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Taxonomic notes on the less studied long-horned-beetle fauna (Coleoptera: Cerambycidae) endemic in the Philippines. Part 1.

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This article contains information on the distribution of 14 little-studied species of long-horned beetles in the Philippine archipelago. For the nine species, there are no published data in the literature since their description. *Bybeana schawalleri* Hüdepohl, 1996 is indicated for the first time in Negros, and *Cornusia obriumoides* Thomson, 1869 - for the fauna of Palawan. Microtomographic scans of *Bybeana schawalleri* have also been performed. The pictures show the location of the male genitalia in the body and other elements of the internal structure. Authors proposed new synonymy: *Acronia marifelipeae* Barševskis, 2016 is not a valid species and should be considered a junior synonym of *Acronia roseolata* Breuning, 1947 (=*Acronia marifelipeae* Barševskis, 2016 syn. nov.).

Key words: Coleoptera, Cerambycidae, Lamiinae, Lamiini, Polyphida, nev species, taxonomy, microtomography

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INTRODUCTION

The diversity of beetles in the Philippine archipelago is very high. At the same time, the beetle fauna of this megabiodiverse region is incompletely explored. As a megadiverse country, hundreds of new species are discovered and described every year of which the majority are endemic in the Philippine archipelago. Faunistic studies play an important role in determining the distribution of species and vital information towards making practical initiatives in protecting the species, especially the threatened ones. This is especially relevant for those long-horned species having a larval development dependent on endemic and native trees, since deforestation of tropical forests in the Philippine archipelago is a very significant ecological problem.

In recent years, many scientists from different countries around the world have published new taxonomic and distribution data about the long-horned beetle fauna of the Philippine archipelago, including Vives (2023a, 2023b, 2023c), Yokoi (2023), Barševskis (2022), Barševskis, Cabras, Medina (2022), Borodina, Borodin, Barševskis (2022), Medina, Vitali, Barševskis (2023) and others. In this article, we continue to publish data on new findings such as the species distribution of many hitherto endemic, less studied, and rarely observed long-horned beetles in the Philippine archipelago. We emphasize those species that we think might qualify to be endangered species and urgently need protection.

This article reports on the distribution of hitherto little-studied, rarely observed 14 long-horned beetle species in the Philippine archipelago. For 8 species, this is the first published information since the species was described. In this paper, *Bybeana schawalleri* Hüdepohl, 1996 is reported for the first time in Negros, *Cornusia obriumoides* Thomson, 1869 for the fauna of Palawan, and *Synixais anichtchenkoi* Barševskis, 2022 for the fauna of Luzon.

Authors of this article proposed the new synonymy: *Acronia marifelipeae* Barševskis, 2016 is not a valid species and should be considered a junior synonym of *Acronia roseolata* Breuning, 1947 (=*Acronia marifelipeae* Barševskis, 2016 syn. nov.).

The microtomographic scan of *Bybeana schawalleri* have been performed. The pictures show the location of the male genitalia in the body and other elements of the internal structure.

MATERIALS AND METHODS

The studied specimens is deposited in the beetles collection of Daugavpils University, Institute of Life Sciences and Technology, Coleopterological Research Centre (DUBC) - Ilgas, Latvia.

The laboratory research has been performed using Nikon AZ100, Nikon SMZ745T and Zeiss Stereo Lumar V12 digital stereomicroscopes, NIS-Elements 6D software. The habitus photograph was obtained with a digital camera Canon EOS 6D with Canon MP-E 65 mm macro lens, using Helicon Focus auto montageand subsequently was edited with Photoshop.

The microtomographic scans were carried out using Zeiss Xradia 510 versa system, and later were performed with polychromatic X-ray beam at the energy of 30kV and power 2 W. Sample-detector distances were set to 89 mm and source to sample distances 25mm for *Bybeana schawalleri*

Hüdepohl, 1996. Tomographic slices were generated from 1601 rotation steps through 360-degree rotation using 0,4X objective, exposure time during each projection was set to 20 seconds respectively. Images were imported into Dragonfly PRO (ver. 4.1) software platform for interactive segmentation and 3D visualization.

In the present paper we followed the taxonomic nomenclature provided by Tavakilian, Chavillotte (2023).

