ontherus raptor Génier, 1996
Ontherus rectus Génier, 1996*
Ontherus sulcator (Fabricius, 1775)
Ontherus tenuistriatus Génier, 1996*
Ontherus ulcopygus Génier, 1996
Scatimus cucullatus Erichson, 1847*
Scatimus monstrosus Balthasar, 1939
Scatimus sp. aff. *onorei* Génier and Kohlmann, 2003
Scatimus quadricuspis Génier and Kohlmann, 2003*
Scatimus strandi Balthasar, 1939
Sinapisoma minuta Boucomont, 1928
Trichillum externepunctatum (Preudhomme de Borre, 1880)
Uroxys bahianus Boucomont, 1927
Uroxys elongatus Harold, 1868
Uroxys sp. aff. *kratochvili* Balthasar, 1947
Uroxys sp. aff. *minutus* Harold, 1868
Uroxys peruanus Balthasar, 1940*
Uroxys sp. aff. *simplex* Waterhouse, 1891
Uroxys variabilis Robinson, 1951

Megatharsis buckleyi Waterhouse, 1891
Oruscatus davus (Erichson, 1847)
Oxysternon conspicillatum (Weber, 1801)
Oxysternon lautum (MacLeay, 1819)
Oxysternon silenus Laporte, 1840
Oxysternon spiniferum Laporte, 1840
Phanaeus achilles Boheman, 1858
Phanaeus bispinus Bates, 1868
Phanaeus cambeforti Arnaud, 1982
Phanaeus chalcomelas (Perty, 1830)
Phanaeus haroldi Kirsch, 1871
Phanaeus lecourti Arnaud, 2000
Phanaeus lunaris Taschenberg, 1870
Phanaeus meleagris Blanchard, 1843
Sulcophanaeus actaeon (Erichson, 1847)*
Tetramereia convexa (Harold, 1869)

Paraegidium costalimai Vulcano, Pereira, and Martínez, 1966

Astaena exquisita Frey, 1973*
Astaena glabroclypealis Frey, 1974

Astaena moseri Frey, 1973*
Astaena negligens Frey, 1973*
Astaena penai Frey, 1973*
Astaena peruana Moser, 1918*
Astaena peruensis Frey, 1973*
Astaena pottsi Saylor, 1946*

Astaena pygidia Saylor, 1946*
Astaena setosa Frey, 1973*
Astaena tridentata Erichson, 1847
Raysymmela huanuca Saylor, 1947*
Symmela varians Erichson, 1847*

Diptotaxini

Liogenys leechi Frey, 1967*

Melolonthini

Phyllophaga austera (Erichson, 1847)*
Phyllophaga jumberea Saylor, 1942*
Phyllophaga marcapatana Moser, 1918*

Phyllophaga pachypyga (Burmeister, 1855)
Phyllophaga peruana (Moser, 1918)
Phyllophaga umbrosa (Erichson, 1847)*

Macroductylini

Ancistrosoma hilare Arrow, 1913
Ancistrosoma intermedium Arrow, 1913*
Ancistrosoma klugii Curtis, 1836*
Ancistrosoma reductum Frey, 1964*
Ancistrosoma vittigerum Erichson, 1847
Barybus compacta (Erichson, 1847)*
Barybus peruana Moser, 1918*
Barybus squamiger Frey, 1967*
Calodactylus abendrothii Kirsch, 1873*
Calodactylus heterosquamosus Frey, 1973*
Ceraspis innotata (Blanchard, 1850)*
Ceraspis penai Frey, 1964*
Ceraspis rubiginosa (Latreille, 1811)*
Ceraspis rufoscutellata Moser, 1919*
Ceraspis squamulifera (Moser, 1919)
Chariodactylus sublaevicollis Moser, 1919*
Clavipalpus peruanus Moser, 1918*
Clavipalpus spadiceus (Burmeister, 1855)*
Ctilocephala asperula (Perty, 1830)
Dicrania peruana Frey, 1972*
Isonychus arbusticola Erichson, 1847*
Isonychus cervicapra Frey, 1965*
Macroductylus sapphirinus Moser, 1919*
Macroductylus sulcicollis Moser, 1919*
Macroductylus vittipennis Moser, 1919*
Plectris aberrans Frey, 1964*
Plectris candezei Frey, 1967*
Plectris kochi Frey, 1967*
Plectris lanata Frey, 1964*

