Contribution to the knowledge of the genus *Iphiothe* Pascoe, 1866 (Coleoptera: Cerambycidae: Lamiinae), with the description of a new species from Peninsular Malaysia

К познанию жуков-древосеков рода *Iphiothe* Pascoe, 1866 (Coleoptera: Cerambycidae: Lamiinae) с описанием нового вида из Западной Малайзии

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Ключевые слова: Coleoptera, Cerambycidae, Lamiinae, *Iphiothe*, обзор, новый вид, новая синонимия, новая комбинация.

Abstract. A brief review of the genus *Iphiothe* Pascoe, 1866, as well as a key to its species are given. A new species, *I. malaccensis* sp. n., is described from Western Malaysia. All records of *I. criopsioides* Pascoe, 1866 from the Malay Peninsula are thereby noted to actually concern this new taxon. The following new synonymy and new combination are established: *Iphiothe Pascoe, 1866 = Mimepaphra Breuning, 1976, syn. n., Iphiothe borneana* (Breuning, 1976), comb. n.

Резюме. Представлен краткий обзор рода *Iphiothe* Pascoe, 1866. Дана таблица для определения его видов. Описан новый вид *I. malaccensis* sp. n. из Западной Малайзии. Все упоминания *I. criopsioides* Pascoe, 1866 с полуостровов Малакка должны быть отнесены на счет этого нового таксона. Установлены следующие новая синонимия и новая комбинация: *Iphiothe Pascoe, 1866 = Mimepaphra Breuning, 1976, syn. n., Iphiothe borneana* (Breuning, 1976), comb. n.

Introduction

The genus *Iphiothe* Pascoe, 1866 has hitherto remained monotypic and included only the type species *I. criopsioides* Pascoe, 1866, described from Borneo [Pascoe, 1866; Lacordaire, 1872; Gemminger, 1873; Aurivillius, 1921; Breuning, 1963; Polaszek, Earl of Cranbrook, 2006; Heffern, 2013], Gahan [1906] recorded this species also from Western Malaysia and Sumatra.

The present paper shows that the Malacca specimens of *Iphiothe* actually belong to a new species described below. Besides this, a new synonym, *Iphiothe Pascoe, 1866 = Mimepaphra Breuning, 1976, syn. n.*, and a new combination, *Iphiothe borneana* (Breuning, 1976), comb. n., are established.

Thus, the genus *Iphiothe* presently encompasses three species, all considered below.

The material treated in this work belongs to the following institutional and private collections:

- BMNH – Natural History Museum (London, United Kingdom);
- IRSN – Institut Royal de Sciences naturelles de Belgique (Bruxelles);
- cAM – collection of Alexandr Miroshnikov (Krasnodar, Russia).

Genus *Iphiothe* Pascoe, 1866


*Mimepaphra* Breuning, 1976 (the genus includes a single species, *M. borneana* Breuning, 1976), syn. n.

Type species: *Iphiothe criopsioides* Pascoe, 1866, by monotypy.

Distribution. Oriental realm.

*Iphiothe criopsioides* Pascoe, 1866

(Color plate 9: 1–4; Color plate 10: 14, 15, Figs 18, 19)

*Iphiothe criopsioides* Pascoe, 1866: 255 (type locality: [Malaysia] Sarawak (according to the original description and the label of the holotype)). Lacordaire, 1872: 451 (Borneo) (“mâle”, mistakenly); Gemminger, 1873: 3059 (Borneo); Gahan, 1906: 119 (partim, Borneo, Sumatra: Merang); Aurivillius, 1921: 211 (partim, Borneo, Sumatra); Polaszek, Earl of Cranbrook, 2006: 443 (Sarawak).

*Iphiothe criopsioides* (misspelling): Breuning, 1963: 491 (partim, Borneo, Sumatra); Heffern, 2013: 57 (partim, Borneo, Sumatra).


**Morphological notes.** Female. Body length 12.1–12.3 mm, humeral width 5.3–5.6 mm, thereby holotype largest.

Pronotum distinctly transverse, 1.2, 1.18 or 1.13 times as wide as long in holotype, female from Sabah and Sumatran female, respectively.