Species list

1. *Acronia luzonica* Schultze, 1934 (Cerambycinae: Pteropliini) (Fig. 1)

References: Schultze 1934: 314; Breuning, 1961: 236; Vives, 2015: 53; Barševskis, 2016a: 12; Barševskis, 2016b: 74; Barševskis, 2017: 178.
Materials: Philippines: Luzon isl., Sierra Madre, Isabela, San Guillermo, 07.2017 (1, local collector leg.).
General distribution: Philippines Archipelago.
Distribution in Philippines: Luzon.
Type deposited: Senckenberg Naturhistorische Sammlungen Dresden, Germany (Tavakilian, Chavillotte 2023).

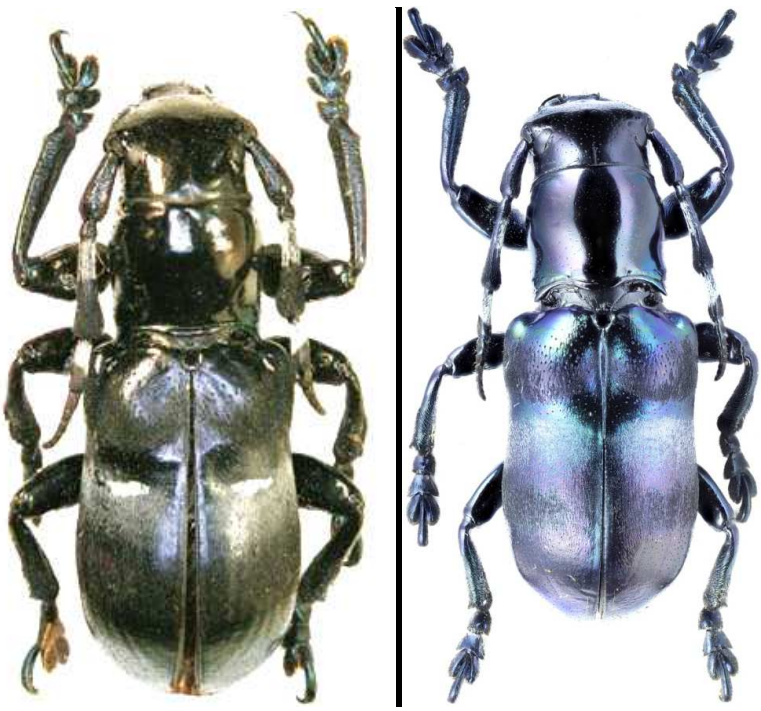

Fig. 1. *Acronia luzonica* Schultze, 1934 (two color forms)

2. *Acronia roseolata* Breuning, 1947 (Cerambycinae: Pteropliini) (= *Acronia marifelipeae* Barševskis, 2016 syn.nov.) (Fig. 2)

Note: After careful comparison of the types of both species, the author concludes that *Acronia marifelipeae* Barševskis, 2016 is not a valid species and should be considered a junior synonym of *Acronia roseolata*

Breuning, 1947 (=*Acronia marifelipeae* Barševskis, 2016 syn. nov.).

Fig. 2. Acronia marifelipeae Barševskis, 2016

3. *Bybeana schawalleri* Hüdepohl, 1996 (Cerambycinae: Cleomenini) (Fig. 3)

References: Hüdepohl, 1996: 2.
Materials: Philippines: Negros isl., Don Salwador Benedicto, 11.2019 (1, local collector leg.). First published data after description of species and first record in Negros.
General distribution: Philippines Archipelago.
Distribution in Philippines: Leyte, Negros.
Type deposited: Staatliches Museum für Naturkunde Stuttgart (Tavakilian, Chavillotte 2023).

Note: Fig. 3: The microtomographic scans of *Bybeana schawalleri* show the location of the male genitalia in the body.

4. *Camelocerambyx palavanicola* Vives, 2023 (Cerambycinae: Cleomenini) (Fig. 4)

References: Vives, 2023a: 2.
Materials: Philippines: Palawan isl., Roxas, 04.2023 (2, local collector leg.), 05.2023 (2, local collector leg.), 06.2023 (1, local collector leg.), 08.2023 (3, local collector leg.), 09.2023 (4, local collector leg.). Specimen from *locus typicus*. First published data after description of species.
General distribution: Philippines Archipelago.
Distribution in Philippines: Palawan.
Type deposited: Collection of Eduard Vives, Terrassa, Barcelona, Spain (Vives 2023).