Isonychus cervinalis Frey, 1965*
Isonychus cervinoides Frey, 1965*
Isonychus cervinus Erichson, 1847
Isonychus egregius Frey, 1965*
Isonychus fraudulentus Frey, 1969*
Isonychus nitens Moser, 1921*
Isonychus nubeculus Frey, 1969*
Isonychus ovinus Erichson, 1847*
Isonychus pavonii Erichson, 1847*
Isonychus peruanus Moser, 1921*
Isonychus pulchellus Moser, 1918*
Isonychus rosettae Frey, 1969*
Isonychus saylori Frey, 1969*
Isonychus similis Frey, 1973*
Isonychus simulator Frey, 1969*
Macroductylus bilineolatus Moser, 1919*
Macroductylus bistriatus Moser, 1919*
Macroductylus brenskei Moser, 1918*
Macroductylus cinereus Blanchard, 1850*
Macroductylus discipennis Moser, 1918*
Macroductylus marginicollis Moser, 1919*
Macroductylus peruanus Moser, 1919*
Plectris molesta (Kirsch, 1873)*
Plectris penaella Frey, 1967*
Plectris penai Frey, 1967*
Plectris sculptipennis Frey, 1974*
Plectris tenebrosa Frey, 1967*
Plectris tolimana (Moser, 1921)
Plectris tuberculata (Moser, 1919)

Pachydemini

Diaphylla hispida Erichson, 1847*
Leuretra pectoralis Erichson, 1847

RUTELINAE

Anatistini

Spinochlamys macropus (Benderitter, 1921)*
Spodochlamys feyeri Ohaus, 1908
Spodochlamys iheringi Ohaus, 1905

