

New Record of Dytiscid Beetle (Coleoptera, Dytiscidae) from Kuchino-shima Island in the Tokara Islands, the Ryukyu Archipelago, Japan

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The Tokara Islands, which is located on the northernmost part of the Ryukyu Archipelago (the Nansei Islands) and consist of 12 small islands, is an area of zoogeographical border of the Oriental and the Palaearctic Regions. Although freshwater habitat is restricted in those small islands, a total of 27 species of the family of aquatic beetles, Dytiscidae (Coleoptera), has been recorded in this area (NAKAJIMA, 2003; HOSOYA *et al.*, 2009; HOSOYA, 2011). However, the collection records of Dytiscidae has been biased to three islands: 21 species from Nakano-shima, 17 species from Takara-jima and three species from Akuseki-jima in the Tokara Islands (NAKAJIMA, 2003; HOSOYA *et al.*, 2009; HOSOYA, 2011).

Here we report a new record of Dytiscidae in Kuchino-shima Island. A dytiscid beetle, *Copelatus zimmermanni* (GSCHWENDTNER, 1934), was collected at 8–10 pm by using a curtain light-trap equipped with two 18-watt fluorescent lamps and two 20-watt chemical fluorescent lamps powered by a dynamo, and two 55-watt high intensity discharge (HID) lamps with lithium-ion batteries. This research was performed under the permission of insect collection by Toshima Village.

Copelatus zimmermanni GSCHWENDTNER, 1934

Specimen examined. 1 ex., the entrance to Seranma hot spring, Kuchino-shima Island, the Tokara Islands, Kagoshima Pref., Japan, (N29°57'22.9", E129°55'43.4", alt. 165 m), by light-trap, 14.VII.2012, T. HOSOYA & M. TANAHASHI leg. New to Kuchino-shima Island.

Copelatus zimmermanni is distributed in Honshu, Kyushu, Okinoerabu-jima and Kume-jima Islands in the Ryukyu Archipelago and southern China (MORI & KITAYAMA, 2007). This species has been recorded from Nakano-shima Island in the Tokara Islands (MATSUI *et al.*, 1988; MORI & KITAYAMA, 2007; HOSOYA *et al.*, 2009; HOSOYA, 2011).

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