5. *Comusia obriumoides* Thomson, 1869 (Cerambycinae: Obriini) (Fig. 5)

References: Thomson, 1864: 250; Lacordaire, 1868: 225; Gemminger & Harold, 1872: 2793; Aurivillius, 1912: 33; Gressitt & Random, 1970: 48; Martins, 1977: 114; Huedepohl, 1990: 57; Vives, 2009: 2; Vives, 2015: 8; Niisato & Chou, 2016: 248, 256.
Materials: Philippines: Palawan isl., Roxas, 06.2021 (1, local collector leg.), 08.2021 (2, local collector leg.), 09.2021 (1, local collector leg.), 11.2021 (1, local collector leg.).
General distribution: Philippines Archipelago.
Distribution in Philippines: Mindanao, Mindoro, Romblon, Palawan (first published records).
Type deposited: Museum National d'Histoire Naturelle, Paris, France (Tavakilian, Chavillotte 2023).

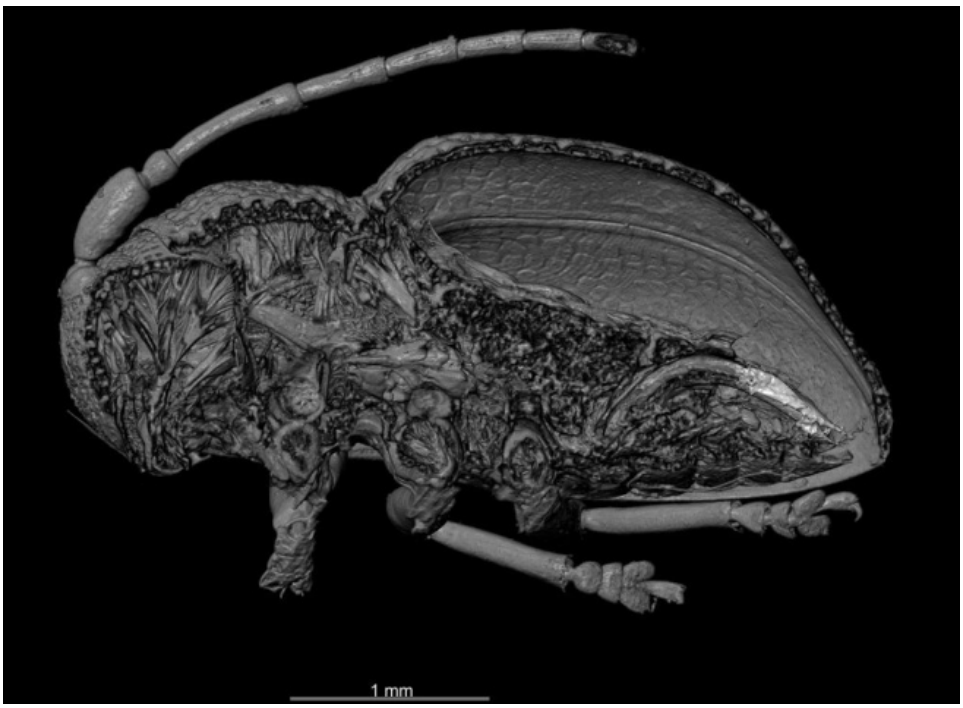

Fig. 3. Microtomographic scans of *Bybeana schawalleri* Huedepohl, 1996

Fig. 4. *Camelocerambyx palavanicola* Vives, 2023

Fig. 5. *Comusia obriumoides* (Thomson, 1869)

6. *Iphra filipinica* Vives, 2023 (Cerambycinae: Obriini)

References: Vives, 2023: 19.
Materials: Philippines: Palawan isl., Roxas, 05.2023 (1, local collector leg.), 08.2023 (3, local collector leg.). Specimen from *locus typicus*. First published data after description of species.
General distribution: Philippines Archipelago.
Distribution in Philippines: Palawan.
Type deposited: Collection of Eduard Vives, Terrassa, Barcelona, Spain (Vives 2023).

