



Article

Taxonomic study of the Oriental leafhopper genus *Kabakra* Dworakowska (Hemiptera: Cicadellidae: Typhlocybinae: Erythroneurini), with description of three new species and one new record

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Abstract

Six species of the genus *Kabakra* Dworakowska were studied and illustrated, including three new species from China and Thailand: *Kabakra acutata*, *K. aviformis*, *K. celata* **spp. nov.**, and one new record from China: *Kabakra augusta* Dworakowska **n. rec.** A key for the identification of adult males is provided.

Key words: Auchenorrhyncha, morphology, taxonomy, China, Thailand

Introduction

The leafhopper genus *Kabakra* was established by Dworakowska in 1979 with *Kabakra augusta* from Vietnam as its type species. Thereafter, another two species were described from India. In the present paper, *Kabakra* is first reported from China and Thailand. Three new species, *K. acutata*, *K. aviformis*, and *K. celata* **spp. nov.**, as well as one new Chinese record, *K. augusta* Dworakowska, 1979, are photographed and illustrated, with a key to all males of *Kabakra*.

Material and methods

Morphological terminology used follows Young (1952) except for the nomenclature of the wing, which follows Dworakowska (1993). Habitus photos were taken using a Scientific Digital micrography system equipped with an Auto-montage imaging system and a Q-IMAGING Retiga 2000R digital camera (CCD). Multiple photographs were compressed into final images. The body measurements are from the apex of the vertex to the tip of forewing. Abdomens and genitalia were removed from specimens and cleared in a 10% KOH solution heated for 1–2 minutes. Cleared material was then rinsed in water and stored in glycerine. A Nikon SMZ1500 dissecting microscope was used for viewing and an Olympus BH-2 stereoscopic microscope for drawing.

***Kabakra* Dworakowska, 1979**

Type-species: *Kabakra augusta* Dworakowska, 1979

Diagnosis. Body small and robust, color pattern mottled. Vertex with pair of dark semicircular patches near anterior margin and pair of lighter patches beneath them, which forming tadpole-shaped patches. Pronotum with dark patches at anterior margin, central part and two areas at posterior margin grey. Forewing with several smoky