

贵州竹子新报道

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摘 要 发表了产于贵州的玉山竹属 2 新种, 即窄叶玉山竹和细弱玉山竹。赤竹 (*Sasa longiligula* McClure)、单枝竹 (*Bonja saxatilis* Chia H. L. Fung et Y. L. Yang) N. H. Xia 为贵州新分布竹种, 并对其中赤竹的花做了补充描述。

关键词 窄叶玉山竹; 细弱玉山竹; 新种; 赤竹; 单枝竹; 新分布; 补充; 贵州; 中国

New Bamboo from Guizhou, China

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Abstract *Yushania angustifolia* Yi et J. Y. Shi and *Yushania tenuicaulis* Yi et J. Y. Shi two new species of the Bambusoideae from Guizhou, China, are described and illustrated. This paper also records new distribution of *Sasa longiligula* McClure and *Bonja saxatilis* Chia H. L. Fung et Y. L. Yang) N. H. Xia on Guizhou and gives first supplementary descriptions for flower of *Sasa longiligula* McClure.

Key words *Yushania angustifolia* Yi et J. Y. Shi, *Yushania tenuicaulis* Yi et J. Y. Shi new species, *Sasa longiligula* McClure, *Bonja saxatilis* Chia H. L. Fung et Y. L. Yang) N. H. Xia, new distribution, supplement, Guizhou, China.

窄叶玉山竹(自拟) 新种 图 1

Yushania angustifolia Yi et J. Y. Shi sp. nov. Fig. 1.

Species similis *Y. confusae* (McClure) Z. P. Wang et G. H. Ye, sed internodiis cylindricis basi haud complanatis in latere ramuloso brevioribus (6) 16~22 cm longis, laminae vaginarum ad culmum inferum erectis vel supeme reflexis glabris auriculis foliorum inconspicuis laminae subtus cinereo-viridibus glabris nervis secundariis 3~4-jugis differt.

Colla culmi 17~40 cm longa, 2.5~4 mm crassa, internodiis 4~10 mm longis solidis. Culmi sparsim

1.5~2 m alti, 0.5~0.7 cm diametro, apice erecti, internodiis cylindricis (6) 16~22 cm longis glabris minute purpureo-punctulosis farinosis infra nodos minute cavemosi, nodi vaginarum purpureo-brunnei glabri leviter prominentes, nodi culmorum plani, intranodiis 1~2 mm altis. Gemma culmi 1, adpressa. Ramus 1 in quoque nodo culmi inferi erectus, crasso leviter diametro caulis aequantibus 3 in quoque nodo culmi superi crassiore in medio crescens. Turio purpureus vaginae culmorum persistentes longitudine $c. 1/3 \sim 2/5$ internodii obtegentes, dorso dense brunneo tuberculato horizontali sessis dense brunneo ciliatis auriculae nullae, setae

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收稿日期: 2007-01-30

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orales 1~2 in unilaterē 1~3 mm longae caducae ligulae purpureae sub truncatae glabrae 0.5~1 mm altae laminae ad culmum inferum erectae vel supeme reflexae lineari lanceolatae glabrae 0.3~2.5 cm longae 1~2(3) mm latae margine serrulatae Folia 4~6(8) in quoque ramulo vaginae glabrae auriculae inconspicuae setae orales 2~3 in unilaterē 0.3~0.8 cm longae erectae purpureae ligulae purpureae oblique truncatae 0.5~1 mm altae Petioli 1~2 mm longi laminae angustolanceolatae 10~13 cm longae 0.6~1 cm latae apice acuminatae basi cuneatae subtus cinereo viridulae glabrae nervis secundariis 3~4-jugis nervillis transversis rectangulari longo tessellatis margine serrulatae Inflorescentia ignota Turiones Septembris geminantes

Guizhou(贵州): Guiyang(贵阳), Erguozhai(二锅寨), alt 1160 m, Guizhou Academy of Forestry Bamboo Garden, Cultured 2006-11-04, Yi Tongpei(易同培) 06090 (holotype, SFS=SAUD).

