



New records of *Pseudophatnoma laosana* B. Lis, 1999 (Hemiptera: Tingoidea: Cantacaderidae) from China and Thailand, with illustration of its male genitalia

BARBARA LIS^{1,3}, KAI DANG² & WENJUN BU²

¹Department of Biosystematics, Opole University, Oleska 22, 45-052 Opole, Poland

²Institute of Entomology, College of Life Sciences, Nankai University, 94 Weijin Road, Tianjin 300071, China

³Corresponding author. E-mail: canta@uni.opole.pl

The lace-bug genus *Pseudophatnoma* was described for *P. corniculata* from the Riau Archipelago in Indonesia, and because of its morphological characteristics the genus was placed in the subfamily Cantacaderinae of the family Tingidae (Blöte 1945).

Drake and Ruhoff (1965), when cataloguing the World Tingidae, placed this genus within the tribe Phatnomini of the subfamily Cantacaderinae, based only on the original description by Blöte (1945), having no specimens at hand.

Péricart (1986) described a new genus *Froeschnerocader* for *F. denticollis* from Sabah (Borneo), and placed the genus within the tribe Cantacaderini of the subfamily Cantacaderinae. However, several years later the same author (Péricart 1991), after personal examination of the type specimen of *P. corniculata*, determined that the genus *Froeschnerocader* should be regarded as a junior synonym of Blöte's genus *Pseudophatnoma* and decided to synonymize both genera; moreover, he also transferred this genus from the tribe Phatnomini to the Cantacaderini (Péricart 1991).

The genus *Pseudophatnoma* was redescribed, as well as its two species were keyed, by Froeschner (1996) in the first part of his "Lace Bug Genera of the World". Shortly after, the third species of the genus, i.e., *P. laosana* from Laos, was described and illustrated by Lis (1999a).

Thus, up to now, the genus includes three species, i.e., *P. corniculata* (Riau Archipelago, Indonesia), *P. denticollis* (Sabah, Borneo), and *P. laosana* (Laos).

In the present note, new country records of *P. laosana* are presented from China and Thailand. Diagnostic characters for the genus *Pseudophatnoma*, as well as characters separating *P. laosana* from other two species of the genus, its biometric data, and diagnostic illustrations are also provided. Moreover, male genitalia of the newly recorded species are illustrated for the first time.

Classification of the superfamily Tingoidea follows Lis (1999b).

Taxonomic accounts

Superfamily Tingoidea

Family Cantacaderidae

Subfamily Cantacaderinae

Genus *Pseudophatnoma* Blöte, 1945

Pseudophatnoma Blöte, 1945: 78; Drake and Ruhoff, 1965: 40; Péricart, 1991: 49; Froeschner, 1996: 15; Lis, 1999a: 28.

Type-species by original designation: *Pseudophatnoma corniculata* Blöte, 1945.

Froeschnerocader Péricart, 1986: 245; synonymized by Péricart, 1991: 49. Type-species by original designation:

Froeschnerocader denticollis Péricart, 1986.

Diagnostic characters for the genus. Head apex not reaching the distal ends of the first antennal segment; head dorsal

3.70; length of pronotum: 1.45–1.90; width of pronotum: 1.85–2.00; length of hemelytra: 5.18–5.45; length of discoidal area: 3.40–3.60; length of antennal segments: I 0.25–0.26, II 0.22–0.23, III 2.96–3.28, IV 0.57–0.64.

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References

- Blöte, H.C. (1945) Catalogue of the Berytidae, Piesmididae and Tingidae in the Rijksmuseum van Natuurlijke Historie. *Zoologische Mededeelingen*, 25, 72–92.
- Drake, C.J. & Ruhoff, F.A. (1965) Lacebugs of the World. A Catalog. (Hemiptera: Tingidae). *United States National Museum Bulletin*, 243, i–viii + 1–634. [Washington, D.C.]
- Froeschner, R.C. (1996) Lace bug genera of the World, I: Introduction, Subfamily Cantacaderinae (Heteroptera: Tingidae). *Smithsonian Contributions to Zoology*, 574, 1–43.
<http://dx.doi.org/10.5479/si.00810282.574>
- Lis, B. (1999a) Two new species of the subfamily Cantacaderinae from Laos (Heteroptera: Tingidae). *Polish Journal of Entomology*, 68, 23–28.
- Lis, B. (1999b) Phylogeny and classification of Cantacaderini [Cantacaderidae stat. nov.] (Hemiptera: Tingidae). *Annales Zoologici (Warszawa)*, 49, 157–196.
- Péricart, J. (1986) *Froeschnerocader denticollis* (Heteroptera: Tingidae): a new genus and species of Cantacaderinae from Borneo. *Journal of the New York Entomological Society*, 94, 245–248.
- Péricart, J. (1991) Cantacaderinae de Thiland, Borneo et Palawan: Genres nouveaux, espèces nouvelles ou intéressantes ainsi qu'une nouvelle synonymie (Hemiptera, Tingidae). *Revue Suisse de Zoologie*, 98, 33–50.