

New data on fauna and distribution of the tribe Cerambycini (Coleoptera: Cerambycidae) in Philippines

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This article presents new information on the distribution of twenty-six species of longhorn beetles from the tribe Cerambycini (Coleoptera: Cerambycidae: Cerambycinae) in the Philippines. Fifteen of the species listed in this paper are known to be endemic in the archipelago. Eight new species occurrences were recorded in different islands with an addition of one species documented for the first time since its description.

Key words: *Cerambycini*, *Philippines*, *endemic*, *longhorn fauna*, *distribution*
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INTRODUCTION

Cerambycini Latreille, 1802 is a tribe of longhorn beetles from the subfamily Cerambycinae (Coleoptera: Cerambycidae). Species belonging to this group are widely distributed across various biogeographical regions. In the Philippines, the tribe is represented by twenty-six species belonging to sixteen genera (Tavakilian & Chevillotte, 2024) of which fifteen species are endemic to the Philippines. This paper provides new

faunistic data on nearly all species of Cerambycini found in the Philippine archipelago.

Eight species are recorded for the first time in different islands in the Philippines. *Dialeges egenus* Pascoe, 1869 is recorded for the first time in Negros Island; *Dialeges pauper* Pascoe, 1857 in Mindanao Isl. and Samar Isl.; *Hoplocerambyx spinicornis* (Newman, 1842) in Marinduque Isl., Mindanao Isl., Samar Isl., and Palawan Isl.; *Lachnopterus auripennis* (Newman, 1842)

in Catanduanes Isl., Leyte Isl., Luzon Isl., and Panay Isl.; *Lachnopterus socius* Gahan, 1891 in Catanduanes Isl., Leyte Isl., Luzon Isl., Marinduque Isl., Mindoro Isl., Panay Isl., and Samar Isl.; *Neocerambyx luzonicus luzonicus* Hüdepohl, 1987 in Catanduanes Isl., *Neoplocaederus ruficornis* (Newman, 1842) in Marinduque Isl., Mindanao Isl., and Palawan Isl.; and *Trirachys indutus* (Newman, 1842) in Marinduque Isl. and Samar Isl. *Dymasius lumawigi rufipennis* Hüdepohl, 1990 was also documented for the first time since description.

In the recent years, several articles have been released with the aim to provide a more complete and comprehensive documentation on the distribution of longhorn beetles in the whole of Oriental region (Barševskis, 2018; Barševskis, 2019; Barševskis, 2020; Barševskis et.al., 2021) and the Philippines (Barševskis et.al 2023). By documenting these species occurrences and extending known distribution ranges, informed conservation efforts can be made, especially for endemic species in regions under environmental threat like the Philippines.

MATERIALS AND METHODS

The studied material is deposited in the beetle collection of Daugavpils University, Institute of Life Sciences and Technology, Coleopterological Research Centre (DUBC; Ilgas, Daugavpils Distr., Latvia).

The laboratory research has been performed using Nikon AZ100, Nikon SMZ 745T and Zeiss Stereo LumarV12 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 montage and subsequently was edited with Photoshop. All measurements are given in millimeters.

In the present paper we followed the taxonomic nomenclature provided by Tavakilian, Chevillotte (2024).

RESULTS

Genus *Aeolesthes* Gahan, 1890

Aeolesthes gloriosa (Aurivillius, 1924) - Luzon isl., Apayo, Conner, 04.2016 (1, local collector leg.) 05.2016 (1, local collector leg.); Apayao, Kalinga, 04.2016 (1, local collector leg.); Aurora, 04.2014 (1, local collector leg.); Cagayan, Sta. Ana, 05.2014 (1, local collector leg.); Laguna, Los Banos, 12.2014 (1, local collector leg.); Nueva Vizcaya, Belance, 04.2014 (1, local collector leg.); Quirino, Nagtipunan, 04.2014 (1, local collector leg.), 05.2014 (1, local collector leg.); Palawan isl., Mt. Mantalingajan, 800 m, 07.2016 (2, R.G.Cabale leg.).

Genus *Allodissus* Schwarzer, 1926

Allodissus sulcatipennis Schwarzer, 1926 (Fig. 1.) - Mindanao isl., Davao del Sur, Kapatagan, 03.2023. (1, local collector leg.).

Genus *Derolus* Gahan, 1891

Derolus fulgens Holzschuh, 2005 - Mindanao isl., Agusan del Sur, 09.2013 (1, local collector leg.).

Genus *Dialeges* Pascoe, 1857

Dialeges egenus Pascoe, 1869 - Luzon isl., Cagayan, 10.2013 (1, local collector leg.); Negros isl., Don Salvador Benedicto, 05.2013 (1, local collector leg.). First published records of species from Negros island.

