

中国竹类二新种及某些种类花的补充描述

夏念和 贾良智

(中国科学院华南植物研究所, 广州 510650)

摘要 本文记载了中国西南牡竹属二新种, 席竹 *Dendrocalamus exilis* Xia et Chia, 钓鱼竹 *Dendrocalamus guiyangensis* Xia et Chia, 并对妈竹 *Bambusa boniopsis* McCl., 大眼竹 *B. eutuldoides* McCl., 撑篙竹 *B. pervariabilis* McCl., 紫秆竹 *B. textilis* McCl. cv. *Purpurascens* 和佛肚竹 *B. ventricosa* McCl. 的花作了补充描述。

关键词 禾本科; 竹亚科; 牡竹属; 簕竹属; 席竹; 钓鱼竹

SOME NEW AND IMPERFECTLY KNOWN SPECIES OF BAMBOOS FROM CHINA

Xia Nianhe Jia Liangzhi (Chia Liang-chi)

(South China Institute of Botany, Academia Sinica, Guangzhou 510650)

Abstract Two new species of bamboo, *Dendrocalamus exilis* and *D. guiyangensis*, are described. The flower description of *Bambusa pervariabilis*, *B. eutuldoides*, *B. boniopsis*, *B. ventricosa* and *B. textilis* cv. *Purpurascens* is given.

Key words Bamboo; Gramineae; Bambusoideae; *Dendrocalamus*; *Dendrocalamus exilis*; *Dendrocalamus guiyangensis*; *Bambusa*

席竹

Dendrocalamus exilis Xia et Chia, sp. nov. Fig. 1

Species haec a *Dendrocalamo tsiangii* (McClure) Chia et H. L. Fung differt culmis gracilibus 1.5-2 cm diametro, nodis culmi nonnallis basalibus infra et supra cicatricem vaginae annulo pilorum bruneolorum sericeorum obtectis, vaginis culmi apice arcuate concavis, ligulis undulatis margine setis fimbriatis instructis quibus inferne hispidulis apice rectis, laminis foliorum subtus dense pubescentibus.

Culms 5-8 m tall, 1.5-2 cm in diameter, with pendulous tips; lower internodes 20-26 cm long, densely farinose when young; nodes decorated with a ring of lightly brown silky hairs above and below each sheath-scar on the basal several nodes; branches usually emerged from the 3rd to 6th nodes upward, many fascicled at each node. Culm sheaths deciduous, arched-concave at apex, nearly entirely covered with dark brown appressed bristly hairs on

the outer surface; auricles rudimentary, oral setae minute and glabrous; ligules undulate, 4 mm high in the middle, margins provided with fimbriate bristles which subequal in length, about 10 mm long, lower part flat, hispidulous, upper part very often not lacinate, apex straight; blades reflexed, narrowly linear-lanceolate. Leaf blades linear to broadlinear, 9–15 cm long, 1.2–2 cm wide, lower surface dense hispidulous. Inflorescences unknown.

