Elytra, *Tokyo*, New Series, **7** (2): 409–411
December 25, 2017

Occurrence of *Habroloma* (*Parahabroloma*) *marginicolle* (Fairmaire) (Coleoptera, Buprestidae) in Mie Prefecture, Honshu, Japan

Yutaka Tamadera [1] **and Hiraku Yoshitake** [2]*

[1] Laboratory of Entomology, Tokyo University of Agriculture, Atsugi, Kanagawa, 243–0034 Japan
[2] Institute of Agro-Environmental Sciences, NARO, 3–1–3 Kannondai, Tsukuba, Ibaraki, 305–8604 Japan
*Corresponding author

Habroloma (*Parahabroloma*) *marginicolle* (Fairmaire, 1888) is a small buprestid beetle belonging to the tribe Tracheini, subfamily Agrilinae (Coleoptera, Buprestidae). This species has been recorded from Japan (Shikoku, Kyushu, Yakushima Is., Tanegashima Is., and Koshikijima Is.), Taiwan, China, and Korea (Ohmomo & Fukutomi, 2013; Kubáň, 2016). In Japan, this species has never been recorded from Honshu until now. However, the second author collected this species for the first time from Mie Prefecture, Honshu, as recorded bellow.

Before going further, the first author would like to express his appreciation to Prof. H. Kojima and Associate Prof. T. Ishikawa of the Laboratory of Entomology, Tokyo University of Agriculture for their constant guidance. The specimen examined is deposited at the Institute for Agro-Environmental Sciences, NARO, Tsukuba (NIAES).

Habroloma* (*Parahabroloma*) *marginicolle (Fairmaire, 1888)

[Japanese name: Shirozu-hirata-chibi-tamamushi]

(Fig. 1)

Trachys marginicolle Fairmaire, 1888, 24 (type locality: China). —— Kerremans, 1892, 286. —— Kerremans, 1903, 308. —— Obenberger, 1918, 17, 32, 64.

Habroloma marginicolle Obenberger, 1926, 661. —— Obenberger, 1937, 1412.

Habroloma (*Parahabroloma*) *marginicolle* Kubáň, 2006, 43. —— Bellamy, 2008, 2553. —— Ohmomo & Fukutomi, 2013, 171, pl. 55. —— Kubáň, 2016, 569.

See Bellamy (2008) for other synonymy.

Specimen examined. Japan: Honshu. 1 ex., Mie Pref., Kumano-shi, Hobo-chô, Tategasaki-enchi, 30.IV.2011, H. Yoshitake leg. (NIAES).

Distribution. Japan (Honshu: Mie Pref. — new record; Shikoku; Kyushu; Nansei Islands: Yakushima Is., Tanegashima Is., and Koshikijima Is.), Taiwan, China and Korea.

Host plant. *Rubus sieboldii* (Rosaceae; Japnese name: Hôroku-ichigo).

Notes. *Habroloma* (*Parahabroloma*) *marginicolle* is similar in general appearance to *H*. (*P*.) *asahinai* Y. Kurosawa, 1959 which is distributed in the Ryukyus (Okinawajima Is. and Ishigakijima Is.) and Taiwan, and is associated with *Rubus sieboldii* (Rosaceae), the same host plant as that of *H*. (*P*.) *marginicolle* (Lan & Ohmomo, 2015). However, *H*. (*P*.) *marginicolle* is distinguished from *H*. (*P*.) *asahinai* by the weakly produced inferior rim of each eye and pronotum with lateral margins which are arcuately attenuate to anterior angles (Kurosawa, 1959; Ohmomo & Fukutomi, 2013).

It is generally known that marine drift affected by the Japanese Current (Kuroshio), which flows northeastward along the Pacific Ocean side of Japan, might have played a part in the dispersal of Japanese beetles from island to island in the Japanese archipelago on the Pacific side of Honshu, Shikoku and Kyushu, and the Nansei Islands (Morimoto & Hayashi, 1986).

