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Redescription of the damsel-dragonfly Parafleckium senjituense on the basis of a more complete specimen (Odonata: Isophlebioptera: Campterophlebiidae)

YONGJUN LI^{1,2}, ANDRÉ NEL³, DONG REN^{1,4} & HONG PANG^{2,4}

¹College of Life Science, Capital Normal University, China

²Key Laboratory of Biodiversity Dynamics and Conservation of Guangdong Higher Education Institute, Sun Yat-Sen University, Guangzhou, China

³CNRS UMR 7205, CP 50, Entomologie, Muséum National d'Histoire Naturelle, 45 rue Buffon, F-75005 Paris, France ⁴Corresponding authors. E-mails: rendong@mail.cnu.edu.cn or lsshpang@mail.sysu.edu.cn

Parafleckium senjituense Li et al., 2012 is of great importance to clarify the phylogeny of the superfamily Isophlebioidea, as it has several significant structures considered as typical of either Campterophlebiidae or Isophlebiidae (Li et al. 2012). But the established genus and species was based on forewings only. We describe a new specimen, allowing precise description of some other important characters, especially those of the male hindwing. On the basis of this specimen, the diagnosis of Parafleckium senjituense is amended.

Material and methods

The study is based on one specimen (NO. CNU-ODO-ND2011018) housed in the Key Laboratory of Insect Evolution and Environmental Changes, Capital Normal University, Beijing, China. The specimen was examined with a Leica MZ12.5 dissecting microscope and illustrated with the aid of a drawing tube attached to the microscope. Line drawings were made using Adobe Photoshop CS graphic software.

The wing venation nomenclature used in this paper follows Riek (1976) and Riek and Kukalova-Peck (1984), as amended by Nel et al. (1993) and Bechly (1996). We use the following standard abbreviations: AA anal anterior, AP anal posterior, Ax1 Ax2 primary antenodal cross-veins, ScP subcosta posterior, CuAa distal branch of cubitus anterior, CuAb proximal branch of cubitus anterior, IR1, IR2 intercalary radial veins, MP median posterior, RA radius anterior and RP radius posterior.

Order Odonata Fabricius, 1793

Suborder Isophlebioptera Bechly, 1996

Superfamily Isophlebioidea Handlirsch, 1906

Family Campterophlebiidae Handlirsch, 1920

Genus Parafleckium Li et al., 2012

Type species. Parafleckium senjituense Li et al., 2012

Parafleckium senjituense Li et al., 2012 (Fig. 1)

Emended diagnosis. The original diagnosis was established on forewing alone. Here we add some characters. In forewing: distal area between RA and RP1 with two rows of cells and slightly widened; many secondary intercalary