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 recoded from Chinese territory for the first time. The total number of Chlorogomphidae in China reaches 20. Description of the hitherto unknown female of Chlorogomphus yokoii 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 yokoii 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.
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References


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