

我国云南西部玉山竹属一新种及粗毛箭竹花部特征补记

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摘 要 发表了产于云南西部的玉山竹属一新种永德玉山竹(*Yushania yongdeensis* Yi et J. Y. Shi)。补充记载了雪山箭竹(*Fargesia lincangensis* Yi)的花部特征。

关键词 永德玉山竹; 新种; 雪山箭竹; 花补充; 云南西部; 中国

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A New Species of *Yushania* Keng f. and Supplement of Flower of *Fargesia lincangensis* Yi from West Yunnan, China

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Abstract *Yushania yongdeensis* Yi et J. Y. Shi, new species of the Bambusoideae from the West Yunnan, is described and illustrated. In addition, this paper also gives the supplementary descriptions about the character of the flower of *Fargesia lincangensis* Yi.

Key words *Yushania yongdeensis* Yi et J. Y. Shi; new species; *Fargesia lincangensis* Yi; Supplement of Flower; West Yunnan; China

永德玉山竹 毛竹(云南永德) 新种 图1

Yushania yongdeensis Yi et J. Y. Shi, sp. nov. Fig. 1

Species *Y. crassicolli* Yi affinis, sed collis culmorum gracilioribus, non nisi 0.5-0.9(1.2) cm diametro, internodiis tantum primo saepe infra nodos fulvo-setosis; internodiis ramorum glabris; vaginis culmorum dorso purpureo-maculatis vel punctatis, apice in bihumeris non altis, ligulis truncatis, laminis erectis; nervis secundariis foliorum 4(5)-jugis differt.

Rhizoma sympodiale, collum 20-92 cm longum, 0.5-0.9(1.2) cm diametro, internodiis 0.8-2 cm longis, solidis. Culmi sparsi, 5-8 m alti et 2-5.5 cm diam., apice erecti; internodiis (15) 20-28(30) cm longis, cylindricis, polite viridibus, levi-

bus, juventute infra nodos saepe fulvo-setosis, parve cavernosis, lingo 8-10 mm. vel ultra crasso; nodi vaginarum prominentes, primo dense inverse fusco-setosi; nodi culmi leviter prominentes vel prominentes; intranodiis 3-5 mm altis. Gemma 1, oblongo, adpressa, margine dense cinereo-ciliatis. Rami multi in quoque nodo, patentes, usque ad 1.5 m longi, 1.1-4 mm crassi, glabri. Turiones purpureo-virides, purpureo-maculati et punctati, dense fusco-setosi. Vaginae culmorum persistentes, papyraceae, longitudine internodii multo longioribus, dorso purpureo-maculatae, dense adpresso-fusco-tuberculato-setosae, margine dense ciliatae; auriculae nullae, setae orales 3-7, erectae, repandae, cinerae, 2-10 mm longae; ligulae truncatae, purpureae, 1-1.5 mm altae; laminae erectae lineari-triangularae vel lin-

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eari-lanceolatae, 0.6 – 7.5 cm longae, 1.3 – 4 mm latae, glabrae, margine serrulatae. Folia 3 – 5(9) in quoque ramulo; vaginae 2.8 – 4 cm longae, glabrae, haud ciliatae; auriculae nullae, setae orales 3 – 6, repandae, erectae, cinereo-albae, 3 – 6 mm longae; ligulae oblique truncatae, purpureae, c. 1 mm altae; petioli 1 – 2 mm longi; laminae lineari-lanceolatae, papyraceae, (6) 9 – 16.5 cm longae, 1.1 – 1.3 cm latae, superne virides, subtus chloroticae, glabrae, basi cuneatae, nervis secundariis 4(5) -jugis, nervillis transverses rectangulari-longo-tessellatis, margine serrulatae. Inflorescentia ignota. Turiones Septembri germinantes.

China. West Yunnan (云南西部): Yongde (永德), Daguan Shan (大关山), Nature reserve management station (保护站), alt. 2 400 ~ 2 600 m, 2007-09-26, Yi Tongpei (易同培) 07030 (holotype, SIFS = SAUD).

