



Two new species of *Coenagrion* Kirby, 1890, from China (Odonata: Zygoptera: Coenagrionidae)

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Abstract

Two new species of *Coenagrion* Kirby (*Coenagrion aculeatum*, **sp. nov.**, holotype male, China, Chongqing, Jiangjin, 23-V-2001, deposited in Life Sciences College of Hebei University, Baoding, China; and *C. tengchongensis*, **sp. nov.**, holotype male, China, Yunnan, Tengchong, Zhengding, 1800m, 15-VIII-2006, deposited in Institute of Entomology, Nankai University, Tianjin, China) are described, and diagnostic figures of caudal appendages and genital ligulae are provided.

Key words: Odonata, *Coenagrion*, China, new species

Introduction

Coenagrion was established by Kirby (1890) to accompany some species different from the inclusive genus *Agrion* Fabricius (1775). Bridges (1994) and Tsuda (2000) listed 38 species of *Coenagrion*. In 2000, Zhu and Ou-yang added one species (*C. bifurcatum*) to *Coenagrion*. Twelve species of *Coenagrion* are known from China (Yang, 1998; Tsuda, 2000; Zhu, 2000; Dumont, 2003): *C. armatum* (Charpentier), *C. bifurcatum* Zhu and Ou-yang, *C. chusanicum* Navás, *C. dorothea* Fraser, *C. ecornutum* (Selys), *C. glaciale* (Selys), *C. hastulatum* (Charpentier), *C. holdereri* (Förster), *C. hylas* (Trybom), *C. johanssoni* (Wallengren), *C. lanceolatum* (Selys) and *C. lunulatum* (Charpentier). Here, we describe two new species, *Coenagrion aculeatum* and *Coenagrion tengchongensis* from Chongqing City and Yunnan province, China and provide diagnostic features for each species.

Coenagrion aculeatum sp. nov.

Material. Holotype: male, China, Chongqing, Jiangjin, 23-V-2001, Haijiang Yan leg. **Paratype:** 1 male, same data but 21-V-2001. **Holotype** will be deposited in Life Sciences College of Hebei University, Baoding, China. **Paratype** will be deposited in Institute of Entomology, Life Sciences College of Nankai University, Tianjin, China.

Etymology. Species epithet refers to the second pair of short spine-like lateral lobes (Battin, 1993) of the genital ligula.

Description. Male. Labium pale yellow. Labrum, bases of mandibles, genae, anteclypeus and frons blue; base of labrum and postclypeus black; top of head including antennae black, postocular spots blue, almost triangular; postoccipital stripe absent. Prothorax almost entirely black, blue laterally (Fig. 9); synthorax black