



Article

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Periaeschna yazhenae sp. nov. from Fujian, China (Odonata: Anisoptera: Aeshnidae)

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Abstract

A new species of the genus *Periaeschna* Martin, *P. yazhenae* sp. nov. from Fujian, China is described, illustrated and diagnosed from its congeners. Description of the final stadium larva of the new species is also provided. The new species is closely similar to *P. zhangzhouensis* Xu 2007 due to the high similarity of anal appendages, but is easy to separate from that species by the following characters: distal 1/4 of cercus narrowest and with truncated apex; abdominal segments 1–9 with simpler and less developed dorsal markings and with more complicated and more developed ventrolateral and ventral markings; and wings tinted with brownish-black at extreme base.

Key words: Odonata, Aeshnidae, *Periaeschna*, new species, China

Introduction

The genus *Periaeschna* Martin presently includes 10 species (Schorr & Paulson 2012), which are distributed in Indo-China and Southeast Asia. Of these, 5 species have been reported from southern China (Wilson 2008): (1) *P. flinti* Asahina 1978 from Fujian, Guangdong, Jiangxi, Sichuan and Zhejiang; (2) *P. gerrhon* (Wilson 2005) from Guangdong and Guangxi; (3) *P. magdalena* Martin 1909 from Fujian, Guangdong, Guangxi, Hainan, Henan, Hubei, Jiangsu, Jiangxi, Sichuan, Taiwan and Zhejiang; (4) *P. mira* Navás 1936 from Jiangxi; and (5) *P. zhangzhouensis* Xu 2007 from Fujian and Guangdong. In the present paper, a new *Periaeschna* species is described, illustrated, and diagnosed from its congeners. The adult holotype of the new species was reared from a larva recently collected in the field. Description of the final stadium larva of the new species, based on the exuvia and photos of the reared larva, is also provided.

Descriptions

Periaeschna yazhenae sp. nov.

(Figs. 1–6, 14–15)

Specimen studied. Holotype: male, Nanjing County (24°38'N, 117°11'E), Fujian Province, China, emerged 02.V.2012 in laboratory. Type is deposited in Department of Biological and Environmental Engineering, Zhangzhou City University.

Etymology. The species is named in memory of my mother: Yazhen LIN.

A small-sized *Periaeschna* species with greenish-brown face and black or brownish-black body, coloured with greenish-yellow markings as shown in Figs. 14–15.

Head: Face greenish-brown. Labium, labrum, mandibles, maxillae, anteclypeus and postclypeus all greenish-brown. Frons dark greenish-brown but black above along the border of crest, which is cone-shaped at the middle. Vertex brownish-black, covered with long blackish hairs. Occiput black, coated with long blackish hairs. Width of frons a trifle less than half width of head. Frontal view of head as shown in Fig. 1.