



## The genus *Ugandatrichia* Mosely (Trichoptera, Hydroptilidae) in Japan

TOMIKO ITO<sup>1</sup> & AYUKO OHKAWA<sup>2</sup>

<sup>1</sup>Hokkaido Aquatic Biology, Hakuyo-cho, 3-3-5, Eniwa, Hokkaido, 061-1434 Japan. E-mail: tobikera@siren.ocn.ne.jp

<sup>2</sup>The University of Tokyo Hokkaido Forest, Yamabe, Furano, Hokkaido, 079-1563 Japan

### Abstract

The tropical-subtropical caddisfly genus *Ugandatrichia* Mosely (Hydroptilidae) is recorded from Japan for the first time, with 2 species. *Ugandatrichia nakijinensis* Ito **sp. nov.** is described from Okinawa-jima and Amami-oshima, in the south of Japan, based on adults and immature stages. *Ugandatrichia taiwanensis* Hsu and Chen, originally described from Taiwan, is recorded and redescribed based on material from Iriomote-jima and Ishigaki-jima, in the southernmost part of Japan. Larvae of both live on smooth rock surfaces in very fast flowing waters.

**Key words:** new species, new record, adult, larva, Taiwan

### Introduction

*Ugandatrichia* Mosely, 1939, is a tropical and subtropical genus of Hydroptilidae, Trichoptera, and is distributed in the Oriental (19 species), Afrotropical (11 species) and Australasian (1 species) regions (Morse, 2012), but was not known previously in Japan (Ito, 2012). In this paper, the genus is recorded from southern Japan for the first time with the description of a new species and new record of a Taiwanese species.

### Material and methods

Association of adult and immature stages was established by rearing larvae to adults or from observation of mature pupae enclosed in cases with their larval exuviae. Male and female genitalia were figured after treatment in dilute KOH. Morphological terms mainly follow Wells and Dudgeon (1990) for adults, Wiggins and Currie (2008) for pupae and Wiggins (1996) and Malicky (1999) for larvae. The type series of the new species are deposited in the collections of the Natural History Museum and Institute, Chiba (CBM–ZI). Other specimens are deposited in the collection of the first author. All specimens are preserved in 70–80% ethyl alcohol. Collection methods and collectors are abbreviated as follows: S, sweep netting; AO, Ayuko Ohkawa; TI, Tomiko Ito.

### Genus *Ugandatrichia* Mosely, 1939

*Ugandatrichia* Mosely, 1939, 36, Kenya. Type species: *Ugandatrichia minor* Mosely, by original designation.

*Moselyella* Kimmins, 1951, 195–196. Type species: *Ithytrichia violacea* Morton, by original designation and monotypy. Synonymized by Schmid (1960).

*Ugandatrichia*: Marshall, 1979, 195, 198–199.

**Adult.** Head with pairs of large ellipsoidal dorsal setal warts, gently curved long dorso-lateral warts and small round postero-lateral warts; antennae usually long, 30–37 segments, ocelli 3. Maxillary palpi 5-segmented, 2 basal segments short, other segments cylindrical, apical segment longest; labial palpi 3-segmented, basal segment short, other segments cylindrical. Pronotum with pairs of round mesal warts and round lateral warts; mesoscutellum diamond-shaped.