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Bolivian anthophilous Cerambycinae (Coleoptera: Cerambycidae)
host flower records

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Cosmisoma brullei (Mulsant, 1863) on flowers of *Croton hieronymi* Grisebach. Photograph courtesy of Dr. Stefan Abrahamczyk.

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Bolivian anthophilous Cerambycinae (Coleoptera: Cerambycidae) host flower records

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Abstract. Host flower records for 111 species of Cerambycinae, collected from 40 plant species (21 families) in three Bolivian Departments during the period 2002–2011 are presented for the following tribes: Basipterini, Callichromatini, Clytini, Compsocerini, Eburiini, Ectenessini, Heteropsini, Hexoplonini, Molorchini, Oxycoleini, Pteroplatini, Rhopalophorini, Tillomorphini, and Trachyderini. The importance of anthophilous cerambycids as pollinators, their behavior, and methods used for collecting them are presented, and some preliminary comparisons between the tropical fauna in the north and the temperate fauna in the Chaco forests of the south are outlined.

Key words. Anthophily, natural history, new country and departmental species records.

Introduction

The two-part catalog of Monné (2001a,b) provides a list of known host plants of Neotropical Cerambycidae. The term “host plant”, as used by him, was reserved for those plants attacked by xylophagous larvae. However, “host plant” may also be defined as a plant that another plant or animal lives on as a parasite. If we assume that anthophilous insects are not parasites, but true symbionts receiving sustenance (pollen, nectar, etc.) in return for pollination, Monné’s interpretation is unnecessarily restrictive. The problem is that the word “host” implies mutual benefit between the host and its visitors. “Host plant” is therefore a better description of plants attracting pollinating insects, rather than the description of a plant being eaten by larvae. It is important to establish words that define the difference between these two kinds of host plant relationships, since they are of equal value ecologically. To quote Linsley (1961): “feeding seems to be a prerequisite to egg maturation and oviposition among many species.” This conjecture is supported by Webb (1909), Blackman and Stage (1918), and Horton (1917). Because of its well-established precedence, it is suggested that entomologists continue to use the term “host plant” for those utilized by xylophagous larvae, and “host flower” for those visited by anthophilous adults.

Anthophilous habits are common in many species of Cerambycinae, as summarized by Di Iorio (2003). Host flower records are reported below for Bolivian species in the following tribes: Basipterini, Callichromatini, Clytini, Compsocerini, Eburiini, Ectenessini, Heteropsini, Hexoplonini (only one species), Molorchini, Oxycoleini, Pteroplatini, Rhopalophorini, Tillomorphini, and Trachyderini. The Rhinotragini are omitted from this account due to the large number of new Bolivian species currently being revised by Clarke. Some Hexoplonini have been regularly collected from flowers (most commonly *Gnomidolon conjugatum* (White, 1855) and *Tetraibidion concolor* Martins, 2006), but, apart from *Stenogyra cosmocera* White, 1855, there is no evidence to suggest they are anthophilous (i.e., pollen lodged amongst the mouth parts).

Some flowering plants have nectar glands (e.g., *Calliandra haematocephala* Hassk.) that may be the main reason for visitation by some tribes of Cerambycinae (e.g., Compsocerini and Trachyderini) rather than the flowers themselves.

Materials and Methods

The 111 anthophilous species of Cerambycinae recorded here were collected in the Departments of Santa Cruz, Chuquisaca, and Tarija. Most of the localities cited are within 40 kilometres of the East Andean Cordillera between Buena Vista (central Bolivia) and the village of Sanandita (just north of Yacuiba at the Argentine border).

This narrow territory, between latitudes 17°S and 21°S, and longitudes 63°W and 64°W, is bisected by the Rio Grande into two relatively distinct, geographical zones around latitude 18°50'S: a northern, more tropical sector (Amazonian Forest), and a southern, more temperate sector (Chaco and Tucuman Forests).

In the northern sector, an east-west transect starts in the lowlands (400–600 m) with drier, Chiquitano Forest (similar to the Brazilian Cerrado) and grasslands, giving way to the lush, tropical rainforest of the Amazon. The rainforest moves westward, creeping up the Andean outcrop to meet the more temperate, subtropical rainforests (700–2100 m) of the Andean foothills. The rainforests exhibit marked changes in a relatively widely distributed cerambycid fauna, with a large amount of endemic species (S. W. Lingafelter, U. R. Martins, J. E. Wappes, pers. comm.) and many higher-altitude species of the tribe Rhinotragini (Clarke 2013)

In the lowlands (300–400 m) of the southern sector, an east-west transect would start in the extensive, dry Chaco Forest and abruptly give way to a narrow band of subhumid Tucuman Forest in the Andean foothills (400–700 m). Drier parts of the Tucuman Forest cover the steep mountain slopes above 700 meters. The cerambycid fauna of these drier forests remains poorly known, but appears to contain fewer endemic species than the northern sector, since most of them were first described either from the northeastern departments of Argentina or from the Bolivian Valles Mesothermicos (see Clarke 2015). The distribution of these species could be due to a temperature gradient that they follow between the lowlands of Argentina and the Bolivian Valles.

Collections were made using insect nets of varied length, sometimes supplemented by ladders to extend the reach of the longest ones (to about eight metres). Only in low forest were collections made from the canopy. Flower quality was preserved by using binoculars to locate target specimens rather than using nets to sweep through flowering vegetation.

Collections were made from a total of 39 plant species in 20 families. Host flower species were more diverse in the north than in the south (29 plant species representing 16 families, versus 11 species in seven families).

The records are arranged alphabetically by tribe, within each tribe alphabetically by species, and under each species each locality according to latitude and date of collection. All the material was collected by the authors unless stated otherwise.

The records presented here are qualitative, not reflecting the abundance of individual species on any particular plant because, once a small series had been obtained, only voucher specimens were taken. Some observations have been appended that refer to host flowers visited by easily identifiable species.

Initially, an intensive search for plants attractive to cerambycid beetles and bees was made. It soon became apparent that some plants were much more attractive to cerambycids than others. These plants and their flowers were photographed and samples were taken to local botanists for provisional identification. The botanists freely shared their knowledge with us and provided local common names for the plants, which then enabled us to ask local farmers for additional information on the plants and their localities. This enabled us to more quickly find additional plants, verify their names, and obtain information on seasonality in flowering.

Dr. Michael Nee made frequent visits to Bolivia and personally identified plants of interest. Other plants were identified from photographs taken of the flowers at the time the beetles were collected. Dr. Nee also provided us with useful literature, including his own unpublished observations and records. We also consulted the works of Killeen et al. (1993) and Nee (2004, 2008).

At least four species of *Croton* Linnaeus are known to be host flowers for cerambycids; two of them do not have published descriptions, though the Bolivian botanists and farmers refer to them by the common name “Tinajero”. In this paper, these species are designated *Croton* sp. A (or “Tinajero A”) and *Croton* sp. B (or “Tinajero B”). A potential fifth species of *Croton*, with the common name ‘Khuro-Khu chaqueño’, is also a host flower, though it is unclear whether or not this flower belongs to a currently described *Croton* species.

Most of the insect identifications were made by the authors, by Dr. Ubirajara Martins (MZSP) and by James Wappes (ACMT), utilizing his unpublished Bolivian Cerambycidae identification manual. Dr. Dilma Solange Napp kindly identified specimens of Heteropsini and Rhopalophorini. In the latter tribe, species in the genus *Dihammaphora* with 10-segmented antennae present special problems of identification as summarized by Napp and Mermudes (2010); since the names of all those recorded in this paper have not been verified by Dr. Napp, the authors accept responsibility for any errors.

The acronyms used in the text are as follows:

- ACMT American Coleoptera Museum, San Antonio, Texas, USA.
CBF Colección Boliviana de Fauna, La Paz, Bolivia.
DZUP Departamento de Zoologia, Universidade Federal do Paraná, Curitiba, Brazil.
FSCA Florida State Collection of Arthropods, Gainesville, Florida, USA.
MCNZ Museu de Ciências Naturais, Fundação Zoobotânica do Rio Grande do Sul, Porto Alegre, Brazil.
MNKM Museo Noel Kempff Mercado, Universidad Autónoma Gabriel René Moreno, Santa Cruz de la Sierrra, Bolivia.
MNRJ Museu Nacional, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brasil.
MZSP Museu de Zoologia, Universidade de São Paulo, São Paulo, Brasil
NYBG New York Botanical Gardens, Institute of Systematic Botany, New York, USA.
RCSZ Robin Clarke/Sonia Zamalloa research collection, Santa Cruz, Bolivia.
STRI Smithsonian Tropical Research Institute, Panama City, Panama.
USNM National Museum of Natural History, Smithsonian Institution, Washington, DC, USA.

Results

The results are presented in three appendices at the end of the paper. Appendix 1 lists the Bolivian anthophilous Cerambycinae alphabetically by tribe (and within each tribe, alphabetically by species), along with localities, host flower records, and additional helpful notes and remarks. Appendix 2 contains individual lists of Bolivian Cerambycinae species that visit each species of host flower; these lists are presented alphabetically by plant family. Appendix 3 is an index of the Bolivian Cerambycinae, in alphabetical order by species name, with new department records for Bolivia highlighted in bold.

Discussion

Mallosoma zonatum (Sahlberg, 1823) was recorded from 16 of 40 plant species visited by Cerambycinae. Next in breadth of flower plant species were *Argyrodines aurivilli* (Gounelle, 1905) (9) and *Chrysoprasis aurigena* (Germar, 1824) (7). Fifty-four cerambycine species (46.6%) were recorded on flowers of a single plant species, 18 (15.5%) on two species, and 23 (19.8%) on three.

Flowers of Sapindaceae, in general, were visited by a greater diversity of beetles (45 cerambycine species recorded). Next were Euphorbiaceae (37), Rhamnaceae (28), Mimosaceae (24) and Amaranthaceae (14). Accordingly, at the species level, Cerambycinae were more attracted to *Croton* sp. A (31), *Gouania mollis* Reiss (25), *Cupania cinerea* Poeppig & Endl. (21), and both *Croton* sp. B and *Viburnum seemenii* Graebn. (13), although another 35 plant species were utilized by fewer beetle species.

Cerambycids visiting flowers of flowering plants were only found in suitable localities (i.e., those with relatively undisturbed forest nearby), and they did not seem to cross open areas to visit their preferred hosts. In the southern sector, this was less obvious, since the most common host flower plants, species of *Croton*, favour disturbed soil (sandy river banks, newly constructed highways, and unstable hillsides).

The results suggest that beetles of the subfamily Cerambycinae are attracted to the flowers of a wide range of Neotropical plant families and thus may play a substantial role in their pollination. The results also point to a substantial range in fidelity between beetle species and the plant flower species which they visit and potentially serve as pollinators. The records are especially significant since they include the results of several weeks (mid December–mid January) of intensive collecting over the years by the authors in the Bolivian Chaco; prior to these visits, few records were available from this large ecosystem.

Since host flower diversity in the areas studied is low (when one considers the botanical diversity to be found) and incomplete, especially in the southern sector (where many plants require further study, especially canopy species), conclusions regarding the geographic distribution of anthophilous Cerambycinae remains provisional. The most notable difference between northern and southern areas is seen among the Rhopalophorini, which dominate the Cerambycinae fauna in the south. During five years (2003–2007) of continuous and roughly equal sampling, 136 specimens, nine genera, and 15 species of Rhopalophorini were recorded in the northern sector; yet after only a few weeks of intensive collecting in the southern sector, 180 specimens, 11 genera, and 19 species were registered.

In the southern sector, species of Heteropsini, especially *Chrysoprasis* Audinet-Serville, 1834, were more abundant than in the northern sector, although there were nearly as many species in the north (8) as in the south (9), among which three species were recorded from both sectors.

In both sectors, anthophilous beetles were attracted to plants with spikes of white flowers, and hardly ever to flowers of other colors. In the northern sector, these included trees, creepers, and bushes (but hardly ever *Croton*); in the southern sector, these included five species of tree, one creeper, and bushes of *Croton*.

Where a selection of flowering species occur together, preliminary observations indicate that some plants (primary species) attract anthophilous cerambycids in large numbers; plants that attract few cerambycids are considered secondary species. The beetles observed flying to flowers of secondary plant species are “generalists” attracted to a wide range of host flowers, and most of them are in the tribes Callichromatini, Clytini, and Heteropsini.

The observed anthophilous cerambycids (especially Rhinotragini) were most attracted to strong-smelling flowers between 0730–0930 hours, when the ambient temperature was above 25°C, with some sunshine and moderately light winds. They seemed to prefer young plants flowering for the first time. The greatest variety of cerambycid species per flower varied based on locality and time of year. In the lowlands of the northern sector, during autumn (late April–May), at least 10 cerambycid species were observed at the following plants: *Gouania mollis* (Reiss.) (27 species), *Gomphrena vaga* Mart. (10 species), *Serjania lethalis* St. Hilaire (11 species), *Matayba guianensis* Aublet (11 species), and *Cupania cinerea* Poeppig and Endl. (20 species). In the foothills of the northern sector during spring (October–November), at least 10 species were observed at *Viburnum seemenii* Graebn. (13 species) and *Wienmannia sorbifolia* H.B.K. (10 species). In the dry Chaco and wetter foothills of the southern sector during spring and early summer (October–January), the largest variety of cerambycids was observed at *Croton* sp. A (30 species), *Croton* sp. B (13 species), and *Diplokeleba floribunda* Brown (8 species).

Host flower specificity seems to be frequent and more likely to be de facto in the southern sector with its short flowering season (October–January), relative dearth of plant families, and available host flower species. However, in the lowlands of the north, primary species of blossoming host flowers are also restricted at certain times of the year: none in January–March, one in April–June (*Gouania mollis* Reiss.), three in July–August (*Gomphrena vaga* Mart., *Iresine diffusa* Willd., *Serjania lethalis* St. Hilaire), and a succession of primary species in September–December (In chronological order as follows: *Serjania lethalis* St. Hilaire, *Matayba guianensis* Aublet., *Rhamnidium elaeocarpum* Reissek, *Cupania cinerea* Poeppig and Endl., *Casearia aculeata* Jacq., *Trichilia elegans* Adr. Juss).

