

New Distribution Records of Four Leaf Beetles (Coleoptera, Chrysomelidae) from Yonaguni-jima Is., the Ryukyu Isls., Japan

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Abstract *Trachytetra collaris* (KIMOTO) (Coleoptera, Chrysomelidae, Galerucinae) is newly recorded from Yonaguni-jima Is. in the Ryukyu Isls. as the first record from Japan. *Chlamisus yakushmanus* OHNO (Cryptocephalinae), and *Argopistes coccinelliformis* CSIKI and *Hespera lomasa* MAULIK (Galerucinae) are also recorded from Yonaguni-jima Is. for the first time.

Yonaguni-jima Is. belonging to the Yaeyama Isls. is a small island with an area of ca. 29 km². This island is located in the westernmost part of the Ryukyu Isls., Japan and in ca. 105 km northeast of Taiwan. About 50 leaf beetles including two endemic taxa, *Colaspoides kasaharai* KOMIYA, 1991 and *Cryptocephalus perelegans yonaguniensis* KIMOTO, 1974, have been recorded from this island (AZUMA & KIMOTO, 1978; FUJIMOTO, 1997; KIMOTO, 1994; KIMOTO & GRESSITT, 1966; KOHAMA & ANDO, 2018; SHIGETOH *et al.*, 2020; SUENAGA, 2020; TAKIZAWA, 2005; TSURU *et al.*, 2002). However, the chrysomelid fauna of Yonaguni-jima Is. has not been satisfactorily elucidated until now.

In order to improve our knowledge of the chrysomelid fauna of Yonaguni-jima Is., we recently conducted field and specimens surveys. In this study, four chrysomelid species are newly recorded from the island, including one new for Japan.

Classification and nomenclature follow a recent catalog edited by LÖBL and SMETANA (2010). Specimens used in this study are deposited in the following collections: M. MINAMI private collection, Tokyo, Japan (MMPC); H. SHIGETOH private collection, Okinawa, Japan (HIPC); H. SUENAGA private collection, Okayama, Japan (HAPC).

New Distribution Records of Leaf Beetles from Yonaguni-jima Is.

Family **Chrysomelidae** LATREILLE, 1802

Subfamily **Cryptocephalinae** GYLLENHAL, 1813

Chlamisus yakushmanus OHNO, 1961

[Japanese name: Yakushima-kobu-hamushi]

(Fig. 1 a & b)

Chlamisus yakushmanus OHNO, 1961: 1 [type locality: Yaku-shima Is., Japan; on *Castanopsis* sp.]; KIMOTO, 1964: 159 [Shikoku]; KIMOTO & GRESSITT, 1966: 498 [Okinawa-jima Is.]; IMASAKA, 1979: 15 [Ishigaki-jima Is.]; IMASAKA & HAYASHI, 2011: 183 [keys].