Spodochlamys latipes Arrow, 1946
Spodochlamys peruvianus Soula, 2010*

Rutelini

- Acraspedon bernierei* Soula, 2002*
Acraspedon peruvianus Soula, 2002*
Aequatoria cludsi Soula, 2002*
Aequatoria davidi Soula, 2005*
Aequatoria lequericae Soula, 2006*
Anticheiroides adamsii nevinsoni (Fowler, 1906)*
Anticheiroides davidi Soula, 2006
Catoclastus chevrolatii Solier, 1851*
Catoclastus jaumesi Soula, 2010*
Catoclastus rabinovichi Martinez, 1971*
Chlorota callegariorum Soula, 2005*
Chlorota chaparroi Curoe and Soula, 2005*
Chlorota chavezlopezi Soula, 2006*
Chlorota columbica columbica (Ohaus, 1912)
Chlorota columbica peruana Soula, 2002*
Chlorota nasuta Ohaus, 1905
Chlorota sergiocastroi Soula, 2008*
Chlorota surinama surinama (Ohaus, 1898)
Chlorota surinama iquitosensis Soula, 2005*
Chrycina argenteola (Bates, 1888)
Chrysophora chrysochlora (Latreille, 1811)
Cnemida retusa (Fabricius, 1801)
Dorysthetus andicola Ohaus, 1905
Dorysthetus fulgida (Waterhouse, 1881)
Dorysthetus mezei Soula, 2005*
Dorysthetus peruanus (Ohaus, 1905)
Epichalcoplethis benjamini Bouchard and Soula, 2006
Epichalcoplethis gilleti Soula, 2010
Epichalcoplethis santistebani Bouchard and Soula, 2006*
Epichalcoplethis schiffleri Bouchard and Soula, 2006*
Eremophygus philippi Ohaus, 1910
Exantcheira vidua (Ohaus, 1922)
Exothyridium filippii Soula, 2002*
Exothyridium mercieri Soula, 2002*
Heterochlorota colini Soula, 2008*
Heterochlorota mathildae mathildae (Ohaus, 1908)
Heterochlorota mathildae peruana Soula, 2002*
Homonyx maurettei Soula, 2010 *
Homonyx peruanus Ohaus, 1913*
Homonyx zovii Demez and Soula, 2011
Hypaspidium costatus (Burmeister, 1844)*
Lagochile aequatorialis aequatorialis Ohaus, 1898
Lagochile aequatorialis raimondii Soula, 2005*
Lagochile amazona (Thunberg, 1822)
Lagochile andicola andicola Ohaus, 1903
Lagochile andicola condori Soula, 2005*
Lagochile anophrys (Ohaus, 1914)
Lagochile brunnea brunnea (Perty, 1830)
Lagochile brunnea satipoensis Soula, 2005*
Lagochile brunnea tenaensis Soula, 2005*
Lagochile brusteli Soula, 2005*
Lagochile cachetica cachetica Ohaus, 1903
Lagochile cachetica fusciventris Ohaus, 1912*
Lagochile cachetica orientalis Soula, 2005
Lagochile ciliata ciliata Ohaus, 1908
Lagochile delassisei Soula, 2005*
Lagochile ebrardi Soula, 2010*
Lagochile fuscoviridis Bouchard and Soula, 2005
Lagochile peruana peruana Ohaus, 1898
Lagochile peruana huallagensis Soula, 2005*
Lagochile peruana occidentalis Soula, 2005*
Lagochile pottgensii Demez and Soula, 2010
Lagochile rodriguezi Soula, 2009*
Lagochile santacruzis santacruzis (Machatschke, 1972)*
Lagochile santacruzis chanchomayoensis Soula, 2005*
Lagochile solimoensis solimoensis Ohaus, 1903
Lagochile solimoensis oberthuri Soula, 2005
Lagochile solimoensis wadai Soula, 2005*
Lagochile tibialis (Ohaus, 1935)*
Lagochile trigona trigona (Herbst, 1790)
Lagochile trigona mancopacaci Soula, 2005*
Lagochile trigona pozuzoensis Soula, 2005*
Lagochile vergaracobianae Soula and Curoe, 2005*
Lagochile vasseli Soula, 2010*
Lagochile villatorae villatorae Soula, 2005*
Lagochile villatorae tingomariaensis Soula, 2005*
Lasiocala detingomaria Soula, 2006*
Lasiocala dioni Soula, 2006*
Lasiocala jenseni Soula, 2006*
Lasiocala josei Soula, 2006*
Lasiocala lamasi Soula, 2006*
Lasiocala schmiti Soula, 2006*
Lasiocala vasseli Soula, 2010*
Macraspis andicola Burmeister, 1844
Macraspis assimilis Ohaus, 1908*
Macraspis bicincta bicincta Burmeister, 1844
Macraspis chalcea Burmeister, 1844
Macraspis chloraspis chloraspis Laporte, 1840
Macraspis chloraspis subandina Soula, 1998
Macraspis chrysis (L., 1764)
Macraspis concoloripes ratcliffi (Soula, 2005)
Macraspis festiva Burmeister, 1844
Macraspis maculata maculata Burmeister, 1844
Macraspis maculicollis Ohaus, 1905*
Macraspis martinezi martinezi Soula, 2003
Macraspis melanaria (Blanchard, 1850)
Macraspis peruviana Ohaus, 1898*
Macraspis pseudochrysis Landin, 1956
Macraspis stirpita Ohaus, 1914*
Macraspis testaceipennis Ohaus, 1898
Macraspis willersi Soula, 2010*
Macraspis xanthosticta Burmeister, 1844
Mecopelidnota arrowi Bates, 1904
Mecopelidnota dewynteri Soula, 2008*
Mecopelidnota marxi Soula, 2008
Mecopelidnota mezei Soula, 2008*
Mesomerodon spinipenne Ohaus, 1905
Microrutela campa (Ohaus, 1922)
Microrutela ucalayiensis Jameson, 1997
Minidorysthetus hoehnei (Ohaus, 1914)*

