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New and little known species of oribatid mites of the subgenus *Galumna* (*Galumna*) (Acari, Oribatida, Galumnidae) from Vietnam

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Abstract

Two new species of oribatid mites of the subgenus *Galumna* (*Galumna*) (Acari, Oribatida, Galumnidae) are described from soil and litter of forest zones of southern Vietnam. *Galumna* (*G.*) *paramastigophora* **sp. nov.** differs from known species of *calpicola*-group by the morphology of bothridial setae and length of interlamellar setae; also, the new species is similar morphologically to *Leptogalumna* (*Aegyptogalumna*) *mastigophora*, however, it differs from the latter by the presence of lamellar lines, morphology of interlamellar setae and absence of notogastral setae. *Galumna* (*G.*) *pseudotriquetra* **sp. nov.** is similar morphologically to *Galumna* (*G.*) *triquetra*, however, it differs from the latter by the length of lamellar setae, number of postanal porose areas and morphology of notogastral porose areas *Aa*. Supplementary description of *Galumna* (*G.*) *aba* and remarks to the original description of *Galumna* (*G.*) *levisensilla* are presented.

Key words: Oribatida, Galumnidae, *Galumna* (*Galumna*), new species, supplementary description, Vietnam

Introduction

Galumna (*Galumna*) Heyden, 1826 (Acari, Oribatida, Galumnidae) is the largest subgenus of the genus *Galumna*, comprising more than 160 species, collectively having a cosmopolitan distribution (Subías 2004, updated 2014).

At present, 11 species *Galumna* (*G.*) were known in the Vietnamese oribatid mite fauna (Ermilov & Anichkin 2014a, b). The identification keys to all species of this subgenus in Vietnam (Ermilov & Anichkin 2014b) and the generic diagnosis of *Galumna* (Ermilov *et al.* 2013) were given earlier.

In the course of taxonomic identification of galumnid oribatid mites collected from the Joint Russian-Vietnamese Biological expedition (October 2013–April 2014) in forest zones of southern Vietnam, we found two new species of *Galumna* (*G.*). The main goal of our paper is to describe and illustrate these species. Also, supplementary description of *Galumna* (*G.*) *aba* Mahunka, 1989 and remarks to the original description of *Galumna* (*G.*) *levisensilla* Ermilov & Anichkin, 2010 are presented.

Material and methods

The collection locality and habitat are given in the "*Material examined*" section of each species.

Specimens were mounted in lactic acid on temporary cavity slides for measurement and illustration. The body length was measured in lateral view, from the tip of the rostrum to the posterior edge of the ventral plate. The notogastral width refers to the maximum width in dorsal aspect. Lengths of body setae were measured in lateral aspect. All body measurements are presented in micrometers. Formulas for leg setation are given in parentheses according to the sequence trochanter–femur–genu–tibia–tarsus (femulus included). Formulas for leg solenidia are given in square brackets according to the sequence genu–tibia–tarsus.

General terminology used in this paper follows that of Grandjean (summarized by Norton & Behan-Pelletier 2009).

Drawings were prepared with the aid of a drawing tube using the Carl Zeiss compound microscope "Axioskop-2 Plus".

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