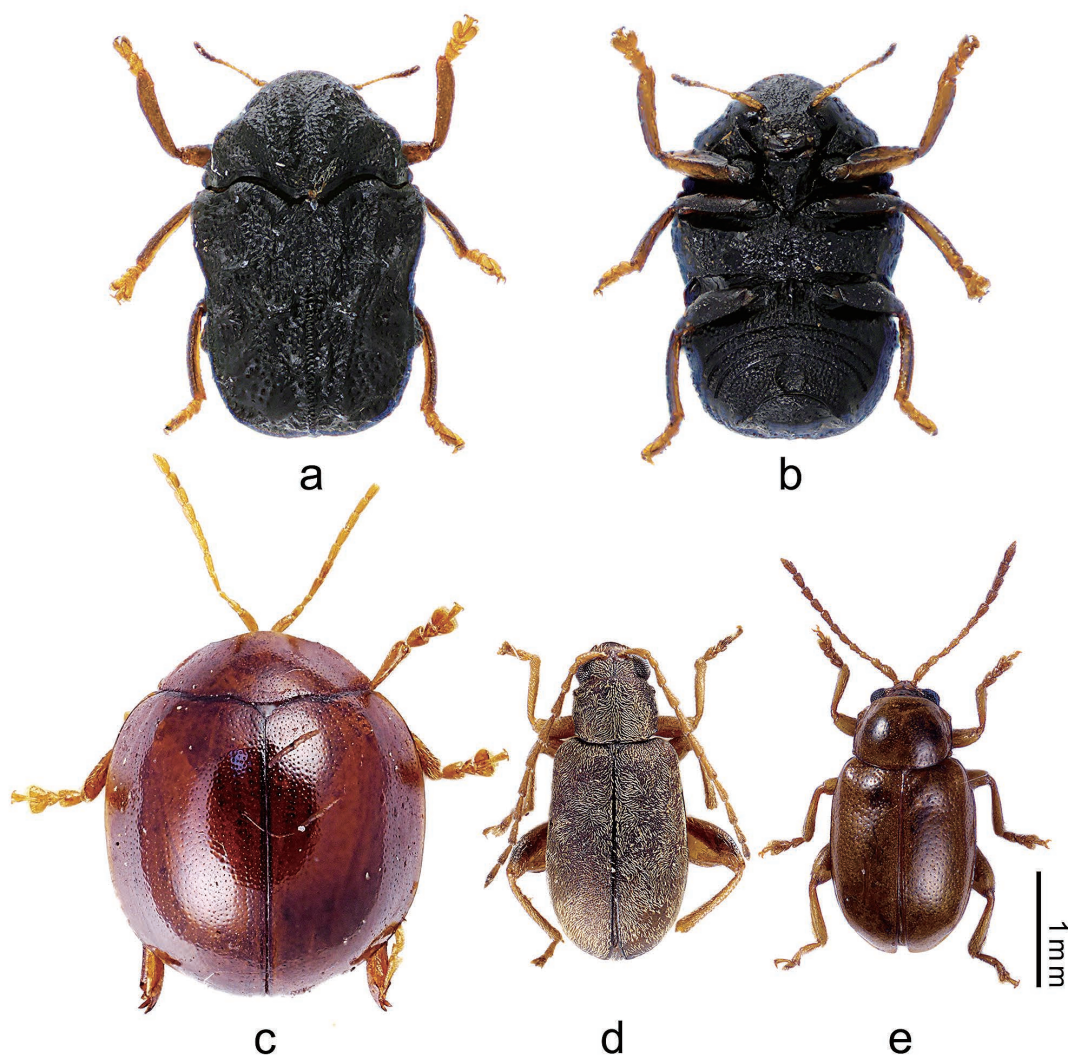


Fig. 1. Leaf beetles from Yonaguni-jima Is., the Ryukyus, Japan. — a & b, *Chlamisus yakushmanus* OHNO (a, dorsal view; b, ventral view); c, *Argopistes coccinelliformis* CSIKI, dorsal view; d, *Hespera lomasa* MAULIK, dorsal view; e, *Trachytetra collaris* (KIMOTO), dorsal view.

Distribution. Japan (Shikoku, Yaku-shima Is., Okinawa-jima Is., and Ishigaki-jima Is.; Yonaguni-jima Is. — new record).

Specimens examined. Japan: Yonaguni-jima Is.: 1 ex. (Fig. 1 a & b), Yonaguni, Yonaguni-chô, 5.V.2017, H. SUENAGA leg. (MMPC); 2 exs., Mt. Kubura-dake, Yonaguni-chô, 6.V.2017, H. SUENAGA leg. (HAPC).

Remarks. New for Yonaguni-jima Is. All specimens were collected from leaves of *Machilus thunbergii* (Lauraceae) by the sweeping and the beating.

Subfamily **Galerucinae** LATREILLE, 1802***Argopistes coccinelliformis*** CSIKI, 1940

[Japanese name: Heriguro-tentô-nomi-hamushi]

(Fig. 1 c)

Argopistes coccinelloides BALY, 1874 (nec SUFFRIAN, 1868): 202 [type locality: Japan]; CHÛJÔ, 1935: 87 [Okinawa-jima Is.]; MIWA, 1935: 24 [Amami-Ôshima Is.].