- Minidorysthetus tingomariaensis* Soula, 2006*
Minidorysthetus ucayaliensis Soula, 2006*
Minidorysthetus vandemersheli Soula, 1998*
Oryctomorpha maculicollis Guérin-Méneville, 1838
Parachlorota estebani Demez and Soula, 2010*
Parachlorota josei Soula, 2005*
Parachlorota morettoii Soula, 2002*
Paradorysthetus signatipennis signatipennis (Ohaus, 1908)*
Paraptenomela amazona tingomariaensis Soula, 2002*
Paraptenomela opalescens (Ohaus, 1935)*
Paratelaugis robusta robusta (Kirsch, 1871)
Pelidnota angiae Demez and Soula, 2009*
Pelidnota bondili Soula, 2006*
Pelidnota Brusteli Soula, 2010*
Pelidnota chlorana Erichson, 1847
Pelidnota dobleri Frey, 1967
Pelidnota fusciventris fusciventris Ohaus, 1905*
Pelidnota halleri Demez and Soula, 2010*
Pelidnota hernanlequericaei Soula, 2006*
Pelidnota hoefigi Ohaus, 1912*
Pelidnota incerta Soula, 2006*
Pelidnota injantepalominoi Demez and Soula, 2010*
Pelidnota lacazei Soula, 2010*
Pelidnota mezaei Soula, 2009*
Pelidnota neitamorenoid neitamorenoid (Soula, 2006)
Pelidnota neitamorenoid rodriguezdemendozaensis Soula, 2010*
Pelidnota ohausi ohausi Frey, 1976
Pelidnota ohausi piurensis (Soula, 2006)*
Pelidnota peslieri Soula, 2009*
Pelidnota polita (Latreille, 1811)
Pelidnota porioni Soula, 2010*
Pelidnota satipoensis Demez and Soula, 2010*
Pelidnota schneideri Soula, 2010*
Pelidnota subandina subandina Ohaus, 1905
Pelidnota testaceovirens felipemezai Soula, 2006*
Pelidnota toulgoeti Soula, 2006*
Pelidnota uncinata Ohaus, 1930
Pelidnota unicolor unicolor (Drury, 1778)
Pelidnota unicolor subandina Soula, 2009*
Pelidnota wernerii Soula, 2006*
Pelidnota zovii Soula, 2010*
Pseudochlorota peruana Ohaus, 1905*
Pseudohypaspidius antoini Soula, 1998*
Pseudohypaspidius silvestrei Soula, 2002*
Pseudomacraspis affinis affinis (Laporte, 1840)
Pseudomacraspis affinis amazonica Soula, 2002
Pseudomacraspis beryllina beryllina (Erichson, 1847)*
Pseudothyridium (Pseudothyridium) bouchardi Soula, 2002*
Pseudothyridium buckwaldi (Ohaus, 1912)
Pseudothyridium ericki Soula, 2006*
Pseudothyridium hirtum (Kirsch, 1870)
Pseudothyridium juanjosei Soula, 2006*
Pseudothyridium minettii Soula, 2002*
Pseudothyridium oblongum oblongum (Ohaus, 1905)*
Pseudothyridium quentini Soula, 2002*
Ptenomela grangesi Soula, 2006*
Ptenomela tavakiliani Soula, 2002*
Ptenomela toulgoeti Soula, 2006*
Rutela heraldica Perty, 1832
Rutela histrio Sahlberg, 1823
Rutela histrioparilis Jameson, 1997
Rutela laeta (Weber, 1801)
Rutela lineola (Linnaeus, 1767)
Rutela tricolora (Ohaus, 1905)
Sorocho bousqueti Soula, 2006*
Sorocho carloti Demez and Soula, 2010*
Sorocho castroi Soula, 2008*
Sorocho champenoisi Soula, 2006*
Sorocho chapeliei Demez and Soula, 2010*
Sorocho damasoi Soula, 2006*
Sorocho jeanmaurettei Demez and Soula, 2010*
Sorocho lamasi lamasi Soula, 2006*
Sorocho lamasi satipoensis Soula, 2006*
Sorocho maylini Soula, 2006*
Sorocho similis (Ohaus, 1908)*
Sorocho yelamosi Soula, 2010*
Telaugis aenescens aenescens Burmeister, 1844
Telaugis aenescens subandina Soula, 1998*
Theuमारipa buchei (Soula, 2002)*
Theuमारipa imitatrix (Ohaus, 1903)
Theuमारipa meyeri (Soula, 2005)*
Thyriochlorota lassalei Soula, 2002*
Thyriochlorota villosa (Ohaus, 1908)*
Tipicha champanheti Soula, 2002*
Tipicha joliveti Soula, 2002*
Vayana melzeri melzeri Ohaus, 1928
Vayana melzeri subandina Soula, 1998*