While flying to flowers, cerambycid beetles devote much time to protecting themselves from attacks by predators, mainly hymenopterans and hemipterans (but never birds), as well as intra- and extra-specific aggression. Once fed, they often begin to mate on the plant.

Finally, experience has shown that dramatic faunal changes can be expected between years in areas initially having thriving and diverse populations of anthophilous cerambycids. The reasons for these abrupt declines are unknown, but could reflect changes in plant succession, pollution (acid rains and use of pesticides), forest fragmentation, or climate change. Only time and more investigation will tell.

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Literature Cited

- Blackman, M. W., and H. H. Stage. 1918.** Notes on insects bred from the bark and wood of the American Larch- *Larix laricina* (DuRoi) Koch. New York State College of Forestry, Technical Publications 10: 11–115.
- Clarke, R. O. S. 2013.** Bolivian Rhinotragini VII: provisional report of higher altitude species (Coleoptera, Cerambycidae) with descriptions of new taxa. *Papéis Avulsos de Zoologia* 53(28): 373–406.
- Clarke, R. O. S. 2015.** Bolivian Cerambycinae: new anthophilous species (Coleoptera, Cerambycidae). *Insecta Mundi* 0453: 1–22.
- Di Iorio, O. R. 2003.** Feeding habits of adult Cerambycidae (Coleoptera) and other insects from Argentina. *Giornale Italiano di Entomologia* 10: 175–204.
- Galileo M. H. M., and U. R. Martins. 2007.** Contribuição ao conhecimento dos Clytini neotropicais (Coleoptera, Cerambycidae, Cerambycinae). *Revista Brasileira de Entomologia* 51(3): 346–351.
- Galileo M. H. M., and U. R. Martins. 2008.** Novos Cerambycinae (Cerambycidae) da Região Neotropical. *Papéis Avulsos de Zoologia* 48(7): 49–54.
- Horton, J. R. 1917.** The three-lined fig-tree borer. *Journal of Agricultural Research* 11: 371–382.
- Linsley, E. G. 1961.** The Cerambycidae of North America. Part I. Introduction. University of California Publications in Entomology 18: 1–97.
- Killeen, T. J., E. E. Garcia, and S. G. Beck. 1993.** *Guia de Arboles de Bolivia*. Guia de Arboles de Bolivia; La Paz, Bolivia. 958 p.
- Martins U. R. 2006.** Cerambycidae sul-americanos (Coleoptera) 8. Sociedade Brasileira de Entomologia; Curitiba, Brazil. 234 p.
- Martins U. R. 2009.** Cerambycidae sul-americanos (Coleoptera) 10. Sociedade Brasileira de Entomologia; Curitiba, Brazil. 373 p.
- Martins U. R., and M. H. M. Galileo. 2006.** Novos taxons de Cerambycinae (Coleoptera, Cerambycidae) da Regiao Neotropical. *Iheringia* 96(2): 173–178.
- Martins U. R., and D. S. Napp. 2007.** Novos Cerambycinae neotropicais e transferencia de *Tippmannia* Monné para Hesperophanini (Coleoptera, Cerambycidae). *Revista Brasileira de Entomologia* 51(2): 190–196.
- Monné, M. A. 2001a.** Catalogue of the Neotropical Cerambycidae (Coleoptera) with known host plant—Part I: Subfamily Cerambycinae, Tribes Achrysonini to Elaphidiini. *Publicações Avulsas do Museu Nacional*, 88: 1–108.
- Monné, M. A. 2001b.** Catalogue of the Neotropical Cerambycidae (Coleoptera) with known host plant—Part II: Subfamily Cerambycinae, Tribes Graciliini to Trachyderini. *Publicações Avulsas do Museu Nacional*, 90: 1–119.
- Monné, M. A. 2016.** Catalogue of the Cerambycidae (Coleoptera) of the Neotropical Region. Part I. Subfamily Cerambycinae. (Available at ~ <http://www.cerambyxcat.com/Part 1 Cerambycinae.pdf>, Last accessed July 2017.
- Monné, M. A., and S. A. Fragoso. 1996.** Sobre *Eriphus* Audinet-Serville, 1834 e *Athetesis* Bates, 1870 (Coleoptera, Cerambycidae, Cerambycinae, Trachyderini). *Revista Brasileira de Entomologia*, 40(1): 113–120.

- Napp D. S., and U. R. Martins. 2002a.** O género *Callideriphus* Blanchard, 1851 (Heteropsini). Revista Brasileira de Entomologia 46(2): 123–128.
- Napp D. S., and U. R. Martins. 2002b.** *Eryphus* Perty, e *Tacyba*, novo genero de Heteropsini (Coleoptera: Cerambycidae). Revista Brasileira de Entomologia 46(1): 83–92.
- Napp D. S., and U. R. Martins. 2006a.** Notas e descrições de novos taxons em Cerambycinae Neotropicais (Coleoptera, Cerambycidae). Papéis Avulsos de Zoologia, 46(4): 31–42, 8 figs.
- Napp D. S., and U. R. Martins. 2006b.** Novos taxons sul-Americanos de Compsocerini (Coleoptera, Cerambycidae). Papéis Avulsos de Zoologia 46(22): 245–250.
- Napp, D. S., and Mermudes, J. R. M. 2010.** Revision of the genus *Dihammaphora* Chevrolat (Coleoptera, Cerambycidae). I. Species with 11-segmented antennae. Journal of Natural History 44(13–14): 869–889.
- Nee, M. H. 2004.** Flora de la Región del Parque Nacional Amboró, Bolivia. Vol 2: Magnoliidae, Hamamelidae y Caryophyllidae. Editorial FAN, Santa Cruz de la Sierra, Bolivia. 261p.
- Nee, M. H. 2008.** Flora de la Región del Parque Nacional Amboró, Bolivia. Vol 3: Dilleniidae. Editorial FAN, Santa Cruz de la Sierra, Bolivia. 255p.
- Perger R., and G. Guerra. 2015.** The first longhorned beetle record for the Prepuna in the Bolivian Andes and Potosi Department in Bolivia: a new species of *Dirocoremia* (Coleoptera: Cerambycidae: Rhopalophorini). Zootaxa 4502(1): 143–149.
- Wappes J. E., and S. W. Lingafelter. 2011.** *Meringodes* Wappes and Lingafelter (Coleoptera: Cerambycidae: Cerambycinae), a new genus of Rhopalophorini from Bolivia. The Coleopterists Bulletin 65(1): 33–38.
- Wappes, J. E., S. W. Lingafelter, M. A. Monné, and J. Ledezma Arias. 2013.** Additions to the known Vesperidae and Cerambycidae (Coleoptera) of Bolivia. Insecta Mundi 0319: 1–25.
- Wappes, J. E., S. W. Lingafelter, and R. Perger. 2011.** Additions and deletions to the known Cerambycidae (Coleoptera) of Bolivia. Insecta Mundi 150: 1–8.
- Wappes, J. E., R. F. Morris, E. H. Nearns, and M. C. Thomas. 2006.** Preliminary checklist of Bolivian Cerambycidae (Coleoptera). Insecta Mundi 20 No. 1–2: 1–46.
- Webb, J. L. 1909.** The southern pine sawyer. United States Department of Agriculture, Burbank Entomological Bulletin 58: 41–56.

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Appendix 1. Species list of Bolivian anthophilous Cerambycinae, with localities and host flower records. Species are presented alphabetically by tribe.

Tribe Basipterini

Basiptera castaneipennis Thomson, 1864

Dept. Santa Cruz. 18°59'S/63°14'W, 520 m, Abapo-Camiri Highway, 10 km S Abapo: on/flying to flowers of “Tinajero A”, 3 females, 2.I.2008, 2 males and 2 females, both pairs in coitus, 12.I.2010 (RCSZ).

Remarks. Although Di Iorio (2003) provides a table of flower species visited specifically by this species (as well as tables for many other species), he does not refer to *Croton* anywhere in his paper.

Tribe Callichromatini

***Callichroma iris* Taschenburg, 1870**

Dept. Santa Cruz. 18°08'S/63°44'W, 1.914 m, Provincia Florida, Floripondio (east): on/flying to flowers of "Sotillo", male, 29.XI.2009 (RCSZ).

Remarks. According to Martins (2009) this specimen is an intermediate, higher altitude form with longer antennae (2× body length), antennomere XI more than twice as long as X, etc.), between *C. iris* and *C. iris trilineatum* (Bates, 1879).

***Callichroma sericeum* (Fabricius, 1792)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Piton amarillo", female, 14.XI.2005 (RCSZ), on/flying to flowers of "Sapaimosi", female, 11.X.2004, male, 19.XII.2005 (RCSZ).

Remarks. Also observed on "Sama blanca", "Piton" and other flowering plants.

***Cnemidochroma buckleyi* (Bates, 1879)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Piton amarillo", 1 ex., 8.XI.2003 (ACMT); male, 10.X.2005, male, 22.X.2005 (RCSZ); on/flying to flowers of "Sama blanca chica", female, 12.XI.2005 (RCSZ); on/flying to flowers of "Sapaimosi", male, 21.XII.2005 (RCSZ); on/flying to flowers of "Tutumillo espinoso", female, 4.XI.2005 (MCNZ).

Remarks. Also observed on "Sama blanca" flowers.

***Mionochroma electrinum* (Gounelle, 1911)**

Dept. Tarija. 21°15'S/63°35'W, 350 m, 4–6 km W Villamontes, Hotel Las Marias and adjacent roads of Rio Pilcomayo Valley: on white-flowering *Acacia*, female, 12.I.2005, male and female, 19.I.2006 (RCSZ); 4 males and female, 18.I.2006 (MNKM). 21°18'S/63°30'W, 350 m, 7 km WSW Villamontes: on/flying to flowers of "Tinajero A", female, 14.XII.2007 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 2 males, 12.XII.2007 (RCSZ); on "false Urundel" flowers, male, 12.XII.2007 (RCSZ).

***Mionochroma pseudovittatum* (Schwarzer, 1923)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", female, 8.XII.2003 (ACMT); on/flying to flowers of "Sapaimosi", female, 21.XII.2005 (RCSZ).

Remarks. Also observed on many other species of host flower.

***Mionochroma subaurosom* (Zajciw, 1966)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", 2 males and female, 3–5.V.2005 (RCSZ); on/flying to flowers of "Sapaimosi", 2 males, 19+24.XII.2005 (RCSZ); on/flying to flowers of "Sama blanca", male, 5.XII.2009 (RCSZ); on/flying to flowers of "Ramoneo", female, 25.XII.2007, S. Abrahamczyk col. (MNKM). 18°43'S/63°27'W, 750 m, 20 km NNW Abapo, 17 km Road to Moroco "Las Petas": on/flying to flowers of "Sapaimosi chico", female, 6.XII.2008 (RCSZ).

Remarks. Also observed on many other species of host flower.

Tribe Clytini***Ayriclytus bolivianus* Martins, 2011**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Mango", female, 5.IX.2005 (RCSZ); on/flying to flowers of "Gomphrena", male and female, 8+21.VIII.2007 (RCSZ); on/flying to flowers of "Sapaimosi chico", female, 6.XI.2008 (RCSZ).

***Itaclytus tumulifer* Aurivillius, 1908**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Laguno", female, 27.IX.2007 (RCSZ).

***Mecometopus wallacei* (White, 1855)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", 3 males and female, 4–11.V.2005 (RCSZ); on/flying to flowers of "Tutumillo espinosa", female, 24.XII.2009 (RCSZ).

***Megacyllene acuta* (Germar, 1821)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", female, 9.X.2004, male, 4.XII.2004 (RCSZ); on/flying to flowers of "Bejuco hoja lanuda", male, 5.V.2005 (RCSZ); on/flying to flowers of "Sapaimosi", male, 25.XII.2005 (RCSZ).

Remarks. Also observed on many other species of host flower.

Dept. Tarija: 21°16'S/63°27'W, 366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of "Naranjillo", female, 12.XII.2011 (RCSZ).

***Megacyllene angulata* (Fabricius, 1775)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", female, 23.IV.2005 (RCSZ); on/flying to flowers of "Barbasquillo", male, 4.VIII.2005, female, 4.IX.2005 (RCSZ); on/flying to flowers of "Sapaimosi": male, 22.XII.2005 (RCSZ).

Remarks. Also observed on many other species of host flower.

Two specimens, collected well above known Bolivian records for this species, lack pubescence on scutellum and apical third of elytra; the fascia are generally abbreviated, but broader, and the pubescence is somewhat ochreous, except on the apical urotergite, which has bright yellow pubescence covering almost entire surface. Moreover, these females come from an area rich in endemic species (discussed under the entry for *Eryphus picticollis*) suggesting they may represent a new species. They were collected at the locality below.

Dept. Santa Cruz. 18°08'S/63°44'W, 1,914 m, Provincia Florida, Floripondio (east): on flowers of "Sotillo": male, 27.XI.2009, female, 29.XI.2009 (RCSZ).

***Megacyllene chalybeata* (White, 1855)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", male, 1.V.2005 (RCSZ).

***Megacyllene proxima* (Laporte and Gory, 1835)**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of "Sagüintillo", male and female, 1.XI.2009, female, 1.XI.2009 (RCSZ). 18°08'S/63°44'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of "Sotillo", female, 16.XI.2009, male, 27.XI.2009 (RCSZ).

***Miriclytus miri* Galileo and Martins, 2007**

Dept. Santa Cruz. 18°08'S/63°44'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of "Sotillo", female, 26.XI.2009 (RCSZ).

***Pirangoclytus granulipennis* Zajciw, 1963**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", 2 males, 10+11.V.2005 (RCSZ).