Argopistes biplagatus: SCHÖNFELDT, 1890: 175 [Loochoos]; CHEN, 1934: 315 [China & Vietnam (Tonkin)]; CHÛJÔ, 1936 b: 110 [Formosa]; 1942: 63 [China (Kwantung)]; GRESSITT, 1955: 41 [Chichi-jima Is. & Ani-jima Is.].

Argopistes coccinelliformis CSIKI, 1940, in HEIKERTINGER & CSIKI, 1940: 524 [new name for *A. coccinelloides* BALY; type locality: Japan]; CHÛJÔ, 1961: 89 [Amami-Ôshima Is.]; GRESSITT & KIMOTO, 1963: 812 [China]; KIMOTO, 1965: 436 [Honshu, Shikoku, Kashiwa-jima Is. & Kyushu]; OHNO *et al.*, 1967: 78 [Miyake-jima Is.]; OHNO & HIRANO, 1970: 38 [Yaku-shima Is.]; KIMOTO, 1982: 70 [Chichi-jima Is.]; LEE, 1992: 290 [description of larva]; KIDO, 2007: 56 [Okinoshima Is.]; KARUBE & MATSUMOTO, 2008: 139 [Minami-iwo-tô Is.]; ASTON, 2009: 10 [Hong Kong]; IMASAKA, 2019: 35, 90 [Kamikoshiki-jima Is. & Shimokoshiki-jima Is.]; SHIGETO, 2019: 23 [Tonaki-jima Is.]; NAITOU & IMASAKA, 2019: 56 [Okinoerabu-jima Is. & Kitadaitô-jima Is.].

Argopistes coccinelliformis [sic!]: KOMIYA, 1964: 323 [Hachijô-jima Is.].

Distribution. Japan (Honshu, Miyake-jima Is., Hachijô-jima Is., Chichi-jima Is., Ani-jima Is., Minami-iwo-tô Is., Shikoku, Okinoshima Is., Kashiwa-jima Is., Kyushu, Kamikoshiki-jima Is., Shimokoshiki-jima Is., Yaku-shima Is., Amami-Ôshima Is., Okinoerabu-jima Is., Okinawa-jima Is., Tona-ki-jima Is., and Kitadaitô-jima Is.; Yonaguni-jima Is. — new record); China (including Hong Kong), Taiwan, and Vietnam.

Specimens examined. Japan: Yonaguni-jima Is.: 1 ♂ (Fig. 1 c), 1 ex., Kita-bokujô, 28.III.2001, S. TSUYUKI leg. (HAPC).

Remarks. New for Yonaguni-jima Is. This species is known to feed on leaves of *Osmanthus fragans*, *O. heterophyllus*, and *O. fortunei* (Oleaceae) growing in parks and gardens in Honshu, Shikoku, and Kyushu (TAKIZAWA, 2012). On the other hand, host plant of this species in the Ryukyu Isls. is not known.

Hespera lomasa MAULIK, 1926

[Japanese name: Shirohige-tobi-hamushi]

(Fig. 1 d)

Allomorpha sericea JACOBY, 1892 (nec WEISE, 1889): 934 [type locality: “Carin Chebà”, Burma].

Hespera lomasa MAULIK, 1926: 142 [new name for *A. sericea* JACOBY; type locality: Burma, India & Ceylon]; CHEN, 1932: 197 [key]; 1933: 52 [China]; 1934: 343 [China, Vietnam (Tonkin), Burma, India & Ceylon]; KIMOTO & GRESSITT, 1966: 546 [Ishigaki-jima Is.]; SCHERER, 1979: 131 [Bhutan]; KIMOTO, 2000: 136 [Laos, Thailand & Vietnam]; MOHAMEDSAID, 2000: 357 [Malaysia]; KIMOTO & TAKIZAWA, 2002: 146 [Nepal]; ASTON, 2009: 8 [Hong Kong]; SHIGETO & YOSHITAKE, 2018: 36 [Yoro-jima Is.]; SHIGETO, 2020 a: 44 [Tsukun-jima Is.]; 2020 b: 155 [Yoron-jima Is.].

