

The collection of the genus *Epepeotes* Pascoe, 1866 housed in the Natural History Museum, London (Coleoptera, Cerambycidae)

Guanglin Xie^{1,2}, Maxwell V. L. Barclay², Wenkai Wang¹

¹ Institute of Entomology, College of Agriculture, Yangtze University, Jingzhou, Hubei, 434025, China

² Department of Life Sciences, Natural History Museum, London, SW7 5BD, UK

Corresponding authors: Maxwell V. L. Barclay (m.barclay@nhm.ac.uk); Wenkai Wang (wwwk@yangtzeu.edu.cn)

Abstract

Data on the collection of the genus *Epepeotes* Pascoe, 1866 deposited in the Natural History Museum, London are presented. A total of 23 species/subspecies, including type specimens of 18 names, of them 13 valid, are recorded. *Epepeotes uncinatus lineatopunctatus* Breuning, 1960 is restored to subspecies-level status. Lectotypes are designated for *Epepeotes uncinatus uncinatus* Gahan, 1888 and *Epepeotes andamanicus* Gahan, 1893. *Epepeotes luscus luscus* (Fabricius, 1787) is newly recorded in Cambodia and Singapore, and *Epepeotes uncinatus uncinatus* Gahan, 1888 is newly recorded in Bangladesh. Images of the type and other significant specimens are provided for 23 taxa, mainly for the first time.

Key words: Longhorned beetles, new distribution, new status, NHMUK, type material, zoological collections



Academic editor: Lech Karpiński

Received: 27 August 2023

Accepted: 23 October 2023

Published: 10 November 2023

ZooBank: <https://zoobank.org/78124FF8-2042-4F51-BAA4-BF692AF9551C>

Citation: Xie G, Barclay MVL, Wang W (2023) The collection of the genus *Epepeotes* Pascoe, 1866 housed in the Natural History Museum, London (Coleoptera, Cerambycidae). ZooKeys 1184: 19–39. <https://doi.org/10.3897/zookeys.1184.111728>

Copyright: © Guanglin Xie et al.

This is an open access article distributed under terms of the Creative Commons Attribution License ([Attribution 4.0 International – CC BY 4.0](https://creativecommons.org/licenses/by/4.0/)).

Introduction

The genus *Epepeotes* was established for the species *Lamia lusca* Fabricius, 1787 by Pascoe (1866a). It currently consists of 39 species/subspecies widespread in Asia (Tavakilian and Chevillotte 2023). The following genera are considered as synonyms: *Diochaes* Pascoe, 1866 [type-species: *Cerambyx fimbriatus* Olivier, 1795 (= *Cerambyx desertus desertus* Linnaeus, 1758)], *Mengelotes* Dillon & Dillon, 1941 [type-species: *Mengelotes ambiguus* Dillon & Dillon, 1941 (= *Macrochenus ambigenus* Chevrolat, 1841)] and *Falsomonohammus* Pic, 1943 [type-species: *Falsomonohammus diverseglabratus* Pic, 1943].

This study is based on the collection of the Natural History Museum, London [formerly British Museum, Natural History (BMNH), and hereafter NHM or NHMUK], which houses 620 categorized specimens (not counting those not sorted) of 23 valid species/subspecies, of which 13 valid taxa and five junior synonyms are represented by type material. A record of all species is given below.

Material and methods

The material examined in this study, already identified by earlier specialists, is deposited in the NHM. Verbatim quotation is used here for all labels of studied

type specimens and the label text is given in single quotation marks. Labels of non-type specimens are summarized briefly, to provide the reader with information on the country of origin, locality, but more detail, such as acquisition numbers, collector names and month and year of collecting and other information, is generally not reproduced. Individual labels are separated by a semicolon, and data on different rows by a single slash. Additional and explanatory comments by the authors are given in square brackets. Abbreviations are used in the text for label text: h for handwritten, p for printed. In the list, species records are listed in chronological order of publication, different subspecies of the same species are presented together in chronological order.

Photographs were taken using a Canon 7D Mark II SLR camera with a Canon EFS 100 mm lens and edited using Adobe Photoshop 2020 release. Extended depth of field at magnifications was achieved by combining multiple images from a range of focal planes using Combine ZM or Helicon Focus software.

Results

Data on the genus *Epepeotes* from the collection of the NHM are summarized on the basis of 620 observed specimens. The collection comprises 23 valid taxa, including types of 18 names, of them 13 valid and five invalid. Labeling details of each type specimen are reproduced verbatim without corrections or additions. Some additional information is provided as comments. The list of *Epepeotes* deposited in the NHM collection is given as follows.

Epepeotes desertus desertus (Linnaeus, 1758)

Fig. 1a–c

Cerambyx desertus Linnaeus, 1758: 391. Type locality: America [wrong locality record].

Cerambix (Lamia) fimbriatus Olivier, 1795: 71 [misspelling].

Lamia lineator Fabricius, 1801: 283. Type locality: India.

Diochaes fimbriatus: Pascoe 1866: 303.

Epepeotes desertus: Breuning 1943: 229.

Non-type material. 8 specimens. **India (5):** E. India (1 male, 1 female), Goram (1 male, 2 females). **Indonesia (2):** Ceram (1 female); Moluccas (1 male). **Country unknown (1):** Pascoe collection (1): Mano (1 female).

Epepeotes desertus rhobetor (Newman, 1842)

Fig. 1d–f

Monohammus? Rhobetor [sic] Newman, 1842: 276. Type locality: Manila [Philippines].

Diochaes desertus var. *rhobetor*: Aurivillius 1922: 81.

Epepeotes desertus s.-sp. *rhobetor*: Breuning 1943: 229.

Epepeotes desertus ssp. *rhobetor*: Breuning 1961: 326.

Epepeotes desertus rhobetor: Barševskis 2020: 180.

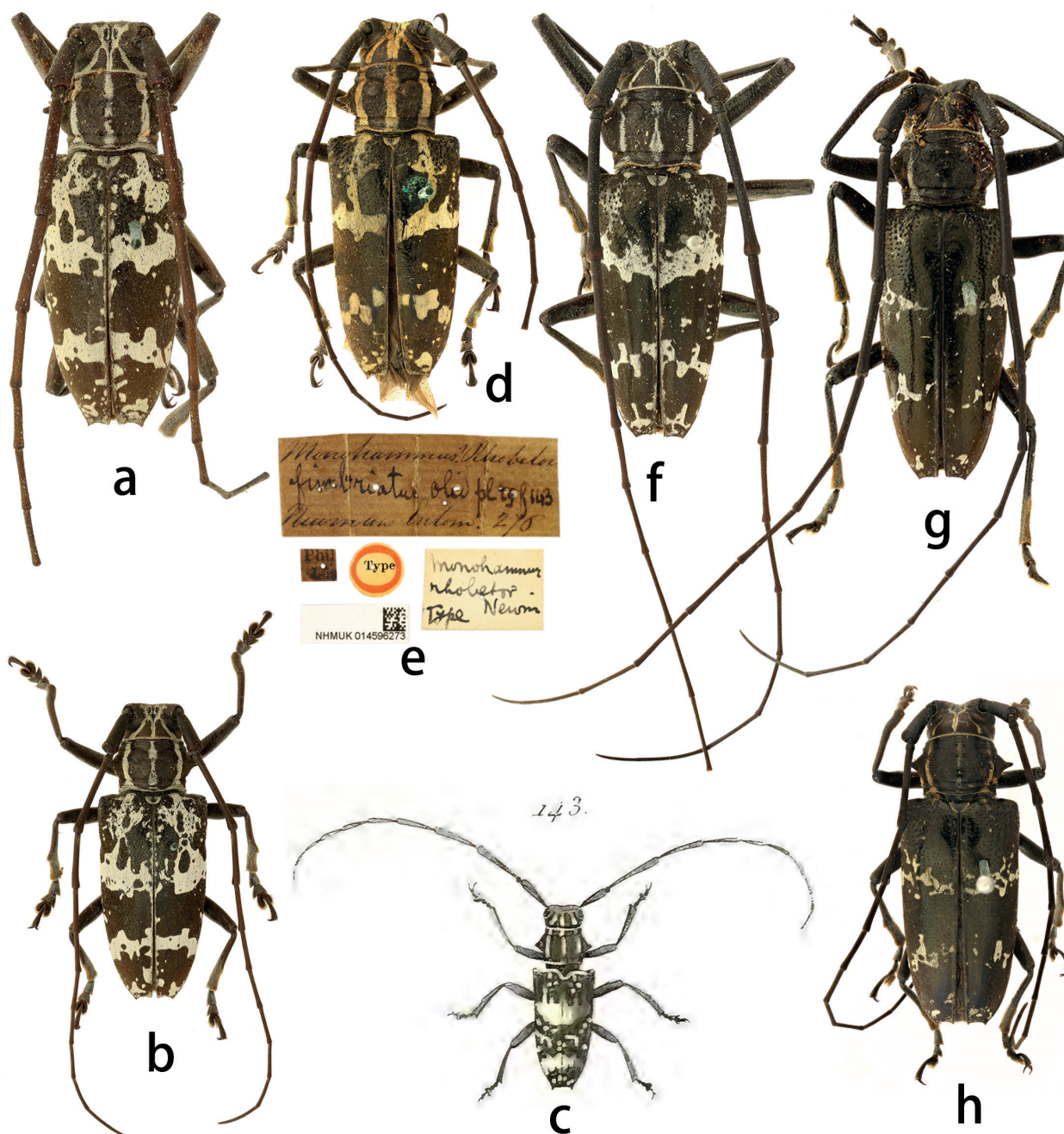


Figure 1. Habitus of *Epepeotes desertus* (Linnaeus, 1758) **a–c** *Epepeotes desertus desertus* (Linnaeus, 1758) **d–f** *Epepeotes desertus rhobetor* (Newman, 1842) **g, h** *Epepeotes desertus obscurus* (Aurivillius, 1926) **d, e** holotype **a, f, g** male **b, d, h** female.

