A new species of the genus Euplatyrhopalus (Coleoptera, Carabidae, Paussinae) from Thailand

Maruyama, Munetoshi The Kyushu University Museum

Nomura, Shûhei Department of Zoology, National Museum of Nature and Science

Sakchoowong, Watana Forest Entomology and Microbiology Group, National Parks, Wildlife and Plant Conservation Department

https://doi.org/10.5109/25390

出版情報:ESAKIA. 52, pp.5-7, 2012-03-27. Entomological Laboratory, Faculty of Agriculture, Kyushu University バージョン: 権利関係:

A New Species of the Genus *Euplatyrhopalus* (Coleoptera, Carabidae, Paussinae) from Thailand

Munetoshi MARUYAMA¹⁾, Shûhei Nomura²⁾ and Watana Sakchoowong³⁾

1) The Kyushu University Museum, Fukuoka, 812-8581 Japan

- 2) Department of Zoology, National Museum of Nature and Science, Tsukuba-shi, Ibaraki, 305-0005 Japan
- 3) Forest Entomology and Microbiology Group, National Parks, Wildlife and Plant Conservation Department, 61 Praholyothin Road, Chatuchak, Bangkok, 10900, Thailand

Abstract. *Euplatyrhopalus tadauchii* sp. nov. (Paussini, Platyrhopalina) is described based on specimens collected with flight interception traps and light traps in Kaeng Krachan National Park, Thailand.

Key words: Flight interception trap, light trap, Kaeng Krachan National Park, new species.

Six species of the paussine genus *Euplatyrhopalus* Desneux, 1905 (Paussini, Platyrhopalina) are known from Pakistan, India, Bhutan, Hong Kong, Malaysia (Penang, Borneo), Indonesia (Java, Sumatra). *Euplatyrhopalus* is well characterized by the flattened, bi- or tridentate antennal club in the subtribe Platyrhopalina. Recently, we collected a series of an unknown species of the genus in Kaeng Krachan National Park, Phetchaburi, Myanmar border of Thailand, which is described herein. This paper is dedicated to Professor Osamu Tadauchi on the occasion of his retirement from Kyushu University.

The following abbreviations are used: DNP: National Parks, Wildlife and Plant Conservation Department, Thailand; FIT: flight interception trap; KUM: Kyushu University Museum, Fukuoka; LT: light trap; NSMT: National Museum of Nature and Science, Tsukuba.

Euplatyrhopalus Desneux, 1905

Desneux, 1905: 18 (original description; type species *Platyrhopalus aplustrifer* Westwood, 1933); Fowler, 1912: 465 (redescription); Luna de Carvalho, 1989: 371 (review); Maruyama, 2011: 89 (key to genera of Platyrhopalina).

Euplatyrhopalus tadauchii sp. nov.

Etymology. Dedicated to Prof. Osamu Tadauchi.

Type material. Holotype, \Diamond , 16 km Point, Kaeng Krachan National Park, Phetchaburi, Thailand, 25 X 2010, S. Nomura (by LT) (NSMT). Paratypes: $1\Diamond$, $1\heartsuit$, same data as holotype (by LT) (KUM, DNP); $1 \circlearrowright$, same data, but 26 X 2010 (by LT) (NSMT); $1 \circlearrowright$, same data, but 20-29 X 2010, M. Maruyama (by FIT) (KUM).

Diagnosis. This species is similar to *E. aplustrifer* (Westwood, 1933), *E. vexillifer* (Westwood, 1874) and *E. macrophyllus* (Poll, 1890) by having two large triangular processes on hind margin of antennal club, but is distinguished from them by the smaller body, the pronotum being narrower, and the lateral projection of pronotum being narrower and apically pointed.

Description.

Body (Fig. 1) small, ≈ 6.5 -7.4 mm, uniformly reddish brown.

Male. Head (Fig. 1) with dorsal surface weakly rugose around base, sparsely with short recumbent setae; temples with several long erect setae. Antenna (Fig. 2) with segment I moderately covered with erect setae; club with fore margin slightly curved; hind margin with two short processes near base, two large triangular processes around middle; apex rounded or slightly pointed; surface sparsely covered with erect setae, but densely with minute pubes-

E-mail: dendrolasius@gmail.com

M. MARUYAMA ET AL.



Figs. 1-2. Euplatyrhopalus tadauchii sp. nov. 1, habitus (paratype, male); 2, right antenna, dorsal view (ditto).

cence along fore margin.

Pronotum (Fig. 1) with width, 1.80-1.95 mm; lateral projections narrowed and pointed apically; surface densely punctured, but rugose around lateral areas, with + -shaped shallow groove on mesal area, sparsely with erect setae;

Elytra (Fig. 1) about 1.8 times longer than wide; surface sparsely with long erect setae, of which lateral

ones are longer, and short recumbent setae. Hind wings fully developed.

Legs (Fig. 1): femora gently narrowed apically; tibiae slightly widened apically, with apices of outer margins acutely produced, pointed, and inner margins of their apices densely with setae. Hind tibial length, 2.95-3.15 mm.

Pygidium weakly margined around apex; surface

densely covered with minute pubescence.

Female. Apical process of antennal club shorter than in male.

Biology. The type series were collected by UV light trap (4 watt) and a flight interception trap set in a forest floor. No host ant has been known.

Acknowledgments

Permission for sampling in this project was granted by the National Parks, Wildlife, and Plant Conservation Department, Thailand (DNP 0907.1/940/2552). M. Maruyama was supported by Grants-in-Aid for Scientific Research of JSPS (Young Scientists B: 22770085). S. Nomura was supported in part by the National Museum of Nature and Science, Tokyo as the study project titled "Integrated research on biodiversity of interspecies relationships".

References

- Desneux, J., 1905. Coleoptera Adephaga, Fam. Paussidae. *Genera Insectorum*, fasc. 35:
- Fowler W. 1912: The Fauna of British India including Ceylon and Burma, Coleoptera. General Introduction and Cicindelidae and Paussidae. Taylor and Francis. London. 529 pp.
- Luna de Carvalho, E., 1989. Essai monographique des Coléoptères Protopaussines et Paussines. *Mem. Ins. Invest. Sci. Tropic. seg. sér., Lisboa,* 2a serie, (70): 1-1028.
- Maruyama, M., 2011. *Pterorhopalus mizotai* (Coleoptera, Carabidae, Paussinae), a new genus and species of Platyrhopalina from Sabah, Borneo. *Esakia*, (50): 89-92.
- Poll, J. R. H. N., 1890. Descriptions of two new Paussidae from Malay-Islands. *Notes Leyd. Mus.*, 12: 1-4.
- Westwood, J. O., 1833. On the Paussidae, a family of coleopterous insects. *Trans. Linn. Soc. Lond.*, 16: 607-684, pl. 33.
- Westwood, J. O., 1874. Thesaurus entomologicus Oxoniensis; or, Illustrations of new, rare, and interesting insects, for the most part contained in the collections presented to the University of Oxford by the Rev. F.W. Hope, M.A., D.C.L., F.R.S., &c. with forty plates from drawings by the author. xxiv + 205 pp.. 40 pls. Clarendon Press, Oxford.