



Seven new species of Phyllocoptini from Tibet Autonomous Region, China (Acari: Eriophyidae: Phyllocoptinae)

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Abstract

In this paper, seven new species of the Phyllocoptini (Acari: Eriophyidae: Phyllocoptinae) from China are described and illustrated. They are *Calvittacus swidanus* **sp. nov.** on *Swida macrophylla* (Cornaceae); *Vasates desmodius* **sp. nov.** on *Desmodium* sp. (Fabaceae); *Epitrimerus nyingchicus* **sp. nov.** on *Cotoneaster ambiguus* (Rosaceae); *Calepitrimerus painus* **sp. nov.** on *Rhododendron* sp. (Ericaceae); *Calepitrimerus cotoneaster* **sp. nov.** on *Cotoneaster buxifolius* (Rosaceae); *Phyllocoptiruta deutzianus* **sp. nov.** on *Deutzia* sp. (Saxifragaceae) and *Phyllocoptiruta smilanus* **sp. nov.** on *Smilax* sp. (Liliaceae). All the eriophyoid mite species described here are vagrants on the undersurface of host leaves.

Key words: eriophyoid mites, plant feeding, taxonomy, Eriophyoidea, vagrants

Introduction

According to Amrine *et al.* (2003), the tribe Phyllocoptini includes 53 genera. After 2003, 10 additional genera in this tribe were erected by Flechtmann (2004), Huang & Wang (2004), Navia & Flechtmann (2005), Xue & Hong (2005), Li *et al.* (2006), Xue *et al.* (2006), Wei *et al.* (2006), Xie *et al.* (2007) and Song *et al.* (2008b). *Calepitrimerus*, *Epitrimerus* and *Phyllocoptes* are the largest genera with more than 50 species each. The aim of this paper is to describe seven new species belonging to Phyllocoptini; these species were placed in the established genera *Calvittacus*, *Vasates*, *Epitrimerus*, *Calepitrimerus* and *Phyllocoptiruta*.

Material and methods

In August 2007, field surveys were conducted in Tibet Autonomous Region of China. The morphological terminology used here follows Lindquist (1996) and the generic classification is made according to Amrine *et al.* (2003). Measurements of mites were made according to Amrine and Manson (1996). Specimens were examined with a Leica DMR (Leica, Wetzlar, Germany) research microscope with phase contrast and semi-schematic drawings were made. For each species, the holotype female measurement precedes the corresponding range for paratypes (given in parentheses). All measurements are in micrometers (μm), and are lengths when not otherwise specified. Internal genitalia are not visible on any slides. All type specimens are deposited as slide mounted specimens in the Arthropod/Mite Collection of the Department of Entomology, Nanjing Agricultural University, Jiangsu Province, China.