



## Two new damselfly species from Polillo Island, Philippines (Odonata: Platystictidae)

REAGAN JOSEPH T. VILLANUEVA<sup>1,3</sup> & MARTIN SCHORR<sup>2</sup>

<sup>1</sup>D3C Gahol Apartment, Lopez Jaena St., Davao City, 8000 Philippines. E-mail: rjtvillanueva@gmail.com

<sup>2</sup>ÖSTLAP, Schulstr. 7B, 54314 Zerf, Germany. E-mail: bierschorr@online.de

<sup>3</sup>Corresponding author

### Abstract

*Drepanosticta wildermuthi* **spec. nov.** and *Sulcosticta vantoli* **spec. nov.** are described and illustrated. The two species are compared with their nearest relatives, *D. moorei* van Tol & Müller and *S. viticula* van Tol, respectively. *Drepanosticta wildermuthi* **spec. nov.** has shorter anterior lobe processes compared to *D. moorei*. *Sulcosticta vantoli* **spec. nov.** has a simpler paraproct structure compared to *S. viticula*.

**Key words:** New species, damselfly, *Drepanosticta wildermuthi*, *Sulcosticta vantoli*, Philippines

### Introduction

Polillo Island (ca 600 km<sup>2</sup>) is the largest island of the Polillo group, and one of the largest islands of the Luzon biogeographic region. It is situated east of central Luzon. This flat to gently sloping island hosts several interesting species, such as endemic species and subspecies of vertebrates (Manuel, 1957; Leviton, 1963; Bossuyt & Dubois, 2001). The presence of these remarkable species is documented quite recently, although the first biological survey was conducted a century ago (McGregor, 1910; Robinson, 1911).

The first collection of Odonata in the island was made by Dr. G. Boetcher in 1915. This material was studied only after 80 years (Hämäläinen & Müller, 1997). A male specimen from this collection was listed as '*Protosticta* sp. n.' by Hämäläinen & Müller (1997). In his revision of the Platystictidae of the Philippines, van Tol (2005) described the characters of this specimen in detail as '*Sulcosticta* sp. A', but he declined to give a formal name to the species due to the poor condition of the single available specimen. The first author explored the island on two occasions (Villanueva, 2010a; 2010b). The results significantly increased the knowledge of its odonate diversity, and several new species were discovered. The present paper describes this unnamed *Sulcosticta* species and another new platystictid species found during these collecting trips.

### Material and methods

Measurements are given in mm; drawings were made with the aid of a stereomicroscope equipped with micro-ocular camera. Abbreviations used are as follows: Fw forewing, Hw hindwing, Ax antenodal crossveins, Px postnodal crossveins, Pt pterostigma. S1–10 abdominal segments 1–10.

Acronyms for collections are as follows:

RJTV            Collection of Reagan Joseph T. Villanueva  
RMNH            Netherlands Centre for Biodiversity Naturalis (formerly Rijksmuseum van Natuurlijke Historie),  
Leiden, The Netherlands