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Description of *Chlorogomphus auripennis* spec. nov. from Guangdong Province, with new records of Chlorogomphidae from Yunnan Province, China (Odonata: Chlorogomphidae)

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Abstract

A new chlorogomphid, *Chlorogomphus (Orogomphus) auripennis* spec. nov. (holotype male; Mt Nankunshan, Longmen County, Guangdong Province, China, 20. V. 2008) is described and illustrated. It is the first species belonging to the subgenus *Orogomphus* recorded from mainland China. The holotype will be deposited in the Collection of Aquatic Animals, Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan City, Hubei Province, China. *Chlorogomphus auratus* Martin, 1910 and *Chloropetalia selysi* (Fraser, 1929) are recorded from Chinese territory for the first time. The total number of Chlorogomphidae in China reaches 20. Description of the hitherto unknown female of *Chlorogomphus yokoi* Karube, 1995 is provided.

Key words: Odonata, Anisoptera, *Chlorogomphus*, new species, China

Introduction

The family rank of Chlorogomphidae has been further supported by Dijkstra et al. (2013). Followed by Karube (2013), *Orogomphus* Selys, 1878, was still treated as a subgenus of *Chlorogomphus* Selys, 1854. Recently, the richness of this family in China has been recognized. Until now, 18 species have been recorded from China (Zhang & Tong 2013). Among them, four species belong to the subgenus *Orogomphus*: *Chlorogomphus usudai* Ishida, 1996 from Hainan, *C. brevistigma* Oguma, 1926, *C. risi* Chen, 1950 and *C. splendidus* (Selys, 1878) from Taiwan. It seems that most members of this subgenus occur in islands, distributed in a relatively small range; the females are polymorphic and usually possess colorful wings, a good character for classification. In this paper, a new species collected from Nankunshan Mountains is described and illustrated. Being the first *Orogomphus* found in mainland China, it is also outstanding by the color pattern of the female wings.

Two additional species of the family, *Chlorogomphus auratus* Martin, 1910, and *Chloropetalia selysi* (Fraser, 1929) are recorded from Chinese territory for the first time, and the total number of Chlorogomphidae reaches 20 in China. Further records on *Chlorogomphus yokoi* Karube, 1995, are provided, including the description of the hitherto unknown female.

Description of new species

Chlorogomphus (Orogomphus) auripennis spec. nov.

Figures 1–11, 15–16

Material examined. Holotype male, Mt Nankunshan (23°38'N, 113°51'E), altitude 490 m, Longmen County, Guangdong Province, China, Haomiao Zhang leg., 20. V. 2008; Paratypes: 2♂ 2♀, same data as holotype. The

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