

SCIENTIFIC NOTE

NEW SYNONYMS OF *SERRATELLA JINGHONGENSIS*
(EPHEMEROPTERA: EPHEMERELLIDAE) FROM CHINA¹C. F. Zhou,² Luke M. Jacobus,³ and W. P. McCafferty³

Xu et al. (1984) described *Serratella jinghongensis* (Xu, You, and Hsu) (Ephemeroptera: Ephemerellidae) based on adults from Yunnan Province, China. They placed their new species in the genus *Ephemerella* Walsh, *sensu lato*, and subgenus *Serratella* Edmunds. The species has since been listed in the genus *Serratella*, following the precedent of Tshernova (1972) and Allen (1980). *Serratella* is part of the subfamily Ephemerellinae of the Ephemerellidae (McCafferty and Wang 2000).

Based on our examination of *S. jinghongensis* type material, we discovered that the apparent distinctiveness of the hindwing of *S. jinghongensis* (cf. e.g., Xu et al. 1984: Fig. 3) is an artifact of incorrect illustration. Rather than having greatly reduced venation and a prominent costal process, as indicated in the original illustration, the actual hindwing (Fig. 1) instead is the same as that of *S. albostrata* Tong and Dudgeon and *S. hainanensis* She, Gui, and You. Additional examination of the types of each of these three species described from southeastern China (Xu et al., 1984, She et al., 1995, Tong and Dudgeon 2000) revealed no differences in structure or color. Furthermore, larvae associated with *S. jinghongensis* adults from Yunnan Province are indistinguishable from those of *S. albostrata* (Tong and Dudgeon 2000: Figs. 1, 3–12). In light of all the evidence presented above, we consider *S. albostrata* and *S. hainanensis* junior subjective synonyms of *S. jinghongensis* and provide the following synonymy. In the synonymy given below, T₂ refers to a provisional designation.

Serratella jinghongensis (Xu, You, and Hsu, 1984: 413)*Ephemerella* T₂ Dudgeon, 1982: 225.*Serratella* T₂ Dudgeon, 1990: 225.*Ephemerella jianghongensis* Xu, You, and Hsu: You and Gui, 1995, **misspelling**
Uracanthella sp. Dudgeon, 1999: 270.*S. hainanensis* She, Gui, and You 1995: 77, **new synonym***S. albostrata* Tong and Dudgeon, 2000: 198, **new synonym**

Material Examined. Types: *S. jinghongensis* holotype, MA (male adult), and paratypes, 2MA, 1MS (subimago), and 5FA (female adults), China, Yunnan Province, Jinghong City, VIII-1979, H Gui, J-Z Xu [deposited in the Nanjing Normal University Mayfly Research Collection, Nanjing, P. R. China (NNU)]. *S. hainanensis* holotype, MA, and paratype, IMA, China, Hainan Province, Diaolu Mt., 27/29-V-1986, J Zhang, S-S She [NNU]. *S. albostrata* paratypes, 2L (larvae), China, Hong Kong, Pak Ngau Shek, 8-I-1999, X Tong; paratype, IMA, Hong Kong, Tai Mo Shan, Tai Tso Stream, 10-IX-1987, D Dudgeon [Purdue University Entomological Research Collection, West Lafayette, Indiana, USA]. Other materials

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[NNU]: China, Guizhou Province, 10MA, 10FA, 5MS, Guiding Co., Changming village, 9-IX-2000, C-R LI, C-F Zhou (ZCF); 5MA, 20FA, Wangmu Co., Sanglang village, 16-IX-2000, C-R LI, ZCF. Yunnan Province, 6MA, 2FA, Jinghong City, V-1981; 20MA, 10FA, Jinghong City, Xishanbenan, X-1979, H Gui, J-Z Xu; 5MA, 2FA, 3MS, 60L, Jinghong Co., Puwen village, 2-IV-2001, ZCF; 10MA, 10MS, 70L, Menla Co., Menxin village, 20-III-2001, ZCF; 12MA, 12L, Menla Co., Menlun village, 24-III-2001, ZCF; 15MA, 10FA, 8L, Menla Co., Menban village, 28-III-2001, ZCF; 5MA, 10MS, 10FA, 20L, Jingu Co., Fengshan village, 8-IV-2001, ZCF; 6L, Jingdong Co., Longjie village, 12-IV-2001, ZCF; 4L, Jingdong Co., Jingdong town, Juehe creek, 16-IV-2001, ZCF.

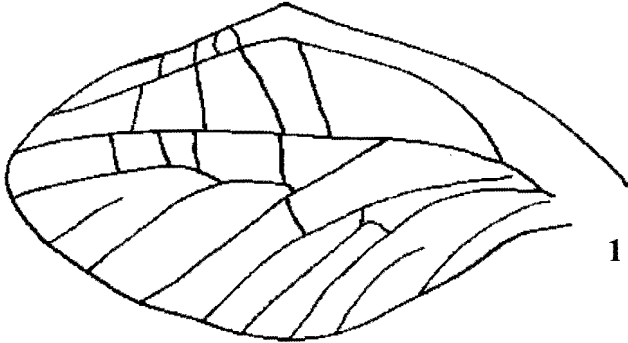


Fig. 1. *Serratella jinghongensis* hindwing, male adult.

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