



Seven new species of the genus *Eptrimerus* Nalepa (Acari: Eriophyidae: Phyllocoptinae) from China

XIAO-FENG XUE, ZI-WEI SONG & XIAO-YUE HONG¹

Department of Entomology, Nanjing Agricultural University, Nanjing, Jiangsu 210095, China

¹Correspondent author

Abstract

Seven new species in the genus *Eptrimerus* Nalepa from China are described and illustrated, namely *Eptrimerus dendranthemae* **sp. nov.** on *Dendranthema indicum* (L.) Des Moul. (Compositae); *Eptrimerus vescae* **sp. nov.** on *Fragaria vesca* L. (Rosaceae); *Eptrimerus argyris* **sp. nov.** on *Artemisia argyri* Lévl. & Vant. (Compositae); *Eptrimerus lonicerae* **sp. nov.** on *Lonicera* sp L. (Caprifoliaceae); *Eptrimerus microcarpa* **sp. nov.** on *Ficus microcarpa* L. f. (Moraceae); *Eptrimerus cotoneasteri* **sp. nov.** on *Cotoneaster* sp. B. Ehrhart (Rosaceae) and *Eptrimerus integrae* **sp. nov.** on *Salix integra* Thunb. (Salicaceae). A key to the species of *Eptrimerus* in China is provided. The eriophyoid mite species described here are vagrants on the leaf surfaces of their host plants.

Key words: taxonomy, eriophyid mites, plant feeding, *Eptrimerus*, new species, key, China

Introduction

The genus *Eptrimerus* was established by Nalepa (Nalepa, 1898) based on the type species *Tegonotus piri* (Nalepa, 1891) and characterized as: body fusiform, often flattened; prodorsal shield with frontal lobe and prominent scapular setae; shield with scapular setae ahead of rear margin; setae usually directed centrad; dorsum of opisthosoma with three ridges, middorsal ridges fading simultaneously with subdorsal ridges; all coxal setae present; legs with usual series of setae. As of 2003, the genus held 151 species from Asia, Africa, Europe and the Americas (Amrine *et al.* 2003). To date, there are 21 species known to occur in China (Hong & Zhang 1996; Huang 2001a, b & c; Huang & Wang 2004; Kuang 1995; Kuang & Hong 1989; Kuang *et al.* 1994 & 2005; Wei *et al.* 1999, 2004 & 2006; Xue & Hong 2005). During 2004 and 2005, field surveys were conducted in Henan, Guangdong and Shaanxi Provinces, and seven new species in the genus *Eptrimerus* were discovered. A key to species in the genus *Eptrimerus* in China is listed herein. All the new species are vagrants on the leaf surface of their host plants. No damage to the host was observed.

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 Arthropod/Mite Collection of the Department of Entomology, Nanjing Agricultural University, Jiangsu Province, China. All measurements are given in micrometers (µm) and are lengths unless specified. All specimens were examined and drawn with the aid of a Leica DMR (Germany) microscope using phase contrast (PH).

Key to species of *Eptrimerus* in China

- 1 Coxal area smooth 2