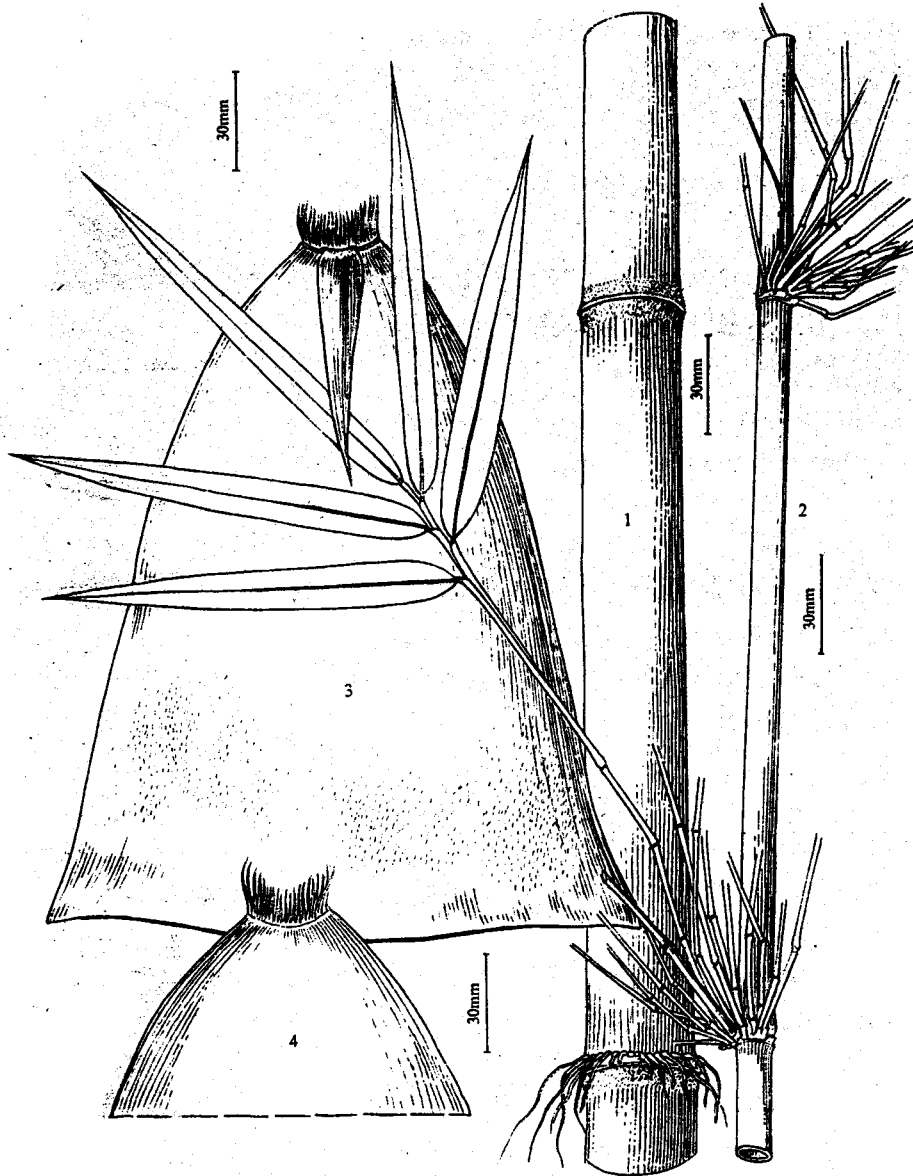


Fig. 1 *Dendrocalamus exilis* Xia et Chia

1. Nodes and internode; 2. Leafy branch; 3. Culm leaf, dorsal view; 4. Upper portion of culm leaf, ventral view (Drawn by Deng Yinfeng)

Guizhou(贵州): Libo (荔波), Dongtang (东塘), 8. XI. 1979, Nan-zhu 2693 (Typus, IBSC); Libo (荔波), Chengguan (城关), 9. XI. 1979, Nan-zhu 2694.

