

A new species and records of *Diolenius* Thorell, 1870 (Araneae: Salticidae) from New Guinea

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Abstract

Diolenius sarmiensis sp. nov. is recorded, described and illustrated from New Guinea.

Key words: new species, Diolenieae, New Guinea

Introduction

The genus *Diolenius* was established by Thorell (1870) for *Attus phrynooides* Walckenaer, 1837, the generic type. As revised by Gardzińska and Żabka (2006) it includes 14 species from tropical rain forest of New Guinea, New Britain, the Moluccas and some adjacent islands.

Diolenius is closely related to *Ohilimia* Strand, 1911 and *Chalcolecta* Simon, 1884; all are endemic to tropical Australasia (Gardzińska & Żabka, 2005, 2006; Gardzińska, 2006; Hill, 2010) and share the following combination of characters: first legs in both sexes longer and more robust than others, with elongate (particularly in males) trochanters I; posterior medial and posterior lateral eyes situated on distinct tubercles, abdomen in males with dorsal and ventral scuta; palpal organ with embolus partly hidden behind tegulum; epigyne with strongly sclerotized margins, its insemination ducts with terminal chambers, accompanied with accessory glands and connected with spermathecae via narrow channels (after Gardzińska, 2004, 2006; Gardzińska & Żabka, 2005, 2006). Bohne et al. (2011) provided the figures of living *Diolenius* and discussed the possible functions of its raptor-like first legs in the predation, courtship display or mimicry.

Material and methods

The study is based on the New Guinean arachnological material (B. P. Bishop Museum, Honolulu, Hawaii, U. S. A. collection (BISHOP), currently deposited in the Royal Belgian Institut of Natural Sciences (RBINS). The digital images were taken with a Canon PowerShot A620 digital camera and processed with ZoomBrowser and HeliconFocus software. Measurements are given in millimetres.

Abbreviation used: AEW: anterior eyes width, AG: accessory gland, AL: abdomen length, AME: anterior medial eyes, AW: abdomen width, CH: cephalothorax height, CL: cephalothorax length, CO: copulatory opening, CW: cephalothorax width, E: embolus, EFL: eye field length, Eg: edge; F: basal flange of tibial apophysis, ID: insemination duct, LI: length of leg I (coxa-tarsus), PEW: posterior eyes width, PME: posterior medial eyes, RTA: retrolateral tibial apophysis, S: spermatheca, Sp: spermophore, W: wing-shaped sclerotization of epigyne.

Genus *Diolenius* Thorell, 1870

Attus [part.]: Walckenaer 1837: 402.