Type material. **PHILIPPINES.** *Holotype* of *Monohammus? Rhobetor* Newman, 1842, female: 'Type [p, label circular, red framed]; Phil / Isla [p]; Monohammus? Rhobetor / fimbriatus Oliv. PI 19 f 143 / Newman Entom. 276 [h]; Monohammus / rhobetor / Type Newm [h]; NHMUK014596273 [p]'.
Non-type material. 40 specimens. **Indonesia (33):** Moluccas (1 male, 4 females); Amboina (2 males, 2 females); Ceram (5 males, 3 females); Celebes (1 female); Bouru [Borneo] (2 males, 1 female); Seram (4 females); Mausela (4 males, 4 females). **Philippines (4):** Philippine Islands (1 male, 3 females). **India (1):** Goram (1 female). **Country unknown (2):** Bowring collection (1); maki. (1 male); Ent. Club (1 male).

***Epepeotes desertus obscurus* (Aurivillius, 1926)**

Fig. 1g, h

Diachares desertus var. *obscurus* Aurivillius, 1926: 102. Type locality: Buru [Indonesia].

Epepeotes desertus s.-sp. *obscurus*: Breuning 1943: 229.

Epepeotes desertus ssp. *obscurus*: Breuning 1961: 326.

Epepeotes desertus obscurus: Barševskis 2020: 180.

Non-type material. 14 specimens. **Indonesia (14):** Ceram (2 females); Mausela (5 males, 7 females).

Comments. Breuning (1943) stated that the subspecies *E. desertus rhobetor* is distinguished from the subspecies *E. d. desertus* by the body usually smaller, the antennae more slender, the body markings yellow, and the elytral spots small and separate, with only a few individuals uniting into narrow transverse bands before and after the middle; the subspecies *E. d. obscurus* is separated from the nominate subspecies by the elytron with less concave apex and reduced body markings. However, the holotype of *E. d. rhobetor* (Fig. 1d) has the complete premedian transverse band and the postmedian band consisting of several large spots that are not fully fused, which is different from the description and illustration by Breuning (1943). Olivier (1808) illustrated the dorsal view of the species *Cerambyx fimbriatus* Olivier, 1795 (Fig. 1c, now a synonym of the nominate subspecies), which differs from *E. d. rhobetor* and *E. d. obscurus* mainly in the large and complete premedian and postmedian transverse bands on the elytra. However, the body markings and size are variable in this species, which make it difficult to accurately distinguish the three subspecies. The taxonomic status of the three subspecies is expected to be resolved by further study of more type and non-type material, perhaps with the possible removal of the subspecies-level status.

***Epepeotes luscus luscus* (Fabricius, 1787)**

Fig. 2

Lamia lusca Fabricius, 1787: 139. Type locality: Siam [Thailand].

Cerambyx (Lamia) luscus: Gmelin 1790: 1836.

Epepeotes luscus: Pascoe 1866a: 249.

Epepeotes fumosus Pascoe, 1866b: 301. Type locality: Flores [Indonesia].

Epepeotes luscus var. *enganensis* Gahan, 1907: 80. Type locality: Engano [Indonesia].

Epepeotes luscus ab. *flavomaculatus* Aurivillius, 1924: 27. Type locality: Sumatra [Indonesia].

Epepeotes soembanicus Schwarzer, 1931: 66. Type locality: Mao Marroe: Ost-Soemba [Indonesia].

Epepeotes luscus m. *densemeculatus* Breuning, 1943: 223. Type locality: Birmanie [Burma].

Epepeotes luscus m. *ochreosticticus* Breuning, 1943: 223. Type locality: Nicobar Island [India].

Epepeotes luscus m. *interruptus* Breuning, 1943: 223. Type locality: Nias Island [Indonesia].

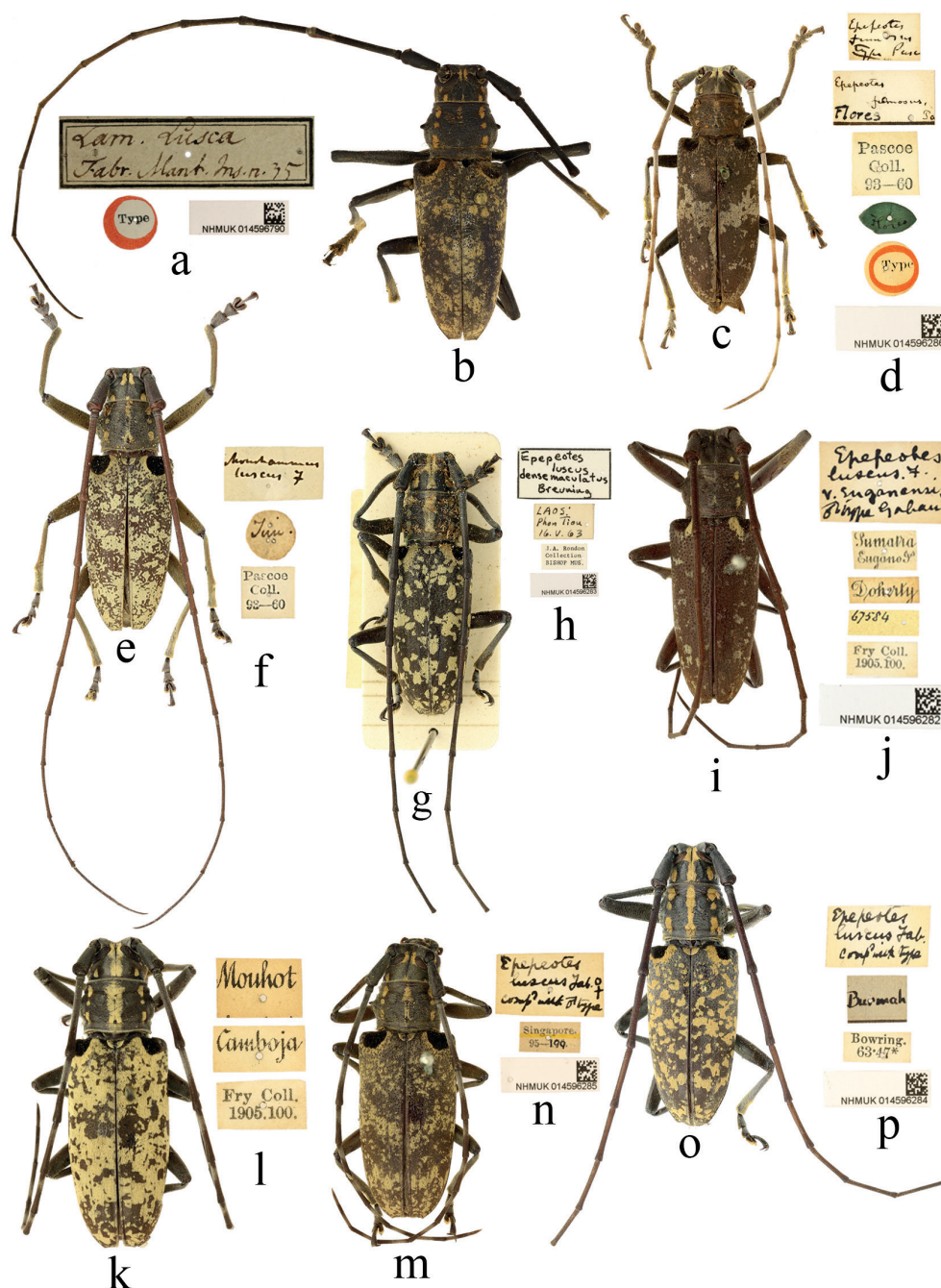


Figure 2. Habitus of *Epepeotes luscus luscus* (Fabricius, 1787) **a, b** holotype of *Lamia lusca* Fabricius, 1787 **c, d** holotype of *Epepeotes fumosus* Pascoe, 1866 **i, j** syntype of *Epepeotes luscus* var. *enganensis* Gahan, 1907 **b, e, g, i, o** male **c, k, m** female **f, h, l, n, p** labels.

Epepeotes luscus alorensis Breuning, 1960: 29. Type locality: Alor Island [Indonesia].
Epepeotes luscus var. *subuniformis* Gilmour & Breuning, 1963: 125. Type locality: Sumatra: P. Sebuk [Indonesia].

Type material. THAILAND. Holotype, male: 'Type [p, label circular, red framed]; Lam. Lusca / Fabr. Mant. Ins. n. 35 [h]; NHMUK014596790 [p]'. **INDONESIA. Holotype** of *Epepeotes fumosus* Pascoe, 1866, female: 'Type [p, label circular, red framed]; Flores [h, label oval, dark green]; Pascoe / Coll. / 93-60 [p]; Epepeotes / fumosus / Type Pasc [h]; Epepeotes / fumosus / Flores Pa [h]; NHMUK014596286

[p]'; **INDONESIA**. One **syntype** of *Epepeotes luscus* var. *enganensis* Gahan, 1907, male: 'Sumatra / Engano Is. [p]; Doherty [p]; 67584 [h]; Fry Coll. / 1905. 100. [p]; Epepeotes / luscus. F. / v. enganesis / ♂ Type Gahan [h], NHMUK014596282'; **INDONESIA**. **Syntypes** of *Epepeotes luscus* var. *enganensis* Gahan, 1907, two females: 'Sumatra / Engano Is. [p]; Doherty [p]; 67584 [h]; Fry Coll. / 1905. 100. [p]'.

