DESCRIPTIONS OF TWO NEWSPECIES OF DELPHACIDAE
ATTACKING BAMBOO FROM CHINA∗
(HOMOPTERA:FULGOROIDEA)

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Abstract: In this paper, two new species infesting bamboo in Southwest of China are described and illustrated, *Bambusiphaga maculata* Chen et Li sp. nov. and *Epeurysa jiangjinensis* Chen et Chiang sp. nov., which are very harmful to bamboo by sucking sap and laying eggs. All type specimens are deposited in the Institute of Entomology, Guizhou University.

Key words: Homoptera, Delphacidae, *Bambusiphaga*, *Epeurysa*, New species, Bamboo


* Bambusiphaga Huang et Ding and *Epeurysa* Matsumura belong to tribe Tropidocephalini of the subfamily Delphacinae. All the species of two genera feed on bamboo (*Huang C L et al., 1979; Matsumura S., 1900*). Up to date, 16 species of the genus *Bambusiphaga* have been recorded in the world. Among them, 14 species were distributed in China (*Ding J H, 1982; Ding J H et al., 1982; Ding J H et al., 1986; Ding J H et al., 1987; Kuoh C L, 1980; Kuoh C L et al., 1980; Qin D Z et al., 1999; Yang J T et al., 1986*). The genus *Epeurysa* was established by Matsumura in 1900, with a Japanese species, *E. naumii* Matsumura as its type species. Previously, 10 species of this genus have been recorded in the world, of which 8 species were recorded from China (*Huang C L et al., 1979; Yang J T et al., 1986; Yang J T, 1992*). In this paper, 2 new species belonging to above two genera separately, are reported. All type specimens are deposited in the Institute of Entomology, Guizhou University.

1 *Bambusiphaga maculata* Chen et Li, sp. nov. (Figs. 1 ~ 8)

Macrop. f.: body length 52.2 mm, ♀ 2.6 mm; includ. teg. 54.4 mm, ♀ 4.8 mm; tegmen 33.7

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m m, ♀ 4.1 m m.

Vertex quadrate, wider at base than length about 1 : 1: 1, narrower at apex than at base (1 : 2: 1), apical margin truncate, carinae distinct, submedian carinae uniting at apex. Frons oblong, longer in middle line than wide at widest part about 2: 3: 1, slightly narrower at base than at apex, median carina simple. Clypeus developed, postclypeus slightly wider at base than frons at apex, median carina feeble. Antennae cylindrical, second segment 3: 4 times as long as first, two segments together reaching to frontoclypeal suture. Pronotum as long as vertex, lateral carinae attaining hind margin. Mesonotum about 1: 4 times the length of vertex and pronotum together, median carina attaining the end of scutellum. Spinal formula of hind leg 5 - 6 - 4. Post-tibial spur without teeth along posterior margin, but with a apical tooth.

Anal segment of male ring-like, left lateroapical angle produced into a very long process. Pygofer in profile much longer ventrally than dorsally, strongly produced caudad in middle of posterior margin, in posterior view opening longer than wide, medioventral process developed, forked near base, right branch longer than left branch. Aedeagus slender, very long, apical one-fourth bent ventrad, sinuate. Genital styles moderately long, forked at apex, plier-like, left style with basal angle produced slightly, shape as in figures.

Figs. 1 ~ 8 Bambusiphaga maculata Chen et Li sp. nov.

General color pale yellowish white, with slightly brown. Vertex, frons, genae and antennae pale yellowish white. Ocelli, eyes reddish brown. Pronotum with the areas round lateral carinae, mesonotum
with central areas largely blackish brown. Tegmina with a large markings dark brown at basal one-third. Fore and midcoxae pale brown. Abdomen with dorsal areas brown, pygofer dark brown, anal segment and anal style yellowish brown.

Host plant: Sinoba mbusa kunishii (Hayata) Naki.

Holotype ♀, Huixiangping of Fanjing Mountain (27°53′N, 108°44′E, 1800 m), Guizhou Province, 1998 VII 4, coll. Chen Xiangsheng; paratypes 2 ♀ ♀, 2 ♂ ♀, same data as for holotype.

This new species is related to B. fascia Huang et Tian, but can be separated from the latter by: face without any markings; tegmen with a large dark brown markings at basal one-third; pygofer with developed medioventral process; genital styles forked at apex; and the shape of aedeagus.

2 Epeurysa jiangjinensis Chen et Chiang, sp. nov. (Figs. 9 – 15)

Macrop. f.: body length 5 2.7 mm, 9 3.2 mm; includ. teg. 5 4.3 mm, 9 4.8 – 5.0 mm; tegmen 5 3.6 mm, 9 4.0 – 4.3 mm.

Vertex wider at base than long submedially about 2.8:1, slightly wider at base than at apex, apical margin evenly convex, carinae distinct. Frons in middle line longer than wide at widest part about 1.3:1, widest at level of eye, slight wider at base than at apex, median carina forked at extremely base. Postclypeus wider at base than frons at apex. Antennae cylindrical, first segment almost as wide as long, second segment about twice as long as first, two segments together reaching to frontoclypeus suture, Pronotum longer than vertex medially (1.8:1), lateral carinae not attaining hind margin. Mesonotum longer in middle line than pronotum and vertex together (2.0:1). Spinal formula of hind leg 5-6-4. Posttibial spur without teeth along posterior margin, but with a small apical tooth.

Anal segment of male ring-like. Lateroapical angles moderately separated, each produced into a short,
stout process, nipple-like. Pygofer in profile much longer ventrally than dorsally, in posterior view with opening longer than wide obviously. Ventral margin with 3 medioventral processes, lateral ones tooth-like, tapering apically, median one enlarging at apex, apical margin truncate. Aedeagus moderately long, phallus tubular, simple, directed to left caudad, then deflect mid-ventrad, acute at apex. Phallobasal process subequal to phallus in length and size, arising basally, directed caudad, with a semicircular node at apex, then protruding a distal limb, in dorsal view, distal limb turned to right side. The widest part of phallobasal process near node wider than length of distal limb (about 1: 0.93). Genital styles moderately long, with basal angles strongly produced thumb-like, shape as in figures.


Host plant: *Phyllostachys makinoi* Hayata.

Holotype ♂, Simian Mountain, (29°14' N, 106°15' E, 1300 m) Jiangjin, Chongqing, 1998-Ⅺ17, coll. Chen Xingsheng; paratypes 2 ♂, 4 ♀, same data as for holotype.

This new species resembles *E. infumata* Huang et Ding, but differs from the latter in the following aspects: median one of medioventral processes enlarging at apex; apical margin truncate; distal limb of phallobasal process short; and the shape of genital styles.

### References