地下茎合轴型, 秆柄长 20 ~ 92 cm, 粗 0.5 ~ 0.9(1.2) cm, 节间长 0.8 ~ 2 cm, 淡黄色, 无毛, 光亮, 实心。秆散生, 高 5 ~ 8 m, 直径 2 ~ 5.5 cm, 梢头直立; 节间长(15) 20 ~ 28(30) cm, 圆筒形, 亮绿色, 平滑, 初时节下常被黄褐色刺毛, 中空小, 秆壁厚 8 ~ 10 mm 或更厚; 箨环隆起, 初时密被棕色下向刺毛; 秆环稍隆起或隆起; 节内高 3 ~ 5 mm。秆芽 1 枚, 长圆形, 贴生, 边缘密生灰色纤毛。秆每节分枝多数枚, 斜展, 长达 1.5 m, 粗 1.1 ~ 4 mm, 无毛。笋紫绿色, 有紫色斑块和斑点, 密被棕色刺毛。箨鞘宿存, 远长于节间长度, 纸质, 背面具紫斑, 密被贴生棕色瘤基刺毛, 密生缘毛; 箨耳缺失, 鞘口繸毛 3 ~ 7 枚, 波曲, 直立, 灰色, 长 2 ~ 10 mm; 箨舌截平形, 紫色, 高 1 ~ 1.5 mm; 箨片直立, 线状三角形或线状披针形, 长 0.6 ~ 7.5 cm, 宽 1.3 ~ 4 mm, 无毛, 边缘具小锯齿。小枝具 3 ~ 5(9) 叶; 叶鞘长 2.8 ~ 4 cm, 无毛, 亦无缘毛; 叶耳缺失, 鞘口繸毛每侧 3 ~ 6 枚, 长 3 ~ 6 mm, 波曲, 直立, 灰白色; 叶舌斜截形, 紫色, 高约 1 mm; 叶柄长 1 ~ 2 mm; 叶片线状披针形, 纸质, 长(6) 9 ~ 16.5 cm, 宽 1.1 ~ 1.3 cm, 无毛, 上面绿色, 下面淡灰绿色, 基部楔形, 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。

本种近似粗柄玉山竹(*Y. crassicollis* Yi), 但秆柄较细, 粗仅 0.5 ~ 0.9(1.2) cm; 节间仅初时常在节下具黄褐色刺毛; 枝条节间无毛; 箨鞘背面具紫

色斑块和斑点, 顶端两肩不高起, 箨舌截平形, 箨片直立; 叶片次脉 4(5) 对而不同。

优质笋用竹, 鲜食味美。秆材供编织各种竹器。

雪山箭竹 黄竹(云南永德) 花增补 图 2

Fargesia lincangensis Yi in Journ. Bamb. Res. 7(2): 13, 96. pl. 29. 1988; Icon. Arb. Yunnan. Inferus 1342. fig. 624. 1991; S. L. Zhu et al. A Comp. Chinese Bamboo 180. 1994; Fl. Reip. Pop. Sin. 9(1): 460. pl. 129: 1 – 6. 1996; Fl. Yunnan. 9: 114. 2003.

Paniculae terminales, 8 – 12 cm longi, purpureae, basi vaginis foliorum leviter expansorum tectis, foliatis vel haud foliatis, infra ramificationes basi bracteatis, ad axillas saepe tuberculatis. Pedicelli 3 – 7(20) mm longi, erecti, leviter undati, glabri; spiculae purpureae, 2.5 – 5.5 cm longae, 5 – 8-florae; rhachilla articuli (3) 4 – 8 mm longi, complanati, cinereo-albo-pubescentes; glumae 2, glabrae, apice acuminatae, setosae, prima 3 – 10 mm longa, 3-nervis, secunda 9 – 13 mm longa, 5-nervis; lemma ovato-lanceolatum, 10 – 15 mm longum, 7-nervis, nervillis conspicue horizontalibus, primo sparsim strigosum, apice longe setosum, margine breviter ciliatis; palea 7 – 11 mm longa, apice bicuspidata, in bicarinis et marginibus cinereo-albo-ciliata; lodiculae 3, rhombeo-lanceolatae, membranaceae, translucidae, ciliatae, duabus anterioribus c. 3 mm longis, una posteriore c. 2 mm longa; stamina 3, antheris luteolis, 5 – 6 mm longis; ovarium ellipticum, 1.5 – 2 mm longum, glabrum, stylis 1, stigmata 2, plumosa. Caryopsis ignota. Floret Julio, Augusto, Septembri.