***Pirangoclytus laetus* (Fabricius, 1801)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", female, 14.V.2005 (RCSZ); on/flying to flowers of "Ramoneo", female, 14.VIII.2008 (RCSZ).

***Pirangoclytus purus* Bates, 1870**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda": 4 females, 30.IV–12.V.2005 (RCSZ); on/flying to flowers of "Sama blanca chica", female, 21.X.2007 (RCSZ).

***Pirangoclytus sulphureus* Di Iorio, 2006**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", 3 males and female, 2–14.V.2005 (RCSZ).

Tribe Compsocerini***Dilocerus brunneus* Napp and Martins, 2006**

Dept. Santa Cruz. 18°08'S/63°44'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of "Sagüintillo", male, 29.XI.2009 (RCSZ).

***Dilocerus marinonii* Napp, 1980**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of "Sagüintillo", 2 males and 2 females, 1.XI.2009 (RCSZ). 18°08'S/63°44'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of "Sagüintillo", 2 females, 29.XI.2009 (RCSZ).

***Ecoporanga achira* Napp and Martins, 2006**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of "Sagüintillo", male, 1.XI.2009 (RCSZ); on/flying to flowers of "Lloque colorado", female, 2.XI.2009 (RCSZ). 18°08'S/63°44'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of "Sotillo", male, 25.XI.2009, male and 3 females, 26.XI.2009, 2 females, 27.XI.2009 (RCSZ); on/flying to flowers of "Sagüintillo", male and female, 29.XI.2009 (MZSP).

Remarks. The original description includes a female paratype collected at the Hotel Flora and Fauna; this is almost certainly a labelling error; it was collected the day after, and probably at the same place, as the holotype; only a few kilometers from the records set down above.

***Ethemon imbasale* Tippmann, 1960**

Dept. Santa Cruz. 18°08'S/63°45'W, 1809 m, Provincia Florida, Bicoquin: on/flying to flowers of “Khurokhu”, female, 31.X.2009 (RCSZ). 18°08'S/63°45'W, 1893 m, Provincia Florida, Floripondio (west): on/flying to flowers of “Sagüintillo”, male, and male and female (in coitus), 1.XI.2009, male, 2.XI.2009 (RCSZ). 18°08'S/63°45'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of “Sotillo”, male, 26.XI.2009 (RCSZ).

***Goatacara boliviana* Napp and Martins, 2006**

Dept. Santa Cruz. 18°08'S/63°45'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of “Sotillo”, 2 females, 27.XI.2009, female, 29.XI.2009 (RCSZ); female, 29.XI.2009 (MZSP).

***Orthostoma abdominale* (Gyllenhal, 1817)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Sama blanca”, female, 8.XI.2004 (DZUP).

***Rierguscha florida* Napp and Martins, 2006**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of “Sagüintillo”: 5 males and 2 females, 1.XI.2009, female, 2.XI.2009 (RCSZ); male, 1.XI.2009 (MZSP).

Remarks. This species incorrectly identified as *Rierguscha bicolor* Viana, 1970 in Wappes et al. (2006), and not corrected in Wappes et al. (2011, 2013)]

Tribe Eburini

***Eburella pinima* Martins, 1997**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of “Sagüintillo”, 2 females, 2.XI.2009 (RCSZ). 18°08'S/63°45'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of “Lloque colorado”, female, 2.XI.2009 (RCSZ); on/flying to flowers of “Llave”, 2 males, 25.XI.2009 (RCSZ).

***Pronuba lenkoi* Martins and Monné, 1974**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of “Sagüintillo”, 5 males and female, 1.XI.2009 (RCSZ). 18°08'S/63°45'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of “Llave”, male, 26.XI.2009 (RCSZ).

Tribe Ectenessini

***Ectenessa quadriguttata* (Burmeister, 1865)**

Dept. Tarija. 21°40'S/63°38'W, 793 m, 5 km W Santa Cruz-Yacuiba Highway, Comunidad Sanandita-La Granja: on/flying to flowers of “Tinajero A”, male, 14.XII.2011 (RCSZ).

Tribe Heteropsini***Callideriphus grossipes signaticollis* Melzer, 1934**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of "Sagüintillo", male and female, 1.XI.2009 (RCSZ).

Remarks. Wappes et al. (2006) recorded *Callideriphus grossipes grossipes* for Bolivia; but these specimens (illustrated in Wappes' unpublished manual of Bolivian Cerambycidae) show two males, one with wide, square, black patch on pronotal disc, the other with entirely black pronotum. The male Floripondio specimen has an irregular medium-sized patch on pronotum, the female similar to Wappes' first (*sic.*) male. Napp and Martins (2002a) state that specimens with wide, black patches on the pronotum correspond to *Callideriphus signaticollis* Melzer, 1934, which they treat as a junior synonym of *Callideriphus grossipes flavipennis* Melzer, 1934. Here, the authors refrain from choosing a subspecies, or, maybe, naming a new species, for the same arguments presented below for *Eryphus picticollis* (Gounelle, 1911).

***Chrysoprasia abyara* Napp and Martins 1998**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", 3 males, 23+24.XII.2004 (RCSZ); on/flying to flowers of "Bejuco hoja lanuda", 2 males and 2 females, 29.IV.2005 (MNKM); male, 1.V.2005, male and 2 females, 4–6.V.2005 (RCSZ); on/flying to flowers of "Mango", male, 5.IX.2004 (RCSZ); on/flying to flowers of "Ramoneo", female, 11.VIII.2008 (RCSZ); on/flying to flowers of "Sapaimosi", 2 males, 24.IX.2009 (RCSZ).

***Chrysoprasia aeneiventris* Bates, 1870**

Dept. Santa Cruz. 18°59'S/63°14'W, 520 m, Abapo-Camiri Highway, 10 km S Abapo: on/flying to flowers of "Tinajero A" female, 5.XII.2008 (RCSZ). 19°05'S/63°31'W, 730 m, 2 km N Tatarenda, beside lake: on/flying to flowers of "Tinajero A" 3 males, 20.I.2006 (RCSZ). 19°48'S/63°39'W, 1070 m, 6 km W Estancia Caraparacito, Quebrada Angostura: on/flying to flowers of "Tinajero A", female, 3.I.2008 (RCSZ). 19°57'S/63°20'W, 470 m, 8 km SSE Abapo, 5.8 km Charagua Highway: on/flying to flowers of "Tinajero A", 2 males, 29.XII.2008 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 3 males and 4 females, 11.XII.2007 (RCSZ). 21°15'S/63°35'W, 350 m, 4–7 km W Villamontes, Hotel Las Marias and adjacent roads of Rio Pilcomayo Valley: on white-flowering *Acacia*, 4 males and female, 12.I.2005, 2 males, 18–19.I.2006 (RCSZ). 21°16'S/63°27'W, 366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of "Naranjillo", male, 12.XII.2011 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", male and female, 12.XII.2007 (MNKM). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of "Tinajero B", 2 males and female, 10.I.2008 (RCSZ). 21°40'S/63°38'W, 793 m, 5 km W Santa Cruz-Yacuiba Highway, Comunidad Sanandita-La Granja: on/flying to flowers of "Tipilla", male, 14.XII.2011 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of "Tinajero A", male and female in coitus, 8.I.2010 (RCSZ).

***Chrysoprasia airi* Napp and Martins, 1997**

Dept. Santa Cruz. 18°59'S/63°14'W, 520 m, Abapo-Camiri Highway, 10 km S Abapo: on/flying to flowers of "Tinajero A", 2 males, 17.XII.2008 (RCSZ).

Dept. Chuquisaca. 20°36'S/63°17'W, 750 m, Santa Cruz-Yacuiba Highway, 21 km N Machereti: on/flying to flowers of "Tipilla", female, 15.XII.2011 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 4 males and 2 females, 10–11.XII.2007 (RCSZ). 21°16'S/63°27'W,

366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of “Naranjillo”, female, 12.XII.2011 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of “Tinajero A”, 2 males and 2 females, 12.XII.2007 (RCSZ); male and female, 13.XII.2007 (DZUP); on/flying to flowers of “false Urundel”, 2 females, 12.XII.2007 (RCSZ).

***Chrysoprasia aurata* Aurivillius, 1910**

Dept. Santa Cruz. 18°59'S/63°14'W, 520 m, Abapo-Camiri Highway, 10 km S Abapo: on/flying to flowers of “Tinajero A”, male, 2.I.2008, female, 5.XII.2008 (RCSZ).

Dept. Tarija. 21°16'S/63°29'W, 375 m, 5 km W Villamontes, 1 km W Puente Usterez: on/flying to flowers of “Lanza chaqueño”, female, 12.XII.2011 (RCSZ). 21°16'S/63°27'W, 366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of “Naranjillo”, female, 12.XII.2011 (RCSZ).

***Chrysoprasia aureicollis* White 1853**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to/on flowers of “Turere”, male and female, 9.X.2004 (RCSZ); on/flying to flowers of “Sama blanca chica”, 1 ex., 3.XI.2005 (DZUP); on/flying to flowers of “Sama blanca”, male, 9.XI.2005 (RCSZ); on/flying to flowers of “Barbasquillo”, female, 18.X.2007 (RCSZ).

***Chrysoprasia aurigena aurigena* (Germar, 1824)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Bejuco hoja lanuda”, female, 29.IV. 2005, female, 12.V.2005 (RCSZ). 18°59'S/63°14'W, 520 m, Abapo-Camiri Highway, 10 km S Abapo: on/flying to flowers of “Tinajero A”, male and female, 2.I.2008 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of “Urundel chaqueño”, male and 2 females, 11.XII.2007 (RCSZ). 21°15'S/63°35'W, 350 m, 4–7 km W Villamontes, Hotel Las Marias and adjacent roads of Rio Pilcomayo Valley: on white-flowering *Acacia*, female, 12.I.2005 (MNKM); male and 2 females, 19.I.2006 (RCSZ); on/flying to flowers of “Tinajero A”, 3 females, 19.I.2006 (RCSZ). 21°17'S/63°28'W, 402 m, 4 km W Villamontes, 1.5 km S Puente Usterez: on/flying to flowers of “Bejuco lechoso chaqueño”, female, 10.XII.2011 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of “Tinajero B”, female, 11.I.2008 (RCSZ). 21°40'S/63°38'W, 793 m, 5 km W Santa Cruz-Yacuiba Highway, Comunidad Sanandita-La Granja: on/flying to flowers of “Tipilla”, male, 14.XII.2011 (RCSZ).

***Chrysoprasia azurearegina* Clarke (2015)**

Dept. Santa Cruz. 19°00'S/63°14'W, 680 m, 20 km S Abapo: on/flying to flowers of “Tinajero A”, male, 17.XII.2007 (RCSZ), male, 17.XII.2007 (MZUSP); male, 17.XII.2007 (ACMT). 19°48'S/63°39'W, 1070 m, 6 km W Estancia Caraparacito, Quebrada Angostura: on/flying to flowers of “Tinajero A”, male, 3.I.2008 (MNKM); female, 3.I.2008 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of “Tinajero A”, male, 11.XII.2007 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of “Tinajero A”, male, 8.I.2010 (MNKM); male (RCSZ); male (FSCA); male (USNM).

***Chrysoprasia concolor* Redtenbacher, 1868**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Sama blanca”, female, 20.XI.2005 (RCSZ). 18°09'S/63°49'W, 1,300m, Achira: on white-flowering *Acacia*, female, 25.XI.2004 (RCSZ). 18°59'S/63°14'W, 520 m, Abapo-Camiri Highway,

10 km S Abapo: on/flying to flowers of “Tinajero A”, female, 2.I.2008 (RCSZ). 19°48'S/63°39'W, 1070 m, 6 km W Estancia Caraparacito, Quebrada Angostura: on/flying to flowers of “Tinajero A”, female, 3.I.2008 (DZUP).

Dept. Chuquisaca. 20°36'S/63°17'W, 750 m, Santa Cruz-Yacuiba Highway, 21 km N Machereti: on/flying to flowers of “Tipilla”, 2 females, 15.XII.2011 (RCSZ).

Dept. Tarija. 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of “Tinajero B”, male and female, 11.I.2008 (RCSZ).

Chrysoprasis festiva Audinet-Serville, 1834

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Bejuco hoja lanuda”, 2 males, 21.IV.2005 (RCSZ); on/flying to flowers of “Barbasquillo”, male, 29.VIII.2005 (RCSZ); on/flying to flowers of “Piton amarillo”, female, 25.X.2005 (RCSZ).

Chrysoprasis hypocrita Erichson, 1847

Dept. Santa Cruz. 17°28'S/63°42'W, 400 m, 5 km W Buena Vista, Rancho El Cairo: on/flying to flowers of “Barbasquillo”, female, 20.VIII.2005 (RCSZ). 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Sama blanca”, female, 28.XI.2004 (RCSZ); on/flying to flowers of “Bejuco hoja lanuda”, 4 males and 6 females, 21.IV–5.V.2005 (RCSZ); on/flying to flowers of “Pacay rosario”, male, 6.VI.2005 (RCSZ).

Dept. Tarija. 21°15'S/63°35'W, 350 m, 6 km W Villamontes, Hotel Las Marias and adjacent roads of Rio Pilcomayo Valley: on white-flowering *Acacia*, male, 18.I.2006 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, Upper Rio Isiri: on/flying to flowers of “Tinajero B”, female, 10.I.2008 (MNKM); 2 females, 11.I.2008 (RCSZ).

Chrysoprasis maryhowardae Clarke, 2015

Dept. Santa Cruz. 17°27'S/63°43'W, 400 m, 5 km W Buena Vista, 1 km W Candelaria: on/flying to flowers of “Gomphrena”, male, 14.VIII.2007 (MNKM); female, 14.VIII.2007 (RCSZ).

Chrysoprasis obiuna Napp and Martins, 1997

Dept. Santa Cruz. 19°48'S/63°39'W, 1070 m, 6 km W Estancia Caraparacito, Quebrada Angostura: on/flying to flowers of “Tinajero A”, female, 3.I.2008 (RCSZ).

