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New records of water mites mainly from Vogelkop, New Guinea (Acari: Hydrachnidia), with the description of one new genus and thirteen new species

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Abstract

New records are given of water mites from Vogelkop, New Guinea. A total of 33 species is recorded, including the descriptions of a representative of a new genus, i.e. *Dropursides aberratus*, and of twelve further species new to science, i.e. *Hydrobaumia purpurea*, *Oxus manokwariensis*, *Limnesia multiscutata*, *Limnesia vogelkop*, *Australiobates elongatus*, *Unionicola novaeguineae*, *Neumania silvestris*, *Recifella fluviatilis*, *Koenikea sentaniensis*, *Albia ilikensis*, *Albia papuaensis* and *Axonopsella bisetosa*. The female of *Albia wauensis* Wiles and the male of *Axonopsella ovalis* Wiles are described for the first time.

Key words: water mites, Hydrachnidia, New Guinea, new species

Introduction

The water mites of New Guinea are still poorly known, despite an increased number of publications in recent times (Smit 2011 and references therein, Pešić & Smit 2012). Large areas are unexplored. One of those areas is Vogelkop, (“Birds Head”), West Papua Province, the westernmost part of New Guinea, which is part of Indonesia. A collecting trip was made in 2001 to Vogelkop, including the Arfak Mountains, and the results are presented in this paper. Results are also given for Papua province, New Guinea, in case they represent records of range extensions or species not published before.

Material and methods

All material has been collected by the author. All type and non-type material is lodged in the Naturalis Biodiversity Center, Leiden (RMNH). Numbers are given as males/females/deutonymphs or adults/deutonymphs. The following abbreviations are used: D3 = dorsoglandularium 3; L1 = lateroglandularium 1; Cxgl-4 = coxoglandularium 4; Cx-II = second coxae; Ac-1 = Anterior acetabulum; PI-PV = palp segment 1–5; I-leg-4–6 = fourth–sixth segments of first leg; asl = above sea level. Measurements of paratypes are given in brackets. All measurements are in μm , measurements of palp and leg segments are of the dorsal margins. Coordinates were obtained with a GPS.

Systematics

Anisitsiellidae Koenike

Hydrobaumia purpurea n. sp.

(Figs. 1–4)

Material examined. Female holotype, Pandanus marsh, beach Base G, Jayapura, Papua Province, New Guinea, Indonesia, 2° 31.035 S 140° 44.360 E, alt. 0 m asl, 29-xi-2011 (RMNH).