**Remarks.** A picture of the female relatively recently collected in Sabah is available at the website “Beetles (Coleoptera) and coleopterists” [http://www.zin.ru/ ANIMALIA/Coleoptera/RUS/lamgsacc.htm]. This female is very similar to the holotype and the Sumatran female is available at the website “Beetles (Coleoptera) and coleopterists” [http://www.zin.ru/ ANIMALIA/Coleoptera/RUS/lamgsacc.htm]. This female is very similar to the holotype and the Sumatran female and has the following label: “E. Malaysia, Sabah, Trus Madi Mts., 1280 m, 12–25.08.2012, leg. A. Abramov.” Its body length is 12 mm.

**Distribution.** Eastern Malaysia: Sarawak, Sabah; Indonesia: Sumatra; very likely, Indonesian part of Borneo.

*Iphiothe borneana* (Breuning, 1976), comb. n.

(Color plate 10: 8–13; Figs 21, 23, 24, 28–30)


**Morphological notes.** Body length 11–11.5 mm, humeral width 4.5–4.8 mm, thereby holotype and paratype male subequal in length, while paratype female smallest.

Length ratio of antennomeres 3–5 in male, 78: 45: 39 (holotype) or 77: 46: 37 (paratype).

Pronotum 1.04–1.16 or 1.14 times as wide as long in male and female, respectively.

Male genitalia as in Figs 28–30; tegmen (without apical setae), penis and tergite 8 (without apical setae) about 2.7, 2.3 or 1.9 or 0.75 mm in length, respectively (when the length of male and female, respectively.

Female. Body length 12.1–12.2 mm, see above).

**Distribution.** Indonesia: West Kalimantan.

*Iphiothe malaccensis* Miroshnikov, sp. n.

(Color plate 9: 5–7; Color plate 10: 16–17; Figs 20, 22)

*Iphiothe criopsoides* Gahan, 1906: 110, 119 (partim, Malay Peninsula, Selangor, Bukit Kuti) (non Pascoe, 1866); Aurivillius, 1921: 211 (partim, Malacca) (non Pascoe, 1866).

*Iphiothe criopsoides* (missspelling): Breuning, 1963: 491 (partim, “Malaisie” (= Western Malaysia)) (non Pascoe, 1866); Heffern, 2013: 57 (partim, Western Malaysia) (non Pascoe, 1866).


**Diagnosis.** This new species is very similar to *I. criopsoides* and *I. borneana* comb. n., but differs clearly from both. In *I. malaccensis* sp. n., compared to the former species, the body is more slender, as in Color plate 9: 5, 7 (cf. Color plate 9: 1, 3), the pronotum is less strongly transverse and less strongly narrowed from base towards apex, as in Color plate 10: 16, 17 (cf. Color plate 10: 14, 15), antennomere 3 is less strongly curved dorsally, being thicker in the basal part, as in Figs 20, 22 (cf. Figs 18, 19). In contrast, the new species differs from the second congener by antennomere 3 being more strongly curved dorsally, as in Figs 20, 22 (cf. Figs 21, 23, 24), as well as by the length ratio of the antennomeres 3–5 in the male, as in Color plate 9: 5 (cf. Color plate 9: 8, 9), the elytral spots of light, dense, recurved setae being more clearly expressed against the general background, as in Color plate 9: 5, 7 (cf. Color plate 9: 8–10), the structure of the male genitalia, including the clearly larger sizes relative to body size, as in Figs 25–27 (cf. Figs 28–30).

**Description.** Body length 11.6–12.7 mm, humeral width 4.6–4.8 mm, thereby holotype smallest. Coloration of integument mainly combines black and dark brown tones; head ventrally polygonal and legs red; antennomere 3, mesosternum and coxae can also be partly red and red-brown; basal part of antennomere 4 reddish yellow, subsequent antennomeres brownish to brown.

Head, predominantly dorsally and laterally, with a rough, partly heterogeneous, in places dense puncturation; frons longitudinal, barely convex or flat; eyes with a very well-developed emargination, weakly convex, with relatively small ocelli; genae long; antennae of peculiar structure like in other conegers, with a most robust, longest and distinctly curved antennomere 3, in male very clearly longer than body, reaching beyond apex of elytra by antennomere 7, in female clearly not reaching the apex of elytra; length ratio of antennomeres 1–11 in male, 48: 8: 75: 40: 30: 26: 24: 21: 18: 17: 23, in female, 48: 6: 60: 25: 19: 16: 15: 13: 12: 11: 17; antennomere 2 subequal in length and width or distinctly transverse in male and female, respectively; antennomere 3 of male, 1.07 times as long as antennomeres 4 and 5 combined (on the contrary, in male of *I. borneana* comb. n., antennomere 4 and 5 combined 1.08 times as long as antennomere 3).

