



## A new genus and three new species of Phyllocoptinae (Acari: Eriophyidae) from South China

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### Abstract

In this paper, a new genus and three new species of eriophyid mites from Heng County and Longlin County, Guangxi Zhuang Autonomous Region, South China are described and illustrated: *Calpentaconvexus eyrei* n. gen. and n. sp. infesting *Castanopsis eyrei* (Champ. ex Benth.) Tutch. (Fagaceae); *Phyllocoptruta subcoriaceae* n. sp. infesting *Embelia subcoriaceae* Mez. (Myrsinaceae) and *Petanovicia discolor* n. sp. infesting *Sapium discolor* (Champ. ex Benth.) Muell.-Arg. (Euphorbiaceae). A key to species of *Phyllocoptruta* from China is provided.

**Key words:** eriophyid mite, taxonomy, *Calpentaconvexus*, *Phyllocoptruta*, *Petanovicia*, Asia

### Introduction

A series of surveys of plant-inhabiting mites in Guangxi Zhuang Autonomous Region, China had been conducted. Among the eriophyid mite specimens, *Calpentaconvexus eyrei* n. gen. and n. sp., *Phyllocoptruta subcoriaceae* n. sp. and *Petanovicia discolor* n. sp. belonging to subfamily Phyllocoptinae are described and illustrated. A key to species of *Phyllocoptruta* in China is provided.

*Phyllocoptruta* comprised 23 species distributing in Asia, Africa, Europe and the Americas and *Petanovicia* contained 1 species from Thailand (Amrine *et al.* 2003). Up to date, 8 *Phyllocoptruta* species are known occurring in China (Kuang & Zhuo 1989; Hong & Kuang 1989; Huang 1992 & 2001; Kuang 1995; Huang & Wang 2004).

Specimens were prepared and mounted on slides according to Xin (1988). All specimens were examined with an Olympus CX41 microscope and photos were taken with Sony DSC-P8 digital camera, and figures were drawn by programme Adobe Photoshop CS in PC. Measurements are given in micrometers (µm). The morphological terminology used here follows Lindquist (1996) and the generic classification is made according to Amrine *et al.* (2003). All type specimens are deposited in the College of Agriculture, Guangxi University, Guangxi Zhuang Autonomic Region, China.

### Key to species of *Phyllocoptruta* in China

- 1 Coxal area smooth ..... 2
- Coxal area with granules or short lines..... 4
- 2 Empodium 5-rayed ..... *Phyllocoptruta oleivora* (Ashmead)
- Empodium 4-rayed ..... 3