Non-type material. 264 specimens. **Indonesia (77)**: Gunung Perak (1 female); Java (15 males, 7 females); Sumatra (27 males, 16 females); Borneo (4 males, 3 females); Tambang Sawah (1 male, 1 female); Lom. [Lombok] (1 male); Nias (1 female); **Malaysia (135)**: N. Borneo (4 males, 3 females); Dindings (1 female); Malacca (1 male); Penang (2 males, 5 females); Perak (6 males, 4 females); Pahang (2 females); Malay (2 males, 1 female); Malay Peninsula (15 males, 12 females); Malaya (5 males, 5 females); Kinabalu (1 male), Kumching (6 males, 6 females); Malay States (4 males, 1 female); Sarawak (26 males, 16 females); Bukit kutu (1 male, 1 female); Gunung Angsi (1 female); Tenasserim Hill (2 males); Siam: Malay states (1 female); Pulau Tioman (1 male). **Cambodia (2)**: Camboja (2 females). **India (7)**: India (1 female), India Orient (3 males, 1 female); Jalor (2 males). **Myanmar (5)**: Burmah (2 females), Rangoon (3 males). **Thailand (6)**: Peninsular Siam, Nakon Sri Tammarat (2 males, 1 female), Siam, Me Song Forest (1 female); Khao Ram, Siam (1 female); Ronpilum (1 female). **Laos (2)**: Phou Tiou (2 males). **Singapore (10)**: Singapore (3 male, 5 females), Singapore Island (2 females). **Country unknown (20)**: Bowring–Chevolat collection (2): locality label not present (1 male); locality label unreadable (1 male). Ex. F. M. S. Museum (4): Gap (1 male); Kia moo (1 female); locality label unreadable (1 female); locality label not present (1 male). Pascoe collection (1): locality label unreadable (1 male). G. Bryant Collecton (3): Maling (3 males). E. I. C. (3): locality label not present (2 males, 1 female). Ind. Mus. (1): locality label not present (1 female). Imp. Bur. Ent. (1): Th Gap (1 male). Timol (1 male). Thassauaddy (1 male). Kne (1 female). locality label unreadable (1 male). locality label not present (1 male).

Comments. Two specimens from Camboja [Cambodia] (Fig. 2k, l) and 10 specimens from Singapore (Fig. 2m, n) were found in the collection, which represent the new country record respectively.

***Epepeotes lateralis* (Guérin-Ménéville, 1831)**

Fig. 3a–e

Monochamus lateralis Guérin-Ménéville, 1831: 113. Type locality: unknown.

Leproderya spinosa Thomson, 1857: 179. Type locality: Java [Indonesia].

Epepeotes meridianus Pascoe, 1866: 302. Type locality: Java, Sumatra, Tondano [Indonesia]; Sarawak [Malaysia], Singapore.

Epepeotes lateralis: Aurivillius 1922: 79.

Epepeotes lateralis var. *niasica* Aurivillius, 1923: 452. Type locality: Nias [Indonesia].

Epepeotes spinosus m. *bimaculatus* Breuning, 1943: 225. Type locality: Java [Indonesia].

Type material. **INDONESIA**. **Syntype** of *Epepeotes meridianus* Pascoe, 1866, male: 'Type [p, label circular, red framed]; Java [h, label oval, dark green]; Epepeotes / meridianus / type Pasc. [h]; Epepeotes / meridianus / Java P [h]; NHMUK014596276 [p]'.



Non-type material. 72 specimens. **Indonesia (31):** Nias (2 males, 2 females); Java (7 males, 10 females); Sumatra (3 males, 3 females); Borneo (1 male, 3 females). **Malaysia (25):** Sarawak (12 males, 8 females); Penang (1 male); Perak (2 females); Siamesse Malay states (1 male); Malay states (1 female). **Singapore (3):** Singapore (2 males, 1 female). **Country unknown (13):** G. Bryant collection (6): Maling (4 males, 2 females), Bowring–Chevrolat collection (4): locality label not present (2 males, 1 female); locality unreadable (1 female). E. I. C. (1): locality label not present (1 male). locality label not present (2 females).

Comments. There is a specimen from Bowring–Chevrolate collection labeled with a handwritten “Type” label [Fig. 3c, d]: ‘Euoplia / Th / spinosa / Th type’. ‘Th’ should be the abbreviation of ‘Thomson’. However, the genus *Euoplia* was erected by Hope (1839), and Thomson (1857) published this species with the name of ‘*Leprodera spinosa*’, and the type specimens are deposited in the Muséum national d’Histoire naturelle, Paris. Obviously, this is a labelling error by a curator and it is not the type specimen.

***Epepeotes ambigenus ambigenus* (Chevrolat, 1841)**

Fig. 3f–h

Monohammus ambigenus Chevrolat, 1841: 228. Type locality: Manila [Philippines].

Diochaes ambigenus: Pascoe 1866: 303.

Mengelotes ambiguus: Dillon and Dillon 1941: 43. Type locality: Mexico.

Epepeotes ambigenus: Breuning 1943: 228.

Epepeotes ambigenus ambigenus: Hua 2002: 207.

Type material. PHILIPPINES. Holotype, female: 'Type [p, label circular, red framed]; Manil. [h]; Monohammus / ambigenus Ch / Rev. Zoo, 1841 Manille [h] / Bowr. Chevr. /, 63: 47* [p] / NHMUK014596278 [p]'.

Non-type material. 22 specimens. **Philippines (18)**: Philippine Islands (8 males 4 females), Philippines (1 male, 1 female), PHIL. (1 male, 1 female), Luzon (1 male); Albay (1 female); **Indonesia (1)**: Java (1 male); **Country unknown (3)**: Corla (1 male); locality label not present (1 male, 1 female).

***Epepeotes plorator plorator* (Newman, 1842)**

Fig. 4a, b, e

Monohammus plorator Newman, 1842: 276. Type locality: Manille [Philippines].

Rhamses vitticollis Thomson, 1878: xviii. Type locality: Borneo [Indonesia].

Pelargoderus vitticollis: Ritsema 1885: 44.

Diochaes mindanaonis Heller, 1915: 240. Type locality: Mindanao, Davao [Philippines].

Epepeotes plorator: Heller 1916: 306.

Epepeotes mult-notatus Pic, 1925: 19. Type locality: Japan.

Epepeotes plorator m. *mindanaonis*: Breuning 1943: 225.

Epepeotes spinosoides Breuning, 1980: 170. Type locality: Mindanao [Philippines].

Type material. PHILIPPINES. Holotype, male: 'Type [p, label circular, red framed]; Phil / Isla [p]; Monohammus plorator / Newman Entomol 276 [h]; Monohammus / plorator / Type Newm. [h]; NHMUK014596277'.

Non-type material. 3 specimens. **Philippines (3)**: Philippine Islands (1 male, 2 females).

***Epepeotes plorator celebensis* Aurivillius, 1922**

Fig. 4d, g

Epepeotes plorator var. *celebensis* Aurivillius, 1922: 80. Type locality: Celebes [Indonesia].

Epepeotes plorator s.-sp. *celebensis*: Breuning 1943: 225.

Epepeotes plorator ssp. *celebensis*: Breuning 1961: 326.

Epepeotes plorator celebensis: Fahri and Satara 2015: 152.

Non-type material. 14 specimens. **Indonesia (10)**: Celebes (5 males, 2 females), Borneo (1 male), New Guinea (1 female), Macassar (1 male); **Country**

unknown (4): Bowring collection (1), locality label not present or unclear (1 male). Pascoe collection (3): Tond. (2 males, 1 female).

***Epepeotes plorator sanghiricus* Breuning, 1938**

Fig. 4c, f

Epepeotes sanghiricus Breuning, 1938: 183. Type locality: Sanghir [Indonesia].

Epepeotes plorator ssp. *sanghiricus* Breuning, 1970: 376. Type locality: Sanghir [Indonesia].

Non-type material. 18 specimens. **Indonesia (12):** Celebes (7 males, 2 female), Borneo (1 male), Macassar (1 female), Koepang (1 female). **Country unknown (6):** Pascoe collection (6): Macanor (2 males), Mak. (1 female, 3 females).

Comments. Subspecies *E. p. plorator* (Newman, 1842) is different from subspecies *E. p. celebensis* Aurivillius, 1922 and *E. p. sanghiricus* Breuning, 1938