The flora and fauna of the Pacific coastal areas of the Kii Peninsula are considered to be influenced strongly

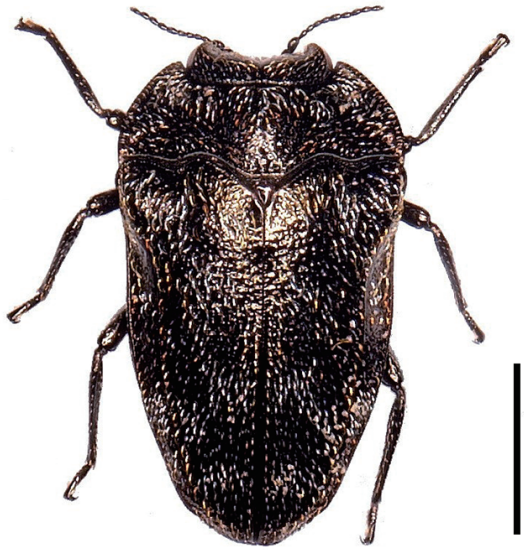

Fig. 1. *Habroloma* (*Parahabroloma*) *marginicolle* (FAIRMAIRE) from Mie Pref., Honsnu, Japan. Scale: 1.0 mm.

by the Kuroshio in the formation processes, with many elements in common to Shikoku, Kyushu, and the Nansei Islands. (NARUKAWA *et al*., 2006).

Based on available data at that time for the distribution patterns among Japanese *Trachys* and *Habroloma* species, KUROSAWA (1980) mentioned that the current distribution range of *H*. (*P*.) *marginicolle* was formed by marine drift affected by the Kuroshio, as was done in some *Trachys* species such as *T*. *robustus* E. SAUNDERS, 1873 feeding exclusively on *Castanopsis sieboldii* (Fagaceae) and occurring in Honshu (Kantô District), the Izu Isls., Shikoku, and Kyushu including Tsushima Is. Until the present study, *H*. (*P*.) *marginicolle* associated with *Rubus sieboldii* (Rosaceae) had been known from Shikoku in the north to the Osumi Islands in the south.

Also, KUROSAWA (1980) supposed that possible drifting distance of *Rubus sieboldii* as a shrub is much shorter than that of *Castanopsis sieboldii* as a large tree. For that reason, he considered that *Trachys robustus* associated with *C*. *sieboldii* is distributed more to the north on the Pacific side of mainland Japan than *H*. (*P*.) *marginicolle* associated with *R*. *sieboldii* and limted in Shikoku and southward.

Differing from the KUROSAWA's consideration, however, we revealed the occurrence of *H*. (*P*.) *marginicolle* in the Kii Peninsula, Honshu, breaking the northern limit of the distribution of the species. Our finding strongly suggests that this species may occur further east at least on the Pacific side of Honshu, an area from the Kii Peninsula to the west of the Izu Peninsula, where the host plant, *R*. *sieboldii*, is distributed (SUGIMOTO, 1984; OHASHI *et al*., 1989). Moreover, *R*. *sieboldii* occurs also in Chûgoku District on the Japan Sea side of Honshu, with the northern limit in western Shimane Prefecture (Shimane Prefecture, 2013). Therefore, further survey is required to elucidate the distribution range of *H*. (*P*.) *marginicolle*.

References

BELLAMY, C. L., 2008. A World Catalogue and Bibliography of the Jewel Beetles (Coleoptera: Buprestoidea), **4**. *Pensoft Series Faunistica*, (79). Pp. 1932–2684. Pensoft Publishers, Sofia-Moscow.

FAIRMAIRE, L., 1888. Coléoptères de l'intérieur de la Chine. *Annales de la Société entomologique de Belgique*, **32**: 7–46.

KERREMANS, C., 1892. Catalogue synonymique des Buprestides decrits de 1758 à 1890. *Mémoires de la Société entomologique de Belgique*, **1**: 1–304.