Chrysoprasis richteri Gounelle, 1913

Dept. Tarija. 21°15'S/63°35'W, 350 m, 4–6 km W Villamontes, Hotel Las Marias and adjacent roads of Rio Pilcomayo Valley: on/flying to flowers of “Tinajero A”, male and female, 6.I.2010 (RCSZ). 21°18'S/63°30'W, 350 m, 7 km WSW Villamontes: on white-flowering *Acacia*, male, 19.I.2006 (DZUP). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of “Tinajero B”, male, 11.I.2008, female, 11.I.2010 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of “Tinajero A”, female, 8.I.2010 (RCSZ).

Chrysoprasis tobiuna Napp and Martins, 1988

Dept. Santa Cruz. 17°27'S/63°43'W, 400 m, 5 km W Buena Vista, 1 km W Candelaria: on/flying to flowers of “Gomphrena”, female, 31.VIII.2007 (RCSZ). 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Barbasquillo”, male, 23.VIII.2005 (RCSZ). On/flying to flowers of “Sama blanca chica”, female, 17.IX.2007 (RCSZ).

***Eryphus picticollis* (Gounelle, 1911)**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of "Sagüintillo", female, 1.XI.2009 (RCSZ).

Remarks. Napp and Martins (2002b) recognise two morphs from the same area of Brazil-Argentina (*E. picticollis* m. *quadripunctatus* Fuchs, 1961 and *E. picticollis* m. *reductus* Fuchs, 1961); and from the same area refer to another morph (without name). According to Clarke (2013) the area of Bicoquin-Floripondio is rich in endemic Rhinotragini, and Napp and Martins (2006a, 2006b) and Wappes and Lingafelter (2011) have described genera of singular-looking species from this area, and other new genera and species have been described by Galileo and Martins (2007, 2008), Martins and Galileo (2006), Martins and Napp (2007), and Clarke (2015). The inference being, that the Bolivian specimen of *Eryphus* may represent a new species; but confirming this would require revision of the status of the morphs referred to by Napp and Martins (*sic*), thereby complicating a taxonomic conundrum that appears to need further research.

***Erythrochiton jacundum* (Gounelle, 1913)**

Dept. Santa Cruz. 18°59'S/63°14'W, 520 m, Abapo-Camiri Highway, 10 km S Abapo. On/flying to flowers of "Tinajero A", female, 5.XII.2008 (MNKM).

19°00'S/63°14'W, 680 m, 20 km S Abapo.

On/flying to flowers of "Tinajero A", male, 17.XII.2007 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 3 males and 2 females, 11.XII.2007 (RCSZ); on/flying to flowers of "false Urundel", 2 females, 11.XII.2007 (RCSZ). 21°15'S/63°35'W, 350 m, 6 km W Villamontes, Hotel Las Marias and adjacent roads of Rio Pilcomayo Valley: on white-flowering *Acacia*, female, 2.I.2005 (RCSZ). 21°16'S/63°29'W, 375 m, 5 km W Villamontes, 1 km W Puente Usterez; on/flying to flowers of "Lanza chaqueño", female, 12.XII.2011 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", male, 13.XII.2007 (MNKM). 21°40'S/63°38'W, 793 m, 5 km W Santa Cruz-Yacuiba Highway, Comunidad Sanandita-La Granja: on/flying to flowers of "Khuro-Khu chaqueño", female, 14.XII.2011 (RCSZ).

***Erythropterus boliviensis* Clarke, 2007**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 440 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco Hoja Lanuda", male, 5.V.2005 (MNKM); male, 29.IV.2007 (DZUP); male, 10.V.2005 (MCNZ); male, 10.V.2005, female, 2.V.2007 (MNRJ); male, 11.V.2005, female, 19.IV.2007 (MZSP); male, 29.IV.2005, female, 11.V.2005 (RCSZ).

***Erythropterus kochi* Clarke, 2007**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 420 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama Blanca Chica", male and female, 7+8.X.2005 (MNKM); male and female, 8.X.2005 (DZUP); male and female, 7.X.2005 (FSCA); 2 males and 3 females, 9.X.2006 (MNHN); male and female, 7+8.X.2005 (MNRJ); male and female, 7–8.X.2005 (MZSP); 8 males and 3 females, 17–21.X.2006 (RCSZ); on/flying to flowers of "Sama Blanca", male and female, 26+30.X.2005 (MCSZ), male and female, 7+8.XI.2005 (RCSZ); on/flying to flowers of "Barbasquillo" vine, female, 29.VIII.2005 (RCSZ); on/flying to flowers of "Turere", female, 9.X.2005 (RCSZ).

***Eupemplus illuminus* Mermudes and Napp, 2001**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", 5 males and 3 females, 28.IV–12.V.2005 (RCSZ).

***Mallosoma zonatum* (Sahlberg, 1823)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Red Powder Puff", male and female, 11.IV.2005 (RCSZ). On/flying to flowers of "Bejuco hoja lanuda", male, 10.V.2005 (RCSZ); on/flying to flowers of "Turere", female, 28.X.2005 (RCSZ); on/flying to flowers of "Sapaimosi", male, 21.XII.2005 (RCSZ).

Remarks. also observed on Sama blanca, Sama blanca chica, Sapaimosi chico, Barbasquillo, Piton amarillo, Ramoneo, Gomphrena, Tutumillo espinoso, and others.

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "false Urundel", female, 11.XII.2007 (RCSZ). 21°15'S/63°35'W, 350 m, 6 km W Villamontes, Hotel Las Marias and adjacent roads of Rio Pilcomayo Valley; on white-flowering *Acacia*, female, 18.I.2006 (RCSZ). 21°18'S/63°30'W, 350 m, 7 km WSW Villamontes, on white-flowering *Acacia*, 19.I.2006 female (RCSZ); on/flying to flowers of "Tinajero A", female, 19.I.2006 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5km Sanandita Road; on/flying to flowers of "Tinajero A", female, 8.I.2010 (RCSZ).

***Tobipuranga ruficoxis* (Bates, 1870)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", 3 females, 24.IV–1.V.2005 (RCSZ); on/flying to flowers of "Sama blanca", female, 15.XI.2005 (RCSZ).

Tribe Hexoplini

Remarks. Martins (2006) indicated that, among the Hexoplini, fine ommatidia are only found in the genus *Stenygra* Audinet-Serville, 1834 and true to form it is the only species found regularly on flowers during the day.

***Stenygra cosmocera* White, 1855**

Dept. Santa Cruz. 17°25'96"S/63°38'13"W, 420 m, 12 km ENE Buena Vista, Road to San Javier: on/flying to flowers of "Bejuco campanilla", 4 males, 8+28.XII.2005 (RCSZ); male, 6.I.2006 (MNKM). 18°59'S/63°14'W, 520 m, Abapo-Camiri Highway, 10 km S Abapo; on/flying to flowers of "Tinajero A" flowers, female, 5.XII.2008 (RCSZ)

Tribe Molorchini***Merionoedopsis brevipennis* Melzer, 1934**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", male, 21.IV.2005, male, 5.V.2005 (RCSZ); male, 22.IV.2008 (MNKM); on/flying to flowers of "Barbasquillo", female, 8.IX.2005 (MNKM); female, 13.VIII.2007 (RCSZ); on/flying to flowers of "Ramoneo", female, 14.VIII.2008 (RCSZ).

***Merionoedopsis zamalloae* Clarke, 2015**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 440 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco colorado enano", female, 13.IX.2007 (MNKM).

Tribe Oxycoleini

***Oxycoleus flavipes* Martins and Galileo, 2006**

Dept. Santa Cruz. 18°07'63°47'W, 1809 m, Provincia Florida, Bicoquin: on/flying to flowers of “Khuro-Khu”, male, 31.X.2009 (RCSZ). 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of “Sagüintillo”, male and female, 2.XI.2009 (RCSZ); on/flying to flowers of “Lloque colorado”, male, 2.XI.2009 (RCSZ). 18°08'S/63°45'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of “Sotillo”, 3 males, 25–27.XI.2009 (RCSZ); male and female, 29.XI.2009 (MZSP).

***Oxylopsebus brachypterus* Clarke, 2008**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Barbasquillo”, female, 3.IX.2005 (MNKM); male, 23.VIII.2005 (MNRJ); male, 26.VIII.2005 (RCSZ); male, 30.VIII.2005, female, 8.IX.2005 (MZSP).

Tribe Pteroplatini***Aphylax lyciformis* Lacordaire, 1869**

Dept. Tarija. 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of “Tinajero B”, 2 males and 2 females, 11.I.2008 (RCSZ).

***Cosmoplatidius abare* Napp and Martins, 2006**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Red Powder Puff”, female, 29.IV.2003, male and 2 females, 5+13+18.V.2003, female, 19.IV.2004, male, 15.V.2004 (ACMT); female, 30.III.2005, female, 5.V.2005 (RCSZ).

***Deltosoma xerophila* Di Iorio, 1995**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Red Powder Puff”, male, 7.V.2003 (ACMT).

Tribe Rhopalophorini***Argyrodines aurivillii* (Gounelle, 1905)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Laguno”, female, 28.IX.2005 (MNKM); female, 30.IX.2005, male, 2.X.2005 (RCSZ); on/flying to flowers of “Guabira”, male, 4.X.2005 (RCSZ); on/flying to flowers of “Juno”, female, 21.X.2005 (RCSZ); on/flying to flowers of “Sama blanca chica”, female, 21.X.2005 (RCSZ); on/flying to flowers of “Piton amarillo”, 2 females, 20+23.X.2005 (RCSZ); on/flying to flowers of “Gomphrena”, female, 13.VIII.2007 (RCSZ). 18°59'S/63°14'W, 520 m, Santa Cruz-Yacuiba Highway, 10 km S Abapo : on/flying to flowers of “Tinajero A”, male, 2.I.2008 (RCSZ). 20°16'S/63°18'W, 780 m, Santa Cruz-Yacuiba Highway, 56 km S Camiri: on/flying to flowers of “Tipilla”, female, 14.XII.2011 (RCSZ).

Dept. Tarija. 21°16'S/63°29'W, 375 m, 5 km W Villamontes, 1 km W Puente Usterez. On/flying to flowers of “Lanza chaqueño”, female, 12.XII.2011 (RCSZ).

***Brachylophora auricollis* (Bruch, 1918)**

Dept. Santa Cruz. 18°59'S/63°14'W, 520 m, 10 km S Abapo: on/flying to flowers of “Tinajero A”, male, 2.I.2008 (DZUP). 19°00'S/63°14'W, 680 m, Foothill Chaco Forest, 20 km S Abapo: on/flying to flowers of “Tinajero A”, 2 males and female, 17.XII.2007 (MZSP); male and female, 17.XII.2007 (MNRJ); male and female, 17.XII.2007 (MCNZ); male and female, 17.XII.2007 (DZUP); 3 males, 17.XII.2007 (RCSZ).

Dept. Tarija. 21°21'S/63°12'W, c.400 m, Semi-dry Chaco Forest, Lomas El Quince, 34 km W Villamontes: on/flying to flowers of "Tinajero A", 2 males and female, 12.XII.2007 (FSCA); 2 males and 2 females, 13.XII.2007 (MNKM); 2 males and 5 females, 13.XII.2007 (RCSZ).

***Closteropus herteli* Tippmann, 1960**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Barbasquillo" B, male, 27.X.2007 (RCSZ).

***Coremia plumipes* (Pallas, 1772)**

Dept. Santa Cruz. 17°29'96"S/63°37'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Ramoneo", female, 13.VIII.2008, S. Abrahamczyk col. (RCSZ). 18°43'S/63°27'W, 750 m, 20 km NNW Abapo, 17 km Road to Moroco "Las Petas"; on/flying to flowers of "Sapaimosi chico", male, 6.XII.2008 (RCSZ).

***Cosmisoma ammiralis* (Linnaeus, 1767)**

Dept. Santa Cruz. 17°25'96"S/63°38'13"W, 430 m, 12 km ENE Buena Vista, Road to San Javier: on/flying to flowers of "Esquiziton", 2 males, 16.XII.2005 (MNKM); 21.XII.2005, male, 28.XII.2005, male, 6.I.2006 (RCSZ). 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", female, 29.XI.2006 (RCSZ); on/flying to flowers of "Sapaimosi", male, 29.XI.2006 (RCSZ); on/flying to flowers of "Piton amarillo", male, 14.XI.2009 (RCSZ).

***Cosmisoma angustipenne* Zajciw, 1958**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", male, 11.V.2005 (RCSZ).

***Cosmisoma argyreum* Bates, 1870**

Dept. Santa Cruz. 18°43'S/63°27'W, 750 m, 20 km NNW Abapo, 17 km Road to Moroco, "Las Petas": on/flying to flowers of "Sapaimosi chico", 2 males, 6.XII.2008 (RCSZ).

***Cosmisoma brullei* (Mulsant, 1863)**

Dept. Santa Cruz. 18°59'S/63°14'W, 520 m, 10 km S Abapo: on/flying to flowers of "Tinajero A", male, 2.I.2008 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 7 males and 4 females, 11.XII.2007 (RCSZ); male and female, 11.XII.2007 (MNKM). 21°16'S/63°27'W, 366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of "Naranjillo", female, 12.XII.2011 (RCSZ). 21°18'S/63°30'W, 500 m, 7 km W of Villamontes: on/flying to flowers of "Tinajero A", male, 14.XII.2007 (DZUP); male, 8.I.2008 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 2 females, 12.XII.2007 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of "Tinajero B", male, 10.I.2008 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of "Tinajero A", female, 8.I.2010 (RCSZ).

Remarks. Also observed and photographed (as shown on the frontispiece) visiting *Croton hieronymi* Grisebach.