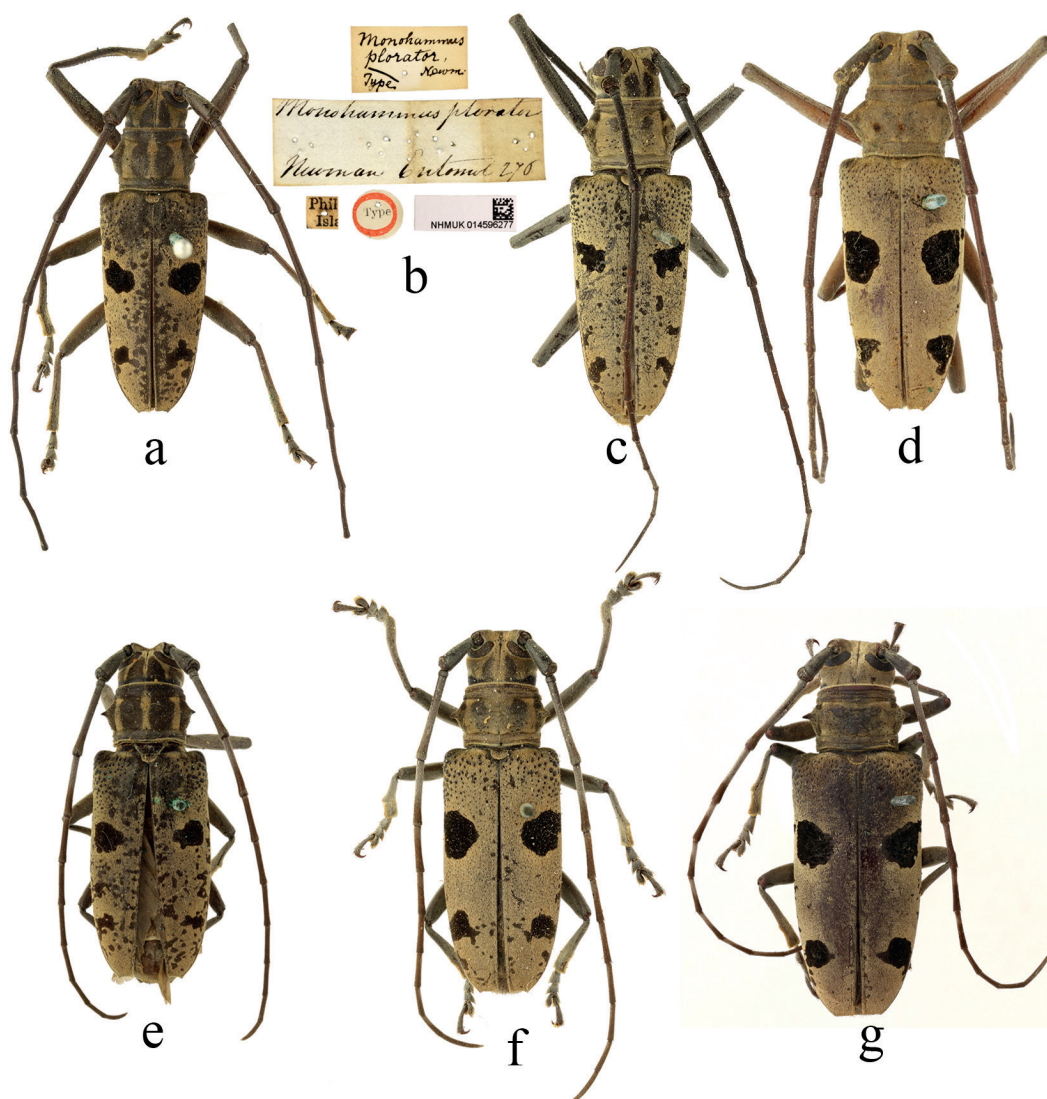


Figure 4. Habitus of *Epepeotes plorator* (Newman, 1842) **a, b, e** *Epepeotes plorator plorator* (Newman, 1842) **c, f** *Epepeotes plorator sanghiricus* Breuning, 1938 **d, g** *Epepeotes plorator celebensis* Aurivillius, 1922 **a, b** holotype **a, c, d** male **e, f, g** female.

by the pronotum and vertex mostly black, with three distinct yellow longitudinal stripes, *E. p. celebensis* Aurivillius, 1922 is distinguished from *E. p. sanghiricus* Breuning, 1938 by the pronotum and vertex completely covered with pubescence, the elytra seldom with small spots among the four main black spots, while in *E. p. sanghiricus* Breuning, the pronotum and vertex is decorated with two inconspicuous black longitudinal strips, sometimes reduced to black spots, the elytra usually is dotted with some small and irregular black spots in addition to the main markings.

This subspecies was described twice by Breuning (1938, 1970), the first time as species *Epepeotes sanghiricus* (type in Naturhistorisches Museum Basel, Switzerland) and the second time as subspecies *Epepeotes plorator* ssp. *sanghiricus* (type in Muséum national d'Histoire naturelle, Paris, France).

***Epepeotes commixtus* (Pascoe, 1859)**

Fig. 5a, b

Monohammus commixtus Pascoe, 1859: 42. Type locality: Ceylon [Sri Lanka].
Epepeotes commixtus: Breuning 1943: 227.

Type material. **SRI LANKA.** *Holotype*, male: 'Type [p, label circular, red framed]; Ceylon [h, label circular]; Monohammus / commixtus / Pascoe. [h]; NHMUK014596281 [p]'.

Non-type material. 8 specimens. **Sri Lanka (6):** Ceylon (1 male, without head, 5 females). **Malaysia (1):** Sarawak (1 female). **Country unknown (1):** Bowring–Chevrolat collection (1): locality label not present (1 female).

***Epepeotes ceramensis* (Thomson, 1861)**

Fig. 5c–f

Rhamses ceramensis Thomson, 1861: 361. Type locality: Ceram [Indonesia].
Pelargoderus Ceramensis[sic]: Pascoe 1866: 279.
Epepeotes ceramensis: Breuning 1943: 148, 226.

Non-type material. 14 specimens. **Indonesia (14):** Ceram (7 males, 7 females).

Comments. The light-colored spots on the elytra are variable, from very distinct to nearly invisible (Fig. 5d, e).

***Epepeotes diversus* Pascoe, 1866**

Fig. 6a–c

Epepeotes diversus Pascoe, 1866: 302. Type locality: Kei [Indonesia].

Type material. **INDONESIA.** *Holotype*, male: 'Type [p, label circular, red framed]; Ké / 3. [h, label circular]; Pascoe / Coll. / 93–60 [p]; diversus [h]; Epepeotes / diversus / Ké Is. Pas [h]; NHMUK014596279 [p]'.

Non-type material. 1 specimen. **Indonesia (1):** Key [Kei] (1 female).

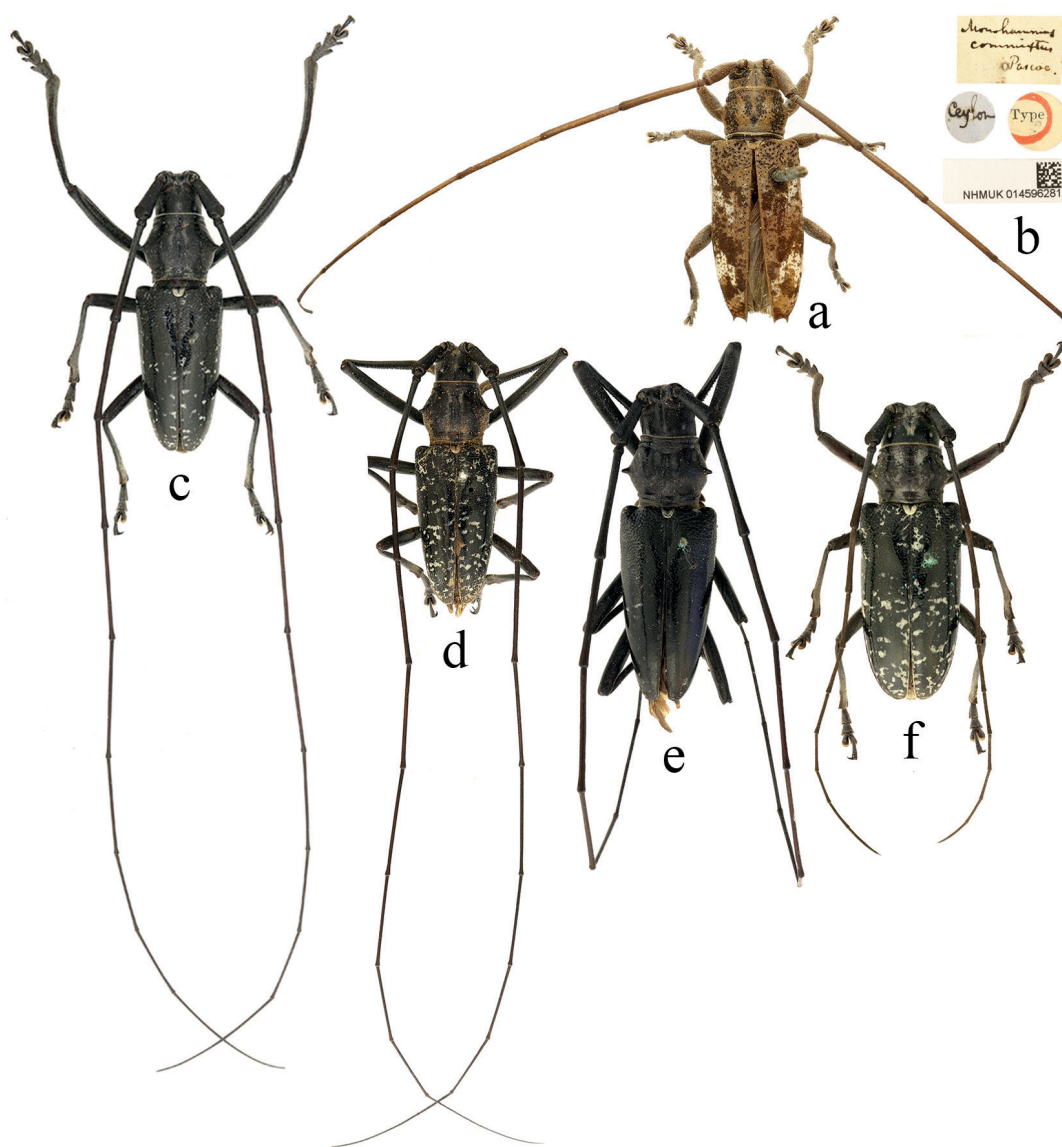


Figure 5. Habitus of *Epepeotes* spp. **a, b** *Epepeotes commixtus* (Pascoe, 1859) **c–f** *Epepeotes ceramensis* (Thomson, 1861) **a, b** holotype **a, c–e** male **f** female.

***Epepeotes lugubris* (Pascoe, 1866)**

Fig. 6d–g

Diochaes lugubris Pascoe, 1866: 304. Type locality: Tondano [Indonesia].

Diochaes impluviatus Pascoe, 1866: 305. Type locality: Tondano [Indonesia].

Epepeotes lugubris: Breuning 1943: 230.