Dialeges pauper Pascoe, 1857 - Mindanao isl., Agusan del Sur, 04.2014 (1, local collector leg.); Bukidnon, 10.2013 (1, local collector leg.); Bukidnon, Panamokan, 03.2014 (1, local collector leg.); Misamis

Oriental, Besigan, 02.2024 (1, local collector leg.); Misamis Oriental, Cagayan de Oro, 03.2024 (1, local collector leg.); Surigao del Sur, San Miguel, 02,2024 (1, local collector leg.); Samar isl., Lope De Vega, 02.2020 (1, local collector). First published records of species from Mindanao and Samar islands.

Genus *Dymasius* Thomson, 1864

Dymasius lumawigi rufipennis Hüdepohl, 1990 - Luzon isl., Nueva Vizcaya, Belance, 05.2015 (1, local collector leg.), Kasibu, 05.2020 (1, local collector leg.), 06.2020 (1, local collector leg.). First published data about finding of species after its description.

Genus *Hoplocerambyx* Thomson, 1864

Hoplocerambyx spinicornis (Newman, 1842) - Luzon isl., Aurora, Dingalan, Sierra Madre, 01.2014 (1, local collector leg.); Lumutan, Gen. Nakar, Quezon, 05.2024 (1, local collector leg.) Mindanao isl., Davao Oriental, Mt. Hamiguitan, 410-500 m, 19.-24.05.2023 (3, A.Barševskis leg.); Surigao del Sur, San Miguel, 02,2024 (1, local collector leg.); Palawan isl., Roxas, 01.2024 (1, local collector leg.); 03.2024 (2, local collector leg.); Samar isl., Lope de Vega, 02.2024 (1, local collector leg.). First published records of species from Mindanao, Palawan and Samar islands.

Genus *Imbrius* Pascoe, 1866

Imbrius corrugatus Hüdepohl, 1990 - Luzon isl., Quirino, Nagtipunan, 02.2014 (1, local collector leg.); 04.2014 (1, local collector leg.).

Genus *Lachnopterus* Thomson, 1864

Lachnopterus argenteomaculatus Hayashi, 1982 - Mindanao isl., Davao del Sur, Marilog, 02.2018 (1, local collector leg.).

Lachnopterus auripennis (Newman, 1842) - Catanduanes isl., Pandan, 01.2020 (2, local collector leg.); Leyte isl., Sogod, 04.2015 (2, local collector leg.); Luzon isl., Belance, Nueva Vizcaya, 08.2014 (1, local collector leg.); Bicol, Lagonoy, 06.2024 (1, local collector leg.); Cagayan, Sta.Ana, 05.2018 (1, local collector leg.) 10.2018 (1, local collector leg.); Camarines Sur, Bicol, Lagonoy, 12,2018 (2, local collector leg.); Dupax del Sur, 04.2013(1, local collector leg.); Nueva Viscaya, Kayapa, 11.2014 (1, local collector leg.), 01.2015 (1, local collector leg.); Quirino, 11.2013 (2, local collector leg.); Mindanao isl., Bukidnon, Kabanglasan, 08.2014 (1, local collector leg.), 10.2016 (4, local collector leg.); Camarines Sur, Lagonoy, 04.2018 (4, local collector leg.), 06.2018 (1, local collector leg.); Lanao del Sur, Wao, 01.2021 (1, local collector leg.); Mt. Apo, 04.2009 (4, local collector leg.); Mt. Hamiguitan, 05.2023 (1, A.Barševskis leg.); Panay isl., Antique, 10.2018 (1, local collector leg.); Antique, Culasi, 05.2018 (2, local collector leg.), 10.2018 (1, local collector leg.), Samar isl., 03.2015 (1, local collector leg.); Samar isl., Hinabangan, 01.2015 (1, local collector leg.); Lope De Vega, 06.2013 (1, local collector leg.); 07.2013 (1, local collector leg.); 02.2020 (1, local collector leg.); Sibuyan isl., 03.2017 (1, local collector leg.), 04.2017 (4, local collector leg.). First published records of species from Catanduanes, Leyte, Luzon and Panay islands.