Anomalini

- Callistethus aequatorialis huanapensis* (Ohaus, 1908)*
Callistethus antis (Ohaus, 1903)*
Callistethus cicatricosa (Perty, 1832)
Callistethus eckhardti (Ohaus, 1897)*
Callistethus kulzeri (Frey, 1968)*
Callistethus marginatus (Fabricius, 1792)
Callistethus penai (Frey, 1968)*
Callistethus pyritosus (Erichson, 1847)*
Callistethus rufomicans (Ohaus, 1897)
Callistethus suratus (Burmeister, 1844)*
Callistethus tricostatus (Ohaus, 1897)
Paranomala cincta viridicollis Burmeister, 1844
Paranomala hylobia (Ohaus, 1897)*
Paranomala inconstans Burmeister, 1844
Paranomala undulata peruviana Guérin-Méneville, 1838*
Strigoderma marginata (Olivier, 1789)
Strigoderma peruviansis Blanchard, 1850
Strigoderma sulcipennis sumtuosa Burmeister, 1844

Anoplognathini

Platycoelia abdominalis Ohaus, 1904*
Platycoelia aenigma Smith, 2003*
Platycoelia alternans Erichson, 1847
Platycoelia baessleri (Ohaus, 1904)*
Platycoelia burmeisteri Arrow, 1899
Platycoelia convexa Smith, 2003
Platycoelia flavostriata (Latreille, 1813)
Platycoelia gaujoni Ohaus, 1904
Platycoelia helleri (Ohaus, 1904)
Platycoelia inca Smith, 2003*
Platycoelia inflata Ohaus, 1904

Platycoelia insolita Smith, 2003*
Platycoelia kirschi (Ohaus, 1904)*
Platycoelia laelaps (Gutiérrez, 1951)*
Platycoelia lutescens Blanchard, 1851
Platycoelia marginata Burmeister, 1844
Platycoelia peruviana Smith, 2003
Platycoelia pomacea Erichson, 1847
Platycoelia prasina Erichson, 1847
Platycoelia rufosignata Ohaus, 1904
Platycoelia selanderi Martínez and Martínez, 1994

Geniatiini

Bolax albopilosa Ohaus, 1917*
Bolax andicola Burmeister, 1844*
Bolax boliviensis Ohaus, 1898
Bolax cupreoviridis Ohaus, 1931*
Bolax disgamia Ohaus, 1917*
Bolax glabripennis Ohaus, 1917*
Bolax gonzalofideli Soula, 2010*
Bolax incogitata Dohrn, 1883
Bolax malkini Soula, 2010*
Bolax nigriceps Ohaus, 1917*
Bolax robackeri Soula, 2010*
Bolax rutila Erichson, 1847*
Geniates balzapamae Ohaus, 1917
Leucothyreus baeri Ohaus, 1917*
Leucothyreus demetrius Ohaus, 1918*