Type material. **INDONESIA. Holotype**, female: 'Type [p, label circular, red framed]; Tondano [h, label oval, dark green]; Pascoe / Coll. / 93–60 [p]; Diochaes / lugubris / Type Pasc. [h] / Diochaes / lugubris / Tondano Pasc [h]; NHMUK014596274 [p]'; **INDONESIA. Holotype** of *Diochaes impluviatus* Pascoe, 1866, male: 'Type [p, label circular, red framed]; Tondano [h, label oval, dark green]; Pascoe / Coll. / 93–60 [p]; Diochaes / impluviatus / Type Pasc. [h] / Dioc- / haes / impluviatus / Tondano Pasc [h]; NHMUK014596275'.

Non-type material. 1 specimen. **Indonesia (1):** Celebes (1 female).

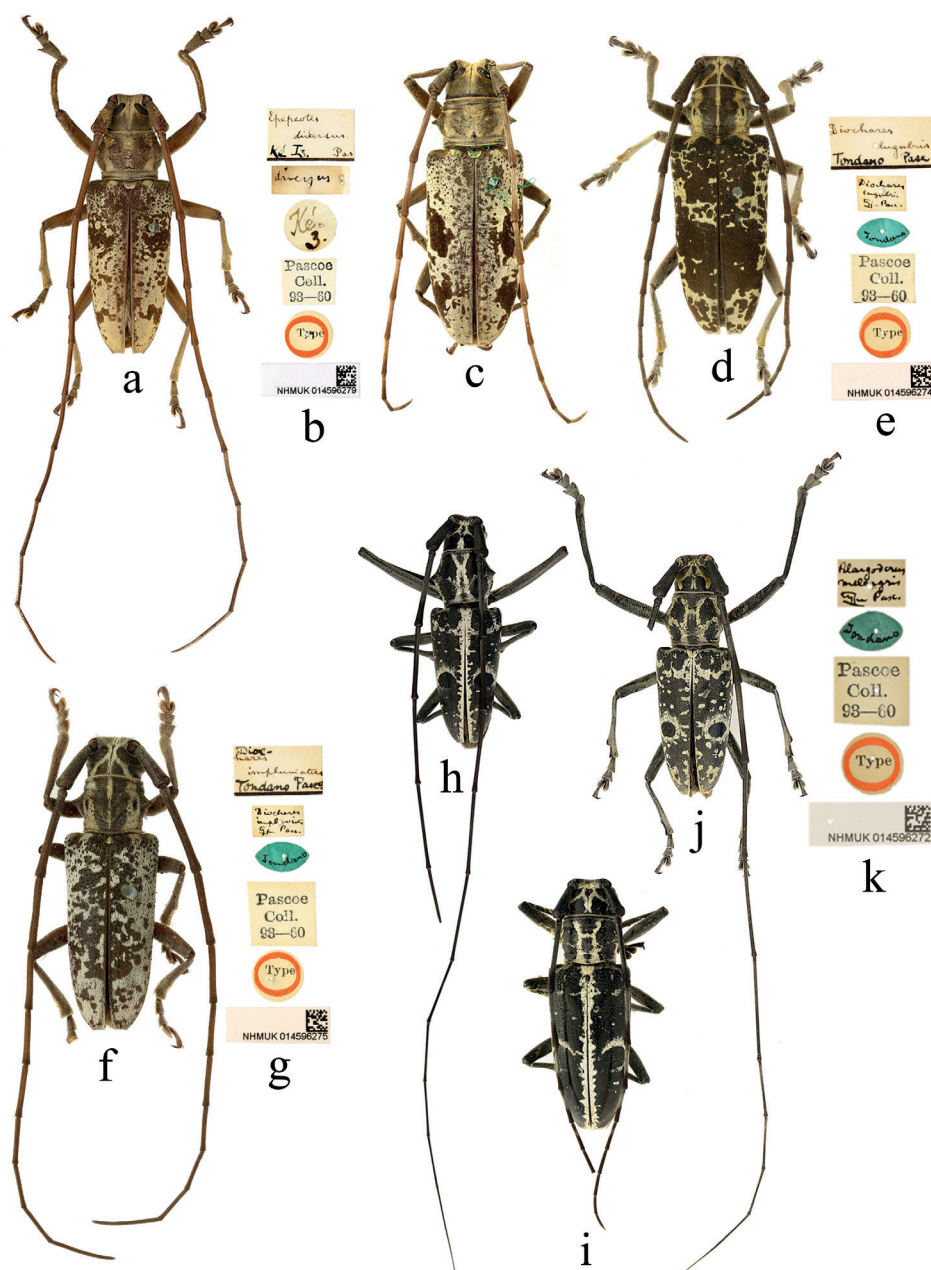


Figure 6. Habitus of *Epepeotes* spp. **a–c** *Epepeotes diversus* Pascoe, 1866 **d–g** *Epepeotes lugubris* (Pascoe, 1866) **h–k** *Epepeotes meleagris* (Pascoe, 1866) **f, g** holotype of *Diochares impluviatus* Pascoe, 1866 **a, b, d, e, j, k** holotype **a, f, h, j** male **c, d, i** female.

Epepeotes meleagris (Pascoe, 1866)

Fig. 6h–k

Pelargoderus meleagris Pascoe, 1866: 279. Type locality: Tondano [Indonesia].
Epepeotes meleagris: Breuning 1943: 226.

Type material. **INDONESIA.** **Holotype**, male: 'Type [p, label circular, red framed]; Tondano [h, label oval, dark green]; Pascoe / Coll. / 93–60 [p]; *Pelargoderus / meleagris* / Type Pasc. [h]; NHMUK014596272'.

Non-type material. 10 specimens. **Indonesia (8):** Celebes (6 males, 2 females). **Country unknown (2):** ex H. J. Carter (2 males).

Comments. Dorsal markings of this species are reduced in some male individuals, as in females, with the eyelike black spot on each elytron is without conspicuous posterior pale margins and spots along the suture are uniting into a white line.

***Epepeotes vestigialis vestigialis* Pascoe, 1866**

Fig. 7a–c

Epepeotes vestigialis Pascoe, 1866: 301. Type locality: Sarawak [Malaysia].

Type material. MALAYSIA. Holotype, male: 'Type [p, label circular, red framed]; Sarawak [h, label oval, dark green]; Epepeotes / vestigialis / Type Pasc. [h]; Epepeotes / vestigialis. / Sarawak Pas [h]; NHMUK014596265 [p]'.

Non-type material. 9 specimens. **Indonesia (2)**: Borneo (2 males). **Malaysia (5)**: Sarawak (1 female), Perak (2 males, 1 female), Malay Penin. (1 female). **Laos (1)**: Parkading (1 male). **Country unknown (1)**: Ex. F. M. S. Museum. B.M. 1955–354, locality label unreadable (1 female).

***Epepeotes schlegelii* Lansberge, 1884**

Fig. 7d, e

Epepeotes Schlegelii [sic] Lansberge, 1884: 90. Type locality: Sumatra [Indonesia].

Epepeotes diversemaculatus Schwarzer, 1927: 60. Type locality: Gunung Singalang [Indonesia].

Epepeotes schlegelii: de Jong 1942: 28 (synonymy).

Non-type material. 5 specimens. **Indonesia (5)**: Sumatra (4 males), Sungei Kumbang (1 female)

***Epepeotes uncinatus uncinatus* Gahan, 1888**

Fig. 7h–j

Epepeotes uncinatus Gahan, 1888: 271. Type locality: Assam [India].

Epepeotes uncinatus v. *salvazai* Pic, 1925: 18. Type locality: Laos.

Pseudopsacothoe lineata Pic, 1944: 14. Type locality: Annam [Vietnam].

Type material. INDIA. Lectotype, male (designated herein): 'Type [p, label circular, red framed]; Assam / 95-18[h]; Epepeotes / ♂ / uncinatus / (Type) Gahan [h]; NHMUK014596211'.

Non-type material. 47 specimens. **India (28)**: India (1 female); India, Bowring collection (1 male 1 female); India Orient (1 male 1 female); N. India, Bowring collection (1 male); S. India kanara (1 female); Assam (3 males, 7 females); Cachar [Assam] (1 male); Cherra Poonjee [now Cherrapunji], E. I. C. (1 male); Darjeeling (1 male, 1 female); Gopaldhara (2 females); Lebong (1 female); Shilong (1 male, 2 females); Sikkim (1 female). **Burma (6)**: Burma, Fry collection (1 male); Chin Hills (1 male, 1 female); Upper Burma, Nam Tamai Valley, 25. viii.