钓鱼竹

Dendrocalamus guiyangensis Xia et Chia, sp. nov. Fig. 2

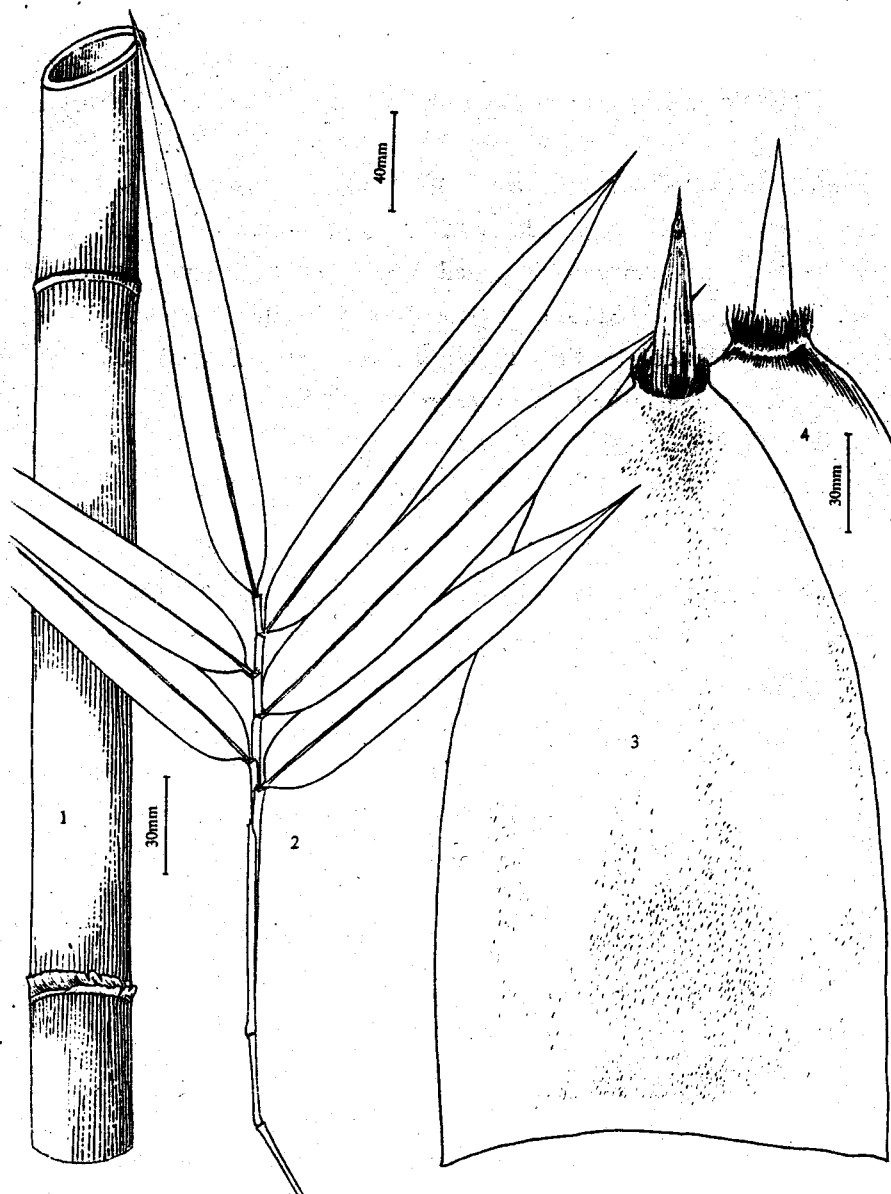


Fig. 2 *Dendrocalamus guiyangensis* Xia et Chia

1. Nodes and internode; 2. Leafy branch; 3. Culm leaf, dorsal view; 4. Upper portion of culm leaf, ventral view (Drawn by Deng Yinfeng)

A proximo *Dendrocalamo exili* Xia et Chia distinguitur culmis crassioribus 2–4 cm diametro, setis oralibus vaginarum culmorum hirsutis, ligulis vaginarum arcuate concavis 2 mm altis, laminis vaginarum anguste lanceolatis, laminis foliorum majoribus lineari-lanceolatis usque anguste lanceolatis 15–26 cm longis et 2–3.5 cm latis, ligulis margine ciliatis ciliis minutis 1–1.5 mm longis vestitis.

Culms 6–8 m tall, 2–4 cm in diameter, with pendulous tips; internodes 24–26 cm long, thinly farinose when young; nodes surrounded with a ring of lightly brown silky hairs above and below each sheath-scar on the basal several nodes; branches usually emerged from the fifth node upward, many fascicled at each node; culm-sheaths deciduous, apex arched-concave, nearly entirely covered with dark brown appressed bristly hairs on the outer surface; auricles very small or rudimentary, oral setae several, hirsute; ligules arched-concave, 2 mm high, margin provided with fimbriate bristles which subequal, 10–15 mm long, lower part flat, strigose, upper part very often not lacinate, apex straight; blades reflexed, narrowly lanceolate. Leaf blades linear-lanceolate to linear, 15–26 cm long, 2–3.5 cm wide, pubescent beneath. Inflorescences unknown.

Guizhou (贵州): Guiyang (贵阳), Ergezhai (二戈寨), 14. XI. 1979, Nan-zhu 2695; Guiyang (贵阳), Huaxi (花溪), 28. XI. 1979, Nan-zhu 2705 (Typus, IBSC).