Hespera rufotibialis CHÛJÔ, 1936 a: 87, 88 [type locality: “Musha (Taichû-Shû)”, Taiwan].

Hespera insulana CHÛJÔ, 1936 a: 87, 89 [type locality: “Bôko-tô (Pescadore Is.)”, Taiwan].

Hespera auripilosa CHÛJÔ, 1936 a: 87, 90 [type locality: “Musha (Taichû-Shû)”, Taiwan]. Synonymized by KUNG & CHEN (1954: 151).

Hespera formosana CHÛJÔ, 1936 a: 87, 90 [type locality: “Arisan (Tainan-Shû)” & “Musha (Taichû-Shû)”, Taiwan]; NAKANE & KIMOTO, 1961: 78 [Nakanoshima Is.]; KIMOTO, 1965: 434 [Miyako-jima Is.]. Synonymized by KUNG & CHEN (1954: 151).

Hespera auripilosa loochooana CHÛJÔ, 1957: 6 [type locality: Naze, Amami-Ôshima Is., Japan], 1958: 12 [Okinawa-jima Is.]. Synonymized by KIMOTO & GRESSITT (1966: 546).

Hespera formosana albopilosa CHÛJÔ, 1957: 7 [type locality: Shinmura to Akatsuchi-yama, Amami-Ôshima Is., Japan]. Synon-

ymized by KIMOTO (1965: 434).

Distribution. Japan (Nakanoshima Is., Amami-Ōshima Is., Yoro-jima Is., Yoron-jima Is., Okinawa-jima Is., Tsuken-jima Is., Miyako-jima Is., and Ishigaki-jima Is.; Yonaguni-jima Is. — new record); Bhutan, China (including Hong Kong), India, Laos, Malaysia, Myanmar, Nepal, Sri Lanka, Taiwan, Thailand, and Vietnam.

Specimens examined. Japan: Yonaguni-jima Is.: 4 exs. (Fig. 1 d), Mt. Urabu-dake, Yonaguni-chō, 23.V.2017, S. SHIMAMOTO leg. (HIPC).

Remarks. New for Yonaguni-jima Is. This species has been recorded as the pest of mulberry (Moraceae) in the Ryukyu Is. (AZUMA & KINJO, 1981).

Trachytetra collaris (KIMOTO, 1996)

[Japanese name: Kogecha-arahada-tobi-hamushi]

(Fig. 1 e)

Trachyaphthona collaris KIMOTO, 1996: 45 [type locality: Alishan & Yangminshan, Taiwan].

Trachytetra collaris: DÖBERL, 2010: 561 [in catalog].

Distribution. Japan (Yonaguni-jima Is. — new record); Taiwan.

Specimen examined. Japan: Yonaguni-jima Is.: 1 ♀ (HS-17-41; Fig. 1 e), Mt. Inbi-dake, Yonaguni-chō, 6.V.2017, H. SUENAGA leg. (HAPC).

Remarks. New for Japan. The genus *Trachyaphthona* HEIKERTINGER, 1924 was synonymized with *Trachytetra* SHARP, 1886 by KONSTANTINOV and PRATHAPAN (2008). After this work, *Trachytetra collaris* was listed in DÖBERL (2010). This species had been known only from Taiwan until this study.

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要 約

末長晴輝・重藤裕彬：与那国島におけるハムシ科甲虫（鞘翅目）4種の分布記録。——与那国島からは、これまでにカサハラミドリサルハムシ *Colaspoides kasaharai* KOMIYA とキボシツツハムシ与那国島亜種 *Cryptocephalus perelegans yonaguniensis* KIMOTO の2固有種・亜種を含む、約50種のハムシ科甲虫が記録されている。本論文では、国内初記録種であるコゲチャアラハダトビハムシ *Trachytetra collaris* (KIMOTO) を与那国島から報告したほか、ヤクシマコブハムシ *Chlamisus yakushmanus* OHNO とヘリグロテントウノミハムシ *Argopistes coccinelliformis* CSIKI, シロヒゲトビハムシ *Hespera lomasa* MAULIK を同島から初めて記録した。

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