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Description of *Chistyakovella insolita* gen. nov., sp. nov., and redescription of the type species of *Diplobodes*, *D. kanekoi* Aoki, 1958 (Acari: Oribatida: Carabodidae)

SERGEY G. ERMILOV^{1,4}, JUN-ICHI AOKI² & ALEXANDER E. ANICHKIN³

¹Nizhniy Novgorod Referral Center of the Federal Service for Veterinary and Phytosanitary Inspection, Nizhniy Novgorod, Russia.

E-mail: ermilovacari@yandex.ru

²Tokyo, Japan. E-mail: ja-muck@ma.rosenet.ne.jp

³Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, Russia; Joint Russian-Vietnamese Research and Technological Center, Southern Branch, Ho Chi Minh, Vietnam. E-mail: repetty@yandex.ru

⁴Corresponding author

Abstract

A new oribatid mite genus, *Chistyakovella* gen. nov. (Carabodidae), with type species *C. insolita* sp. nov., is proposed and described from Southern Vietnam. It is clearly distinguished from other carabodid genera by the lamellae, which are touching medially. The new genus is most similar morphologically to *Gibbicepheus* Balogh, 1958 and *Diplobodes* Aoki, 1958, however it can be clearly distinguished from both genera by the position of interlamellar setae and the number of notogastral setae on the humeral regions of the notogaster. The type species of the genus *Diplobodes*, *D. kanekoi* Aoki, 1958, is redescribed from Japan. An identification key to known species of *Diplobodes* is presented.

Key words: oribatid mites, Carabodidae, new genus and species, *Diplobodes kanekoi*, redescription, key, Vietnam, Japan

Introduction

Carabodidae (Acari: Oribatida) is a large family of oribatid mites, comprising 26 genera and 332 species, which are found worldwide (Subías 2004, online version 2012). This family was revised by Mahunka (1986, 1987). Some general characters of morphology, biology and ecology of the carabodid mites were summarized by Norton and Behan-Pelletier (2009).

During our studies of the oribatid mite fauna of Vietnam we discovered a new genus of Carabodidae, *Chistyakovella* gen. nov., with *Chistyakovella insolita* sp. nov. as type species.

Chistyakovella gen. nov. is similar morphologically to *Diplobodes* Aoki, 1958. The latter is a small genus proposed by Aoki (1958) with *Diplobodes kanekoi* Aoki, 1958 as type species, which is known from Japan, China, and Thailand (Subías 2004, online version 2012). The original description of *Diplobodes kanekoi* was incomplete, lacking information about leg setation and solenidia, measurements of morphological structures, and morphology of gnathosoma. A secondary goal of our paper is to present a detailed redescription of this species based on Japanese specimens (see *Material and methods* section).

At present, six species of *Diplobodes* are known; these are: *D. africanus* Mahunka, 1987 (Kenya), *D. aokii* Mahunka, 1989 (Kenya), *D. floridus* Mahunka, 1978 (Mauritius), *D. kanekoi* Aoki, 1958 (Japan and Oriental region), *D. karubei* Aoki, 2002 (Japan), and *D. superbus* Mahunka, 1978 (Mauritius). The third goal of our paper is to propose an identification key to all known species of *Diplobodes*.