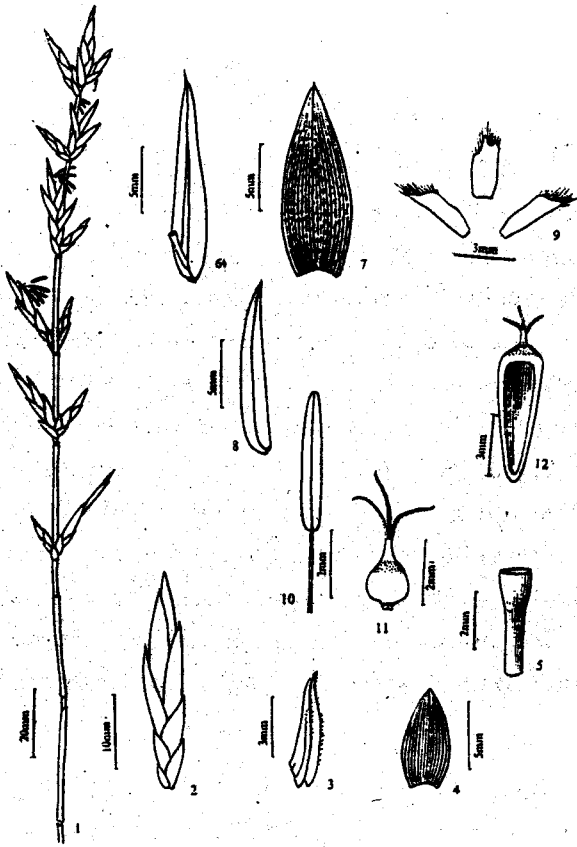
妈竹

Bambusa boniopsis McClure in Lingnan Univ. Sci. Bull. No. 9: 7, 1940. Fig. 3

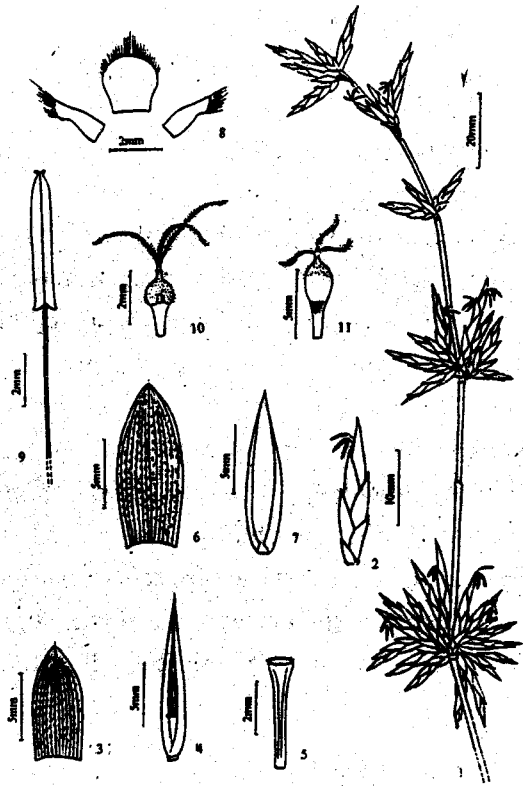
Inflorescences iterant. Pseudospikelets sessile, fasciculate at each node of flowering branches and branchlets, linear, 2–3 cm long; spikelets containing 4–5 florets, the intermediate 2–3 florets perfect, subtended by several bud-bearing bracts at base; prophylls about 5 mm long, 2-keeled, keels sparsely ciliolate towards tips; rachilla disarticulated between florets, segments flat and glabrous, 3–4 mm long, exceedingly inflated at apex; empty glume only 1, ovate-oblong, 6.5–7 mm long, glabrous, 11–13-nerved, acute at apex; lemmas oblong-lanceolate, 12–15 mm long, glabrous, marked with very small purple spots on outer surface, 17–19-nerved, acute and apiculate at apex; paleas anguste, 10–12 mm long, 2-keeled, ciliolate towards tips of keels, 4-nerved between and 3-nerved on either side of keels; lodicules 3, long ciliate at apex, anterior 2 anguste and oblique, 4 mm long, posterior one nearly oblong, 3 mm long, tridentate at apex; stamens 6, filaments filiform, anthers yellow, 4.5 mm long, retuse at apex; ovary very broadly ovoid, 1 mm long, hispidulous at apex, style single, 0.8 mm long, stigmas 3, plumose, 2 mm long. Caryopsis obconiform when young, 7 mm long, hispidulous and retained with remains of stigmas at apex.

大眼竹

Bambusa eutuldoides McClure in Lingnan Univ. Sci. Bull. No. 9: 8, 1940. Fig. 4

Fig. 3 *Bambusa boniopsis* McCl.

