



## The genus *Eobrachycentrus* Wiggins (Trichoptera, Brachycentridae) in Japan

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### Abstract

Japanese species of the genus *Eobrachycentrus* are revised, and only 2 species are recognized: *E. vernalis* (Banks 1906) and *E. niigatai* (Kobayashi 1968). *Eobrachycentrus oharensis* (Iwata 1927) and *E. propinquus* Wiggins *et al.* 1985 are synonymized with *E. vernalis* and *E. niigatai*, respectively. Adults and immature stages of these 2 species are described or redescribed. Information on the larval habitat and biology is provided.

**Key words:** Trichoptera, Brachycentridae, *Eobrachycentrus*, Japan, taxonomy, biology

### Introduction

The genus *Eobrachycentrus* Wiggins is a small genus composed of only 5 named species from Japan and North America (Morse 2009). In Japan, although 4 *Eobrachycentrus* species have been recorded from Hokkaido, Honshu and Kyushu, adults of *E. oharensis* (Iwata 1927) are not yet known (Nozaki 2009). Furthermore, Wiggins *et al.* (1985) pointed out the necessity of critical study to confirm the specific status of *E. niigatai* (Kobayashi 1968).

To solve these taxonomic problems, I examined extensive material of *Eobrachycentrus* and recognized only 2 species in the Japanese fauna. In this paper, I describe or redescribe adults, larvae and pupae of these 2 species. Information on the larval habitat and biology is also provided.

### Material and methods

Male and female genitalia and some larval characters were figured after being cleared in a 10% solution of KOH. Larval characters described are based on final instar larvae. Morphological terms mainly follow Schmid (1998) for the adults and Wiggins (2004) for the larvae and pupae. Depositories of the specimens are abbreviated as follows: Natural History Museum and Institute, Chiba (CBM); the Kyoto University Museum, Kyoto (KUM); N. Kuhara, Chitose (KN). For the specimens deposited in the author's own collection, the name is omitted in the list.

### *Eobrachycentrus vernalis* (Banks 1906)

Figs 1, 3, 5

*Brachycentrus vernalis* Banks 1906, 108, male.

*Micrasema oharensis* Iwata 1927, 391–392, larva, case. **Syn. nov.**