

A new genus and three new species of Phyllocoptini (Acari: Eriophyidae: Phyllocoptinae) from the Qinling Mountains, Shaanxi Province, northwestern China

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Abstract

A new genus and three new species of eriophyid mites from the Qinling Mountains, Shaanxi Province, northwestern China are described and illustrated: *Calvittacus regiae* **gen. nov.** and **sp. nov.** on *Juglans regia* L. (Juglandaceae); *Calepitrimerus dendrobenthamiae* **sp. nov.** on *Dendrobenthamia japonica* var. *chinensis* (Osborn) Fang (Cornaceae) and *Calepitrimerus fopingi* **sp. nov.** on *Lindera glauca* (Sieb. et Zucc.) Blume (Lauraceae). All the species are vagrant on the undersurface of leaves. No apparent damages were found on the host plant. A key to the species of *Calepitrimerus* from China is provided.

Key words: eriophyid mite, taxonomy, key, *Calvittacus*, *Calepitrimerus*

Introduction

The Qinling Mountains, located in northwestern China's Shaanxi Province, is a watershed of both the Oriental and Palearctic Regions in China, and is rich in biodiversity. During 2004 and 2005, field surveys were conducted in the Qinling Mountains, and a new genus *Calvittacus* and two new species in the genus *Calepitrimerus* were found among the eriophyid mite specimens collected. All the species belong to the Phyllocoptini (Eriophyidae, Phyllocoptinae). The genus *Calepitrimerus* was established by Keifer (Keifer 1938) based on the type species *Calepitrimerus cariniferus* Keifer, 1938 and characterized as: body fusiform; gnathosoma projecting obliquely down; prodorsal shield with frontal lobe and prominent scapular setae, shield with scapular setae near or ahead of rear margin, scapular setae usually directed anteriorly or centrad, rarely posteriorly; opisthosoma with three ridges, middorsal ridge ending in a broad furrow before termination of subdorsal ridges; all coxal setae present. As of 2003, the genus holds 62