Lachnopterus socius Gahan, 1891 - Catanduanes isl., Pandan, 01.2020 (4, local collector leg.); Leyte isl., Sogod, 02.2015 (1, local collector leg.); Luzon isl., Aurora, Dingalan, Sierra Madre, 03.2018 (1, local collector leg.); Belance, Nueva Viskaya, 06.2018 (1, local collector leg.); Isabela, 08.2018 (1, local collector leg.); Camarines Sur, Lagonoy, Bicol, 06.2018 (2, local collector leg.); Kayapa, Nueva Vizcaya, 08.2014 (1, local collector leg.), 08.2018 (2,

local collector leg.); Malico, Nueva Vizcaya, 03.2018 (1, local collector leg.); Nueva Ecija, 06.2024 (2, local collector leg.); Sta. Ana, Cagayan, 05.2018 (4, local collector leg.); Sta. Fe, Nueva Viscaya, 03.2018 (2, local collector leg.); Quezon, Nueva Viscaya, 06.2018 (4, local collector leg.), 10.2028 (2, local collector leg.); Marinduque isl., Boac, Boi, 07.2018 (1, local collector leg.); Mindanao isl., Agusan del Sur, Esperanza, 03.2018 (1, local collector leg.); 06.2014 (2, local collector leg.), 10.2014 (2, local collector leg.), 11.2014 (2, local collector leg.), 05.2018 (3, local collector leg.), 07.2024 (4, local collector leg.); Bukidnon, 05.2013 (1, local collector leg.), 06.2013 (1, local collector leg.); Bukidnon, Kabanglasan, 09.2014 (2, local collector leg.), 11.2014 (4, local collector leg.); Bukidnon, Panamokan, 11.2014 (4, local collector leg.); Lanao del Sur, Wao, 03.2024 (1, local collector leg.); Mt. Hamiguitan, 22.-24.05.2023 (4, A.Barševskis leg.); Mt. Hamiguitan, 22.-24.05.2023 (2, A. Rukmane-Bārbale leg.); North Cotabato, Isulan, 06.2024 (2, local collector leg.); Surigao del Sur, 04.2013 (1, local collector leg.); Zamboanga del Norte, Siocon, 02.2024 (3, local collector leg.); Mindoro isl., Puerto Galera, Baco, 06.2016 (1, local collector leg.), 12.2017 (1, local collector leg.); Panay isl., Antique, 04.2018 (1, local collector leg.), 07.2018 (1, local collector leg.), 10.2018 (1, local collector leg.); Culasi, Antique, 05.2018 (2, local collector leg.), 06.2018 (3, local collector leg.), 11.2018 (1, local collector leg.); Mt. Media-as, Antique, 06.2018 (2, local collector leg.); 10.2018 (2, local collector leg.); Samar isl., Hinabangan, 01.2015 (2, local collector leg.); First published records of species from Catanduanes, Leyte, Luzon, Marinduque, Mindoro, Panay and Samar islands.

Genus *Neocerambyx* Thomson, 1861

Neocerambyx luzonicus luzonicus Hüdepohl, 1987 - Catanduanes isl., Pandan, 01.2020 (1, local collector leg.). First published records of subspecies from Catanduanes island.

Genus *Neoplocaederus* Sama, 1991



Fig. 1. *Allodissus sulcatipennis* Schwarzer, 1926

Neoplocaederus ruficornis (Newman, 1842) - Luzon isl., Aurora, Sierra Madre, 04.2014 (1, local collector leg.); Balacan, Santa Maria, 02.2014 (1, local collector leg.); Calinga, Bal Balan, 06.2017 (1, local collector leg.); Camarines Sur, Lagonay, Bicol, 07.20118 (1, local collector leg.); Kalinga, Pinukpok, 08.2014 (2, local collector leg.); Ifugao, 11.2014 (1, local collector leg.); Ifugao, Banaue, 09.2014. (1, local collector leg.); Nueva Viscaya, Kayapa, 07.2013 (1, local collector leg.); Marinduque isl., Boac, Boi, 07.2018 (2, local collector leg.); Mindanao isl., Davao Oriental, Mt. Hamiguitan, 410-500 m, 19.-24.05.2023 (2, A.Barševskis leg.); Palawan isl., Brocke's Point, 400-700 m, 10.06.2014 (2, local collector leg.), 07.2014 (1, local collector leg.); Mt. Mantalingajan, 800 m, 07.2016 (18, R.G.Cabale leg.); Roxas, 10.2018 (1, local collector leg.), 11.2018 (1, local collector leg.), 01.2019 (1, local collector leg.); Salacot Mt., 800 m, 10-27.02.2000 (1, Gorbachev & Siniaev leg. [ex coll. Viktor Siniaev]). First published records of species from Marinduque, Mindanao and Palawan islands.

