

## Additional Records of *Metapocyrtus (Trachycyrtus) yonagunianus* CHÛJÔ (Coleoptera, Curculionidae, Entiminae) from the Okinawajima Islands in the Central Ryukyus, Southwestern Japan

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*Metapocyrtus (Trachycyrtus) yonagunianus* CHÛJÔ, 1971, a Pachyrhynchini weevil which was originally endemic to Yonagunijima Island in the southern Ryukyus, is known as a domestic alien species introduced from the island to Urasoe in the south part of Okinawajima Island, the Okinawa Islands, central Ryukyus (AOYAGI, 2009). It is thought that this species was brought into Okinawajima Island with *Peucedanum japonicum* var. *japonicum* (Apiaceae; Botanbôfû or Chômeisô in Japanese) imported from Yonagunijima Island as an ingredient of health food and beverage (T. KOHAMA, 2018, pers. comm.).

About ten years have passed after the introduction of *M. (T.) yonagunianus* to Okinawajima Island, but the current distribution of this species in the island is unclear (MORIMOTO, 2015). In this short report, I provide additional records of this species from the Okinawa Islands. Plant nomenclature follows YONEKURA and KAJITA (2003–).

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### *Metapocyrtus (Trachycyrtus) yonagunianus* CHÛJÔ, 1971

[Japanese name: Yonaguni-akaashi-kata-zômushi]

*Metapocyrtus yonagunianus* CHÛJÔ, 1971, 35 (type locality: “Is. Yonaguni”); MORIMOTO, 1984, 282 (Yonagunijima Is.) & pl. 55-fig. 23 (dorsal habitus); MORIMOTO, 1989, 503 (cataloged; Yonagunijima Is.); STARR & WANG, 1992, 7 (similarity to *M. immeritus* BOHEMAN, 1845); SASAKI *et al.*, 2002, 279 (cataloged; Yonagunijima Is.); AOYAGI, 2009, 49 (Okinawajima Is.).

*Metapocyrtus (Trachycyrtus) yonagunianus*: KOJIMA & MORIMOTO, 2004, 125 (cataloged; “Japan (Ryukyus)”; YUNAKOV, 2013, 347 (cataloged; “A: JA (Ryukyus)”; MORIMOTO, 2015, 42-fig. 356 (dorsal habitus), pl. 109-figs. A–G (body parts) & 586 (diagnosis & distribution; “Ryukyus: Yonagunijima I., Okinawajima I. -introduced”); ALONSO-ZARAZAGA *et al.*, 2017, 337 (cataloged; “A: JA (Ryūkyū)”).

*Metapocyrtus immeritus sabtangensis* (nec SCHULTZE, 1925): MORIMOTO, 1963, 110 (listed), 113 (distribution pattern), 116 (figure caption: “Is. Yonakuni”) & pl. II-fig. F (dorsal habitus).

*Specimens examined.* Japan: the Ryukyus. [Okinawajima Is.] 23 exs., Kunigami, Okuma, 22.II.2020, H. YOSHITAKE leg., on *Bidens pilosa* var. *radiata*; 60 exs., Nago, Abu, 2.I.2020, H. YOSHITAKE & N. NAKAHARA leg., on *Bidens pilosa* var. *radiata*; 10 exs., Uruma, Ishikawa, Hizenbaru, 7.VI.2019, K. TAKAHASHI leg., on avocado leaves; 34 exs., Onna, Nakama, 29.XII.2019, H. YOSHITAKE & N. NAKAHARA leg., on *Bidens pilosa* var. *radiata*; 56 exs., Kitanakagusuku, Adaniya, 27.XI.2015, H. YOSHITAKE leg., on *Bidens pilosa* var. *radiata*; 11 exs., Nishihara, Campus of University of the Ryukyus, 14.XII.2019, H. YOSHITAKE, K. ROPPOGI & T. KOMATSU leg., on hibiscus; 11 exs., Urasoe, Urasoe-daikôen, 20.XI.2010, T. MATSUMURA leg. [Henzajima Is.] 17 exs., Uruma, Henza, near Kankô Business Hotel Heian, 26.II.2019, H. YOSHITAKE leg.

*Distribution.* Japan: the Ryukyus (Yonagunijima Island; introduced to the islands of Okinawajima and Henzajima).

*Biological notes.* On Okinawajima Island, adults of this species most prefer to feed on the leaves of an alien

weed, *Bidens pilosa* var. *radiata* (Asteraceae; Ôbananosendangusa in Japanese), but feeds also on leaves of various plants such as planted hibiscus and avocado (Malvaceae and Lauraceae, respectively).

**Notes.** This flightless weevil with low dispersal ability apparently expanded its distribution range in Okinawajima Island during the past decade, probably due to human activities such as soil and plant transportation, and now can be widely found from the north to south part of the island. The discovery of this species from Henzajima Island, which is a small island connected by a bridge with Okinawajima Island, strongly suggests its possible expansion to other bridge-connected islands with the mainland Okinawa. It is necessary to keep monitoring the distribution expansion of this species in the central Ryukyus, especially in the Okinawa Islands.

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