

A new genus and eight new species of Phyllocoptini (Acari: Eriophyidae: Phyllocoptinae) from China

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Abstract

A new genus and eight new species of eriophyid mites from China are described: *Paraepitrimerus sanguisorbae* n. gen. and n. sp. on *Sanguisorba officinalis* L.; *Paraepitrimerus paeoniae* n. sp. on *Paeonia lactiflora* Pall.; *Paraepitrimerus erigeronsis* n. sp. on *Erigeron annuus* (L.) Pers.; *Epitrimerus sabinae* n. sp. on *Sabina chinensis* (L.) and *Sabina chinensis* cv. Kaizuca; *Epitrimerus gnaphali* n. sp. on *Gnaphalium luteo-album* L.; *Epitrimerus amygdali* n. sp. on *Amygdalus triloba* (Lindl.) Ricker.; *Phyllocoptiruta sanguisorbae* n. sp. on *Sanguisorba officinalis* L. and *Phyllocoptes fabris* n. sp. on *Abies fabri* (Masters) Craib. All species described here are vagrants on leaves.

Key words: eriophyid mites, Eriophyidae, Phyllocoptini, new genus, new species, China

Introduction

The tribe Phyllocoptini was established by Nalepa (Nalepa, 1892) and consists of at least 555 species in 52 genera. Phyllocoptini is easy to distinguish from other tribes of Phyllocoptinae by having scapular setae usually well formed, often plicate, tubercles placed ahead of rear shield margin, directing setae forward, up or mediad (Amrine et al., 2003).

During surveys conducted between 2003 and 2004 in northern China, one new genus and eight new species were found in Henan, Shaanxi, Shanxi and Shandong Provinces. The new genus includes three new species, each infesting different host plants. Specimens of the new species *Epitrimerus sabinae* n. sp. also comprise both protogynae and deutogynae females. All type specimens are deposited in the Arthropod/Mite Collection of the Department of Entomology, Nanjing Agricultural University, Jiangsu Province, China. The terminology used in this paper follows Amrine et al. (2003). All measurements are in micrometres ("m). The measurements of all the species described here are the means of the specimens studied for each species.