Leucothyreus lazarus Ohaus, 1918
Leucothyreus saporus Ohaus, 193*
Lobogeniates bicolor Ohaus, 1917
Trizogeniates aphilus Villatoro, 2002*
Trizogeniates apicalis Ohaus, 1917*
Trizogeniates barrerae Martínez, 1965*
Trizogeniates caiporae Villatoro, 2002
Trizogeniates catsus Villatoro, 2002
Trizogeniates crispispinatus Villatoro, 2002*
Trizogeniates laticollis Ohaus, 1931
Trizogeniates ohausi Villatoro, 2002
Trizogeniates planipennis Ohaus, 1917
Trizogeniates temporalis Ohaus, 1917
Trizogeniates tibialis Ohaus, 1917
Trizogeniates trivittatus Ohaus, 1917

DYNASTINAE**Cyclocephalini**

Acrobolbia macrophylla Ohaus, 2012
Ancognatha castanea Erichson, 1847
Ancognatha erythrodera (Blanchard, 1841)
Ancognatha humeralis Burmeister, 1847
Ancognatha lutea Erichson, 1847
Ancognatha scarabaeoides Erichson, 1847
Ancognatha vulgaris Arrow, 1911
Aspidolea brunnea Höhne, 1922
Aspidolea collaris Endrödi, 1965*
Aspidolea fuliginea (Burmeister, 1847)
Aspidolea laticeps Harold, 1869
Aspidolea lindae Ratcliffe, 1978
Aspidolea mimethes (Höhne, 1922)*
Aspidolea notaticollis Höhne, 1922
Aspidolea singularis Bates, 1888
Aspidolea suturalis Höhne, 1922
Augoderia freyi Endrödi, 1976*
Chalepides paradytis Ponchel and Dechambre, 2003
Cyclocephala affinis Endrödi, 1966
Cyclocephala almitana Dechambre, 1992
Cyclocephala altamontana Dechambre, 1999
Cyclocephala amazona (L., 1767)
Cyclocephala bicolor Laporte, 1840

Cyclocephala brevis Höhne, 1923
Cyclocephala colasi Endrödi, 1964
Cyclocephala confusa Endrödi, 1966
Cyclocephala contracta Kirsch, 1873
Cyclocephala couturieri Dechambre, 1999
Cyclocephala dilatata (Prell, 1934)
Cyclocephala diluta Erichson, 1847
Cyclocephala discolor (Herbst, 1792)
Cyclocephala dispar (Herbst, 1792)
Cyclocephala flavoscutellaris Höhne, 1923
Cyclocephala flora Arrow, 1911
Cyclocephala freyi Endrödi, 1964
Cyclocephala fulgurata Burmeister, 1847
Cyclocephala fulvipennis Burmeister, 1847
Cyclocephala genieri Joly, 2010*
Cyclocephala goetzi Endrödi, 1966*
Cyclocephala guycolasi Dechambre, 1992
Cyclocephala hirsuta Höhne, 1923
Cyclocephala inca Endrödi, 1966
Cyclocephala isabellina Höhne, 1923
Cyclocephala kaszabi Endrödi, 1964
Cyclocephala ligyrina Bates, 1888
Cyclocephala lineigera Höhne, 1923
Cyclocephala liomorpha Arrow, 1911

Cyclocephala humulata Burmeister, 1847
Cyclocephala macrophylla Erichson, 1847
Cyclocephala mannheimsi Endrödi, 1964
Cyclocephala marginalis Kirsch, 1870
Cyclocephala mecnynotarsis Höhne, 1923
Cyclocephala melanocephala (Fabricius, 1775)
Cyclocephala molesta Endrödi, 1969
Cyclocephala moreti Dechambre, 1992
Cyclocephala morphoidina Prell, 1937
Cyclocephala munda Kirsch, 1870
Cyclocephala obscura Endrödi, 1966*
Cyclocephala ocellata Bolívar y Pieltain, Jiménez-Asúa, and Martínez, 1963
Cyclocephala octopunctata Burmeister, 1847
Cyclocephala panthera Dechambre, 1979
Cyclocephala paraflora Martínez, 1978
Cyclocephala paraguayensis Arrow, 1903
Cyclocephala peruana Endrödi, 1966*
Cyclocephala pilosa Dupuis, 2006*
Cyclocephala prolongata Arrow, 1902
Cyclocephala pugnax Arrow, 1914
Cyclocephala quadripunctata Höhne, 1923
Cyclocephala rufovaria Arrow, 1911
Cyclocephala rustica municipalis Höhne, 1923
Cyclocephala saltini Ratcliffe, 2008
Cyclocephala scarabaëina (Gyllenhal, 1817)
Cyclocephala sexpunctata Laporte, 1840
Cyclocephala simulatrix Höhne, 1923