Kerremans, C., 1903. Coleoptera Serricornia, Fam. Buprestidae. Pp. 1–338. *In* Wytsman, P. (ed.), *Genera Insectorum*, Fasc. 12–14. 474 pp. Verteneuil & Desmet, Bruxelles.

Kubáň, V., 2006. Tribe Chrysochroini. Pp. 344–345. *In* Löbl, I., & A. Smetana (eds.), *Catalogue of Palaearctic Coleoptera*, **3**. *Scarabaeoidea*, *Scirtoidea*, *Dascilloidea*, *Buprestoidea and Byrrhoidea*. 690 pp. Apollo Books, Stenstrup.

Kubáň, V., 2016. Subfamily Agrilinae (except Agrilus and Aphanisticina). Pp. 524–574. *In* Löbl, I., & D. Löbl (eds.), *Catalogue of Palaearctic Coleoptera*, **3**. *Revised and updated edition*. *Scarabaeoidea*, *Scirtoidea*, *Dascilloidea*, *Buprestoidea and Byrrhoidea*. 983 pp. Brill, Leiden/Boston.

Kurosawa, Y., 1959. A revision of the leaf-mining buprestid-beetles from Japan and the Loo-Choo Islands. *Bulletin of the National Science Museum*, *Tokyo*, **4** (2): 202–268.

Kurosawa, Y., 1980. The effect of the Kuroshio Current on the distribution of three Japanese leaf-mining buprestid beetles. *Memoirs of the National Science Museum*, *Tokyo*, (13): 45–51. (In Japanese, with English title and summary.)

Lan, Y.-C., & S. Ohmomo, 2015. A survey of jewel beetles (Coleoptera, Buprestidae) in the southern area of Taiwan. *Elytra*, *Tokyo*, (n. ser.), **5**: 97–107.

Morimoto, K., & N. Hayashi, 1986. The Coleoptera of Japan in Color, 1. 317 pp. Hoikusha, Osaka. (In Japanese, with English book title.)

Narukawa, N., H. Ichihashi, M. Nakanishi & H. Kawakita, 2006. [Insect Fauna of the Kumanonada Costal Laurel Forest.] 285 pp. Mie Konchû Danwakai, Matsusaka. (In Japanese.)

Obenberger, J., 1918. Revision der paläarktischen Trachydinen (Coleoptera-Buprestidae), mit Einschluss einiger Beschreibungen exotischer Arten. *Archiv für Naturgeschichte*, **82** (A) (1916), (11): 1–74.

Obenberger, J., 1926. Buprestidae. Pp. 625–663. *In* Winkler, A. (ed.), *Catalogus Coleopterorum regionis Palaearcticae*, Pars 6. 128 pp. Vienna.

Obenberger, J., 1937. Buprestidae 6. Pp. 1249–1714. *In* Junk, W., & S, Schenkling (eds.), *Coleopterorum Catalogus*, **13**, Pars 157. 466 pp. Verlag für Naturwissenschaften, 's-Gravenhag.

Ohashi, H., Y. Momiyama & H. Ohba, 1989. Rosaceae. Pp. 179–228, pls. 196–252. *In* Satake, Y., H. Hara, S. Watari & T. Tominari (eds.), *Wild Flowers of Japan — Woody Plants*, I. 321 pp., 304 pls. Heibonsha, Tokyo.

Ohmomo, S., & H. Fukutomi, 2013. The Buprestid Beetles of Japan. *Iconographic Series of Insects*, **7**. 206 pp. Mushi-sha, Tokyo. (In Japanese, with English book title.)

Shimane Prefecture, 2013. Shimane Red Data Book 2013. 254 pp., 18 pls. Shimane-ken Kankyôseikatsu-bu Shizenkankyô-ka, Matsue. (In Japanese.)

Sugimoto, J., 1984. Flora of Shizuoka Prefecture. 830 pp. Daiichihôki Shuppan, Tokyo. (In Japanese.)

Manuscript received 2 September 2017;
revised and accepted 7 November 2017.