

**Descriptions of males of *Tricliona melanura* Lefèvre, 1890
and *T. paksensis* Kimoto et Gressitt, 1982
with an updated key to *Tricliona* Lefèvre, 1885 with punctured frons
from Indochina (Coleoptera: Chrysomelidae: Eumolpinae)**

**Описания самцов *Tricliona melanura* Lefèvre, 1890
и *T. paksensis* Kimoto et Gressitt, 1982
с новой определительной таблицей
индокитайских *Tricliona* Lefèvre, 1885 с пунктированным лбом
(Coleoptera: Chrysomelidae: Eumolpinae)**

**A.G. Moseyko^{1,2}, P.V. Romantsov³
А.Г. Мосейко^{1,2}, П.В. Романцов³**

¹Zoological Institute of the Russian Academy of Sciences, Universitetskaya nab., 1, St. Petersburg 199034 Russia

²All-Russian Institute of Plant Protection, Podbelskiy roadway, 3, St. Petersburg, Pushkin 196608 Russia. E-mail: chrysolesha@mail.ru

³Russian Entomological Society, Krasnoutilovskaya str., 105–9, St. Petersburg 196240 Russia. E-mail: pawelr@mail.ru

¹Зоологический институт РАН, Университетская наб., 1, Санкт-Петербург 199034 Россия

²Всероссийский институт защиты растений, шоссе Подбельского, 3, Санкт-Петербург, Пушкин 196608 Россия

³Русское энтомологическое общество, ул. Краснопутиловская, 105–9, Санкт-Петербург 196240 Россия

Key words: Coleoptera, Chrysomelidae, Eumolpinae, *Tricliona*, key, males, Indochina.

Ключевые слова: Coleoptera, Chrysomelidae, Eumolpinae, *Tricliona*, определительная таблица, самцы, Индокитай.

Abstract. Formerly unknown males of *Tricliona melanura* Lefèvre, 1890 and *T. paksensis* Kimoto et Gressitt, 1982 are described. The photos of general view and of aedeagi dorsally and laterally are given for both species. Ratio of maximum width of head including eyes to minimum width of frons is 5.5 in male of *T. melanura* and 2.65 in *T. paksensis*. The sexual dimorphism in the species of *Tricliona* Lefèvre, 1885 is discussed. It appears in differences in width of the frons between the eyes and width of fore and middle tarsomeres. The key to South-East Asian *Tricliona* performed earlier is modified from thesis 19 to thesis 24 taking into account characters of the males. *Tricliona paksensis* is recorded from Cambodia for the first time.

Резюме. Описаны самцы *Tricliona melanura* Lefèvre, 1890 и *T. paksensis* Kimoto et Gressitt, 1982. Для обоих видов приведены фотографии общего вида и эдеагусов сверху и сбоку. Отношение максимальной ширины головы с глазами к минимальной ширине лба между глазами составляет 5.5 у самцов *T. melanura* и 2.65 у самцов *T. paksensis*. Обсужден половой диморфизм видов рода *Tricliona* Lefèvre, 1885, который выражается в различиях ширины лба между глазами и ширины передних и средних члеников лапок. Определительная таблица юго-восточно-азиатских *Tricliona*, опубликованная ранее, изменена в тезах 19–24 с учетом признаков самцов. *Tricliona paksensis* впервые указан из Камбоджи.

This paper supplements our study on the genus *Tricliona* Lefèvre, 1885 from Indochina and Malay Peninsula [Romantsov, Moseyko, 2016]. We found the males for two species, *T. melanura* Lefèvre, 1890 and *T. paksensis* Kimoto et Gressitt, 1982 (Figs 1–6), cited there from females only. Also we partly modified the key to the species of *Tricliona* from Indochina.