Pentodontini

Bothynus entellus (LePeletier and Serville, 1828)
Bothynus lancifer Dechambre, 1981*
Diloboderus abderus (Sturm, 1826)
Heteroglobus obesus Dupuis and Dechambre, 2008*
Hylbothynus obesus Ohaus, 1910
Oxylygyrus contractus Dupuis, 2010*
Tomarus burmeisteri (Steinheil, 1872)
Tomarus ebenus (DeGeer, 1774)
Tomarus gyas Erichson, 1847
Tomarus maimon Erichson, 1847

Oryctini

Coelosis biloba (L., 1767)
Enema pan (Fabricius, 1775)
Heteroglobus obesus Dupuis and Dechambre, 2008
Heterogomphus arrowi Prell, 1912*
Heterogomphus dilaticollis Burmeister, 1847
Heterogomphus hirticollis Prell, 1912*
Heterogomphus hirtus Prell, 1912
Heterogomphus incornutus Prell, 1912*
Heterogomphus mirabilis Prell, 1912*
Heterogomphus ochoai Martínez, 1966
Heterogomphus orsilochus Erichson, 1847
Heterogomphus peruanus Endrödi, 1976*
Heterogomphus pilosus Dechambre, 1998
Heterogomphus porioni Dechambre, 1998
Heterogomphus rugicollis Prell, 1912
Heterogomphus rubripennis Prell, 1912

Cyclocephala spilopyga Erichson, 1847
Cyclocephala stictica Burmeister, 1847
Cyclocephala testacea Burmeister, 1847
Cyclocephala tronchonii Martínez, 1975*
Cyclocephala tyliifera Höhne, 1923
Cyclocephala verticalis Burmeister, 1847
Cyclocephala viridis Dechambre, 1982
Cyclocephala zurstrasseni Endrödi, 1964*
Dyscinetus dubius (Olivier, 1798)
Dyscinetus dytiscoides (Arrow, 1911)
Dyscinetus olivaceus Höhne, 1923
Dyscinetus paradytis Ponchel and Dechambre, 2003
Erioscelis peruana Saylor, 1946*
Erioscelis proba (Sharp, 1877)
Harposcelis paradoxus Burmeister, 1847
Mimeoma signatoides Höhne, 1923
Stenocrates bicarinatus Robinson, 1948
Stenocrates carbo Prell, 1937
Stenocrates celatus Prell, 1937
Stenocrates clipeatus Endrödi, 1966
Stenocrates cognatus Endrödi, 1966
Stenocrates cultor Burmeister, 1847
Stenocrates haackae Ratcliffe, 1979
Stenocrates holomelanus (Germar, 1824)
Stenocrates minutus Endrödi, 1966
Stenocrates nasutus Dechambre, 1979*
Stenocrates popei Endrödi, 1971

Oxylygyrus peruanus Endrödi, 1966
Parapucaya amazonica Prell, 1934
Parapucaya nodicollis (Kirsch, 1873)
Pentodina peruviana Endrödi, 1968
Piscoperus paracanicola Ratcliffe and Giraldo, 2014*
Tomarus bituberculatus (Palisot de Beauvois, 1805)
Tomarus maternus (Prell, 1937)
Tomarus peruvianus (Endrödi, 1970)
Tomarus similis (Endrödi, 1968)
Tomarus villosus (Burmeister, 1847)