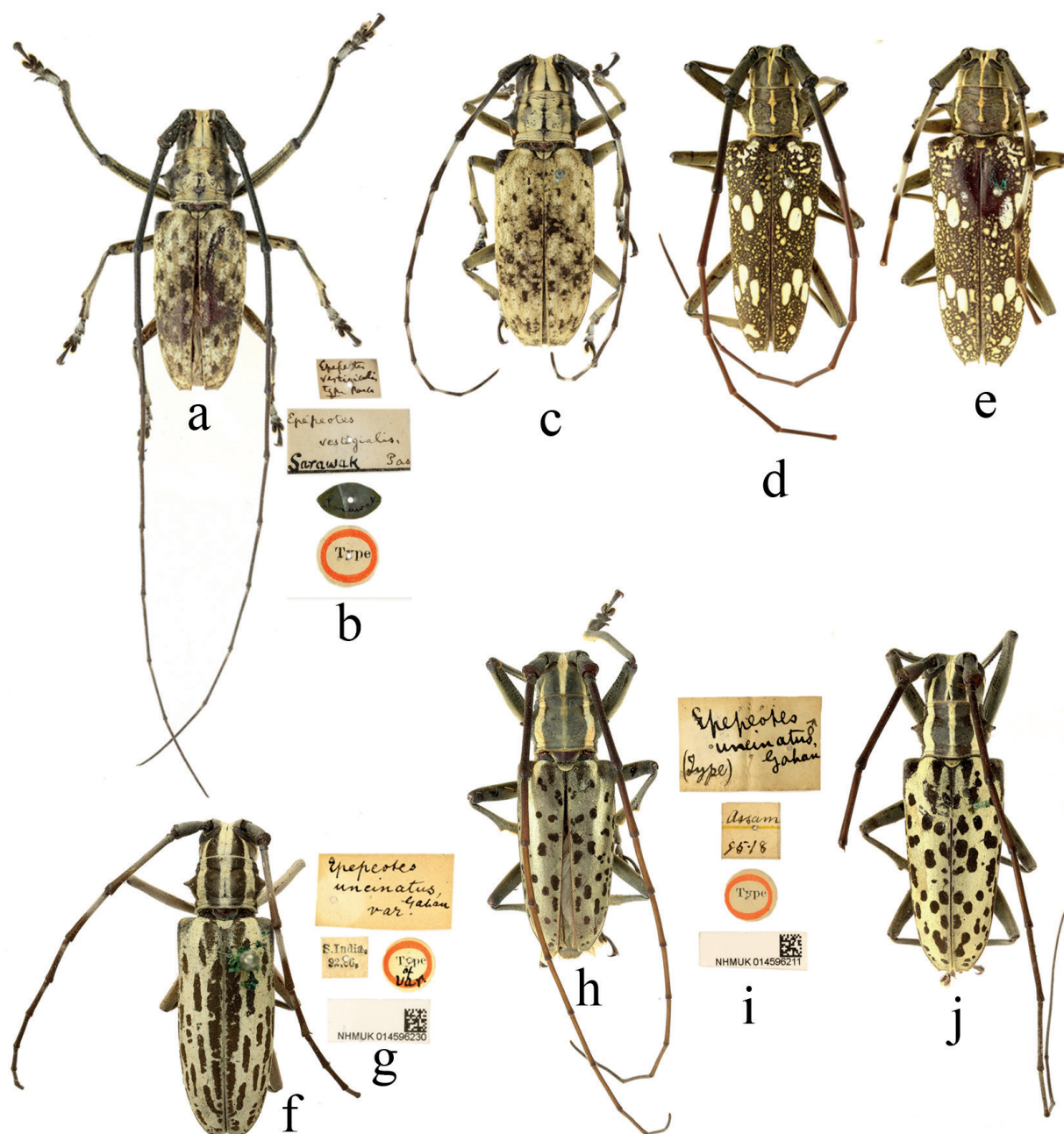


Figure 7. Habitus of *Epepeotes* spp. **a–c** *Epepeotes vestigialis vestigialis* Pascoe, 1866 **d, e** *Epepeotes schlegelii* Lansberge, 1884 **f, g** *Epepeotes lineatopunctatus* Breuning, 1960 stat. Resurrected **h, i** *Epepeotes uncinatus uncinatus* Gahan, 1888, lectotype **j** *Epepeotes uncinatus uncinatus* m. *salvazai* Pic, 1925 **a, d, h, j** male **c, e, f** female.

1938 (2 males, 1 female). **Bangladesh (7):** Silhet [now Sylhet], Bowring/Chevrolat collection (1 male); Silhet, Bowring collection (1 male, 1 female); Sehet [now Sylhet] (1 male, 1 female); Silhet, E. I. C (1 male); Silhet, Pascoe collection (1 female). **Country unknown (6):** Bowring–Chevrolat collection (1), locality label not present (1 female); Dharg, Bowring collection (1 male, 1 female); Silcurl (1 male, 1 female); locality label not present (1 female).

Comments. One syntype was confirmed in the collection. Herein we designated it as the lectotype, which has been labeled with a red-framed circular printed label and a handwritten identification label, both marked with 'Type'. This species is recorded in Bangladesh for the first time.

***Epepeotes uncinatus lineatopunctatus* Breuning, 1960, stat. resurrected**

Fig. 7f, g

Epepeotes uncinatus lineatopunctatus Breuning, 1960: 29. Type locality: Travancore [India].

Epepeotes uncinatus m. *lineatopunctatus* Breuning, 1961: 325.

Non-type material. 12 specimens. **India (12):** Nilgiri Hills (4 males); S. India (1 male, 6 females); Upper Assam (1 male).

Comments. A female specimen from South India (Fig. 7f, g) was mislabeled with a red-framed circular printed type label in the collection, which represents actually a subspecies of *E. uncinatus* Gahan, 1888, not the type specimen. Breuning (1960) described the subspecies *Epepeotes uncinatus lineatopunctatus*, then he (1961) regarded it as a morph of *E. uncinatus* Gahan. However, this subspecies is distinctly different from the nominate subspecies by the elytron mostly with conspicuous, short, longitudinal black spots, rather than rounded to oblong spots, which are almost united into a long longitudinal strip along the suture, the vertex and pronotum with more expanded median longitudinal strip. On this basis, herein we restore it to subspecies-level status.

***Epepeotes andamanicus* Gahan, 1893**

Fig. 8a–c

Epepeotes andamanicus Gahan, 1893: 380. Type locality: Andaman Islands [India].

Type material. INDIA. Lectotype, female (designated herein): ‘Type [p, label circular, red framed]; Andaman. Is. / 61–61. [p]; Epepeotes / andamanicus / Type ♀ Gahan [h]; NHMUK014394970 [p]’.

Non-type material. 8 specimens. **India (8):** Andaman Islands (2 males, 6 females).

Comments. One syntype was confirmed in the collection. Herein we designated it as the lectotype (Fig. 8b, c), which has been labeled with a red-framed circular printed label and a handwritten identification label, both marked with ‘Type’.

***Epepeotes taeniotinus taeniotinus* (Heller, 1924)**

Fig. 8d–g

Diochares desertus taeniotinus Heller, 1924: 424. Type locality: Samar [Philippines].

Epepeotes taeniotinus: Breuning 1943: 229.

Epepeotes taeniotinus taeniotinus: Barševskis 2020: 181.

Non-type material. 27 specimens. **Indonesia (18):** Maluccas [Moluccas] (2 males, 3 females); Celebes (1 male); Batchian (1 male, 3 females); Ternate (3 males, 3 females); Morty (2 females). **Country unknown (9):** H.L. Andrewes Bequest. (4): locality label unclear (3 males, 1 female); Pascoe collection (5): Mai (1 female); Gil (1 female); Maki (1 male, 1 female); locality label unreadable (1 female).

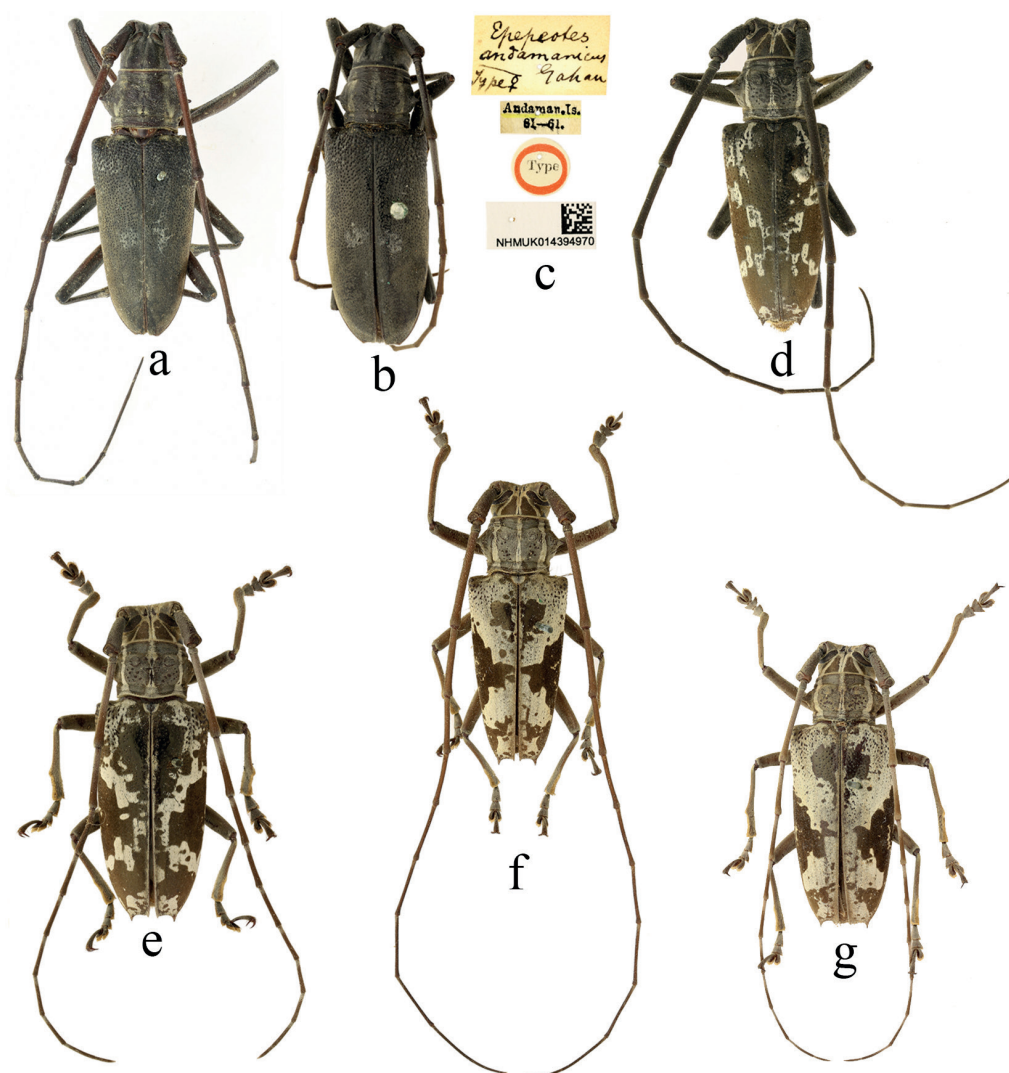


Figure 8. Habitus of *Epepeotes* spp. **a–c** *Epepeotes andamanicus* Gahan, 1893 **d–g** *Epepeotes taeniotinus taeniotinus* (Heller, 1924) **b, c** lectotype **a, d, f** male **b, e, g** female.

