



<http://dx.doi.org/10.11646/zootaxa.3931.3.8>

<http://zoobank.org/urn:lsid:zoobank.org:pub:C6F9D85F-F822-4836-97CF-D736000499E9>

Species checklist for the tribe Vartini Zahniser & Dietrich, 2013 (Hemiptera: Cicadellidae: Deltocephalinae) from China, with description of a new species

JI-CHUN XING & ZI-ZHONG LI

Institute of Entomology, Guizhou University; Provincial Special Key Laboratory for Development and Utilization of Insect Resources, Guizhou University, Guiyang, 550025 P. R. China. E-mail: xingjichun@126.com

Abstract

An annotated checklist and generic key to the leafhopper tribe Vartini from China is provided. A new species *Xenovarta falcata* **sp. nov.** is described and illustrated, and a key is given to separate species of this genus from China. A map showing the geographic distribution of the new species is also provided. The type specimen of the new species is deposited in the Institute of Entomology, Guizhou University, Guiyang, China (GUGC).

Key words: Homoptera, morphology, taxonomy, distribution

Introduction

The tribe Vartini is a small group of deltocephaline leafhoppers. It was established by Zahniser & Dietrich (2013) with 7 genera and 23 species: *Curvimonus* Viraktamath & Anantha Murthy, 1999 (1 species); *Shivania* Viraktamath, 2004 (2 species); *Stymphalus* Stål, 1866 (1 species); *Varta* Distant, 1908 (8 species); *Vartalapa* Viraktamath, 2004 (3 species); *Vartatopa* Viraktamath, 2004 (1 species); and *Xenovarta* Viraktamath, 2004 (7 species). *Varta* Distant, 1908 is the type genus, and all genera were previously placed in Scaphytopiini. Later, Duan & Zhang (2013) added a new species: *Xenovarta lui* from China. Zahniser (2013) also described a new genus and species *Afrovaria angelae* from Central and West Africa. Until now, 8 genera and 25 species were known in the world, including four monotypic genera; among them, 3 genera and 10 species are known in China (Viraktamath 2004; Xing, Dai & Li 2011; Duan & Zhang 2010, 2013).

Here, an annotated checklist of the Vartini of China are provided. And a new species *Xenovarta falcata* **sp. nov.** is described and illustrated from Guangxi Autonomous Region, China. The genus *Xenovarta* now contains 9 species, with 6 recorded from China. A key is given to separate Chinese species. The type specimens of the new species are deposited in the Institute of Entomology, Guizhou University, Guiyang, China (GUGC).

Material and methods

Dry male specimens were used for the description and illustration. External morphology was observed under a stereoscopic microscope and characters were measured with an ocular micrometer. Color pictures for adult habitus were obtained by KEYENCE VHX-1000 system. The genital segments of the examined specimens were macerated in 10% NaOH and drawn from preparations in glycerin jelly using a Leica MZ 12.5 stereomicroscope. Illustrations were scanned with Canon CanoScan LiDE 200 and imported into Adobe Photoshop CS8 for labeling and plate composition. Terminology of morphological and genital characters follow Viraktamath (2004).