秆柄长 17~40 cm 直径 2.5~4 mm 节间长 4~10 mm 实心。秆散生,高 1.5~2 m 直径 0.5~0.7 cm 梢头直立;节间圆筒形,长(6)16~22 cm 无毛,具细小紫色斑点,节下被一圈白粉,中空很小;箨环紫褐色,无毛,稍隆起;秆环平;节内高 1~2 mm 秆芽 1 枚,贴生。枝条在秆下部每节上为 1 枚,直立,直径稍小于主秆,秆上部每节上为 3 枚,中间 1 粗较粗壮。笋紫色;箨鞘宿存,长约为节间长度的 1/3~2/5 背面密被棕色直出瘤基刺毛,边缘密生棕色纤毛;箨耳缺失,鞘口每侧具 1~2 枚长 1~3 mm 早落之繸毛;箨舌紫色,近截平形,无毛,高 0.5~1 mm;箨片在秆下部者直立,上部者外翻,线状披针形,长 0.3~2.5 cm 宽 1~2(3) mm 无毛,边缘有细锯齿。每小枝具叶 4~6(8)枚;叶鞘无毛;叶耳不明显,鞘口两侧各具繸毛 2~3 枚,长 0.3~0.8 cm 直立,紫色;叶舌紫色,斜截形,高 0.5~1 mm;叶柄长 1~2 mm 叶片狭披针形,长 10~13 cm 宽 0.6~1 cm 先端渐尖,基部楔形,下面淡灰绿色,无毛,次脉 3~4 对,小横脉组成长方形,边缘具小锯齿。花枝未见。笋期 9 月。

本种与鄂西玉山竹(*Y. confusa* (McClure) Z. P. Wang et G. H. Ye)相近似,不同在于节间圆筒形,分枝一侧基部不扁平,较短,长(6)16~22 cm 箨片在秆下部者直立,秆上部者外翻,无毛;叶耳不

明显,叶片下面淡灰绿色,无毛,次脉 3~4 对。

细弱玉山竹(自拟) 新种 图 2

Yushania tenuicaulis Yi et J. Y. Shi Fig. 2

Species nova *Y. uniramosa* Hsueh et Yi affinis sed turionibus minute albo strigosis auriculis vaginarum minutis setis oralibus 4~5, 1~3 mm longis foliis 4~5(8) in quoque ramulo auriculis nullis vel inconspicuis setis oralibus 4~5 laminae minoribus (10)12~15 cm longis et 1.2~1.5 cm latis nervis secundariis 4~5-jugis differt

Rhizoma sympodialia colla culmi 15~35 cm longa 2.5~3.5 mm crassa internodiis 3~10 mm longis solidis Culmi sparsi 1~1.5 m alti 2.5~4 cm diametro apice secundi internodiis teretibus (5)12~17 cm longis minute purpureo puncticulatis farinosis infra nodos glabris parvissimo cavemosis nodi vaginarum purpureo brunnei leviter prominentes glabri nodi culmorum plani internodiis 1~2 mm altis Ramuli in quoque nodo erecti cum culmis aequicrassi Vaginae culmorum persistentes longitudine $\frac{1}{3}$ ~ $\frac{1}{2}$ internodii obtegentes coriaceae purpureae glabrae vel nonnunquam minute albo strigosae in turionibus albo vel brunneo ciliatae auriculae minutae purpureae setae orales 4~5 in numero 1~3 mm longae delapsae ligulae arcuatae vel prope modo truncatae purpureae $\frac{1}{2}$ ~0.5 mm altae laminae ad culmum inferum erectae vel supeme reflexae lineari lanceolatae 0.5~1.2 cm longae 1~2 mm latae primo purpureae Folia 4~5(8) in quoque ramulo auriculae nullae vel inconspicuae setae orales 4~5 in numero purpureae strictae (1)3~4 mm longae ligulae purpureae truncatae vel prope modo arcuatae $\frac{1}{2}$ ~0.5 mm altae Petioli $\frac{1}{2}$ ~2 mm longi glabri laminae lanceolatae (10)12~15 cm longae 1.2~1.5 cm latae apice acuminatae basi cuneatae glabrae subtus cinereo albae nervis secundariis 4~5-jugis nervillis transversis rectangulari longo tessellatis margine serrulatae Inflorescentia ignota Turiones Septembris geminantes

Guizhou(贵州): Guiyang(贵阳), Erguozhai(二锅寨), alt 1160 m, Guizhou Academy of Forestry Bamboo Garden, Cultured 2006-11-04, Yi Tongpei(易同培) 06089 (holotype, SFS=SAUD).