China. West Yunnan (云南西部): Yongde (永德), Daxueshan (大雪山), under forestry, alt. 3 364 m, 2007-09-24, Yi Tongpei (易同培) 07024 (Fl., SIFS = SAUD); Same locality, alt. 2 600 m, 2007-09-22, Yi Tongpei (易同培) 07023 (SIFS = SAUD)

顶生圆锥花序, 长 8 ~ 12 cm, 紫色, 基部为一组稍扩大的叶鞘所包藏, 具叶片或无叶片, 下部分枝基部具苞片, 腋间常具瘤枕。小穗柄长 3 ~ 7(20) mm, 直立, 微波曲, 无毛; 小穗紫色, 长 2.5 ~ 5.5 cm, 含 5 ~ 8 朵小花; 小穗轴节间长(3) 4 ~ 8

mm, 扁平, 被灰白色微毛; 颖 2, 无毛, 先端渐尖呈刚毛状, 第一颖长 3~10 mm, 具 3 脉, 第二颖长 9~13 mm, 具 5 脉; 外稃卵状披针形, 长 10~15 mm, 先端作长刚毛状, 具 7 脉, 小横脉明显, 初时被疏硬毛, 边缘生短纤毛; 内稃长 7~11 mm, 先端 2 齿裂, 背部脊上及边缘被灰白色短纤毛; 鳞被 3, 菱状披

针形, 膜质, 透明, 边缘具纤毛, 前方 2 片长约 3 mm, 后方 1 片长约 2 mm; 雄蕊 3, 花药黄色, 长 5~6 mm; 子房椭圆形, 无毛, 长 1.5~2 mm, 花柱 1, 柱头 2, 羽毛状。果实未见。花期 7~9 月。

