

中国驼蠹属两新种

(直翅目: 驼蠹科: 驼蠹亚科)

刘宪伟, 章伟年

(上海植物生理生态研究所昆虫标本馆, 上海 200025)

摘要: 记述驼蠹属 *Rhaphidophora* Audinet-Serville, 1839 两新种, 四川驼蠹 *Rhaphidophora sichuanensis* Liu et Zhang, sp. nov. 和小殖板驼蠹 *Rhaphidophora minuo-lamella* Liu et Zhang, sp. nov. 以及中华驼蠹 *Rhaphidophora sinica* Bey-Bienko, 1962 的雌性补充描述。模式标本保存在中国科学院植物生理生态研究所昆虫标本馆。

关键词: 直翅目; 驼蠹科; 驼蠹属; 新种; 中国

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1. 四川驼蠹 *Rhaphidophora sichuanensis* Liu et Zhang, 新种 (图 1~2)

雄性: 体型中等, 完全无翅。头部略宽于前胸背板, 头顶略侧扁, 背面具纵沟, 复眼肾形, 突出。前胸背板略侧扁, 背面圆凸。足较短, 前足股节内膝叶和中足股节内、外膝叶各具 1 个端距(可活动的长刺), 前足胫节腹面具 3 个外距和 2 个内距(可活动的长刺); 中足胫节背面具 3 个外距和 3 个内距, 腹面具 3 个外距和 1 个内距(可活动的长刺); 后足股节内膝叶具 1 个(不能活动的)短刺, 后足胫节背面具 17~18 个外刺和 16~17 个内刺, 内侧上端距长于跗基节, 后足跗节侧扁, 跗基节背面具 1~2 个刺。第 10 腹节背板后缘微凹; 肛上板舌形, 端部略尖(中华驼蠹 *Rh. sinica* 雄性肛上板端部截形), 背面具纵沟; 尾须细长, 下生殖板腹突微侧扁, 近菱形。

体暗赤褐色, 触角和足黄褐色。

雌性未知。

体长♂ 20.0 mm; 前胸背板♂ 6.0 mm, 后足股节♂ 16.0 mm

正模: ♂, 四川都江堰(青城山), 1987-VIII-10, 刘宪伟采

本新种与中华驼蠹 *Rhaphidophora sinica* Bey-Bienko, 1962 十分相似, 区别在于后足胫节内侧上端距长于跗基节, 跗基节背面具 1~2 个刺, 雄性肛上板端部尖形。

2. 中华驼蠹 *Rhaphidophora sinica* Bey-Bienko, 1962 (图 3)

Bey-Bienko (1962) 仅描述雄性, 现补充雌性描述。

雌性: 体型中等, 完全无翅。头部略宽于前胸背板, 头顶略侧扁, 背面具纵沟, 复眼肾

形,突出。前胸背板略侧扁,背面圆凸。足较短,前足股节内膝叶和中足股节内、外膝叶各具 1 个端距,前足胫节腹面各具 3 个外距和 2 个内距;中足胫节背面具 1 个外距和 2 个内距,腹面具 3 个外距和 1 个内距;后足股节内膝叶具 1 个短刺,后足胫节背面具 19~20 个外刺和 19~20 个内刺,内侧上端距约等长于跗基节,后足跗节侧扁,跗基节背面具 4~6 个刺。肛上板三角形,背面具纵沟;尾须细长,下生殖板较大,横宽,半圆形,端部具尖突。体暗赤褐色或污褐色,触角和足黄褐色。