1. Flowering branch; 2. Spikelet; 3. Prophyll; 4. Empty glume;
5. Part of rachis; 6. Floret; 7. Lemma; 8. Palea; 9. Lodicules;
10. Stamen; 11. Gynoeceium; 12. Caryopsis
(Drawn by Deng Yinfeng)

Fig. 4 *Bambusa eutuldoides* McCl.

1. Flowering branch; 2. Spikelet; 3. Empty glume;
4. Floret; 5. Part of rachis; 6. Lemma; 7. Palea;
8. Lodicules; 9. Stamen; 10. Gynoeceium; 11. Young
caryopsis (Drawn by Deng Yinfeng)

Inflorescences iterant. Pseudospikelets sessile, fasciculate at each node of flowering branches and branchlets, linear, 2.5–5.5 cm long; spikelets containing 5–6 florets, subtended by several bud-bearing bracts at base; rachilla disarticulated between florets, segments flat, 3–4 mm long, inflated and ciliate at apex; empty glume only one, oblong, 9–10 mm long, glabrous, marked with very small tiny purple spots on outer surface, 11-nerved, acute and apiculate at apex, lemmas oblong, 12–13 mm long, glabrous, marked with very small purple spots on the outer surface, 13–15-nerved, acute and apiculate at apex; paleas lanceolate, about 11 mm long, 2 keeled, ciliate towards tip of keels, 4-nerved between and 2-nerved on either side of keels; lodicules 3; unequal, long ciliate at apex, anterior 2 anguste, about 2 mm long, posterior 1 larger, broad obovate or subrotund, about 2 mm long; stamens 6, filaments filiform, anthers about 5 mm long, divaricate at apex; ovary subglobulose, 1 mm in diameter, hispidulous at apex, style single, extremely short, hispidulous, stigmas 3, plumose. Caryopsis nearly obovoid when young, 5 mm long, hispidulous and retained with remains

of stigmas at apex.

撑篙竹

Bambusa pervariabilis McClure in Lingnan Univ. Sci. Bull. No. 9: 13, 1940. Fig. 5

Inflorescence itercaucant. Pseudospikelets sessile, solitary or fasciculate at each node of flowering branches and branchlets, linear, 2–5 cm long; spikelets containing 5–10 florets, subtended by 2 or 3 bud-bearing bracts at base; rachilla disarticulated between florets, segments flat, about 4 mm long; empty glume only one, oblong, about 6 mm long, glabrous, 9-nerved, acute at apex; lemmas oblong-lanceolate, 12–14 mm long, glabrous, 13–15-nerved, pungent at apex; paleas as long as the lemma or slightly shorter, anguste, 2-keeled, ciliolate on the upper half of keels, 6-nerved between and 3-nerved on either side of keels; lodicules 3, unequal, long ciliate at apex, anterior 2 oblique, about 2.7 mm long, posterior 1 obovate-oblong, about 3 mm long; stamens 6, filaments shorter, anthers about 5 mm long, divaricate at apex; ovary oblong, about 1 mm long, hispidulous at apex, style single, hispidulous, about 1 mm long, stigmas 3, plumose, about 3 mm long. Caryopsis broad ovoid when young, 1.5 mm long, hispidulous and retained with remains of stigmas at apex.

紫秆竹

Bambusa textilis McClure cv. *Purpurascens* (Xia) Chia in Guihaia 8(2): 127, 1988. Fig.