7. *Lamprobityle danae* Barševskis & Cabras, 2019 (Cerambycinae: Apomecynini) (Fig. 6)
References: Barševskis, Cabras 2019: 238.
Materials: Philippines: Mindanao isl., Lanao del Sur, Kapai, 06.2023 (1, local collector leg.), 07.2023 (2, local collector leg.), 08.2023 (2, local collector leg.). First published data about second locality after description of species.
General distribution: Philippines Archipelago.
Distribution in Philippines: Mindanao.
Type deposited: Daugavpils University Beetles Collection, Ilgas, Latvia.

8. *Luzonoparmena pallescens* Vives, 2023 (Cerambycinae: Parmenini)

References: Vives, 2023: 24.
Materials: Philippines: Luzon isl., Ifugao, Tinok, 08.2017 (1, local collector leg.); isl., Ifugao, Hungduan, 10.2019 (1, local collector leg.). Specimen from *locus typicus*. First published data after description of species.
General distribution: Philippines Archipelago.
Distribution in Philippines: Luzon.
Type deposited: Collection of Eduard Vives, Terrassa, Barcelona, Spain (Vives 2023).

Fig. 6. *Lamprobityle danae* Barševskis & Cabras, 2019

9. *Mimobybe tuberculipennis* Breuning, 1970 (Cerambycinae: Apomecynini) (Fig. 7)

References: Breuning, 1970: 368; Vives, 2023: 26.
Materials: Philippines: Mindoro isl., Socorro, 03.2021 (1, local collector leg.); Mindoro isl., Baco, 12.2021 (3, local collector leg.), 01.2022. (4, local collector leg.), 02.2022 (1, local cllector leg.); Luzon isl., Bicol, Camarines, Logonoy, 11.2018. (2, local collector leg.); Luzon isl., Bicol, Mt. Balusan, 08.2020. (2, local collector leg.). After the description, information on finding this species in Mindoro, Socorro has been published only once by Vives (2023). This article indicates a finding the same place in Mindoro and new findings in Mindoro and Luzon, Bicol.
General distribution: Philippines Archipelago.

Distribution in Philippines: Luzon, Mindoro.
Type deposited: Museum National d'Histoire Naturelle, Paris, France (Tavakilian, Chavillotte 2023).

Fig. 7. *Mimobybe tuberculipennis* Breuning, 1970

10. *Nedine spaethi* Breuning, 1980 (Cerambycinae: Desmiphorini)

References: Heller, 1924: 200; Aurivillius, 1927: 576; Breuning, 1956: 361; Breuning, 1963: 503; Breuning, 1976: 74, 75; Vives, 2017: 52.
Materials: Philippines: Mindanao isl., Davao Oriental, Mt. Hamiguitan, 25.05.2023 (1, A.Barševskis leg.); Mindanao, Agusan del Sur, San Francisco, 04.2019 (1, local collector leg.).
General distribution: Philippines Archipelago.
Distribution in Philippines: Mindanao.
Type deposited: Senckenberg Naturhistorische Sammlungen Dresden, Germany (Tavakilian, Chavillotte 2023).

11. *Paradesisa mindanaonis* Breuning, 1980 (Cerambycinae: Ptropliini)

References: Breuning, 1980: 168; Chemin, Vives, 2017: 13; Vives, 2023: 19.
Materials: Philippines: Mindanao isl., Davao Oriental, Mt. Hamiguitan, 26.05.2023 (1, A.Barševskis leg.); Mindanao, Davao city, garden of hotel "Tropica", 28.05.2023 (1, A.Barševskis leg.).
General distribution: Philippines Archipelago.
Distribution in Philippines: Mindanao.
Type deposited: Museum National d'Histoire Naturelle, Paris, France (Tavakilian, Chavillotte 2023).

12. *Paradesisa roxana* Vives, 2022 (Cerambycinae: Ptropliini)

References: Vives, 2022: 24.
Materials: Philippines: Palawan isl., Roxas, 08.2021 (1, local collector leg.), 10.2021 (3, local collector leg.), 12.2021 (2, local collector leg.),09.2023 (1, local collector leg.). Specimen from *locus typicus*. First published data after description of species.
General distribution: Philippines Archipelago.
Distribution in Philippines: Palawan.
Type deposited: Collection of Eduard Vives, Terrassa, Barcelona, Spain (Tavakilian, Chavillotte 2023).