地下茎合轴型, 秆柄长 15~35 cm 直径 2.5~3.5 mm, 节间长 3~10 mm, 实心。秆散生, 高 1~1.5 m 直径 2.5~4 mm, 梢部斜依; 节间圆柱形, 长 (5)12~17 cm 具细小紫色斑点, 节下被一圈白粉, 无毛, 中空很小; 箨环紫褐色, 无毛, 稍隆起; 秆环平; 节内高 1~2 mm。秆每节分枝 1 枚, 直立, 与主秆近等粗。笋紫色; 箨鞘宿存, 长约为节间长度的 1/3~1/2 革质, 紫色, 无毛或笋期有时被白色小硬毛, 边缘被白色或褐色纤毛; 箨耳微小, 紫色, 边缘具 4~5 枚长 1~3 mm 脱落性之繸毛; 箨舌近截平形或圆弧形, 紫色, 高约 0.5 mm; 箨片在秆下部者直立, 上部者外翻, 线状披针形, 长 0.5~1.2 cm 宽 1~2 mm, 初时紫色。小枝具叶 4~5 (8) 枚; 叶耳无或不明显, 鞘口繸毛 4~5 枚, 紫色, 平直, 长 (1)3~4 mm; 叶舌紫色, 截平形或近弧形, 高约 0.5 mm; 叶柄长约 2 mm 无毛; 叶片披针形, 长 (10)12~15 cm 宽 1.2~1.5 cm 先端渐尖, 基部楔形, 无毛, 下面灰白色, 次脉 4~5 对, 小横脉组成长方形, 边缘具小锯齿。花枝未见。笋期 9 月。

本种近似单枝玉山竹 (*Y. uniramosa* Hsueh et Yü) 但笋被白色小硬毛; 箨耳微小, 鞘口繸毛 4~5 枚, 长 1~3 mm; 小枝具叶 4~5 (8) 枚, 叶耳无或不明显, 鞘口繸毛 4~5 枚, 叶片较小, 长 (10)12~15 cm 宽 1.2~1.5 cm 次脉 4~5 对, 易于区别。

赤竹 图 3 (F 图 3)

Sasa longiligulata McClure in *Lingnan Sci. Journ.* **19**: 536. 1940. Y. L. Keng, Fl. Ill. Pl. Prim. Sin. Gram. II. f. 2. 1959. C. H. Hu in *Bamb. Res.* **1985** (2): 59. 1985. S. L. Zhu etc., *A Comp. of Chin. Bamb.* 224. 1994. Fl. Reip. Pop. Sin. **9** (1): 664. Pl. 202. 1996. Fl. Chin. **22**: 110. 2006.

Racemi tenenti 3~5-spiculis sparse dispositi et patentes 4~6 (8) cm longi rhachidibus glabris pedicellis gracilibus glabris 1~2.5 cm longi spiculae 3-florae 1~1.5 cm longae rhachilla articuli 1.5~2.5 mm longi complanati glabri glumae 2 lineari lanceolatae glabrae prima 4~8 mm longae 3-nervis secunda 8~12 mm longae 5-nervis lemma ovato lanceolatum 7~8 mm longum gla-

brium leviter nitidum supeme pubescens 5 (7)-nervis inconspicuis palea lemma aequans supeme pubescens apice leviter bifida dorso bicarinata pediculae 3 lanceolatae c. 1 mm longae margine ciliatae stamina 2, pistillum 1, ovarium oblongo ellipticum grabrum 1.5~4 mm longum stylus 1, stigma 2 plumosa. Fructus ignotus. Floret Martio