Comments. The pale markings on elytra are variable, ranging from occupying most of the elytra to being almost a narrow X-like stripe.

***Epepeotes strandi* (Breuning, 1935)**

Fig. 9a–f

Pelargoderus strandi Breuning, 1935: 253. Type locality: Andaman [India].

Epepeotes quadriplagiatus Breuning, 1936: 296. Type locality: Andaman [India].

Epepeotes strandi: Breuning 1943: 148, 226 (synonymy).

Type material. INDIA. Syntypes of *Epepeotes quadriplagiatus* Breuning, 1936: one male: 'Type [p, label circular, red framed]; Andaman Is. [p]; And. Is. [p]; Epepeotes / 4 plagiatus / mihi Typ. [h] / det. Breuning [p]; NHMUK014394973 [p]'; one male: 'Andaman Is. [p]; And. Is. [p]; Epepeotes / quadriplagiatus / mihi Typ! [h] / det. Breuning [p]; NHMUK014394960 [p]'. **INDIA. Paratypes** of *Epepeotes quadriplagiatus* Breuning, 1936: one female: 'Andaman / Islands. [p]; Atkinson / Coll. / 92–3 [p];

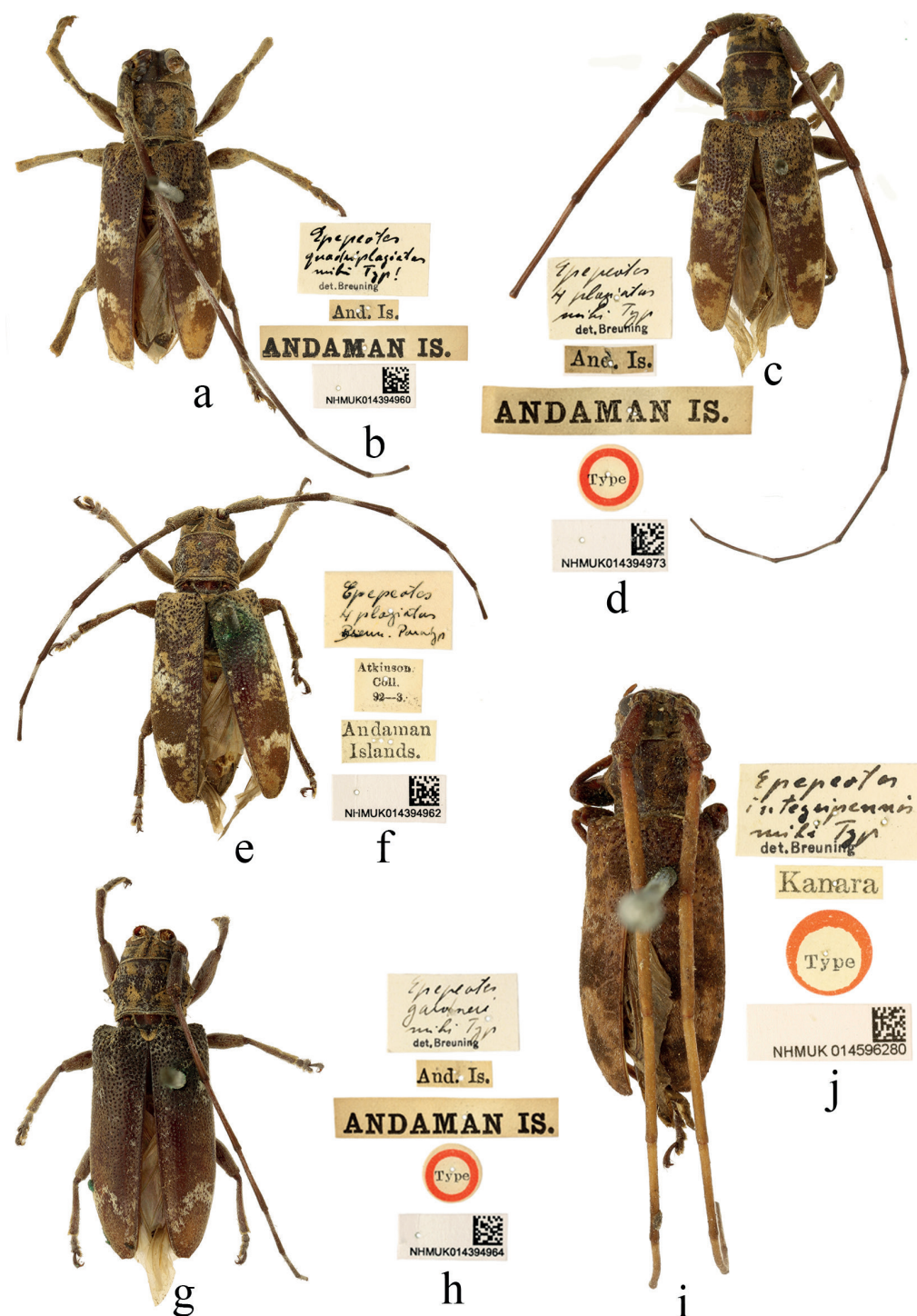


Figure 9. Habitus of *Epepeotes* spp. **a–f** types of *Epepeotes quadriplagiatus* Breuning, 1936 **g, h** holotype of *Epepeotes gardneri* Breuning, 1936 **i, j** holotype of *Epepeotes integripennis* Breuning, 1940 **a, c, i** male **e, g** female.

Epepeotes / 4 *plagiatus* / Breun. Paratyp [h]; NHMUK014394962 [p]'; One male: '91–17 [p]; *Epepeotes* / 4 *plagiatus* / Breun. Paratyp [h]; NHMUK014394963 [p]'.
Comments. A total of four type specimens of *E. quadriplagiatus* are found in the collection, of which two male specimens are marked with 'Type' and the others (one male and one female) are marked with 'Paratype' by Breuning's handwriting (Fig. 9b, d, f). Though Breuning (1936) originally designated one male as the type, the two male specimens labeled as 'type' by Breuning become de facto syntypes.

***Epepeotes gardneri* Breuning, 1936**

Fig. 9g, h

Epepeotes gardneri Breuning, 1936: 287. Type locality: Andaman [India].

Type material. INDIA. Holotype, female: 'Type [p, label circular, red framed]; Andaman Is. [p]; And. Is. [p]; *Epepeotes* / *gardneri* / mihi Typ. [h] / det. Breuning [p]; NHMUK014394964 [p]'.

***Epepeotes integripennis* Breuning, 1940**

Fig. 9i, j

Epepeotes integripennis Breuning, 1940: 123. Type locality: Kanara [India].

Type material. INDIA. Holotype, male: 'Type [p, label circular, red framed]; Kanara [p]; *Epepeotes* / *integripennis* / mihi Typ [p] / det. Breuning [p]; NHMUK014596280 [p]'.

Acknowledgments

We thank all the collectors who have added their specimens of *Epepeotes* Pascoe to the collection of the NHM, and all the specialists (named in this paper) who have made descriptions, identifications, or helpful comments on specimens in the collection. Our especial thanks to the Coleoptera curatorial team, past and present, for maintaining and developing the collection and particularly to Michael Geiser and Keita Matsumoto for supporting the first author during his study at the NHM. We are also grateful to the reviewers for their helpful suggestions, and especially to Lech Karpiński, subject editor of ZooKeys, for patiently handling the manuscript.

Additional information

Conflict of interest

The authors have declared that no competing interests exist.

Ethical statement

No ethical statement was reported.

Funding

This research was supported by the China Scholarship Council (202008420315) and the National Natural Science Foundation of China (No. 31672327).

Author contributions

Funding acquisition: WW. Writing – original draft: GX. Writing – review and editing: MVLB.

Author ORCIDs

Guanglin Xie  <https://orcid.org/0000-0003-3273-8985>

Maxwell V. L. Barclay  <https://orcid.org/0000-0003-4989-2014>

Wenkai Wang  <https://orcid.org/0000-0002-4482-076X>

Data availability

All of the data that support the findings of this study are available in the main text.

