

Article

Oribatid mites (Acari: Oribatida) from acacia and pine plantations in southern Vietnam, with description of a new species of the subgenus *Galumna* (*Cosmogalumna*)

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Abstract

An annotated checklist of oribatid mite taxa from acacia and pine plantations of Dong Nai Culture and Nature Reserve (Southern Vietnam) is presented. The species *Ctenacarus araneola*, *Nehypochthonius porosus*, *Scheloribates mahunkai*, *Scheloribates kraepelini*, *Indoribates panabokkei*, genera *Ctenacarus*, *Nehypochthonius* and families Ctenacaridae and Nehypochthoniidae are first records from Vietnam, and of these Nehypochthoniidae, *Nehypochthonius* and *Nehypochthonius porosus* are first records from the Oriental region. A new oribatid mite species, *Galumna* (*Cosmogalumna*) *dongnaiensis* **sp. nov.** (Galumnidae), is described from soil in a pine plantation. The new species is distinguishable from all species of the subgenus *Galumna* (*Cosmogalumna*) by the sculpturing of the prodorsum and pteromorphs and the number of notogastral porose areas.

Key words: oribatid mites, acacia and pine plantations, *Galumna* (*Cosmogalumna*), new species, Vietnam

Introduction

This work is part of our continuing study of the Southern Vietnamese mite fauna (in particular, Ermilov & Anichkin 2010, 2011a–c, 2012a–c) and includes data about oribatid taxa from acacia and pine plantations from Dong Nai Culture and Nature Reserve. A primary goal of this paper is to present an annotated checklist of oribatid mites from these plantations and also to annotate taxa, which are recorded for the first time from Vietnam and the Oriental region.

In the course of taxonomic identification one new species, belonging to the subgenus *Galumna* (*Cosmogalumna*) Aoki, 1988, was found and is described below as *Galumna* (*Cosmogalumna*) *dongnaiensis* **sp. nov.**

Galumna (*Cosmogalumna*) is a small subgenus that was proposed by Aoki (1988) as an independent genus *Cosmogalumna* with *Cosmogalumna ornata* Aoki, 1988 as the type species. The main generic characters of subgenus proposed by Aoki (1988) and also are summarized later by Balogh & Balogh (1992). At present, *Galumna* (*Cosmogalumna*) comprises six species: *G.* (*C.*) *hiroyoshii* (Nakamura & Fujikawa, 2004), *G.* (*C.*) *ornata* (Aoki, 1988), *G.* (*C.*) *yonaguniensis* Aoki, 2009 all from Japan; *G.* (*C.*) *praeoccupata* (Subías, 2004) (= *C. imperfecta* Aoki & Hu, 1993) from China; *G.* (*C.*) *singularis* (Mahunka, 1995) from Malaysia; *G.* (*C.*) *tenensis* (Ermilov, Vu & Nguyen, 2011) from Vietnam. An identification key to all species of the subgenus was presented earlier (Ermilov *et al.* 2011).