***Cosmisoma cyaneum rubriventre* Monné and Magno, 1988**

Dept. Chuquisaca. 20°36'S/63°17'W, 750 m, Santa Cruz-Yacuiba Highway, 21 km N Machereti: on/flying to flowers of "Tipilla", female, 15.XII.2011 (RCSZ).

Dept. Tarija. 21°16'S/63°27'W, 366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of "Naranjillo", female, 12.XII.2011 (RCSZ). 21°18'S/63°30'W, 500 m, 7 km W of Villamontes: on/flying to flowers of "Tinajero A", female, 18.I.2006 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of "Tinajero B", 3 males and 3 females, 10.I.2008 (RCSZ); male and female, 10.I.2008 (MNKM).

***Cynoderus (Cynoderus) rufithorax* Gounelle, 1911**

Dept. Tarija. 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", female, 12.XII.2007 (DZUP). 21°40'S/63°38'W, 793 m, 5 km W Santa Cruz-Yacuiba Highway, Comunidad Sanandita-La Granja; on/flying to flowers of "Tipilla", female, 14.XII.2011 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of "Tinajero A", female, 8.I.2010 (RCSZ).

***Cynoderus (Ulododerus) barbatus* Gounelle, 1911**

Dept. Santa Cruz. 17°27'S/63°43'W, 400 m, 5 km W Buena Vista, 1km W Candelaria: on/flying to flowers of "Gomphrena", 2 males, 13–14.VIII.2007, female, 21.VII.2008 (RCSZ); male, 14.VIII.2007 (MNKM). 18°43'S/63°27'W, 750 m, 20 km NNW Abapo, 17 km Road to Moroco "Las Petas": on/flying to flowers of "Sapaimosi chico", male and female, 6.XII.2008 (RCSZ).

***Dihammaphora auratopilosa* Bruch, 1912**

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "false Urundel", male and female, 11.XII.2007 (RCSZ); on/flying to flowers of "Tinajero A", female, 11.XII.2007 (RCSZ). 21°16'S/63°27'W, 366 m, 4 km W Villamontes, west bank Rio Pilcomayo, 2 km S Puente Usterez: on/flying to flowers of "Naranjillo", female, 12.XII.2011 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "false Urundel", 2 males, 12.XII.2007 (RCSZ); 1 ex., 12.XII.2007 (DZUP).

***Dihammaphora auricollis* Martins, 1981**

Dept. Santa Cruz. 18°57'S/63°20'W, 470 m, 13.8 km SSE Abapo, 5.8 km Charagua Rd.: on/flying to flowers of "Tinajero A", female, 12.I.2010 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", male and female (in coitus) and female, 10.I.2010 (RCSZ). 21°16'S/63°27'W, 366 m, 4 km W Villamontes, west bank Rio Pilcomayo, 2 km S Puente Usterez: on/flying to flowers of "Naranjillo", 4 males, 12.XII.2011 (RCSZ). 21°18'S/63°30'W, 500 m, 7 km W of Villamontes, 3 km San Antonio Road: on/flying to flowers of "Tinajero A", male, 14.XII.2007 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of "Tinajero B", 1 ex., 10.I.2008 (DZUP). 21°40'S/63°38'W, 793 m, 5 km W Santa Cruz-Yacuiba Highway, Comunidad Sanandita-La Granja: on/flying to flowers of "Tinajero A", female, 14.XII.2011 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of "Tinajero A", 2 males and female, 8.I.2010 (RCSZ).

***Dihammaphora bruchi* Aurivillius, 1922**

Dept. Santa Cruz. 19°05'S/63°31'W, 730 m, 2 km N Tatarenda, beside lake: on/flying to flowers of "Tinajero A", male, 20.I.2006 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", male and 3 females, 11.XII.2007 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "false Urundel", female, 12.XII.2007 (DZUP); 4 males and female, 12.XII.2007 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of "Tinajero B", 2 males and 3 females,

10–11.I.2008 (RCSZ); male and female, 10.I.2008 (DZUP). 21°28' S/63°08'W, 300 m, edge of Rio Pilcomayo, 0.3 km S Palo Marcado, Dry Chaco Forest: on flowering *Acacia* tree, male and female, 12.XII.2007 (RCSZ). 21°33'S/63°27'W, 518 m, 34 km S Villamontes: on/flying to flowers of “Tipilla”, male and female, 14.XII.2011 (RCSZ). 21°42'S/63°36'W, 762 m, 3–5 km Sanandita Road, Foothill Chaco Forest: on/flying to flowers of “Tinajero A”, female, 8.I.2010 (RCSZ).

Dihammaphora chaquensis Bosq, 1951

Dept. Santa Cruz. 18°00'S/64°02'W, 1300 m, 5 km W Hierba Buena: on/flying to flowers of white *Acacia*, male, 14.XI.2007 (RCSZ). 18°57'S/63°20'W, 470 m, 13.8 km SSE Abapo, 5.8 km Charagua Rd.: on/flying to flowers of “Tinajero A”, 2 females, 12.I.2010 (RCSZ). 19°00'S/63°14'W, 680 m, 20 km S Abapo: on/flying to flowers of “Tinajero A”, female, 17.XII.2007 (DZUP), same data, male (RCSZ).

Dept. Chuquisaca. 20°36'S/63°17'W, 750 m, 21 km N Machereti: on/flying to flowers of “Tinajero A”, 3 males, 10.XII.2007 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of “Tinajero A”, male and 3 females, 11.XII.2007 (RCSZ); on/flying to flowers of “false Urundel”, male, 11.XII.2007 (RCSZ). 21°15'S/63°35'W, 350 m, 4–6 km W Villamontes, Hotel Las Marias and adjacent roads of Rio Pilcomayo Valley: on white-flowering *Acacia*, 2 males and 2 females, 2.I.2005 (RCSZ). 21°16'S/63°29'W, 375 m, 6 km W Villamontes: on/flying to flowers of “Lanza chaqueña”, female, 12.XII.2011 (RCSZ). 21°18'S/63°30'W, 500 m, 7 km W of Villamontes: on/flying to flowers of “Tinajero A”, 2 females, 14.XII.2007 (RCSZ); female, 19.I.2007 (DZUP). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of “Tinajero A”, male, 12.XII.2007 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: on/flying to flowers of “Tinajero B”, male and female, 11.I.2008 (RCSZ). 21°28'S/63°08'W, 300 m, Edge of Rio Pilcomayo, 0.3 km S Palo Marcado, Dry Chaco Forest: flying to flowering *Acacia* tree, male, 12.XII.2007 (RCSZ).

Dihammaphora densiserrata Clarke, 2015

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Bejuco hoja lanuda”, male and female. 22–23.IV.2005 (DZUP), 4 males and female, 22–23.IV.2005, male and female, 28–30.IV.2005, 4 males and 4 females, 2–6.V.2005, female, 10.V.2005, male, 18.V.2005 (RCSZ); on/flying to flowers of “Sama blanca”, male, 22.XI.2005 (RCSZ); on/flying to flowers of “Sama blanca chica”, male, 27.X.2006 (RCSZ). 17°25'96"S/63°38'13"W, 420 m, 12 km ENE Buena Vista, Road to San Javier: on/flying to flowers of “Sama blanca chica”, male, 30.X.2007 (RCSZ).

Remarks. This large specimen with two punctures between lateral and humero-apical costae may be a hybrid.

Dihammaphora dilmanappae Clarke, 2015

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Turere”, 3 males and 2 females 9.X.2004 (RCSZ), 4 males and 3 females, 7.X.2005 (RCSZ), male and female, 7.X.2005 (DZUP); on/flying to flowers of “Bejuco hoja lanuda”, female, 30.IV.2005, male, 5.V.2005 (RCSZ); on/flying to flowers of “Sama blanca chica”, male, 21.X.2006, female, 27.X.2006 (RCSZ).

***Dihammaphora espinotibia* Clarke, 2015**

Dept. Santa Cruz. 18°09'S/63°49'W, 1300 m, Achira: on white-flowering *Acacia*, male, 25.XI.2004 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, Camatindi-Capirenda Rd., Semi-dry Chaco Forest: on/flying to flowers of “false Urundel”, male, 11.XII.2007 (MNKM), male and 2 females, 11.XII.2007 (RCSZ), 1 ex., 11.XII.2007 (DZUP). 21°01'S/63°18'W, 600 m, 30 km N of Villa Montes, 4 km E of Camatindi Semi-dry Chaco Forest: on/flying to flowers of “Tinajero A”, female, 11.XII.2007 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of “Tinajero A”, female, 8.I.2010 (RCSZ).

***Dihammaphora fosterorum* Clarke, 2015**

Dept. Santa Cruz. 18°07'S/63°48'W, 4–5 km N. Achira, Rd to Amboro, 2000 m: on unidentified flowers, male, 12–13.XII. 2000, Wappes & Dozier col. (RCSZ). 18°09'S/63°49'W, 1300 m, Achira: on white-flowering *Acacia*, male, 25.XI.2004 (MNKM). 18°08'S/63°53'W, 6–8 km NNE Samaipata, Rd to La Yunga de Mairana: on unidentified flowers, female, 6.II.2013, Lingafelter & Garzon col. (USNM).

***Dihammaphora gracicollis* Chevrolat, 1859**

Dept. Tarija. 21°18'S/63°30'W, 600–700 m, 7 km W Villamontes: on/flying to flowers of “Tinajero A”, female, 14.XII.2007, male and female, 6.I.2008 (RCSZ). 21°42'S/63°36'W, 762 m, 45 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of “Tinajero A”, female, 8.I.2010 (RCSZ).

***Dihammaphora paraperforata* Clarke, 2015**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Bejuco hoja lanuda”, female, 27.IV.2005, male, 3.V.2005 (RCSZ). 17°27'S/63°42'W, 440 m, Road to Potrerito village, 4 km W of Buena Vista: on/flying to flowers of “Gomphrena”, female, 11.VIII.2007 (RCSZ). 18°43'S/63°27'W, 750 m, 20 km NNW Abapo, 17 km Road to Moroco “Las Petas”: on/flying to flowers of “Sapaimosi chico”, male and female, 6.XII.2008 (RCSZ).

Remarks. This species was incorrectly recorded as *Dihammaphora perforata* (Klug, 1825) by Wappes et al. (2013: figure 31).

***Dihammaphora peruviana* Martins, 1981**

Dept. Santa Cruz. 17°25'96"S/63°38'13"W, 420 m, 12 km ENE Buena Vista, Road to San Javier: flying to flowering tree, male, 6.XII.2006 (RCSZ), 3 males, 4.IV.2008 (RCSZ). On/flying to flowers of “Sama blanca chica”, 3 males, 30.X.2007 (RCSZ). 17°27'S/63°43'W, 400 m, 5 km W Buena Vista, 1 km W Candelaria: on/flying to flowers of “Gomphrena”, 3 males and 4 females, 14–15.VIII.2007, female, 21.VIII.2007 (RCSZ). 17°27'S/63°42'W, 440 m, Road to Potrerito village, 4 km W of Buena Vista: on/flying to flowers of “Gomphrena”, 2 females, 12–13.VIII.2007 (RCSZ). 18°43'S/63°27'W, 750 m, 20 km NNW Abapo, 17 km Road to Moroco “Las Petas”: on/flying to flowers of “Sapaimosi chico”, male and female, 6.XII.2008 (RCSZ); female, 6.XII.2008 (DZUP).

***Dihammaphora pilcomayoensis* Clarke, 2015**

Dept. Tarija. 21°28'S/63°08'W, 300 m, Edge of Rio Pilcomayo, 0.3 km S Palo Marcado, Dry Chaco Forest: flying to *Acacia* tree, male, 12.XII.2007 (MNKM), female (RCSZ).

***Dihammaphora pusilla* Bates, 1870**

Dept. Santa Cruz. 17°25'96"S/63°38'13"W, 420 m, 12 km ENE Buena Vista, Road to San Javier: flying to flowers of indet tree, female, 4.IV.2008 (RCSZ). 17°27'S/63°42'W, 440 m, Road to Potrerito village, 4 km W of Buena Vista: on/flying to flowers of "Gomphrena", male, 11.VIII.2007 (DZUP); female, 13.VIII.2007 (RCSZ). 17°28'S/63°42'W, 440 m, Road to El Cairo-Cafetal, 6 km SW Buena Vista: on/flying to flowers of "Ramoneo", female, 30.VII.2007 (RCSZ). 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", male, 20.IV.2005, female, 30.IV.2005 (DZUP); male and 2 females, 22–23.IV.2005, 2 males and 5 males, 29–30.IV.2005, 6 females, 1–5.V.2005 (RCSZ); on/flying to flowers of "Laguno", male, 21.IX.2005 (RCSZ); on/flying to flowers of "Mango", male, 10.VII.2007 (RCSZ).

***Dirocoremia simplicipes* (Gounelle, 1911)**

Dept. Santa Cruz. 19°00'S/63°14'W, 680 m, 20 km S Abapo: on/flying to flowers of "Tinajero A", 7 males and 2 females, 17.XII.2007 (RCSZ).

Dept. Chuquisaca. 20°36'S/63°17'W, 750 m, 21 km N Machereti: on/flying to flowers of "Tinajero A", female, 10.XII.2007 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 2 males and 2 females, 11.12.2007 (MNKM). 21°18'S/63°30'W, 500 m, 7 km W of Villamontes: on/flying to flowers of "Tinajero A", male, 5.I.2008 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 2 males, 12.XII.2007 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of "Tinajero A", male and female in coitus, 8.I.2010 (RCSZ).

***Dirocoremia tupizai* Perger and Guerra, 2015**

Dept. Potosi. Sud Chicas province, on flowers of *Prosopis ferox* and *Baccharis boliviensis*, F. Guerra & Ariel Guerra Cazón leg. (CBF): Tupiza, 21°26'S/65°43'W, 2995 m, male, 19.VI.2012; 2983 m, 9 males and 4 females, 18.XII.2012; 21°29'S/65°42'W, 2928 m, 15 males and 9 females, 4.I.2013. Tambillo Bajo, 21°23'S/65°44'W, 3039 m, 5 males and 3 females, 4.XII.2013; 3038 m; 3 males, 2 females, 26.VI.2014. Arenales bajo, 21°35'S/65°34'W, 2829 m, 6 males and 4 females, 27.XII.2014. Arenales, 21°42'S/65°34'W, 3276 m, 2 males and 3 females, 2.I.2015.