References

- Aurivillius C (1922) Cerambycidae: Lamiinae I. In: Schenkling S (Ed.) *Coleopterorum Catalogus Auspiciis et Auxilio W. Junk, pars 73, Cerambycidae: Lamiinae*. W. Junk, Berlin, 322 pp. <https://www.biodiversitylibrary.org/page/10202648>
- Aurivillius C (1923) Neue oder wenig bekannte Coleoptera Longicornia. 19. *Arkiv för Zoologi* 15(25): 1–43. [=pp. 437–479] <https://doi.org/10.5962/bhl.part.20147>
- Aurivillius C (1924) III. – Cerambyciden aus Sumatra gesammelt von Edw. Jacobson bestimmt und beschrieben. *Zoologische Mededeelingen*, Leiden 8: 24–35.
- Aurivillius C (1926) Fauna Buruana. Coleoptera, Fam. Cerambycidae. *Treubia* 7: 100–109.
- Barševskis A (2020) To the knowledge of long-horned beetles (Coleoptera: Cerambycidae) of the Oriental Region. Part 3. *Acta Biologica Universitatis Daugavpiliensis* 20(2): 173–188.
- Breuning S (1935) Novae species Cerambycidarum. IV. *Folia Zoologica et Hydrobiologica*, Riga 8(2): 251–276.
- Breuning S (1936) Novae species Cerambycidarum. V. *Festschrift zum 60. Geburtstage von Professor Dr. Embrik Strand*, Riga 1: 274–325.
- Breuning S (1938) Novae species Cerambycidarum VI. *Festschrift zum 60. Geburtstage von Professor Dr. Embrik Strand*, Riga 4[1937]: 180–392.
- Breuning S (1940) Novae species Cerambycidarum. IX. *Folia Zoologica et Hydrobiologica*, Riga 10(1): 115–214.
- Breuning S (1943) Études sur les Lamiines (Coleop. Cerambycidae). Douzième tribu: Agniini Thomson. *Novitates Entomologicae*, 3^{ème} supplément (89–106): 137–280.
- Breuning S (1960) Nouveaux Longicornes du Muséum national d'Histoire naturelle (4e note). *Bulletin de la Société Entomologique de France*, Paris 65(1–2): 29–36. <https://doi.org/10.3406/bsef.1960.20510> [Col. Cerambycidae]
- Breuning S (1961) *Catalogue des Lamiines du Monde (Coleoptera, Cérambycidae)* 5. Lieferung. Tutzing, Museum G. Frey, 287–382.
- Breuning S (1970) Nouveaux Coléoptères Cerambycidae Lamiinae des Collections du Muséum de Paris (suite). *Bulletin du Muséum National d'Histoire Naturelle de Paris* (2^{ème} série) 42(2): 363–377.
- Breuning S (1980) Description de nouvelles espèces de Lamiines des Philippines (Coleoptera, Cerambycidae). *Mitteilungen aus dem Zoologischen Museum in Berlin* 56(2): 157–182.
- Chevrolat LAA (1841) Description de trente-quatre espèces de Coléoptères de Manille et d'un Tricondyle de Ceylan. *Revue Zoologique*, Paris 4: 221–228. <https://www.biodiversitylibrary.org/item/19646#page/236/mode/1up>
- De Jong C (1942) Notes on Cerambycidae, I–XIV. *Zoologische Mededeelingen*, Leiden 24(1–2): 18–48.
- Dillon LS, Dillon ES (1941) The tribe Monochamini in the Western Hemisphere (Coleoptera: Cerambycidae). *Scientific Publications Reading Public Museum and Art Gallery, Pennsylvania* 1: 1–135. <https://babel.hathitrust.org/cgi/pt?id=wu.89095282059&view=1up&seq=9>
- Fabricius JC (1787) *Mantissa insectorum sistens eorum species nuper detectas adiectis characteribus genericis, differentiis specificis, emendationibus, observationibus*. Hafniae, 348 pp. <https://doi.org/10.5962/bhl.title.36471>

- Fabricius JC (1801) *Systema eleutheratorum secundum ordines, genera, species: adiectis synonymis, locis, observationibus, descriptionibus*. Bibliopoli Academici Novi, Kiliae, 687 pp.
- Fahri F, Sataral M (2015) Longhorn beetle (Coleoptera: Cerambycidae) in Enclave Area, Lore Lindu National Park, Central Sulawesi. *Online Journal of Natural Science* 4 (2): 149–157.
- Gahan CJ (1888) XXXIII. On Longicorn Coleoptera of the Family Lamiidae. *The Annals and Magazine of Natural History, London* 6(1) 4: 270–281. <https://doi.org/10.1080/00222938809460723>
- Gahan CJ (1893) Descriptions of some new Longicorn Coleoptera from the Indian Region. *The Annals and Magazine of Natural History, London* (6) 11(65): 377–390. <https://doi.org/10.1080/00222939308677542>
- Gahan CJ (1907) Descriptions of new genera and species of Longicorn Coleoptera from Sumatra. *Annali del Museo Civico di Storia Naturale, Genova (serie 3)* 43: 66–112. <https://www.biodiversitylibrary.org/item/33428>
- Gilmour EF, Breuning S (1963) New Indonesian Lamiinae (Coleoptera, Cerambycidae). *Treuhia* 26(2): 123–132.
- Gmelin JF (1790) *Caroli a Linné Systema Naturæ per Regna tria Naturæ, secundum Classes, Ordines, Genera, Species, cum characteribus, differentiis, synonymis, locis. Classis V. Insecta. Editio 13*. Lipsiae, Georg Emanuel Beer 1(4): 1517–2224. <http://biodiversitylibrary.org/item/83100>
- Guérin-Ménéville FE (1831) *Dictionnaire Classique d'Histoire Naturelle* Bory de Saint-Vincent J.P.G.M. (éditeur). Ray et Gravier & Baudouin Frères, Paris 17(Atlas): 161 pls. <http://gallica.bnf.fr/ark:/12148/bpt6k7318w/f216.image>
- Heller KM (1915) Neue Käfer von den Philippinen: III. *The Philippine Journal of Science* 10(4) Section D: 219–249. <https://www.biodiversitylibrary.org/item/111471>
- Heller KM (1916) Philippinische Käfer, gesammelt von Prof. C. Fuller-Baker, Los Baños. *Deutsche entomologische Zeitschrift, Berlin* (3–4): 269–311. <https://doi.org/10.1002/mmnd.48019160303>
- Heller KM (1924) Philippinische Bockkäfer. *Deutsche entomologische Zeitschrift, Berlin* 1924(5): 424–436. <https://doi.org/10.1002/mmnd.192419240507>
- Hope FW (1839) Descriptions of some new insects collected in Assam, by William Griffith, Esq., assistant surgeon in the Madras Medical Service *Proceedings of the Linnean Society of London* 1: 42–44. <https://www.biodiversitylibrary.org/page/8549966#page/64/mode/1up>
- Hua LZ (2002) *List of Chinese Insects (Vol. 2)*. Zhongshan (Sun Yat-sen) University Press, Guangzhou, 612 pp.
- Lansberge JW (1884) Trois espèces nouvelles de Coléoptères Longicornes de Sumatra. *Notes from the Leyden Museum* 6(2): 90–92.
- Linné C (1758) *Systema Naturæ per Regna Tria Naturæ Secundum Classes, Ordines, Genera, Species, cum Characteribus, Differentiis, Synonymis, Locis*. Systema naturæ (Editio 10). Laurentius Salvius, Holmiae, 824 pp. <https://doi.org/10.5962/bhl.title.542>
- Newman E (1842) *Cerambyciturum Insularum Manillarum Dom. Cuming captorum enumeratio digesta*. *The Entomologist, London* 17: 275–277.
- Olivier G (1795) *Entomologie ou Histoire Naturelle des Insectes, avec leurs caractères génériques et spécifiques, leur description, leur synonymie et leur figure enluminée Coléoptères*. Imprimerie de Lanneau, Paris 4: 1–124. <https://www.biodiversitylibrary.org/item/105397>
- Olivier G (1808) *Entomologie, ou, Histoire naturelle des insectes: avec leurs caractères génériques et spécifiques, leur description, leur synonymie, et leur figure enluminée*

- Coléoptères. Imprimerie de Lanneau, Paris 8: 1–313. www.biodiversitylibrary.org/item/106566
- Pascoe FP (1859) II. On New Genera and Species of Longicorn Coleoptera. Part IV. The Transactions of the Entomological Society of London 5(1–2): 12–61. <https://doi.org/10.1111/j.1365-2311.1859.tb01833.x> [New Series]
- Pascoe FP (1866a) Catalogue of Longicorn Coleoptera, collected in the Island of Penang by James Lamb, Esq. (Part I.). The Proceedings of the Scientific Meetings of the Zoological Society of London 44: 222–267. <https://www.biodiversitylibrary.org/item/90954>
- Pascoe FP (1866b) Longicornia Malayana; or, a Descriptive Catalogue of the Species of the three Longicorn Families Lamiidæ, Cerambycidæ and Prionidæ collected by Mr. A. R. Wallace in the Malay Archipelago. (Part III). The Transactions of the Entomological Society of London 3(3): 225–336. <http://www.biodiversitylibrary.org/item/51218>
- Pic M (1925) Nouveautés diverses. Mélanges Exotico-Entomologiques 43: 1–32.
- Pic M (1944) Coléoptères du globe (suite). L'Échange. Revue Linnéenne 60(498): 13–16.
- Ritsema C (1885) Four new species of exotic Coleoptera. Notes from the Leyden Museum 7(1): 39–46.
- Schwarzer B (1927) Fauna sumatrensis. (Beitrag Nr. 32). Cerambycidae (Col.). Supplementa Entomologica. Berlin-Dahlem 15: 58–62.
- Schwarzer B (1931) Beitrag zur Kenntnis der Cerambyciden (Ins. Col.). Senckenbergiana, Frankfurt am Main 13: 59–78.
- Tavakilian GL, Chevillotte H (2023) Titan: base de données internationales sur les Cerambycidae ou Longicornes. <http://titan.gbif.fr> [Access on 01/09/2023]
- Thomson J (1857) Diagnoses de cérambycides nouveaux ou peu connus de ma collection qui seront décrits prochainement. Archives Entomologiques, Paris 1: 169–194. <http://www.biodiversitylibrary.org/item/42909>
- Thomson J (1860, 1861) Essai d'une classification de la famille des cérambycides et matériaux pour servir à une monographie de cette famille. Chez l'auteur et au Bureau du Trésorier de la Société entomologique de France, Paris, 404 pp. <https://doi.org/10.5962/bhl.title.9206>
- Thomson J (1878) Description de deux Coléoptères nouveaux de la famille des Cérambycides. Bulletin de la Société Entomologique de France, Paris, xviii–xix.