Heterogomphus ulysses Burmeister, 1847
Megaceras brevis Dechambre, 1999
Megaceras briansaltini Ratcliffe, 2007*
Megaceras endroedii Dechambre, 1998
Megaceras inflatum Prell, 1934
Megaceras laevipenne Prell, 1914
Megaceras morpheus Burmeister, 1847
Megaceras philoctetes (Olivier, 1789)
Megaceras porioni Dechambre, 1981
Megaceras quadraticollis Dechambre, 1975
Podischnus oberthueri Sternberg, 1907
Podischnus sexdentatus (Taschenberg, 1870)
Strategus aloeus (L., 1758)
Strategus jugurtha Burmeister, 1847
Strategus surinamensis hirtus Sternberg, 1910

Phileurini

Amblyodus castroi Grossi and Grossi, 2011
Amblyoproctus chalumeaui Endrödi, 1977
Amblyoproctus piliger (Perty, 1830)
Amblyoproctus rugosus (Erichson, 1847)
Archophileurus aper Endrödi, 1977
Archophileurus burmeisteri (Arrow, 1908)
Archophileurus oedipus (Prell 1912)
Archophileurus peruanus Endrödi, 1977
Archophileurus sus Dechambre, 2006*
Hemiphileurus brasiliensis Endrödi, 1978
Hemiphileurus depressus (Fabricius, 1801)
Hemiphileurus elongatus Dupuis and Dechambre, 2000*
Hemiphileurus howdeni Endrödi, 1978*
Hemiphileurus isabellae Dupuis, 2004*
Hemiphileurus kahni Dupuis and Dechambre, 2000*
Homophileurus quadrituberculatus (Palisot de Beauvois, 1805)

Homophileurus waldenfelsi Endrödi, 1978
Microphileurus caviceps Kolbe, 1910
Microphileurus subulo Prell, 1912*
Oryctophileurus armicollis Prell, 1911
Palaeophileurus carbo Ratcliffe, 2002
Palaeophileurus erebus Ratcliffe, 2002
Palaeophileurus marcusoni Ratcliffe, 1998
Palaeophileurus ocampo Neita and Ratcliffe, 2012
Palaeophileurus proximus Dechambre, 1997
Palaeophileurus sclateri (Bates, 1887)
Phileucourtus bicornutus Dechambre, 2008*
Phileurus angustatus Kolbe, 1910
Phileurus didymus (L., 1758)
Phileurus excavatus Prell, 1911
Phileurus kaszabi Endrödi, 1978
Phileurus valgus (Olivier, 1789)

Agaocephalini

Aegopsis chaminadei Dechambre, 2000
Aegopsis peruvianus Arrow, 1941*

Brachysiderus quadrimaculatus Waterhouse, 1881
Mitracephala humboldti Thomson, 1859

Dynastini

Dynastes hercules (L., 1758)
Dynastes neptunus (Quensel, 1806)
Golofa aegeon (Drury, 1773)
Golofa clavigera (L., 1771)

Golofa eacus Burmeister, 1847
Golofa spatha Dechambre, 1989
Golofa testudinarius (Prell, 1934)*
Golofa unicolor (Bates, 1891)

CETONIINAE**Cetoniini**

Euphoria steinheili Janson, 1878

Gymnetini

Desicasta lobata (Olivier, 1789)
Desicasta purpurascens (Schoch, 1898)
Gymnetis balzarica Janson, 1880
Gymnetis coturnix Burmeister, 1842 (= ? *G. phasianus* Burmeister, 1842)
Gymnetis mathani Pouillaude, 1913
Gymnetis holoserica Voet, 1778 (= ? *G. chanchamayensis* Pouillaude, 1913)
Gymnetis pardalis (Gory and Percheron, 1833) (= ? *G. cupriventris* Janson, 1880)

Gymnetis pantherina (Blanchard, 1843)
Gymnetis rufilateris (Illiger, 1800)
Gymnetis subpunctata Westwood, 1874 (= ? *G. variabilis* Moser, 1921)
Hoplopyga liturata (Olivier, 1789)
Hoplopyga peruana Moser, 1912
Marmarina maculosa (Olivier, 1789)

Cremastocheilini

Cyclidius lacordairei Thomson, 1860*
Genuchinus sp.

Trichiini

Golinca davisii Waterhouse, 1877*
Golinca ishiharai Nagai, 1994*

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