笋质优, 鲜食甚佳。秆材供编织家用竹器或农具。

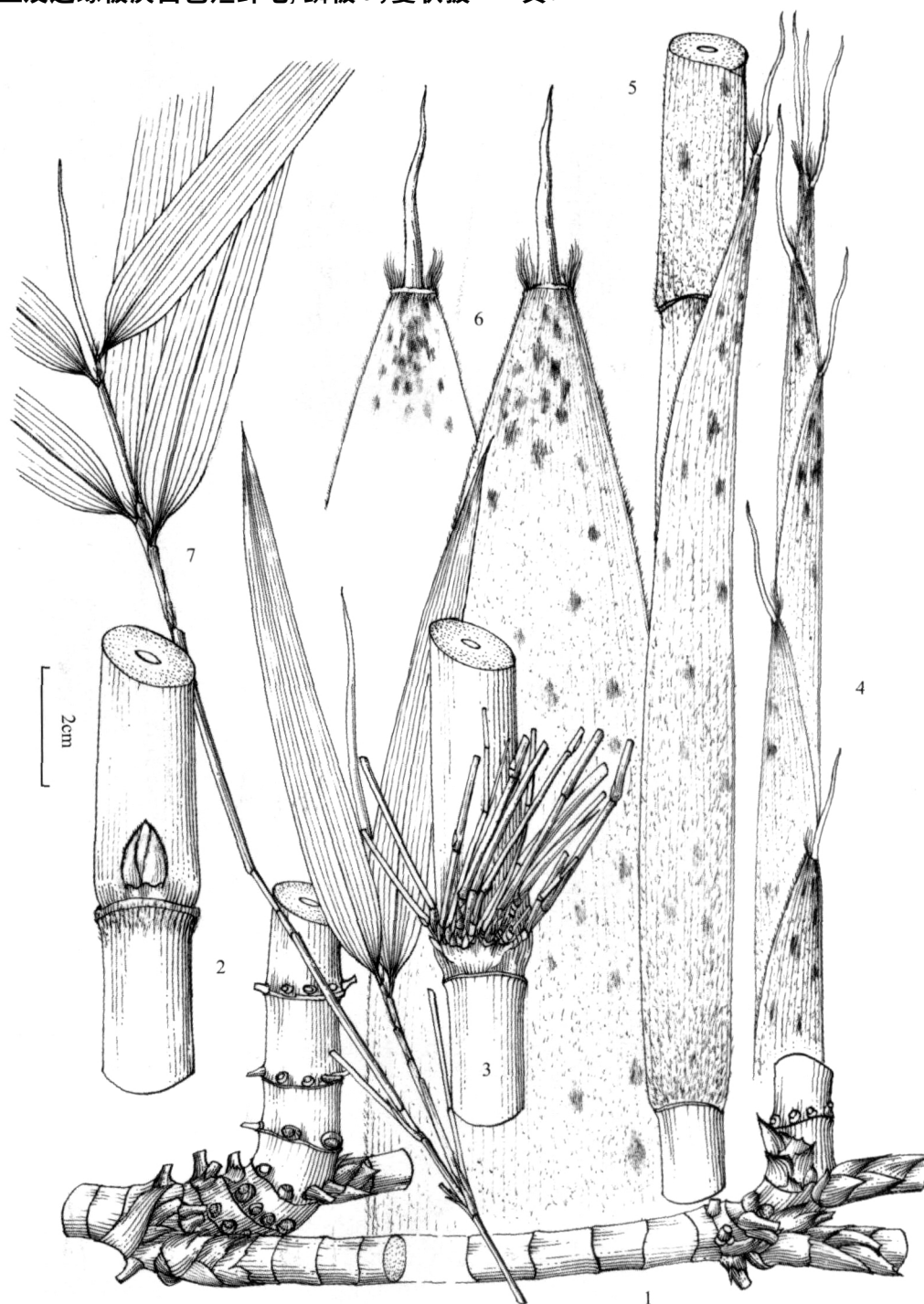


图 1 永德玉山竹 1. 地下茎及秆基; 2. 秆芽; 3. 秆分枝; 4. 笋; 5. 节间带秆箨; 6. 秆箨; 7. 具叶小枝 (杨林根据易同培 07030 号标本绘)

Fig. 1 *Yushania yongdeensis* Yi et J. Y. Shi 1. Rhizome with basal part of culm; 2. A node of culm showing its bud; 3. A node of culm showing its branching; 4. Bamboo shoot; 5. Internode with vagina; 6. Culm-sheath; 7. Branchlet with leaves (Drawn by L. Yang from the specimen gathering T. P. Yi 07030)



图2 雪山箭竹 1. 地下茎及秆基; 2. 秆芽; 3. 秆分枝; 4. 秆箨; 5. 节间带秆箨; 6. 具叶小枝; 7. 花枝; 8. 小穗柄及颖; 9. 外稃; 10. 内稃; 11. 鳞被; 12. 雄蕊; 13. 雌蕊 (杨林根据易同培 07024 号标本绘)

Fig. 2 *Fargesia lincangensis* Yi 1. Rhizome with basal part of culm; 2. A node of culm showing its bud; 3. A node of culm showing its branching; 4. Culm-sheath; 5. Internode with vagina; 6. Branchlet with leaves; 7. Flowering branch; 8. Pedicle with glumes; 9. Lemma; 10. Palea; 11. Lodicules; 12. Stamens; 13. Pistil (Drawn by L. Yang from the specimen gathering T. P. Yi 07024)