

# 中国竹亚科牡竹属一新种——长耳吊丝竹

陈松河<sup>\*</sup>, 陈榕生, 黄克福, 郭惠珠

(厦门市园林植物园, 厦门 361003)

**摘要:** 描述了竹亚科牡竹属一新种——长耳吊丝竹(*Dendrocalamus longiauritus* S. H. Chen, K. F. Huang et R. S. Chen)。该种与吊丝竹(*D. minor* (McClure) Chia et H. L. Fung)相近似, 但该竹种部分节有明显发达的一条主枝, 簇耳较大, 明显并与箨片基部相连, 窄长, 横卧于箨鞘两肩, 且呈有规则皱褶状, 并着生有6~8 mm长的波曲縫毛, 簇舌高达0.7~0.9 cm, 呈不整齐撕裂状, 上部有灰黄色扁形长毛, 易于区别。

**关键词:** 竹亚科; 牡竹属; 长耳吊丝竹; 新种; 厦门; 中国

中图分类号: Q949.71<sup>+</sup>4.2

文献标识码: A

文章编号: 2095-0837(2013)06-0536-04

## *Dendrocalamus longiauritus* S. H. Chen, K. F. Huang et R. S. Chen, a New *Dendrocalamus* Species of Bambusoideae from China

CHEN Song-He<sup>\*</sup>, CHEN Rong-Sheng, HUANG Ke-Fu, GUO Hui-Zhu

(Xiamen Botanical Garden, Xiamen 361003)

**Abstract:** A new species of the genus *Dendrocalamus* Nees of Bambusoideae from China, *D. longiauritus* S. H. Chen, K. F. Huang et R. S. Chen, found in the Xiamen Botanical Garden, Fujian Province, is described and illustrated here. The new species is similar to *D. minor* (McClure) Chia et H. L. Fung, but differs by having one dominant branchlet at some nodes, culm-sheath auricle that is larger and distinct, long and narrow, connected with the base of the culm-sheath blade, regularly fold shape, waviness oral setae 6–8 mm, sheath ligule 0.7–0.9 cm high, irregularly tearing shape, with gray-yellow flat long ciliates on the upside.

**Key words:** Bambusoideae; *Dendrocalamus* Nees; *Dendrocalamus longiauritus*; New species; Xiamen; China

### 长耳吊丝竹 新种(图1)

*Dendrocalamus longiauritus* S. H. Chen, K.

F. Huang et R. S. Chen, sp. nov. Fig. 1

Species haec a *Dendrocalamo minore* (McClure) Chia et H. L. Fung nodis partialibus ramis principalibus unicis conspicue effectis praeditis, auriculis majoribus conspicuis cum laminarum vaginis adnatis angustis regulatim rugosis setis fimbriatis undulatis 6–8 mm longis indutis, ligulis

usque ad 0.7–0.9 cm elatis irregulatim laceratis in parte superiore pilis cinerascent-fulvis complanatis indutis differt.

Rhizomes pachymorph. Culms unicaespitose, 10–14 m tall, internodes totally ca. 40, upper 8–10 ones become slender gradually, pendulous; young culms densely and thickly glaucous, greenish-white, glaucousness fades at next year and becomes green, glabrous; internodes terete, middle ones to 50 cm long; wall somewhat

收稿日期: 2013-06-03, 修回日期: 2013-09-13。

基金项目: 厦门市科学技术局科研项目“竹类植物耐盐机理与筛选应用研究”(3502Z20102003); 厦门市市政园林局科研项目“竹类植物在观赏园艺上的应用研究”(YK-2000-02)。

作者简介: 陈松河(1968-), 男, 研究员, 硕士生导师, 主要从事园林植物(竹类)分类、栽培与抗逆性研究。

\* 通讯作者(Author for correspondence. E-mail: songhechen2009@126.com)。

thick, middle ones ca. 4–5 mm, basal ones 9 mm; vascular bundle belongs to broken waist type. Branching usually from ca. 13th node up, many branches per node, sub-equal at some nodes and dominant at some nodes, node rid-

ges below the branching node with a ring of yellowish sericeous hairs at upper or lower parts. Culm sheaths coriaceous, abaxially finely striate, inconspicuously raised, thinly glaucous, sparsely rusty to black. setose, adaxially smooth, apex



1. 叶枝；2. 叶鞘顶端局部放大；3. 秆之一段，示其分枝；4. 秆箨。

1. Branchlet with leaves; 2. Enlarged part leaf sheath upside; 3. Part of culm, showing branching;  
4. Culm-sheath.

图 1 长耳吊丝竹(黄文荣根据黄克福、郭惠珠和陈松河 2725 号标本绘)  
Fig. 1 *Dendrocalamus longiauritus* S. H. Chen, K. F. Huang et R. S. Chen  
(Drawn by W. R. Huang from K. F. Huang, H. Z. Guo and S. H. Chen 2725)

narrow, 1.2~1.5 cm wide, truncate, margin thin, cilia absent; blade lanceolate, reflexed, 6 cm long, base 0.6 cm wide, middle and lower part 0.9 cm wide, adaxially densely yellowish hirsute, margin thin, shortly ciliate; ligule ca. 0.7~0.9 cm high, purplish, apex lacerate, upper part with flat hairs 0.8~1.0 cm long; auricles accumbent at both shoulders of sheath and connate with base of blade, narrow and slender, conspicuously and regularly rugous, also with yellowish undulate oral setae 0.6~0.8 cm long. Twigs mostly pendulous; each branchlet swollen at node ridges, wall thin, leaves 4~6; leaf blades narrowly elliptic-lanceolate, glabrous, 23~35 cm long, 3~5 cm wide, secondary veins and transverse veinlets inconspicuous; foliage leaf sheath glabrous or sparsely and minutely setose; ligule ca. 1 mm long, ciliate; auricle and oral setae absent. New shoots in middle and last third of September. Flower and fruit unseen.