Remarks. Perger and Guerra (2015) provide altitude records for this species that may be the highest for any cerambycid in Bolivia.

***Ischionodonta iridipennis* (Chevrolat, 1859)**

Dept. Tarija. 21°16'S/63°29'W, 375 m, 5 km W Villamontes, 1 km W Puente Usterez: on/flying to flowers of "Lanza chaqueño", female, 12.XII.2011 (RCSZ). 21°16'S/63°27'W, 366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of "Naranjillo", male, 12.XII.2011 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, upper Rio Isiri: On/flying to flowers of "Tinajero B", male and 2 females, 10.I.2008, male and female in coitus, 11.I.2010 (RCSZ). 21°40'S/63°38'W, 793 m, 5 km W Santa Cruz-Yacuiba Highway, Comunidad Sanandita-La Granja: on/flying to flowers of "Tipilla", female, 14.XII.2011 (RCSZ). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of "Tinajero A", female, 8.I.2010 (RCSZ).

***Ischionodonta semirubra* (Burmeister, 1865)**

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi: on/flying to flowers of "Tinajero A", male and female, 11.XII.2007 (RCSZ). 21°16'S/63°27'W, 366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of "Naranjillo", male, 12.XII.2011 (RCSZ). 21°18'S/63°30'W,

500 m, 7 km W of Villamontes: on/flying to flowers of “Tinajero A”, male and female, 14.XII.2007 (RCSZ); 2 males, 9.I.2008 (MNKM). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of “Tinajero A”, female, 12.XII.2007 (RCSZ). 21°21'S/63°37'W, 600 m, 24 km W Villamontes, Upper Rio Isiri: on/flying to flowers of “Tinajero B”, male and female, 10.I.2008 (RCSZ).

***Ischionodonta serratula* Napp and Marques, 1999**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Sama blanca”, 1 ex., 1.XII.2003 (ACMT); on/flying to flowers of “Tutumillo espinoso”, male, 28.X.2006 (RCSZ).

***Lathusia ferruginea* (Bruch, 1908)**

Dept. Santa Cruz. 19°00'S/63°14'W, 680 m, 20 km S Abapo: on/flying to flowers of “Tinajero A”, male and 2 females, 17.XII.2007 (RCSZ).

Dept. Chuquisaca. 20°36'S/63°17'W, 750 m, 21 km N Machereti: on/flying to flowers of “Tinajero A”, 2 females, 10.XII.2007 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of “Tinajero A”, 2 males and female, 11.12.2007 (RCSZ). 21°16'S/63°27'W, 366 m, 2 km S Puente Usterez, west bank Rio Pilcomayo: on/flying to flowers of “Naranjillo”, female, 12.XII.2011 (RCSZ). 21°18'S/63°30'W, 500 m, 7 km W of Villamontes: on/flying to flowers of “Tinajero A”, 2 males, 12.XII.2007, male, 5.I.2008 (RCSZ). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of “Tinajero A”, 5 males and 3 females, 12.XII.2007 (RCSZ); male and female, 13.XII.2008 (MNKM).

***Listroptera carbonaria* Chevrolat, 1855**

Dept. Santa Cruz. 18°08'S/63°45'W, 1880 m, Provincia Florida, Floripondio (west): on/flying to flowers of “Sagüintillo”, male and female, 1.XI.2009 (RCSZ). 18°08'S/63°44'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of “Sotillo”, male and female, 26.XI.2009, male, 27.XI.2009, male, 29.XI.2009 (RCSZ); on/flying to flowers of “Sagüintillo”, male, 29.XI.2009 (RCSZ).

***Listroptera tenebricosa* (Olivier, 1719)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of “Bejuco hoja lanuda”, 2 males, 21+23.IV.2005 (MNKM); 2 males and 2 females, 28.IV–5.V.2005 (RCSZ); on/flying to flowers of “Barbasquillo”, female, 15.VIII.2005 (RCSZ); on/flying to flowers of “Laguno”, male, 28.IX.2005 (RCSZ); on/flying to flowers of “Turere”, 2 females, 7+9.X.2005 (RCSZ); on/flying to flowers of “Cusé espinosa”, male, 9.X.2007 (RCSZ); on/flying to flowers of “Gomphrena”, female, 21.VIII.2007 (RCSZ).

***Meringodes solangae* Wappes and Lingafelter, 2011**

Dept. Santa Cruz. 18°08'S/63°44'W, 1914 m, Provincia Florida, Floripondio (east): on/flying to flowers of “Sotillo”, 2 females, 26.XI.2009 (RCSZ); female, 27.XI.2009 (MZSP); on/flying to flowers of “Sagüintillo”, male, 29.XI.2009 (RCSZ).

***Rhopalophora santacruzensis* Clarke, 2015**

Dept. Santa Cruz. 18°09'S/63°49'W, 1300 m, Achira: on flowers of white blossoming *Acacia* tree, male and female 25.XI.2004 (RCSZ); same data, female (FSCA).

***Rhopalophora collaris* (Germar, 1824)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Bejuco hoja lanuda", male, 30.IV.2005 (RCSZ); on/flying to flowers of "Guabira", male and female, 3.X.2005 (DZUP); 3 males and 2 females, 3–4.X.2005 (RCSZ); on/flying to flowers of "Turere", male and female, 3.X.2005 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", female, 11.II.2007 (RCSZ). 21°18'S/63°30'W, 500 m, 7 km WSW of Villamontes: on/flying to flowers of "Tinajero A", 3 females, 19.I.2006 (RCSZ); male, 12.XII.2007 (MNKM). 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", 5 males and 3 females, 12.XII.2007 (RCSZ); 2 females, 13.XII.2007 (DZUP); female, 13.XII.2008 (MNKM). 21°42'S/63°36'W, 762 m, 48 km N Yacuiba, 3–5 km Sanandita Road: on/flying to flowers of "Tinajero A", female, 8.I.2010 (RCSZ).

Tribe Tillomorphini***Euderces dilutus* Martins, 1975**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Laguno", 2 females, 28.IX–2.X.2005 (RCSZ).

Tribe Trachyderini

Remarks. In this tribe, many diurnal species are also attracted to fermenting fruit, sap and nectar glands.

***Allocerus dilaticornis* Gory, 1832**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Tutumillo espinoso", female, 20.XI.2007 (RCSZ).

***Callancyla croceicollis* (White, 1855)**

Dept. Santa Cruz. 17°28'S/63°42'W, 400 m, El Cairo: on/flying to flowers of "Red Powder Puff", male and female, 19.IV.2004 (ACMT). 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Red Powder Puff", male and female, 29.IV.2003, 8 males and 3 females, 2+5+9+26.V.2003 (ACMT); 3 females, 24+26.III.2005, 5 males and 2 females, 5+8+31.V.2005, female, 10.VI.2005, male, 14.VII.2007 (RCSZ).

***Ceralocyna margaretae* Martins and Galileo, 1994**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Negrillo negro", male, 4.VI.2007 (RCSZ).

***Ceralocyna variegata* Monné and Napp, 1999**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Red Powder Puff", male, 4.VII.2005 (RCSZ); on/flying to flowers of "Barbasquillo", 2 females, 12+18.VIII.2005 (RCSZ); on/flying to flowers of "Turere", female, 7.X.2005 (RCSZ).

Remarks. In all these specimens the legs are entirely black; the vermilion areas dark (the sides of prothorax inconspicuously so); but in both sexes the form of the genae and most of the other characters correspond to the original description.

***Chevrolatella tripunctata* (Chevrolat, 1862)**

Dept. Tarija. 21°21'S/63°12'W, 400 m, 34 km E Villamontes, Lomas El Quince, semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", male and 3 females, 12–13.XII.2007 (RCSZ). 21°18'S/63°30'W, 500 m, 7 km W of Villamontes; on/flying to flowers of "Tinajero A", female, 15.XII.2007, male, 12.I.2008 (MNKM); male, 16.XII.2007, male and female, 5.I.2008 (RCSZ).

***Chydarteres dimidiatus dimidiatus* (Fabricius, 1787)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Red Powder Puff", 2 males and 2 females, 26.V.2004 (ACMT).

***Chydarteres dimidiatus taeniatus* (Germar, 1824)?**

Cerambyx (Trachyderes) taeniatus Germar, 1824: 512. Monné 2016: 1007 (cat.).

Dept. Santa Cruz. 18°59'S/63°14'W, 520 m, 10 km S Abapo: on/flying to flowers of "Tinajero A", female, 2.I.2008 (RCSZ).

Dept. Tarija. 21°01'S/63°18'W, 600 m, 30 km N of Villamontes, 4 km E of Camatindi, Semi-dry Chaco Forest: on/flying to flowers of "Tinajero A", female, 10.I.2010 (RCSZ).

Remarks. Problems of identification in this subspecies oblige these records to be provisional in nature.

***Eriphus dimidiatus* White, 1855**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", male, 25.XI.2005 (RCSZ).

***Eriphus haematoderus* Chevrolat, 1862**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", male, 23.XI.2002 (ACMT); 2 males, 28.XI.2004, 2 males and 2 females, 6+12+25.XI.2005, 4 males and female, 20–28.XI.2007 (RCSZ); male, 27.X.2006, male 11.XI.2006 (MNKM)

Remarks. The specimens, all taken from the same tree, have red heads and red pronota (the latter with or without black spot anteriorly); but elytra vary from being entirely black (as in *E. haematoderus*), to those with acuminate, red patch covering all of base to middle of each elytron (which approach *Eriphus clarkei* Tippmann, 1960).

***Eriphus longicollis* Zajciw, 1961**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", female, 15.XII.2002 (RCSZ).

***Exallancyla tubericollis* Aurivillius, 1920**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Red Powder Puff": female, 10.IV.2005, male and female, 10.VI.2005 (RCSZ); 2 males, 30.IV.2003, 3 males and female, 1+7.V.2003, male, 15.V.2004 (ACMT).

***Panchylissus cyaneapennis* Waterhouse, 1880**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", female, 4.XII.2004 (RCSZ).

***Monneillus rhodopus* Huedepohl, 1985**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Red Powder Puff", male and female, 29+30.IV.2003, 3 males and female, 3+31.VII.2003, female, 22.VIII.2003, male, 7.IX.2003 (ACMT); female, 10.V.2005, male, 19.VIII.2005, 5 males and female, 30.VIII.2005, male and female, 4.IX.2008 (RCSZ); 2 males, 27+28.VIII.2005 (MNKM).

***Neochrysoprasis zajciwi* Franz, 1969**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca chica", 6 males and female, 13–29.IX.2007 (RCSZ); 2 males, 14.IX.2007 (MNKM).

Dept. Tarija. 21°18'S/63°30'W, 500 m, 7 km W of Villamontes: on/flying to flowers of "Tinajero A", male, 16.XII.2007, male, 5.I.2008 (RCSZ).

***Phoenidnus lissonotoides* Pascoe, 1866**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Sama blanca", male and female, 23.XI.2002 (ACMT); male, 22.XI.2006 (RCSZ); on/flying to flowers of "Sama blanca chica", male, 8.XII.2005 (RCSZ); male, 18.X.2006 (MNKM). 18°43'S/63°27'W, 750 m, 20 km NNW Abapo, 17 km Road to Moroco, "Las Petas": on/flying to flowers of "Sapaimosi chico", male, 6.XII.2008 (MNKM); 2 males, 6.XII.2008 (RCSZ).

***Trachelissa maculicollis* (Audinet-Serville, 1834)**

Dept. Santa Cruz. 17°29'96"S/63°39'13"W, 430 m, 5 km SSE of Buena Vista, Hotel Flora and Fauna: on/flying to flowers of "Red Powder Puff", 4 males and 3 females, 30.VIII.2005, 2 males and female, 3.IX.2005 (RCSZ).

Appendix 2. Summary of host flowers visited by Bolivian Cerambycinae. Flowers are arranged alphabetically by family, then by Bolivian common name. Cerambycine species are arranged alphabetically by scientific name.

AMARANTHACEAE: *Gomphrena* (*Gomphrena vaga* Mart.)

Argyrodines aurivillii (Gounelle, 1905)
Chrysoprasis maryhowardae Clarke, 2015
Chrysoprasis tobiuna Napp and Martins, 1988
Cynoderus barbatus Gounelle, 1911
Dihammaphora paraperforata Clarke, 2015
Dihammaphora peruviana Martins, 1981
Dihammaphora pusilla Bates, 1870
Listroptera tenebricosa (Olivier, 1719)
Mallosoma zonatum (Sahlberg, 1823)
Ayriclytus bolivianus Martins, 2011

AMARANTHACEAE: *Ramoneo* (*Iresine diffusa* Willd.)