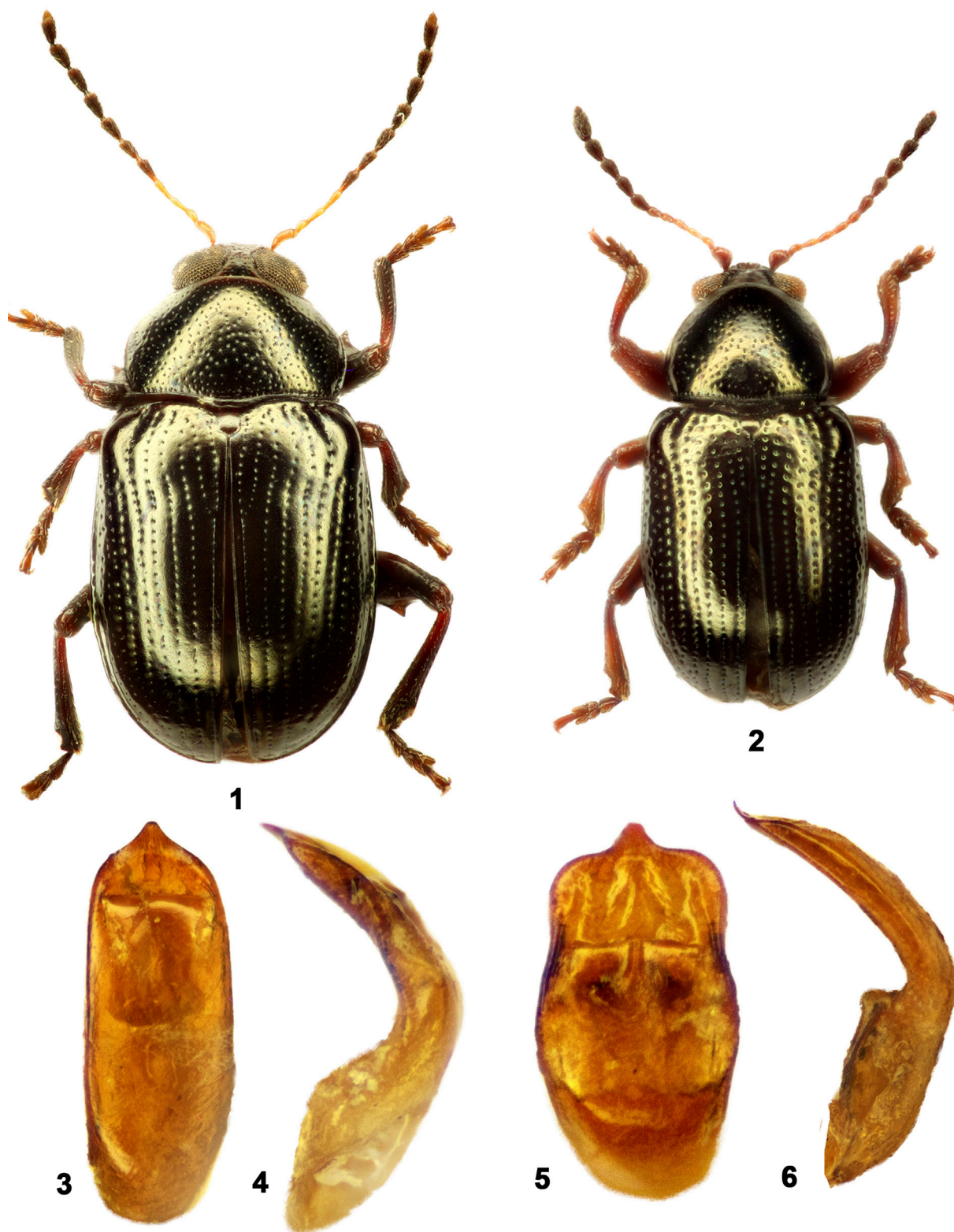
The following abbreviations are used for designation of the collections studied: PR – Pavel Romantsov's collection (St. Petersburg, Russia); IRSNB – Institut Royal des Sciences Naturelles de Belgique (Bruxelles, Belgium).

Tricliona melanura Lefèvre, 1890
(Figs 1, 3, 4)

Material. 1♂, Thailand, Chiang Mai Province, 100 km N Chiang Mai City, Chiang Dao Hill Resort, 445–640 m, 19°32'47"N / 99°04'53"E, 17–25.05.2016 (A. Zamesov leg.) (PR).

Description. The male of *T. melanura* is quite bigger than females known to us (females are 4.1–4.4 mm in length, male is 4.6 mm). Ratio of maximum width of head including eyes to minimum width of frons is 4.2–4.5 in females and 5.5 in male. Therefore, the frons in male is distinctly narrower. Fore and middle tarsomeres are widened. Aedeagus of *T. melanura* is comparatively narrow, parallel-sided, narrowed apically and with the tip not deflected (Figs 3, 4).

The frons of both sexes of *T. melanura* is most narrow among the group including also *T. paksensis* and *T. tristis* L. Medvedev, 2001.