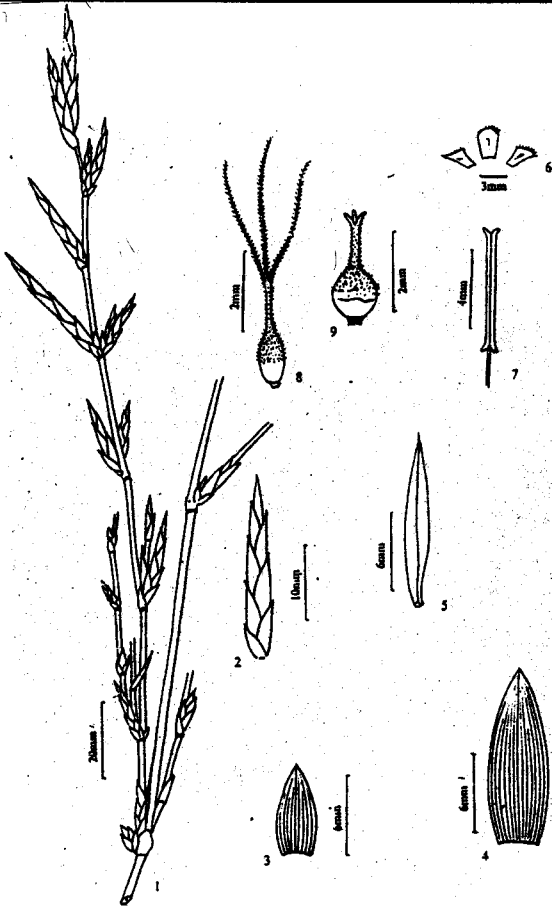
6 — *B. textilis* McClure var. *purpurascens* Xia in Bamb. Res. 1985, (1): 38, f. 2, 1985.

Inflorescens itercaucant. Pseudospikelets sessile, fasciculate at each node of flowering branches and branchlets, linear-lanceolate, 2–5.5 cm long, 5–10 mm wide; spikelets *purpurascens*, containing 5–13-florets, subtended by several bud-bearing bracts at base; prophylls about 4 mm long, 2-keeled, ciliolate along the keels; bud-bearing bracts glabrous, narrowly triangular, 6 mm long, 13-nerved, acute and mucronate at apex; rachilla disarticulated between florets, segments flat, 5 mm long, glabrous, slightly inflat at apex; empty glume only 1, ovate, about 10 mm long, glabrous, 15-nerved, acute and apiculate at apex; lemmas broadly elliptic, 16 mm long, glabrous, 25-nerved, acute and apiculate at apex; paleas lanceolate, 15 mm long, 2-keeled, glabrous, 7-nerved between and 5-nerved on either side of keels; lodicules 3, long ciliate at apex, anterior 2 oblique, slightly diversiform, about 2.5 mm long, posterior 1 elliptic, 3 mm long; stamens 6, filaments filiform, anthers 5 mm long; ovary broadly ovoid, 1 mm long, hispidulous at apex, style single, extremely short, hispidulous, stigmas 3, plumose, 7 mm long. Caryopsis slightly curved, somewhat terete, about 11 mm long, hispidulous and retained with remains of stigmas at apex.

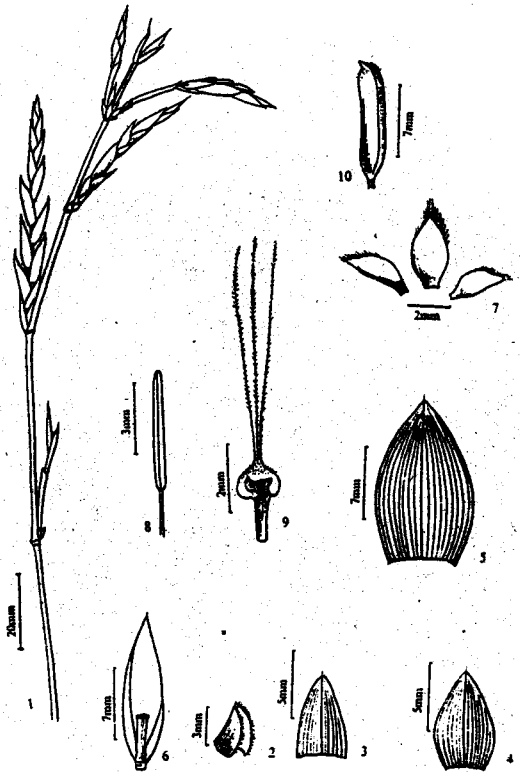
佛肚竹

Bambusa ventricosa McClure in Lingnan Sci. J. 17(1): 57, pl. 5, 1938. Fig. 7

Inflorescence itercaucant. Pseudospikelets sessile, solitary or fasciculate at each node of

Fig. 5 *Bambusa pervariabilis* McCl.