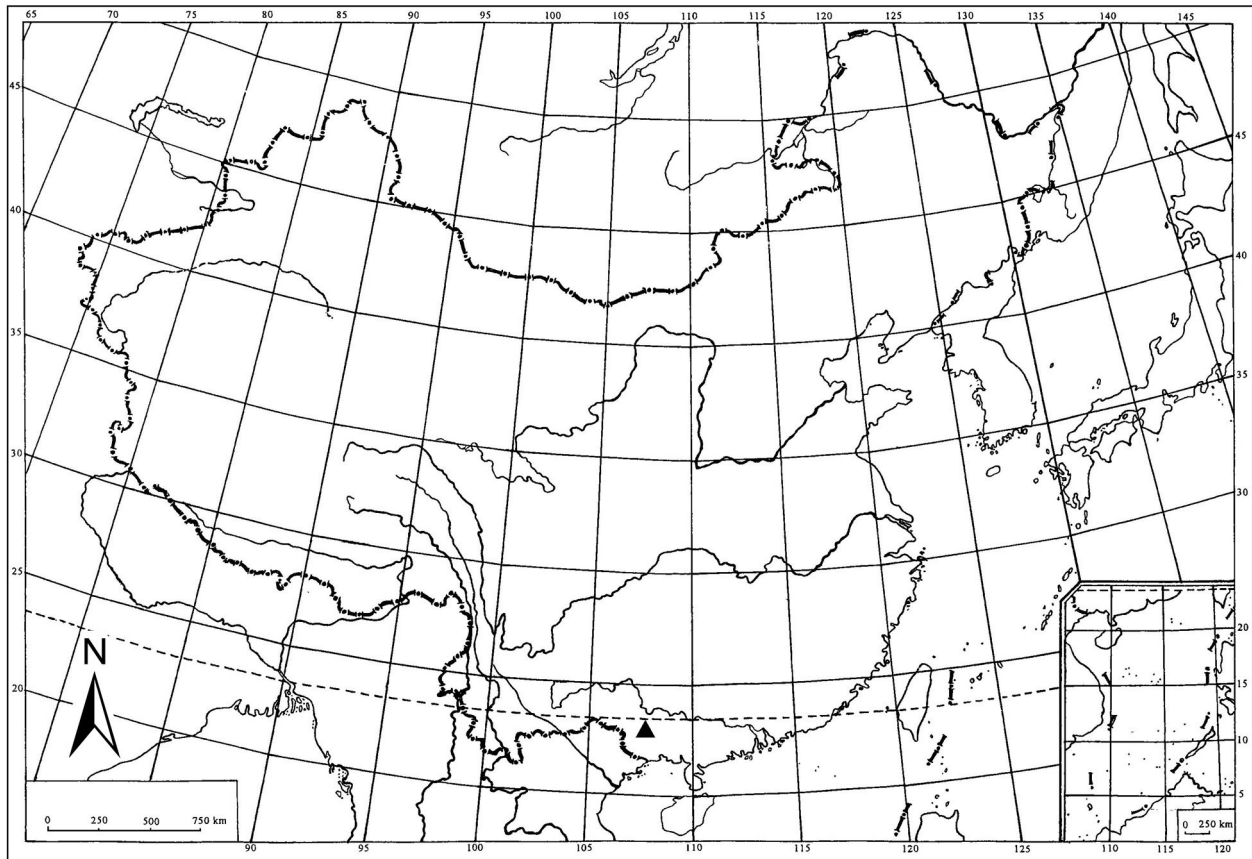


FIGURE 11. Geographic distribution of *Xenovarta falcata* sp. nov. in China (▲).

References

- Distant, W.L. (1908) Rhynchota-Homoptera. In: Bingham, C.T. (Ed.), *The fauna of British India, including Ceylon and Burma*. Vol. 4. Taylor and Francis, London, pp. 1–501.
- Duan, Y.N. & Zhang, Y.L. (2010) Review of Chinese species of genus *Xenovarta* Viraktamath (Hemiptera: Cicadellidae: Deltocephalinae: Scaphytopiini) with description of a new species. *Zootaxa*, 2490, 40–46.
- Duan, Y.N. & Zhang, Y.L. (2013) A new leafhopper genus and two new species of the tribe Scaphytopiini (Hemiptera: Cicadellidae: Deltocephalinae) from China. *Zootaxa*, 3670 (3), 362–370.
<http://dx.doi.org/10.11646/zootaxa.3670.3.6>
- Matsumura, S. (1914) Die Jassinen und einige neue Acocephalinen Japans. *The Journal of the Sapporo Agricultural College*, 5 (7), 165–240.
- Stål, C. (1866) Hemiptera Homoptera Latr. *Hemiptera Africana*, 4, 1–276.
- Viraktamath, C.A. & Anantha Murthy, H.V.A. (1999) A revision of the leafhopper tribe Scaphytopiini from India and Nepal (Insecta, Hemiptera, Cicadellidae, Deltocephalinae). *Senckenbergiana Biologica*, 79 (1), 39–55.
- Viraktamath, C.A. (2004) A revision of the *Varta-Stymphalus* generic complex of the leafhopper tribe Scaphytopiini (Hemiptera: Cicadellidae) from the Old World. *Zootaxa*, 713, 1–47.
- Xing, J.C., Dai, R.H. & Li, Z.Z. (2011) A new species of Scaphytopiini (Hemiptera: Cicadellidae: Deltocephalinae), with a key to genera and species checklist for the tribe from China. *Zootaxa*, 2935, 64–68.
- Zahniser, J.N. (2013) A new genus and species of Vartini (Hemiptera: Cicadellidae: Deltocephalinae) from Africa. *Zootaxa*, 3750 (3), 295–300.
<http://dx.doi.org/10.11646/zootaxa.3750.3.9>
- Zahniser, J.N. & Dietrich, C.H. (2013) A review of the tribes of Deltocephalinae (Hemiptera: Auchenorrhyncha: Cicadellidae). *European Journal of Taxonomy*, 45, 1–211.
<http://dx.doi.org/10.5852/ejt.2013.45>