13. *Planodes palawanus* Vives, 2023 (Cerambycinae: Mesosini)

References: Vives, 2023: 20.
Materials: Philippines: Palawan isl., Roxas, 07.2021 (1, local collector leg.), 08.2021 (1, local collector leg.), 10.2021 (1, local

collector leg.), 11.2021 (1, local collector leg.),11.2023 (1, local collector leg.). Specimen from *locus typicus*. First published data after description of species.
General distribution: Philippines Archipelago.
Distribution in Philippines: Palawan.
Type deposited: Collection of Eduard Vives, Terrassa, Barcelona, Spain (Vives 2023).

14. *Procleomenes bifasciatus* Vives, 2015 (Cerambycinae: Cleomenini)

References: Vives, 2015: 15; Niisato, Tichy, 2016: 215, 220; Barševskis, 2019: 234, 235.
Materials: Philippines: Luzon isl. Sierra Madre, Quirino, Dasimungal, 12.2014 (1, local collector leg.), Luzon isl.; Sierra Madre, Aurora, Dingalan, 03.2015 (2, local collector leg.); Luzon isl., Cagayan, Sta Ana, 05.2014 (1, local collector leg.) 10.2021 (1, local collector leg.).
General distribution: Philippines Archipelago.
Distribution in Philippines: Luzon.
Type deposited: Collection of Eduard Vives, Terrassa, Barcelona, Spain (Tavakilian, Chavillotte 2023).

15. *Procleomenes negrosus* Niisato & Tichy, 2016 (Cerambycinae: Cleomenini)

References: Niisato, Tichy, 2016: 215, 220.
Materials: Philippines: Negros isl., Dumaguete, 10.2014 (1, local collector leg.). Specimen from *locus typicus*. First published data after description of species.
General distribution: Philippines Archipelago.
Distribution in Philippines: Negros.
Type deposited: National Museum of Nature and Science, Tsukuba, Japan (Tavakilian, Chavillotte 2023).

16. *Pseudiphra minuta* Vives, 2023 (Cerambycinae: Obriini)

References: Vives, 2023a: 2.
Materials: Philippines: Palawan isl., Roxas, 06.2023 (1, local collector leg.), 07.2023 (1, local collector leg.), 08.2023 (3, local collector leg.). Specimen from *locus typicus*. First published data after description of species.
General distribution: Philippines Archipelago.
Distribution in Philippines: Palawan.
Type deposited: Collection of Eduard Vives, Terrassa, Barcelona, Spain (Vives 2023).

17. *Synixais anichtchenkoi* Barševskis, 2022 (Lamiinae, Pteropliini) (Fig. 8)

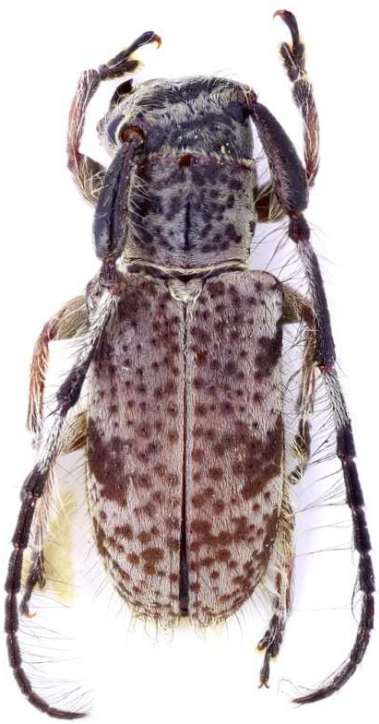

Fig. 8. *Synixais anichtchenkoi* Barševskis, 2022 (holotype)

References: Barševskis 2022: 400.
Materials: Philippines: Luzon isl., Mountain Province,Bontoc, Mainit, 06.2023 (1, local collector leg.). First published data about second locality after description of species. New species for the fauna of Luzon.
General distribution: Philippines Archipelago.
Distribution in Philippines: Luzon, Mindanao.
Type deposited: Daugavpils University Beetles Collection, Ilgas, Latvia.

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