总状花序顶生, 稀疏, 开展, 含 3~5 枚小穗, 长 4~6 (8) cm 花序轴无毛; 小穗柄纤细, 长 1~2.5 cm 无毛; 小穗长 1~1.5 cm 含 3 朵小花; 小穗轴节间近轴面扁平, 无毛, 长 1.5~2.5 mm; 颖片 2 线状披针形, 无毛, 第一颖长 4~8 mm 具 3 脉, 第二颖长 8~12 mm 具 5 脉; 外稃卵状披针形, 长 7~8 mm 无毛, 稍具光泽, 上部被微毛, 具不明显 5 (7) 脉; 内稃等长于外稃, 上部被微毛, 先端微 2 裂, 背部具 2 脊; 鳞被 3 披针形, 长约 1 mm 边缘具纤毛; 雄蕊 3; 雌蕊 1, 子房长圆状椭圆形, 无毛, 长 1.5~4 mm 花柱 1, 柱头 2 羽毛状。果实未见。花期 3 月。

Guizhou (贵州): Jiangkou (江口), Fanjingshan Nature Reserve (梵净山自然保护区), Yuao (鱼坳), alt 800 m, 2006-04-16 Yang Chuandong (杨传东) 06001 (SFS=SAUD); same locality 2006-10-06 Shi Junyi (史军义) 06001 (vegetative organ).

单枝竹 苦竹 (贵州荔波) 阿布勒 (布依语译音, 贵州荔波)

Bonia saxatilis (Chia H. L. Fung et Y. L. Yang) N. H. Xia in *Kew Bull.* **51**: 567. 1996. Fl. Chin. **22**: 49. 2006. — *Monocladus saxatilis* Chia H. L. Fung et Y. L. Yang in *Act. Phytotax. Sin.* **26** (3): 215. fig. 1. 1988. S. L. Zhu etc., *A Comp. of Chin. Bamb.* 24. 1994. Fl. Reip. Pop. Sin. **9** (1): 40. Pl. 9. 1996. — *Sasa tomentosa* auct. non C. D. Chu et C. S. Chao K. M. Lan in *Fl. Guizhou* **5**: 324. Pl. 108. 1988.

Guizhou (贵州): Libo (荔波), Yongkang (永康), on calcareous rocks alt 600~1000 m, 2006-11-05 Yi Tongpei (易同培) 06091 (SFS=SAUD).