体长♀ 20.0 mm;前胸背板♀ 7.0 mm,后足股节♀ 18.0 mm,产卵瓣♀ 11.0 mm

观察标本: 1♀,云南景洪勐仑,1991 IX-06,刘祖尧、王天齐、殷海生采; 1♀,云南勐腊,1995 VII-23-27,刘宪伟、章伟年、金杏宝采

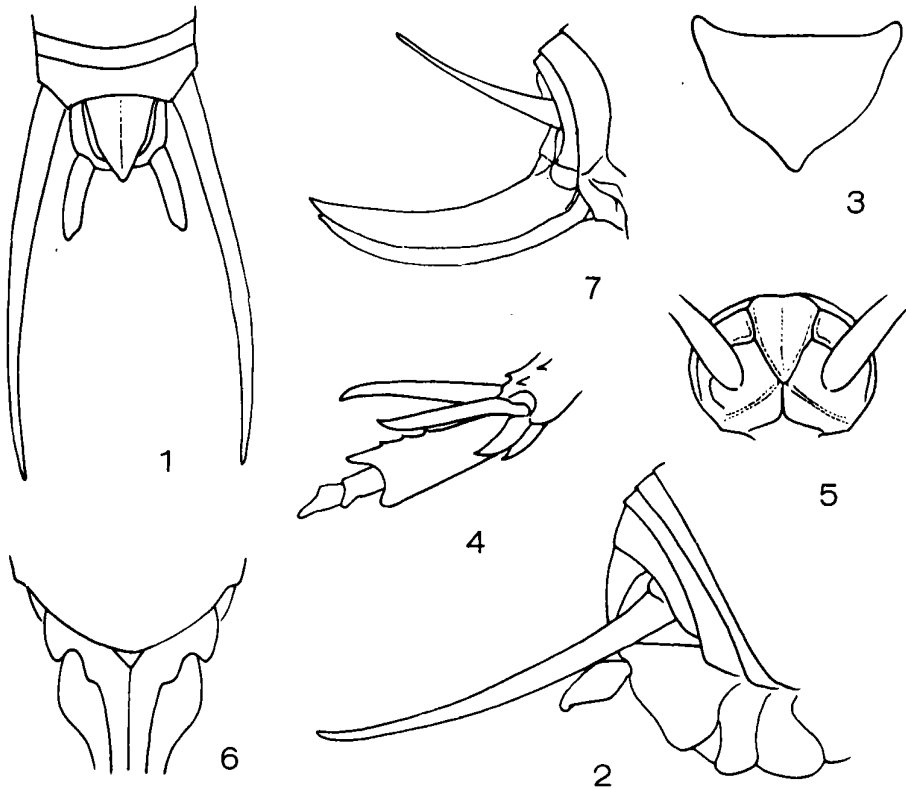


图 1-7 1,2 四川驼螽 *Rhabdiphora sichuanensis* Liu et Zhang, sp. nov.; 3. 中华驼螽 *Rhabdiphora sinica* Bey-Bienko, 1962; 4-7. 小殖板驼螽 *Rhabdiphora minuolamella* Liu et Zhang, sp. nov. 1. 雄性腹端背面观 (end of male abdomen, dorsal view); 2. 雄性腹端侧面观 (end of male abdomen, lateral view); 3. 雌性下生殖板腹面观 (subgenital plate of female, ventral view); 4. 雌性后足跗节侧面观 (tarsi of hind legs, lateral view); 5. 雌性腹端后面观 (end of female abdomen, caudal view); 6. 雌性腹端腹面观 (end of female abdomen, ventral view); 7. 雌性腹端侧面观 (end of female abdomen, lateral view)

3. 小殖板驼螽 *Rhabdiphora minuolamella* Liu et Zhang, 新种 (图 4-7)

雌性: 体型中等,完全无翅。头部略宽于前胸背板,头顶略侧扁,背面具纵沟,复眼肾形,突出。前胸背板略侧扁,背面圆凸。足较短,前足股节内膝叶和中足股节内、外膝叶各具 1 个端距,前足胫节腹面各具 3 个外距和 2 个内距 (包括端距);中足胫节背面具 3 个外

距和 3 个内距,腹面具 3 个外距和 1 个内距;后足股节内膝叶具 1 个短刺,后足胫节背面具 19~ 21 个外刺和 19~ 20 个内刺,内侧上端距约等长于跗基节,后足跗节侧扁,跗基节背面具 3~ 4 个刺。肛上板三角形,背面具纵沟;尾须细长,下生殖板极小,三角形。