1. Flowering branch; 2. Spikelet; 3. Empty glume;
 4. Lemma; 5. Palea; 6. Lodicules; 7. Stamen;
 8. Gynoecium; 9. Young caryopsis
- (Drawn by Deng Yinfeng)

Fig. 6 *Bambusa textilis* McCl. cv. *Purpurascens*

1. Flowering branch; 2. Prophyll; 3. Bud-bearing bract;
 4. Empty glume; 5. Lemma; 6. Palea; 7. Lodicules;
 8. Stamen; 9. Gynoecium; 10. Caryopsis
- (Drawn by Deng Yinfeng)

flowering branches and branchlets, linear-lanceolate, slightly compressed, 3–4 cm long; spikelets containing 10–12 florets, the intermediate 6–8 florets perfect, lowest 1–2 and uppermost 2–3 florets sterile, subtended by 1–2 bud-bearing bracts at base; prophylls broadly ovate, 2.5–3 mm long, 2-keeled, ciliolate along the keels; bud-bearing bracts narrowly ovate, 4–5 mm long, glabrous, 13–15-nerved, acute at apex; rachilla disarticulated between florets, segments flat, 2–3 mm long, cuplike and ciliolate at apex; empty glume absent or 1, ovate-elliptic, 6.5–8 mm long, glabrous, 15–17-nerved, acute at apex; lemmas ovate-elliptic, 9–11 mm long, glabrous, 19–21-nerved, acute at apex; paleas as long as the lemmas, 2-keeled, ciliolate towards the apex of keels, 4-nerved between and 4-nerved on either side of keels; lodicules 3, about 2 mm long, long ciliate at apex, anterior 2 oblique, posterior 1 broad elliptic; stamens 6, filaments filiform, anthers yellow, 6 mm long; ovary broadly ovoid, 1–1.2 mm long, hispidulous at apex, style single, extremely short, stigmas 3,

plumose, 6 mm long. Caryopsis unknown.

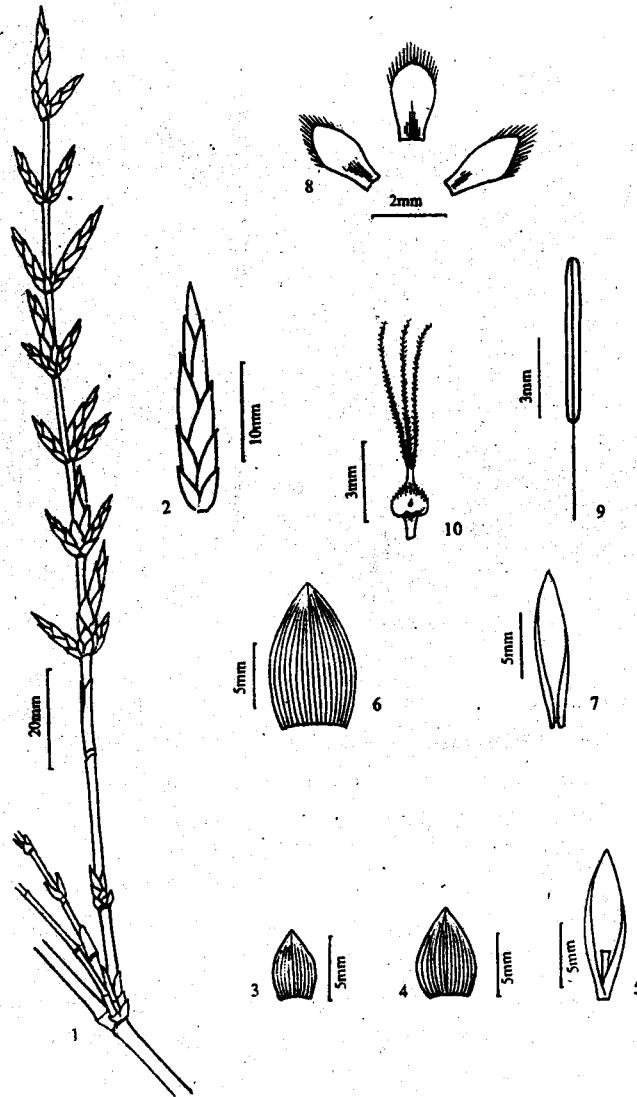


Fig.7 *Bambusa ventricosa* McCl.

1. Flowering branch; 2. Spikelet; 3. Bud-bearing bract; 4. Empty glume; 5. Floret; 6. Lemma;
7. Palea; 8. Lodicules; 9. Stamen; 10. Gynoecium (Drawn by Deng Yinfeng)