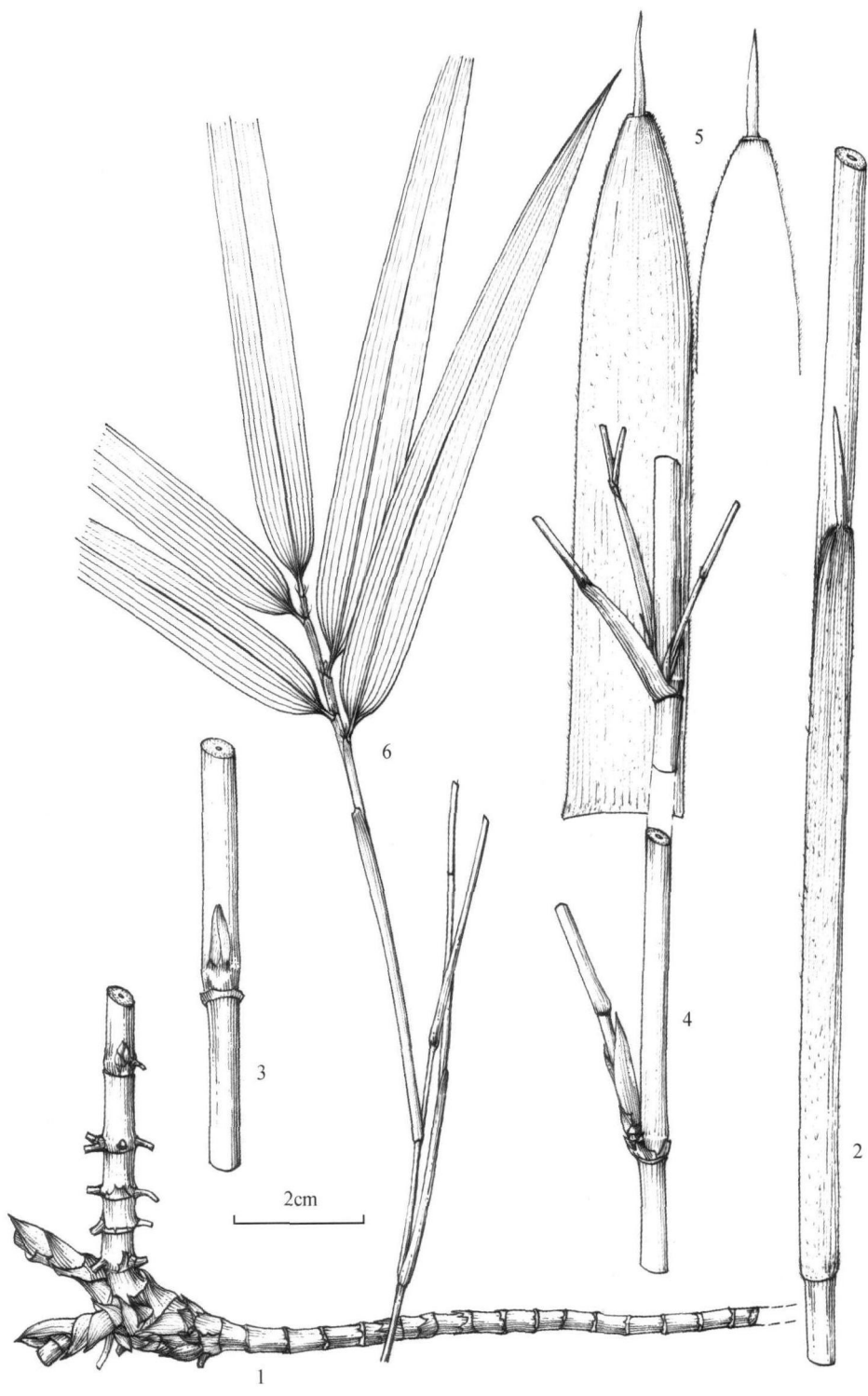


图 1 窄叶玉山竹 1 地下茎及秆基部; 2 秆之一节, 示宿存秆箨; 3 秆之一节, 示秆芽; 4 秆之一节, 示分枝; 5 秆箨; 6 具叶小枝
(杨林根据易同培 06090号标本绘)
Fig 1 Yushanjan angustifolia Yi et J. Y. Shi 1 Rhizome with basal part of culm; 2 A node of culm showing persisting culm sheath; 3 A node of culm showing its bud; 4 A node of culm showing its branching; 5 Culm sheath; 6 branchlet with leaves (Drawn by L. Yang from the type gathering T. P. Yi 06090)