体暗赤褐色,触角和足黄褐色,后足股节外侧具褐色斜条纹

雄性: 未知

体长♀ 21.0 mm;前胸背板♀ 6.5 mm,后足股节♀ 15.5 mm,产卵瓣♀ 10.5 mm

正模: ♀,广西那坡弄化,1000 m,1998IV-14,乔格侠采。

本新种与中华驼螽 *Rhaphidophora sinica* Bey-Bienko, 1962 十分相似,区别在于雌性下生殖板极小,三角形

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Two New Species of Genus *Rhaphidophora* (Orthoptera Rhaphidophoridae Rhaphidophorinae) from China

LIU Xian-wei, ZHANG Wei-nian

(Shanghai Institute of Plant Physiology and Ecology, Chinese Academy of Sciences, Shanghai 200025, China)

Two new species *Rhaphidophora sichuanensis* Liu et Zhang, sp. nov. and *Rhaphidophora minuolamella* Liu et Zhang, sp. nov. are described in this paper. The type specimens are deposited in both Insects Collection of Shanghai Institute of Plant Physiology and Ecology, and Institute of Zoology, Academia of Sciences.

1. *Rhaphidophora sichuanensis* Liu et Zhang, sp. nov. (Figs. 1~ 2)

Male (Holotype) very similar to *Rhaphidophora sinica* Bey-Bienko, 1962, with all characteristics of this distinct genus both sexes entirely apterous, knees of fore and middle legs with long apical spurs (movable spines), tibiae of fore legs without auditory organs, first tarsal segment of hind legs with an extended dorsal point at the tip. The new species distinguished from *Rh. sinica* by the upper inner apical spur of hind tibiae longer than the first tarsal segment, the first tarsal segment with 1~ 2 spines above, and male epiproct tongue-like, with acute apex (in *Rh. sinica*, these epiproct with truncated apex) and subgenital plate with nearly rhomboid styli.

General coloration dark red-brown, with yellowish antennae and legs.

Female unknown.

Length. Body ♂ 20.0 mm, pronotum ♂ 6.0 mm, hind femora ♂ 16.0 mm.

Holotype ♂, China: **Sichuan**, Doujiangyan (Qingchen Mt.), 10-VIII-1987, Liu Xi-an-wei.

2. *Rhaphidophora sinica* Bey-Bienko, 1962 (Fig. 3)

Male of this species was described by Bey-Bienko (1962). Now give a description of the female. Very similar to male in general appearance, fore tibiae with 3 outer and 2 inner spurs (movable spines) beneath, middle tibiae with 3 outer and 3 inner spurs (movable spines) above, beneath with 3 outer and 1 inner spurs (movable spines), hind tibiae with 19~20 outer and inner spines, the first tarsal segment of hind legs as long as the upper inner apical spur, dorsal surface with 4~6 spines. Subgenital plate transverse, rounded, with a blunt point at apex.

General coloration dark red-brown or dirty brown, with yellowish antennae and legs.

Length. Body 20.0 mm, pronotum 7.0 mm, hind femora 18.0 mm, ovipositor 11.0 mm.

Specimens examined 1♀, China **Yunnan**, Menglun, 06-IX-1991; 1♀, China **Yunnan**, Mengla, 23-27-VII-1995.

3. *Rhaphidophora minuolamella* Liu and Zhang, sp. nov. (Figs. 4~7)

Female of this new species is very similar to those of *Rh. sinica* in general appearance and coloration, but may be distinguished from latter by the distinct smaller and triangular subgenital plate.

General coloration dark red-brown, with yellowish antennae and legs, the outer surface of hind femora with brown oblique stripes.

Male unknown.

Length. Body 21.5 mm, pronotum 6.5 mm, hind femora 15.5 mm, ovipositor 11.5 mm.

Holotype ♀, China: **Guangxi**, Napo Nonghua, 1000 m, 14-IV-1998, Qiao Ge-xia.

Key words Orthoptera; Rhaphidophoridae; *Rhaphidophora*; new species; China