Chrysoprasis abyara Napp and Martins, 1998
Coremia plumipes (Pallas, 1772)
Dihammaphora pusilla Bates, 1870
Mallosoma zonatum (Sahlberg, 1823)
Mionochroma subaurosom (Zajciw, 1966)
Pirangoclytus laetus (Fabricius, 1801)

ANACARDIACEAE: Lloque colorado (*Mauria thaumatophylla* Loesne)*Eburella pinima* Martins, 1997*Oxycoleus flavipes* Martins and Galileo, 2006**ANACARDIACEAE : Mango (*Mangifera indica* Linn.)***Chrysoprasia abyara* Napp and Martins, 1998*Dihammaphora pusilla* Bates, 1870*Ayriclytus bolivianus* Martins, 2011**APOCYNACEAE: Bejuco lechoso chaqueño (*Forsteronia pubescens* A. DC)***Chrysoprasia aurigena* (Germar, 1824)**AQUIFOLIACEAE: Laguno (*Ilex* indet. sp.)***Argyrodines aurivillii* (Gounelle, 1905)*Dihammaphora pusilla* Bates, 1870*Euderces dilutus* Martins, 1975*Itaclytus tumulifer* (Aurivillius, 1908)*Listroptera tenebricosa* (Olivier, 1719)*Mallosoma zonatum* (Sahlberg, 1823)**ASTERACEAE: Chilca or Tola (*Baccharis boliviensis* (Wedd))***Dircoremia tupizai* Perger and Guerra, 2015**BORAGINACEAE: Lanza chaqueña (*Cordia saccellia* Gottschling and J. S. Mill.)***Argyrodines aurivillii* (Gounelle, 1905)*Chrysoprasia aurata* Aurivillius, 1910*Dihammaphora chaqueensis* Bosq, 1951*Erythrochiton jacundum* (Gounelle, 1913)*Ischionodonta iridipennis* (Chevrolat, 1859)**CAESALPINIACEAE: Tipilla (*Pterogyne nitens* Tul.)***Argyrodines aurivillii* (Gounelle, 1905)*Chrysoprasia aeneiventris* Bates, 1870*Chrysoprasia airi* Napp and Martins, 1997*Chrysoprasia aurigena* (Germar, 1824)*Chrysoprasia concolor* Redtenbacher, 1868*Cosmisoma cyaneum rubriventre* Monné and Magno, 1988*Cynoderus (Cynoderus) rufithorax* Gounelle, 1911*Dihammaphora bruchi* Aurivillius, 1922*Ischionodonta iridipennis* (Chevrolat, 1859)**CAPRIFOLIACEAE: Sagüintillo (*Viburnum seemenii* Graebn.)***Callideriphus grossipes signaticollis* Melzer, 1934*Dilocerus brunneus* Napp and Martins, 2006*Dilocerus marinonii* (Napp, 1980)*Eburella pinima* Martins, 1997*Ecoporanga achira* Napp and Martins, 2006*Eryphus picticollis* (Gounelle, 1911)*Ethemon imbasale* Tippmann, 1960*Listroptera carbonaria* Chevrolat, 1855*Megacyllene proxima* (Laporte and Gory, 1835)*Meringodes solangae* Wappes and Lingafelter, 2011*Oxycoleus flavipes* Martins and Galileo, 2006*Pronuba lenkoi* Martins and Monne, 1947*Rierguscha florida* Napp and Martins, 2006

CONNARACEAE: Bejuco colorado enano (*Rourea puberula* Baker)

Erythropterus kochi Clarke, 2007

Merionoedopsis zamalloae Clarke, 2015

CUNONIACEAE: Sotillo (*Wienmannia sorbifolia* H.B.)

Callichroma iris Taschenburg, 1870

Ecoporanga achira Napp and Martins, 2006

Ethemon imbasale Tippmann, 1960

Goatacara boliviana Napp and Martins, 2006

Listroptera carbonaria Chevrolat, 1855

Megacyllene angulata (Fabricius, 1775) (?)

Megacyllene proxima (Laporte and Gory, 1835)

Meringodes solangae Wappes and Lingafelter, 2011

Miriclytus miri Galileo and Martins, 2007

EUPHORBIACEAE: Khuro-Khu (*Croton pilulifurus* Rusby)

Ethemon imbasale Tippmann, 1960

Oxycoleus flavipes Martins and Galileo, 2006

EUPHORBIACEAE: Khuro-Khu chaqueño (*Croton* indet. sp.)

Erythrochiton jacundum (Gounelle, 1913)

EUPHORBIACEAE: Tinajero A (*Croton* sp. A)

Argyrodines aurivillii (Gounelle, 1905)

Basiptera castaneipennis Thomson, 1864

Brachylophora auricollis (Bruch, 1918)

Chevrolatella tripunctata (Chevrolat, 1862)

Chrysoprasia aeneiventris Bates, 1870

Chrysoprasia airi Napp and Martins, 1997

Chrysoprasia aurata Aurivillius, 1910

Chrysoprasia aurigena (Germar, 1824)

Chrysoprasia azurearegina Clarke, 2015

Chrysoprasia concolor Redtenbacher, 1868

Chrysoprasia obiuna Napp and Martins, 1997

Chrysoprasia richteri Gounelle, 1913

Chydarteres dimidiatus taeniatus (Germar, 1824)

Cosmisoma brullei (Mulsant, 1863)

Cosmisoma cyaneum rubriventre Monné and Magno, 1988

Cynoderus (Cynoderus) rufithorax Gounelle, 1911

Dihammaphora auratopilosa Bruch, 1912

Dihammaphora auricollis Martins, 1981

Dihammaphora bruchi Aurivillius, 1922

Dihammaphora chaquensis Bosq, 1951

Dihammaphora espinotibia Clarke, 2015

Dihammaphora graciacollis Chevrolat, 1859

Dirocoremia simplicipes (Gounelle, 1911)

Ectenessa quadriguttata (Burmeister, 1865)

Erythrochiton jacundum (Gounelle, 1913)

Ischionodonta semirubra (Burmeister, 1865)

Lathusia ferruginea (Bruch, 1908)

Mallosoma zonatum (Sahlberg, 1823)

Mionochroma electrinum (Gounelle, 1911)

Neochrysoprasia zajciwi Franz, 1969

Rhopalophora collaris (Germar, 1824)

Stenygra cosmocera White, 1855

EUPHORBIACEAE: Tinajero B (*Croton* sp. B)

- Aphylax lyciformis* Lacordaire, 1869
Chrysoprasis aeneiventris Bates, 1870
Chrysoprasis aurigena (Germar, 1824)
Chrysoprasis concolor Redtenbacher, 1868
Chrysoprasis hypocrita Erichson, 1847
Chrysoprasis richteri Gounelle, 1913
Cosmisoma brullei (Mulsant, 1863)
Cosmisoma cyaneum rubriventre Monné and Magno, 1988
Dihammaphora auricollis Martins, 1981
Dihammaphora bruchi Aurivillius, 1922
Dihammaphora chaquensis Bosq, 1951
Ischionodonta iridipennis (Chevrolat, 1859)
Ischionodonta semirubra (Burmeister, 1865)

EUPHORBIACEAE: Tinajero C (*Croton hieronymi* Grisebach)

- Cosmisoma brullei* (Mulsant, 1863)

FLACOURTIACEAE: Tutumillo espinosa (*Casearia aculeata* Jacq.)

- Allocerus dilaticornis* Gory, 1832
Cnemidochroma buckleyi (Bates, 1879)
Ischionodonta serratula Napp and Martins, 1999
Listroptera tenebricosa (Olivier, 1719)
Mallosoma zonatum (Sahlberg, 1823)

LAURACEAE: Negrillo negro (*Endlicheria paniculata* (Spreng.)

- Ceralocyna margareteae* Martins and Galileo, 1994

LORANTHACEAE: Llave (*Tripodanthus acutifolius* Ruiz and Pav.)

- Eburella pinima* Martins, 1997
Pronuba lenkoi Martins and Monne, 1947

MELIACEAE: Esquiziton (*Trichilia stellatotomentosus* Kunt.)

- Cosmisoma ammiralis* (Linnaeus, 1767)

MELIACEAE: Sapaimosi (*Trichilia elegans* Adr. Juss.)

- Callichroma sericeum* (Fabricius, 1792)
Chrysoprasis abyara Napp and Martins 1998
Cnemidochroma buckleyi (Bates, 1879)
Cosmisoma ammiralis (Linnaeus, 1767)
Mallosoma zonatum (Sahlberg, 1823)
Mionochroma pseudovittatum (Schwarzer, 1923)
Mionochroma subaurosomum (Zajciw, 1966)
Megacyllene acuta (Germar, 1821)
Megacyllene angulata (Fabricius, 1775)

MIMOSACEAE: Acacia (*Acacia* indet. spp.)

- Chrysoprasis aeneiventris* Bates, 1870
Chrysoprasis aurigena (Germar, 1824)
Chrysoprasis concolor Redtenbacher, 1868
Chrysoprasis hypocrita Erichson, 1847
Chrysoprasis richteri Gounelle, 1913
Dihammaphora bruchi Aurivillius, 1922
Dihammaphora chaquensis Bosq, 1951
Dihammaphora espinotibia Clarke, 2015
Dihammaphora fosterorum Clarke, 2015
Dihammaphora pilcomayoensis Clarke, 2015

Erythrochiton jacundum (Gounelle, 1913)
Mallosoma zonatum (Sahlberg, 1823)
Mionochroma electrinum (Gounelle, 1911)
Rhopalophora santaacruzensis Clarke, 2015

MIMOSACEAE: Capullo (*Calliandra haematocephala* Hass)

[Note: on most specimen labels “Red Powder Puff” is the name used for this plant]

Callancyla croceicollis (White, 1855)
Ceralocyna (probably *variegata* Monné and Napp, 1999)
Chydarteres dimidiatus dimidiatus (Fabricius, 1787)
Cosmoplatidius abare Napp and Martins, 2006
Deltosoma xerophila Di Iorio, 1995
Exallancyla tubericollis Aurivillius, 1920
Mallosoma zonatum (Sahlberg, 1823)
Monneellus rhodopus Huedepohl, 1985
Trachelissa maculicollis (Audinet-Serville, 1834)

MIMOSACEAE: Churqui (*Prosopis ferox* Grisebach)

Dirocoremia tupizai Perger and Guerra, 2015

MIMOSACEAE: Juno (*Pithecolobium scalare* Griseb.)

Argyrodines aurivillii (Gounelle, 1905)

MIMOSACEAE: Pacay rosario (*Inga cylindrica* C. Martins)

Chrysoprasia hypocrita Erichson, 1847

MYRTACEAE: Guabira (*Campomanesia aromatica* (Aublet))

Argyrodines aurivillii (Gounelle, 1905)
Rhopalophora collaris (Germar, 1824)

RHAMNACEAE: Turere (*Rhamnidium elaeocarpum* Reissek)

Ceralocyna variegata Monné and Napp, 1999
Chrysoprasia aureicollis White, 1853
Dihammaphora dilmanappae Clarke, 2015
Erythropterus kochi Clarke, 2007
Mallosoma zonatum (Sahlberg, 1823)
Listroptera tenebricosa (Olivier, 1719)
Rhopalophora collaris (Germar, 1824)

RHAMNACEAE: Bejuco hoja lanuda (*Gouania mollis* Reiss.)

Chrysoprasia abyara Napp and Martins, 1998
Chrysoprasia aurigena (Germar, 1824)
Chrysoprasia festiva Audinet-Serville, 1834
Chrysoprasia hypocrita Erichson, 1847
Cosmisoma angustipenne Zajciw, 1958
Dihammaphora densiserrata Clarke, 2015
Dihammaphora dilmanappae Clarke, 2015
Dihammaphora paraperforata Clarke, 2015
Dihammaphora pusilla Bates, 1870
Erythropterus boliviensis Clarke, 2007
Eupemplus illuminus Mermudes and Napp, 2001
Listroptera tenebricosa (Olivier, 1719)
Mallosoma zonatum (Sahlberg, 1823)
Mecometopus wallacei (White, 1855)
Megacyllene acuta (Germar, 1821)
Megacyllene angulata (Fabricius, 1775)
Megacyllene chalybeata (White, 1855)

Merionoedopsis brevipennis Melzer, 1934
Mionochroma subaurosom (Zajciw, 1966)
Pirangoclytus granulipennis Zajciw, 1963
Pirangoclytus laetus (Fabricius, 1801)
Pirangoclytus purus Bates, 1870
Pirangoclytus sulphurosus Di Iorio, 2006
Rhopalophora collaris (Germar, 1824)
Tobipuranga ruficoxis (Bates, 1870)

RUTACEAE: Naranjillo (*Zanthoxylum* indet. sp.)

Chrysoprasia airi Napp and Martins, 1997
Chrysoprasia aurata Aurivillius, 1910
Chrysoprasia aeneiventris Bates, 1870
Cosmisoma brullei (Mulsant, 1863)
Cosmisoma cyaneum rubriventre Monné and Magno, 1988
Dihammaphora auratopilosa Bruch, 1912
Dihammaphora auricollis Martins, 1981
Ischionodonta iridipennis (Chevrolat, 1859)
Ischionodonta semirubra (Burmeister, 1865)
Lathusia ferruginea (Bruch, 1908)
Megacyllene acuta (Germar, 1821)

SAPINDACEAE: Barbasquillo (*Serjania lethalis* St. Hilaire)

Ceralocyna variegata Monné and Napp, 1999
Chrysoprasia aureicollis White, 1853
Chrysoprasia festiva Audinet-Serville, 1834
Chrysoprasia hypocrita Erichson, 1847
Chrysoprasia tobiuna Napp and Martins, 1988
Erythropterus kochi Clarke, 2007
Listroptera tenebricosa (Olivier, 1719)
Mallosoma zonatum (Sahlberg, 1823)
Megacyllene angulata (Fabricius, 1775)
Merionoedopsis brevipennis Melzer, 1934
Oxylopebus brachypterus Clarke, 2008

SAPINDACEAE: Barbasquillo (B) (*Serjania* indet. sp.)

Closteropus herteli Tippmann, 1960

SAPINDACEAE: Piton (*Talisia esculenta* St. Hilaire)

Callichroma sericeum (Fabricius, 1792)
Cnemidochroma buckleyi (Bates, 1879)

SAPINDACEAE: Piton amarillo (*Talisia hexaphylla* Vahl.)

Argyrodes aurivillii (Gounelle, 1905)
Callichroma sericeum (Fabricius, 1792)
Chrysoprasia festiva Audinet-Serville, 1834
Cnemidochroma buckleyi (Bates, 1879)
Cosmisoma ammiralis (Linnaeus, 1767)
Mallosoma zonatum (Sahlberg, 1823)

SAPINDACEAE: Sama blanca (*Cupania cinerea* Poeppig & Endl.)