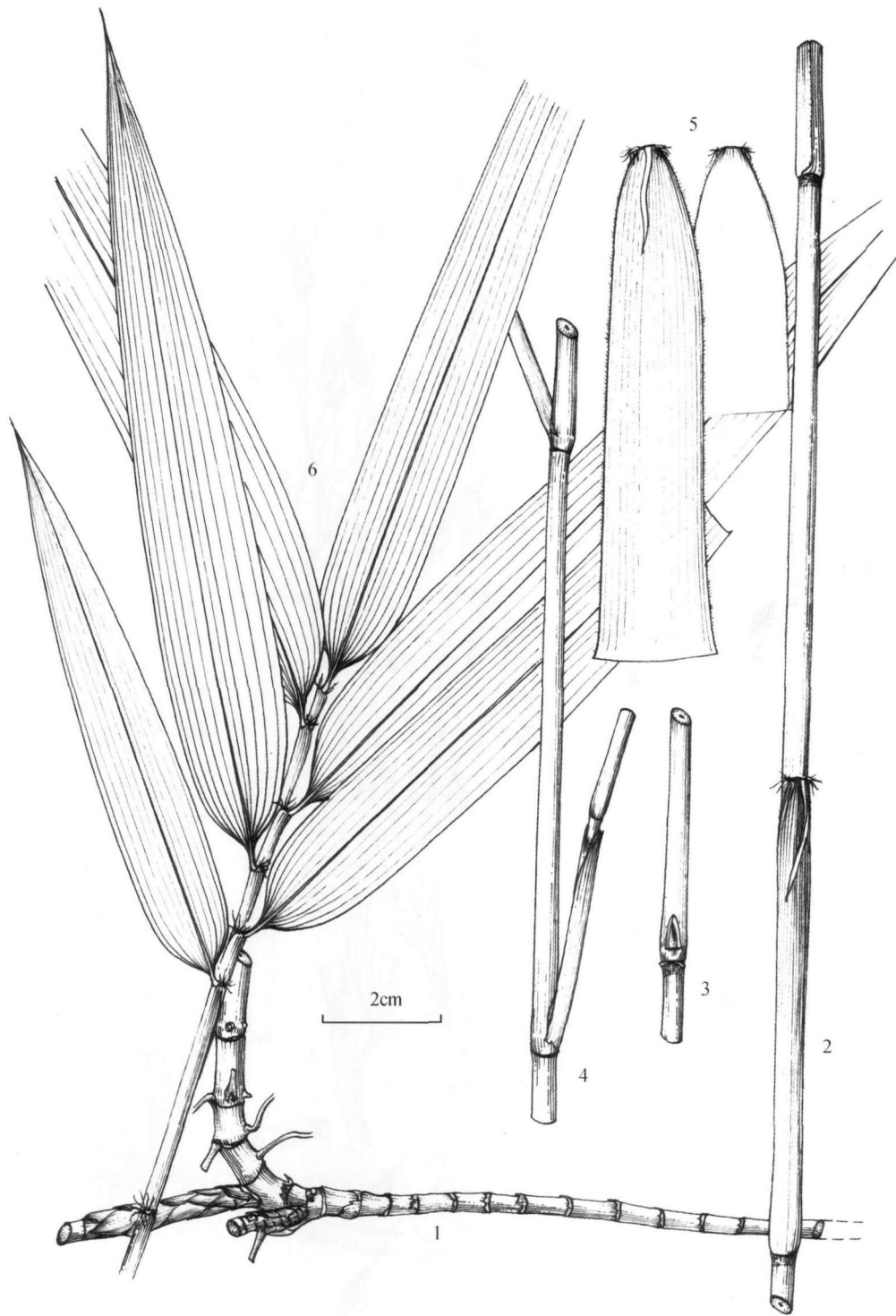


图 2 细弱玉山竹 1 地下茎及秆基部; 2 秆之一段, 示宿存秆箨; 3 秆之一节, 示秆芽; 4 秆之一段, 示分枝; 5 秆箨; 6 具叶小枝 (杨林根据易同培 06089 号标本绘)

Fig 2 Yushan bamboo 1 Rhizome with basal part of culm 2 A part of culm showing persisting culm-sheath 3 A node of culm showing its bud 4 A part of culm showing its branching 5 Culm-sheath 6 Branchlet with leaves (Drawn by L. Yang from the type gathering T. P. Yi06089)