Pronotum barely transverse, 1.08 or 1.05 times as wide as long in male and female, respectively; at base slightly wider than at apex (while in *I. criopsoides*, at base very clearly wider than at apex); with rough, relatively uniform, moderately dense punctures. Scutellum rounded apically.

Elytra in male clearly narrowed towards apex, in female predominantly about parallel-sided starting from base; 1.67–1.76 times as long as humeral width; with a coarse, relatively uniform punctuation gradually decreasing from base towards apex and partly hidden by a dense setation; at apex truncate and, besides this, with a shallow emargination; apical external angle obtuse, sartural angle almost right or narrowly rounded.

Prosternum with a smoothed sculpture; prosternal process strongly, but uniformly curved, strongly expanded at apex; mesosternal process about twice as wide as prosternal process between coxae, with a strong tubercle; metasternum and sternites with a gentle dense punctuation; metasternum with a distinct, but not too sharp median groove; last (visible) sternite in male widely emarginate, weakly convex, with relatively small ocelli; genae partly heterogeneous, in places dense puncturation; frons and legs red; antennomere 3, mesosternum and coxae can also be partly red and red-brown; basal part of antennomere 4 reddish yellow, subsequent antennomeres brownish to brown.

Male genitalia as in Figs 25–27; tegmen (without apical setae), penis and tergite 8 (without apical setae) about 1.8, 1.9 or 0.75 mm in length, respectively (when the length of male body 11.6 mm, see above; see also the relevant measurements in *I. borneana* comb. n.).
Figs 1–7. Iphiothe Pascoe, 1866, habitus, dorsal view, and labels.
1–4 – I. criopsoides Pascoe, 1866; 5–7 – I. malaccensis sp. n.; 1–2, 5–6 – holotypes; 7 – paratype; 1, 3, 7 – females; 5 – male.
Рис. 1–7. Iphiothe Pascoe, 1866, общий вид сверху и этикетки.
1–4 – I. criopsoides Pascoe, 1866; 5–7 – I. malaccensis sp. n.; 1–2, 5–6 – голотипы; 7 – паратип; 1, 3, 7 – самки; 5 – самец.
Figs 8–17. *Iphiothe* Pascoe, 1866, habitus, dorsal view, pronotum and labels.

Рис. 8–17. *Iphiothe* Pascoe, 1866, общий вид сверху, переднеспинка и этикетки.
Figs 18–30. *Iphiothe* Pascoe, 1866, antennomeres 2–3, lateral view, and male genitalia.


Рис. 18–30. *Iphiothe* Pascoe, 1866, 2–3-й членики усиков сбоку и гениталии самца.

Distribution. Western Malaysia: Selangor, Pahang.

Etymology. The formation of the name of this new species is related to its distribution in Peninsular Malaysia.

Key to species of Iphiothe

1. Antennomere 3 clearly or very clearly curved dorsoventrally, as in Figs 18–20, 22; elytra with a more dense recumbent setation, more strongly hiding their puncturation, as in Color plate 9: 1, 3, 5, 7 ............... 2
– Antennomere 3 very weakly curved dorsoventrally, as in Figs 21, 23, 24; elytra with a less dense recumbent setation, less strongly hiding their puncturation, as in Color plate 10: 8–10 .................... I. borneana comb. n.

2. Body, at least in female, more robust, as in Color plate 9: 1, 3; pronotum, at least in female, distinctly transverse and more strongly narrowed from base towards apex, as in Color plate 10: 14, 15; antennomere 3 more strongly curved dorsoventrally and thinner in basal part, as in Figs 18, 19 .................... I. criopsioides
– Body more slender, as in Color plate 9: 5, 7; pronotum barely transverse and less strongly narrowed from base towards apex, as in Color plate 10: 16, 17; antennomere 3 less strongly curved dorsoventrally and thicker in basal part, as in Figs 20, 22 .................... I. malaccensis sp. n.

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