Genus *Trirachys* Hope, 1842

Trirachys indutus (Newman, 1842) - Luzon, isl., Rizal, Tanay, 01.2016 (1, local collector leg.); Marinduque isl., Buenavista, 06.2016 (1, local collector leg.); Mindanao isl., Agusan del Sur, Borbon, 03.2024 (1, local collector leg.); Agusan del Sur, Esperanza, 03.2014 (1, LOCAL COLLECTOR LEG.); Bukidnon, Kabanglasan, 11.2014 (1, local collector leg.); Bukidnon, San Fernando, 02.2014 (1, local collector leg.); Misamis

Oriental, Besigan, 02.2024 (1, local collector leg.); Mt. Hamiguitan, 05.2023 (1, A.Barševskis leg.); Surigao del Sur, 07.2013 (1, local collector leg.); Negros isl., Don Salvador Benedicto, 05.2020 (1, local collector leg.); Palawan isl., Brocke's Point, 400-700 m, 10.06.2014 (2, local collector leg.); Mt. Mantalingajan, 800 m, 07.2016 (11, R.G.Cabale leg.); Roxas, 01.2024 (2, local collector leg.), 03.2024 (2, local collector leg.); Samar isl., Lope De Vega, 05.2013 (1, local collector leg.). First published records of species from Marinduque and Samar islands.

Species List and Distribution of Cerambycini in the Philippines

Abbreviations

E – endemic in the Philippine archipelago

Ph? – Philippines (without reference to a specific island)

Islands:

Cat – Catanduanes

Kam – Camiguin

Ley – Leyte

Luz – Luzon

Mar – Marinduque

Min – Mindanao

Mnd – Mindoro

Neg – Negros

Pal – Palawan

Pan – Panay

Rom – Romblon

Sam – Samar

Sib – Sibuyan

Abbreviations of islands in bold –first published record of the species for this island

Table 1

	Tribe Cerambycini	Distribution	
1.	<i>Aeolesthes gloriosa</i> (Aurivillius, 1924)	Luz Min	E
2.	<i>Allodissus sulcatipennis</i> Schwarzer, 1926	Luz Min	E
3.	<i>Derolus fulgens</i> Holzschuh, 2005	Luz	
4.	<i>Derolus volvulus</i> (Fabricius, 1801)	Ph?	
5.	<i>Derolydnus bisulcatus</i> (Aurivillius, 1914)	Min	
6.	<i>Dialeges egenus</i> Pascoe, 1869	Luz Ley Min Neg Rom	
7.	<i>Dialeges pauper</i> Pascoe, 1857	Min Neg Sam Ph?	
8.	<i>Dymasius fulgens</i> (Schwarzer, 1926)	Min	E
9.	<i>Dymasius lumawigi lumawigi</i> Hüdepohl, 1990	Sib	E
10.	<i>Dymasius lumawigi rufipennis</i> Hüdepohl, 1990	Luz Min	E
11.	<i>Dymasius ysmaeli</i> Hüdepohl, 1990	Ph?	E
12.	<i>Elydnus amictus</i> Pascoe, 1869	Min	
13.	<i>Hoplocerambyx spinicornis</i> (Newman, 1842)	Luz Mar Min Sam Pal Ph?	
14.	<i>Imbrius corrugatus</i> Hüdepohl, 1990	Luz Sib	E
15.	<i>Imbrius similis</i> Hüdepohl, 1990	Ph?	E
16.	<i>Lachnopterus argenteomaculatus</i> Hayashi, 1982	Min	E
17.	<i>Lachnopterus atrofrigidus</i> Hayashi, 1994	Kam	E
18.	<i>Lachnopterus auripennis</i> (Newman, 1842)	Cat Ley Luz Min Pan Rom Sam Sib	
19.	<i>Lachnopterus socius</i> Gahan, 1891	Cat Ley Luz Mar Min Mnd Pan Sam Ph?	
20.	<i>Massicus philippensis</i> Hüdepohl, 1990	Ph?	E
21.	<i>Neocerambyx luzonicus luzonicus</i> Hüdepohl, 1987	Luz Cat	E
22.	<i>Neoplocaederus ruficornis</i> (Newman, 1842)	Luz Mar Min Pal	
23.	<i>Rhytidodera palawana</i> Vives, 2021	Pal	E
24.	<i>Trirachys acanthophorus</i> Vitali, 1999	Neg Pan	E
25.	<i>Trirachys indutus</i> (Newman, 1842)	Luz Mar Min Pal Sam Sib	
26.	<i>Zatrephus lumawigi</i> Hüdepohl, 1990	Luz Min	E

CONCLUSIONS

The discovery of eight new occurrences of species across multiple islands in the region highlights the dynamic character of the Philippine longhorn fauna. These findings not only add to our understanding of the tribe Cerambycini, but also highlight the

importance of continued exploration of the understudied taxa and forests in the country. Such efforts are critical or informed conservation strategies and the protection of endemic species in this region.

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