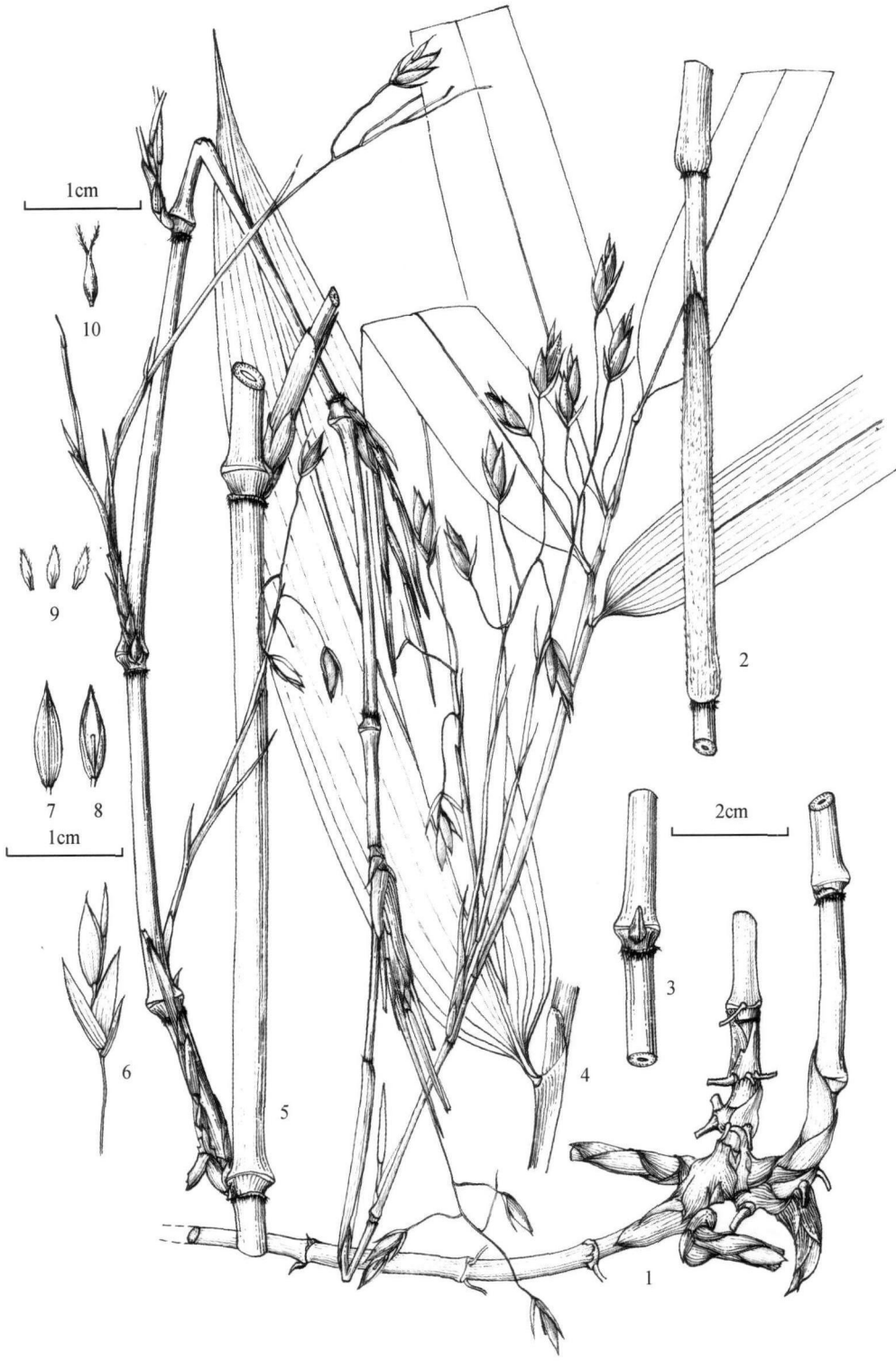


图 3 赤竹 1 地下茎及秆基部; 2 秆之一段, 示宿存秆箨; 3 秆之一节, 示秆芽; 4 叶鞘顶端及叶; 5 花枝; 6 小穗; 7 小花背面; 8 小花腹面; 9 鳞被; 10 雌蕊 (杨林根据杨传东 06001号(花枝)和史军义 06001号(营养体)标本绘)

Fig 3 *Sasa longiliglutata* McCure 1. Rhizome with basal part of culm 2. A part of culm showing persisting culm sheath 3. A node of culm showing its bud 4. Top of sheath with leaf 5. Flowering branch 6. Spikelet 7. Dorsal view of the floret 8. Ventral view of the floret 9. Lodicules 10. Pistil Drawn by L. Yang from the specimen gathering C. D. Yang 06001(flower branch) and J. Y. Shi 06001(vegetative organs)