Figs 1–6. *Tricliona* spp., males.
1, 3–4 – *T. melanura* Lefèvre, 1890; 2, 5–6 – *T. paksensis* Kimoto et Gressitt, 1982. 1–2 – habitus, dorsal view; 3–6 – aedeagus, dorsal (3, 5) and lateral (4, 6) view.

Рис. 1–6. *Tricliona* spp., самцы.
1, 3–4 – *T. melanura* Lefèvre, 1890; 2, 5–6 – *T. paksensis* Kimoto et Gressitt, 1982. 1–2 – общий вид сверху; 3–6 – эдеагус, вид сверху (3, 5) и вид сбоку (4, 6).

Tricliona paksensis Kimoto et Gressitt, 1982
(Figs 2, 5, 6)

Material. 1♂, Cambodia, Prek Toal, Angkor Tom, 27.07.2004 (24044) (P. Grootaert leg.) (IRSNB).

Description. The male of *T. paksensis* is 3.1 mm in length (female known to us is 3.4 mm). Ratio of maximum width of head including eyes to minimum width of frons is 2.65 in male comparatively to 2.1 in female. Fore and middle tarsomeres are widened. Aedeagus of *T. paksensis* is wider than in *T. melanura*, with constriction slightly before middle, apex is cut with tooth deflected upwards (Figs 5, 6).

Note. This is the first record of *T. paksensis* from Cambodia.

Key to South-East Asian *Tricliona*

(modified part of key after Romantsov, Moseyko [2016])

- 19(24). Head or at least frontoclypeus densely and coarsely punctate.
- 20(21). Head entirely densely and coarsely punctate with short shallow longitudinal sulcus at middle. Larger, length of body over 5 mm (5.4–5.9 mm). Dark piceous to black, dorsal side with feeble metallic iridescence, head, 4 basal segments of antennae, anterior angles of pronotum, sides and apex of elytra and legs (except partly darkened knees) red fulvous. Head coarsely punctate, without longitudinal sulcus at middle. Frons moderately wide. Thailand *T. tristis*
- 21(20). Head with distinct longitudinal sulcus at middle. Smaller, length of body less 5 mm.
- 22(23). Dorsum entirely pitchy black, with slight aeneous iridescence, ventral surfaces pitchy brown; head with frontoclypeus densely and coarsely punctate, frons moderately punctate; length 4.2–4.8 mm. Aedeagus parallel-sided (Figs 3, 4). Cambodia, Laos, Vietnam, Thailand *T. melanura*
- 23(22). Dorsum pitchy, somewhat with green tint; elytron with a broad longitudinal stripe, more deeply coloured than rest of surface, extending from humerus to a little

distance beyond middle; ventral surfaces pitchy black; head entirely densely and coarsely punctate; length 4.5 mm. Vietnam *T. consobrina* Chen, 1935

24(19). Head more sparsely and finely punctate, with a shallow longitudinal furrow at middle. Dorsum entirely pitchy black, with slight aeneous reflexion, ventral surfaces pitchy brown; pitchy brown with basal segments paler; legs deep brown; length 2.7–3.2 mm. Aedeagus with constriction before middle (Figs 5, 6). Cambodia, Laos, Vietnam *T. paksensis*

Comments on sexual dimorphism. The sexual dimorphism in most species of the genus *Tricliona* appears first of all in proportions of the head. In males the frons between the eyes is distinctly narrower comparatively to the eyes than in females. It is typical for many genera of the tribe Typophorini (see, for example, Moseyko [2012]). Fore and middle tarsomeres in males are usually widened but in females of some species (for example, *T. suturalis* Kimoto et Gressitt, 1982) this character is quite variable. The size of males is not necessarily smaller than in females although in many cases it is so.

Acknowledgements

We are grateful to J. Constant (IRSNB) for the possibility to study the material.

The study was performed in the frames of the state research project AAAA-A17-117030310205-9 and supported by the Russian Foundation for Basic Research (grant no. 16-04-00412).

References

- Moseyko A.G. 2012. Comments on the genus *Aphilenia* Weise in Reitter, 1889 (Coleoptera, Chrysomelidae, Eumolpinae), with a description of a new species from Russia. *Entomological Review*. 92(7): 773–781.
- Romantsov P.V., Moseyko A.G. 2016. To the knowledge of leaf-beetle genera *Rhyparida* and *Tricliona* (Coleoptera: Chrysomelidae: Eumolpinae) from Indochina and Malay Peninsula. *Zoosystematica Rossica*. 25(2): 299–313.

Received / Поступила: 15.04.2018

Accepted / Принята: 28.06.2018