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## *Ischnura foylei* sp. nov. (Odonata, Coenagrionidae) from the highlands of Sumatra

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### Abstract

*Ischnura foylei* sp. nov. is described from Indonesia, Sumatra, Jambi Province, Danau Gunung Tujuh (or Danau Sakti), a lake situated in an extinct volcanic crater, 1°41'15"S, 101°25'28"E, 1995 m a.s.l. Structurally it is close to *I. senegalensis* but larger and with differently shaped cerci in males and a more trilobate posterior lobe of the prothorax; males and androchromatic females have a unique colour pattern.

**Key words:** damselfly, Odonata; Zygoptera, Coenagrionidae, *Ischnura*, Sumatra, tropical highland Odonata

### Introduction

According to the most recent count by M. Shorr and D. Paulson (2015), the cosmopolitan genus *Ischnura* Charpentier, 1840, in its presently accepted sense, includes as many as 71 species. This genus has major centres of diversity in America, Central Asia and New Guinea (Tsuda 2000; Kalkman and Orr 2013). Only two species are known to occur in Sundaland: *I. senegalensis*, widespread in the Old World tropics, and *I. aurora* Brauer, 1865 widespread in south Asia and Oceania (Lieftinck 1954).

In 2014–2015, a large population of an undescribed species of *Ischnura* was discovered at a highland crater lake on Gunung Tujuh (Fig. 1) in Central Sumatra. This species is described below.

### Material and methods

Specimens were photographed in nature with Nikon D4 camera and 105 mm macro lens. Morphological details were photographed using a Zeiss Stemi 2000-C microscope equipped with a Canon PowerShot A640 digital camera. Images with enhanced depth of focus were obtained from serial photos with shifted focus using the program Helicon Focus 5.3 (<http://www.photo-soft.ru/heliconfocus.html>).

Abbreviations: RMNH—Naturalis Biodiversity Centre, Leiden; BMNH—Natural History Museum, London; ISEA—Institute of Systematics and Ecology of Animals of Siberian Branch of Russian Academy of Sciences, Novosibirsk.

### *Ischnura foylei* sp. nov.

(Figs. 2–4, 5a–c, 6, 7a–g)

**Type material. Holotype:** ♂ (Fig. 4, 5a–c), Indonesia, Sumatra, Jambi Province, Danau Gunung Tujuh (Danau Sakti), 1°41'15"S, 101°25'28"E, 1995 m a.s.l., October 2014; deposited in RMNH. **Paratypes:** 5 ♂, 3 ♀, of which 2 androchromatic (Fig. 6) and one gynochromatic (heterochromatic) (Fig. 7 a–g), the same data, deposited in RMNH, BMNH and ISEA. The specimens were preserved in a vial of alcohol, some dried afterwards.