Callichroma sericeum (Fabricius, 1792)
Chrysoprasia abyara Napp and Martins, 1998
Chrysoprasia aureicollis White, 1853
Chrysoprasia concolor Redtenbacher, 1868
Chrysoprasia hypocrita Erichson, 1847

Cnemidochroma buckleyi (Bates, 1879)
Cosmisoma ammiralis (Linnaeus, 1767)
Dihammaphora densiserrata Clarke, 2015
Eriphus dimidiatus White, 1855
Eriphus haematoderus Chevrolat, 1862 (?)
Eriphus longicollis Zajciw, 1961
Erythropterus kochi Clarke, 2007
Mallosoma zonatum (Sahlberg, 1823)
Mecometopus wallacei (White, 1855)
Megacyllene acuta (Germar, 1821)
Mionoichroma pseudovittatum (Schwarzer, 1923)
Mionoichroma subaurosomum (Zajciw, 1966)
Orthostoma abdominale (Gyllenhal, 1817)
Panchylissus cyaneapennis Waterhouse, 1880
Phoenidnus lissonotoides Pascoe, 1866
Tobipuranga ruficoxis (Bates, 1870)

SAPINDACEAE: Sama blanca chica (*Matayba guianensis* Aublet)

Argyrodines aurivillii (Gounelle, 1905)
Chrysoprasia aureicollis White, 1853
Chrysoprasia tobiuna Napp and Martins, 1988
Cnemidochroma buckleyi (Bates, 1879)
Dihammaphora densiserrata Clarke, 2015
Dihammaphora dilmanappae Clarke, 2015
Dihammaphora peruviana Martins, 1981
Erythropterus kochi Clarke, 2007
Mallosoma zonatum (Sahlberg, 1823)
Phoenidnus lissonotoides Pascoe, 1866
Pirangoclytus purus Bates, 1870

SAPINDACEAE: Sapaimosi chico (*Diplokeleba herzogii* Radlk.)

Ayriclytus bolivianus Martins, 2011
Coremia plumipes (Pallas, 1772)
Cosmisoma argyreum Bates, 1870
Cynoderus barbatus Gounelle, 1911
Dihammaphora paraperforata Clarke, 2015
Dihammaphora peruviana Martins, 1981
Mallosoma zonatum (Sahlberg, 1823)
Mionoichroma subaurosomum (Zajciw, 1966)
Phoenidnus lissonotoides Pascoe, 1866

SAPINDACEAE: Urundel chaqueño (*Diplokeleba floribunda* Brown)

[Note: on many specimen labels this plant is referred to as “false Urundel”.]

Chrysoprasia aurigena (Germar, 1824)
Dihammaphora auratopilosa Bruch, 1912
Dihammaphora bruchi Aurivillius, 1922
Dihammaphora chaqueensis Bosq, 1951
Dihammaphora espinotibia Clarke, 2015
Erythrochiton jacundum (Gounelle, 1913)
Mallosoma zonatum (Sahlberg, 1823)
Mionoichroma electrinum (Gounelle, 1911)

VITACEAE: Bejuco campanilla (*Cissus verticillata* (Linnaeus))

Stenygra cosmocera White, 1855

Appendix 3. Index of anthophilous Cerambycinae records for Bolivia, arranged alphabetically by scientific name. Bold text represents species and departmental records that were not recorded by Wappes et al. (2006, 2011, 2013). Departments: CH=Chuquisaca, TA = Tarija, SC = Santa Cruz. Other abbreviations: SPR = species record. SHF = host flower record.

Species	Departmental records	SPR page	SHF page
<i>Allocerus dilaticornis</i> Gory, 1832	SC	23	28
<i>Aphylax lyciformis</i> Lacordaire, 1869	TA	16	28
<i>Argyrodines aurivillii</i> (Gounelle, 1905)	TA	16	25–27, 29–31
<i>Ayriclytus bolivianus</i> Martins, 2011	SC	8	25–26, 31
<i>Basiptera castaneipennis</i> Thomson, 1864	SC	6	27
<i>Brachylophora auricollis</i> (Bruch, 1918)	SC, TA	16	27
<i>Callancyla croceicollis</i> (White, 1855)	SC	23	29
<i>Callichroma iris</i> Taschenburg, 1870	SC	7	27
<i>Callichroma sericeum</i> (Fabricius, 1792)	SC	7	28, 30
<i>Callideriphus grossipes signaticollis</i> Melzer, 1934	SC	11	26
<i>Ceralocyna margaretae</i> Martins and Galileo, 1994	SC	23	28
<i>Ceralocyna variegata</i> Monné and Napp, 1999	SC	23	29–30
<i>Chevrolatella tripunctata</i> (Chevrolat, 1862)	TA	24	27
<i>Chrysoprasia abyara</i> Napp and Martins 1998	SC	11	25–26, 28–30
<i>Chrysoprasia aeneiventris</i> Bates, 1870	SC, TA	11	26–28, 30
<i>Chrysoprasia airi</i> Napp and Martins, 1997	SC, CH, TA	11	26–27, 30
<i>Chrysoprasia aurata</i> Aurivillius, 1910	SC, TA	12	26–27, 30
<i>Chrysoprasia aureicollis</i> White, 1853	SC	12	29–31
<i>Chrysoprasia aurigena aurigena</i> (Germar, 1824)	SC, TA	12	26–29, 31
<i>Chrysoprasia azurearegina</i> Clarke, 2015	SC, TA	12	27
<i>Chrysoprasia concolor</i> Redtenbacher, 1868	CH, SC, TA	12	26–28, 30
<i>Chrysoprasia festiva</i> Audinet-Serville, 1834	SC	13	29–30
<i>Chrysoprasia hypocrita</i> Erichson, 1847	SC, TA	13	28–30
<i>Chrysoprasia maryhowardi</i> Clarke, 2015	SC	13	25
<i>Chrysoprasia obiuna</i> Napp and Martins, 1997	SC	13	27
<i>Chrysoprasia richteri</i> Gounelle, 1913	TA	13	27–28
<i>Chrysoprasia tobiuna</i> Napp and Martins, 1988	SC	13	25, 30–31
<i>Chydarteres dimidiatus dimidiatus</i> (Fabricius, 1787)	SC	24	29
<i>Chydarteres dimidiatus taeniatus</i> (Germar, 1824) ??	SC	24	27
<i>Closteropus herteli</i> Tippmann, 1960	SC	17	30
<i>Cnemidochroma buckleyi</i> (Bates, 1879)	SC	7	28, 30–31

Species	Departmental records	SPR page	SHF page
<i>Coremia plumipes</i> (Pallas, 1772)	SC	17	25, 31
<i>Cosmisoma ammiralis</i> (Linnaeus, 1767)	SC	17	28, 30–31
<i>Cosmisoma angustipenne</i> Zajciw, 1958	SC	17	29
<i>Cosmisoma argyreum</i> Bates, 1870	SC	17	31
<i>Cosmisoma brullei</i> (Mulsant, 1863)	SC, TA	17	27–28, 30
<i>Cosmisoma cyaneum rubriventre</i> Monné and Magno, 1988	CH, SC, TA	17	26–28, 30
<i>Cosmoplatidius abare</i> Napp and Martins, 2006	SC	16	29
<i>Cynoderus (Cynoderus) rufithorax</i> Gounelle, 1911	TA	18	26–27
<i>Cynoderus (Ulododerus) barbatus</i> Gounelle, 1911	SC	18	25, 31
<i>Deltosoma xerophila</i> Di Iorio, 1995	SC	16	29
<i>Dihammaphora auratopilosa</i> Bruch, 1912	TA	18	27, 30–31
<i>Dihammaphora auricollis</i> Martins, 1981	SC, TA	18	27–28, 30
<i>Dihammaphora bruchi</i> Aurivillius, 1922	SC, TA	18	26–28, 31
<i>Dihammaphora chaquensis</i> Bosq, 1951	CH, SC, TA	19	26–28, 31
<i>Dihammaphora densiserrata</i> Clarke, 2015	SC	19	29, 31
<i>Dihammaphora dilmanappae</i> Clarke, 2015	SC	19	29, 31
<i>Dihammaphora espinotibia</i> Clarke, 2015	SC, TA	20	27–28, 31
<i>Dihammaphora fosterorum</i> Clarke, 2015	SC	20	28
<i>Dihammaphora gracicollis</i> Chevrolat, 1859	SC	20	27
<i>Dihammaphora paraperforata</i> Clarke, 2015	SC	20	25, 29, 31
<i>Dihammaphora peruviana</i> Martins, 1981	SC	20	25, 31
<i>Dihammaphora pilcomayoensis</i> Clarke, 2015	TA	20	28
<i>Dihammaphora pusilla</i> Bates, 1870	SC	21	25–26, 29
<i>Dilocerus brunneus</i> Napp and Martins, 2006	SC	9	26
<i>Dilocerus marinonii</i> Napp, 1980	SC	9	26
<i>Dirocoremia simplicipes</i> (Gounelle, 1911)	CH, SC, TA	21	27
<i>Dirocoremia tupizai</i> Perger and Guerra, 2015	PO	21	26, 29
<i>Eburella pinima</i> Martins, 1997	SC	10	26, 28
<i>Ecoporanga achira</i> Napp and Martins, 2006	SC	9	26–27
<i>Ectenessa quadriguttata</i> (Burmeister, 1865)	TA	10	27
<i>Eriphus dimidiatus</i> White, 1855	SC	24	31
<i>Eriphus haematoderus</i> Chevrolat, 1862 (?)	SC	24	31
<i>Eriphus longicollis</i> Zajciw, 1961	SC	24	31
<i>Eryphus picticollis</i> (Gounelle, 1911)	SC	14	26
<i>Erythrochiton jacundum</i> (Gounelle, 1913)	SC, TA	14	26–27, 29, 31
<i>Erythropterus boliviensis</i> Clarke, 2007	SC	14	29
<i>Erythropterus kochi</i> Clarke, 2007	SC	14	27, 29–31

Species	Departmental records	SPR page	SHF page
<i>Ethemon imbasale</i> Tippmann, 1960	SC	10	26–27
<i>Euderces dilutus</i> Martins, 1975	SC	23	26
<i>Eupemplus illuminus</i> Mermudes and Napp, 2001	SC	14	29
<i>Exallancyla tubericollis</i> Aurivillius, 1920	SC	24	29
<i>Goatacara boliviana</i> Napp and Martins, 2006	SC	10	27
<i>Ischionodonta iridipennis</i> (Chevrolat, 1859)	TA	21	26, 28, 30
<i>Ischionodonta semirubra</i> (Burmeister, 1865)	TA	21	27–28, 30
<i>Ischionodonta serratula</i> Napp and Marques, 1999	SC	22	28
<i>Itaclytus tumulifer</i> Aurivillius, 1908	SC	8	26
<i>Lathusia ferruginea</i> (Bruch, 1908)	CH, SC, TA	22	27, 30
<i>Listroptera carbonaria</i> Chevrolat, 1855	SC	22	26–27
<i>Listroptera tenebricosa</i> (Olivier, 1719)	SC	22	25–26, 28–30
<i>Mallosoma zonatum</i> (Sahlberg, 1823)	SC, TA	15	25–31
<i>Mecometopus wallacei</i> (White, 1855)	SC	8	29–31
<i>Megacyllene acuta</i> (Germar, 1821)	SC, TA	8	28–31
<i>Megacyllene angulata</i> (Fabricius, 1775)	SC	8	27–30
<i>Megacyllene chalybeata</i> (White, 1855)	SC	8	29
<i>Megacyllene proxima</i> (Laporte and Gory, 1835)	SC	9	26–27
<i>Meringodes solangae</i> Wappes and Lingafelter, 2011	SC	22	26–27
<i>Merionoedopsis brevipennis</i> Melzer, 1934	SC	15	30
<i>Merionoedopsis zamalloae</i> Clarke, 2015	SC	15	27
<i>Mionochroma electrinum</i> (Gounelle, 1911)	TA	7	27, 29, 31
<i>Mionochroma pseudovittatum</i> (Schwarzer, 1923)	SC	7	28, 31
<i>Mionochroma subaurosus</i> (Zajciw, 1966)	SC	7	25, 28, 30–31
<i>Miriclytus miri</i> Galileo and Martins, 2007	SC	9	27
<i>Monneellus rhodopus</i> Huedepohl, 1985	SC	25	29
<i>Neochrysoprasia zajciwi</i> Franz, 1969	SC	25	27
<i>Orthostoma abdominale</i> (Gyllenhal, 1817)	SC	10	31
<i>Oxycoleus flavipes</i> Martins and Galileo, 2006	SC	16	26–27
<i>Oxylopsebus brachypterus</i> Clarke, 2008	SC	16	30
<i>Panchylissus cyaneapennis</i> Waterhouse, 1880	SC	24	31
<i>Phoenidnus lissonotoides</i> Pascoe, 1866	SC	25	31
<i>Pirangoclytus granulipennis</i> Zajciw, 1963	SC	9	30
<i>Pirangoclytus laetus</i> (Fabricius, 1801)	SC	9	25, 30
<i>Pirangoclytus purus</i> Bates, 1870	SC	9	30–31
<i>Pirangoclytus sulphurosus</i> Di Iorio, 2006	SC	9	30
<i>Pronuba lenkoi</i> Martins and Monné, 1974	SC	10	26, 28
<i>Rhopalophora santacruzensis</i> Clarke, 2015	SC	22	29
<i>Rhopalophora collaris</i> (Germar, 1824)	SC, TA	23	27, 29–30

Species	Departmental records	SPR page	SHF page
<i>Rierguscha florida</i> Napp and Martins, 2006	SC	10	26
<i>Stenygra cosmocera</i> White, 1855	SC	15	27, 31
<i>Trachelissa maculicollis</i> (Audinet-Serville, 1834)	SC	25	29
<i>Tobipuranga ruficoxis</i> (Bates, 1870)	SC	15	30–31