**China. Fujian(福建): Xiamen(厦门), Xiamen Botanical Garden (XMBG) (厦门园林植物园), Alt. 110~200 m, 2010-10-09, Huang Kefu, Guo Huizhu and Chen Songhe (黄克福, 郭惠珠, 陈松河) 2725 (holotype, XMBG).**

地下茎合轴型。秆丛生, 高 10~14 m, 全秆约有 40 节, 顶部约 8~10 节渐细弱成吊丝状下垂; 幼秆密被厚白粉, 呈绿白色, 第二年白粉渐退, 呈绿色, 无毛; 节间圆筒状, 中部节间长达 50 cm; 竹壁较薄, 中部厚约 4~5 mm, 基部可达 9 mm; 维管束类型为断腰型。分枝从第 13 节开始, 每节多分枝, 部分节分枝粗细几相等, 部分节上分枝有一明显主枝, 分枝节以下节环上下有一圈淡黄色绢状毛。秆箨革质, 背面脉纹细, 突起不甚明显, 背面薄被白粉, 疏被锈色至黑色刺毛, 腹面光滑, 簓鞘顶部窄, 宽 1.2~1.5 cm, 截形, 边缘薄, 无纤毛; 簓片披针形, 反折, 长 6 cm, 基部宽 0.6 cm, 中下部宽 0.9 cm, 腹部密被淡黄色粗毛, 边缘薄, 有短纤毛; 簓舌高约 0.7~0.9 cm, 淡紫色, 顶端撕裂状, 顶部有 0.8~1.0 cm 长的扁形毛; 簓耳

横卧于箨鞘两肩, 并与箨片基部相连, 窄长, 明显具规则皱褶, 并着生有弯曲的 0.6~0.8 cm 长的淡黄色縫毛。枝条多下垂; 每小枝节环肿大, 枝壁薄, 着叶 4~6 枚; 叶长椭圆状披针形, 无毛, 长 23~35 cm, 宽 3~5 cm; 次脉与横脉不甚明显; 叶鞘无毛或疏生小刺毛; 叶舌长约 1 mm, 有纤毛; 无叶耳及鞘口縫毛。出笋期 9 月中下旬。花果未见。

本种与吊丝竹 *Dendrocalamus minor* 相近似<sup>[1~5]</sup>, 但前者部分节有明显发达的一条主枝, 簓耳较大, 明显并与箨片基部相连, 窄长, 横卧于箨鞘两肩, 且呈有规则皱褶状, 并着生有 6~8 mm 长的波曲縫毛, 簓舌高达 0.7~0.9 cm, 呈不整齐撕裂状, 上部有灰黄色扁形长毛; 后者主枝不显著, 簓耳及簩舌也非具上述特征, 易于区别。

本种标本采集地点为厦门园林植物园, 采集人为黄克福、郭惠珠和陈松河, 采集号为 2725, (主模式标本存于厦门园林植物园标本室 XMBG), 采集时间为 2010 年 10 月 09 日。

本种于 20 世纪 80 年代引自广州, 栽植于厦门万石山厦门园林植物园百花厅内水池边, 沙壤土, 土壤盐度为 0.14%, 水肥条件较好, 经长期观察, 其植株性状极为稳定, 生长状况甚好。作者于 2010 年在开展竹类植物相关课题研究时, 鉴定并整理制作了该竹类标本, 2011~2012 年 9 月该竹发笋后多次采集确认该竹类标本的所有形态特征(活体植物实物特征见附图), 经仔细查对相关文献<sup>[1~5]</sup>、核对近缘种标本和征询相关专家意见后, 确定其为一新种。

**致谢:** 本研究得到中国科学院植物研究所林秦文博士和孙英宝先生的大力帮助, 黄文荣先生协助绘图, 特此致谢!

## 参考文献:

- [1] 贾良智, 冯学琳. 关于慈竹属和单竹属的讨论[J]. 植物分类学报, 1980, 18(2): 211~216.
- [2] 耿伯介, 王正平. 中国植物志: 第 9 卷, 第 1 分册 [M]. 北京: 科学出版社, 1996: 152~196.
- [3] Flora of China Editorial Committee. Flora of China: Vol. 22 (Poaceae, Tribe Bambuseae) [M]. Beijing & St. Louis: Science Press & Missouri Botani-

- cal Garden Press, 2006: 45–46.  
 [ 4 ] 易同培, 史军义, 马丽莎, 王海涛, 杨林. 中国竹类图志 [M]. 北京: 科学出版社, 2008: 184–219.  
 [ 5 ] 易同培, 马丽莎, 史军义, 王海涛, 杨林, 刘丽. 中国竹亚科属种检索表 [M]. 北京: 科学出版社, 2009: 58–64.

#### 附图：长耳吊丝竹实物图片

Attached figure: Photographs of *Dendrocalamus longiauritus* S. H. Chen, K. F. Huang et R. S. Chen



A. 茎丛；B. 茎上分枝；C. 竹笋；D. 茎箨；E. 茎箨背面顶部近观(示其长而大的箨耳)；F. 茎箨腹面顶部近观。

A. Culm; B. Part of culm, showing branching pattern; C. Bamboo shoots; D. Culm-sheath; E. Near view of culm-sheath back at top (showing long and larger view of culm-sheath auricle); F. Near culm-sheath abdomen at top.

(责任编辑: 张平)