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云南西北部玉山竹属二新种

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摘要:本文发表了云南西北部玉山竹属2新种:哈巴玉山竹 *Yushnia habaensis* Yi et L. Yang 和马辮箬 *Yushania gongshanensis* Yi et L. Yang。哈巴玉山竹相似金平玉山竹 *Y. bojieana* Yi, 但秆较高大, 高4 m~7m, 直径1.5~2(2.5)cm, 节间分枝一侧基部稍扁平或有时具1浅而短的纵凹线, 纵细线棱纹较明显, 实心或近实心, 髓海绵状, 干后较硬; 箨鞘远长于节间(常长过节间1/3); 小枝具叶较少, 为(1)2枚~4枚; 叶片较窄, 宽5 mm~6.5(10) mm, 次脉较少, 为2对~3对, 区别显著。马辮箬近似弯毛玉山竹 *Y. flexa* Yi, 区别在于秆柄较粗, 直径达2 cm, 节间长达2.5(3)cm; 秆的节间较短, 长20 cm~22(26)cm, 中空; 箨鞘远长于节间, 背面疏生瘤基刺毛; 叶鞘较短, 长(1.8)2.2 cm~3.5 cm, 叶片较窄, 宽(5)6.5 mm~10 mm, 易于区别。

关键词:玉山竹属; 哈巴玉山竹; 马辮箬; 新种; 云南

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Two New Species of *Yushania* Keng f. (Poaceae) from Northwestern Yunnan in China

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Abstract: In this paper two new species of *Yushania* Keng f. are reported from Northwestern Yunnan. *Yushnia habaensis* Yi et L. Yang is similar to *Y. bojieana* Yi, but taller culms, 4~7 m high, 1.5~2(2.5) cm diam., internodes complanate or short longitudinal ditch on base a side of ramification, obviously longitudinal bridles, solid or subsolid, spongioplasm medullary and rigidity by drying; culm-sheaths culm sheath as long as internodes (length over 1/3 of internode), a few leaves, 2~4 per ultimate branch, narrower blade, 5~6.5(10) mm broad, secondary veins 2~3 paired. *Yushania gongshanensis* Yi et L. Yang separates from *Y. flexa* Yi by rhizome neck of thicker, to 2 cm diam, internodes to 2.5(3) cm long; shorter internodes of culms, 20~22(26) cm long, hollow, longer than internodes, back surface sparse tuberculate setose; shorter leaf-sheath, (1.8) 2.2~3.5 cm, narrower blades, (5) 6.5~10 mm wide.

Key words: *Yushania* Keng f., *Y. habaensis* Yi et L. Yang, *Y. gongshanensis* Yi et L. Yang, New species, Yunnan

哈巴玉山竹(自拟) 实心竹(云南香格里拉)
新种 图版1:1~6

Yushania habaensis Yi et L. Yang, sp. nov., Pl.

1:1~6

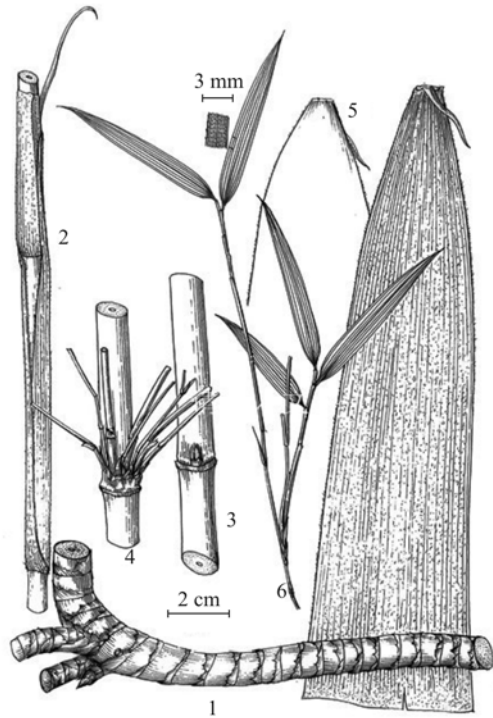
Y. bojieanae Yi affinis, sed culmis altioribus et

crassioribus, 4~7 m altis, 1.5~2(2.5) cm diametro, internodiis basi leviter complanatis vel interdum vadoso-concavis ad latus rami, conspicue longitudinali-lincolatis, solidis vel aliquantum solidis, medulis spongiosis, sicco rigidis; vaginis culmorum quam internodiis

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multo longioribus (i. e. vaginae internodiis c. 3 plo longioribus); Foliis paucioribus, (1) 2~4 in quoque ramulo; laminis angustioribus, 5~6.5 (10) mm latis, nervis secundariis minis, tantum 2~3-jugis, facile differt.



图版1 哈巴玉山竹 1. 地下茎及秆基部; 2. 秆之一节间, 示秆箨; 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 05064 号标本绘)

Plate 1 *Yushania microphylla* Yi et L. Yang 1. Rhizome with basal part of culm; 2. A internode of culm showing culm-sheath; 3. A node of culm showing its bud; 4. A node of culm showing its braching; 5. Culm-sheaths; 6. Branchlet with leaves (Drawn by L. Yang from the type collections T. P. Yi 05064)

Rhizoma elongato-sympodiale, collis culmorum crassioribus, 7~11.5 mm crassis, internodiis (4) 6~13 mm longis, luteo-brunneis, glabris, longitudinali-multinerviis, solidis. Culmi sparsi, apice erecti, 4~7 m alti, 1.5~2 (2.5) cm diametro, 40~45-nodis, internodiis (8) 20~22 (25) cm longis, cylindricis sed basi leviter complanatis vel interdum vadoso-concavis ad latus rami, juventute farinosis et cinereo-albo-vel luteolo - adpresso - hispidis, conspicue lingulatis, solidis vel aliquantum solidis, medullis spongiosis, sicco rigidis; cicatrices vaginarum bruneoli vel brunei, prominentes, primo adpresso-brunneo-tomentosi; nodi culmorum plani vel leviter prominentes, multo demissioribus cicatricibus vaginarum; intranodiis angustatis, 1~2 mm

altis. Gemma culmi 1, tenuis, adpressa, juxta marginem cano-setulosa, margine dense ciliata. Rami 5~8 in quoque nodo, 30~90 cm longi, 1~2.5 mm crassi, 9~12-nodis, internodia 0.5~12 cm longa, primo farinosi. Vaginae culmorum sero delapsae, triangulato-oblongae, coriaceae, quam internodiis multo longioribus (i. e. vaginae internodiis c. 3 plo longiorii), haud maculatae, dorso adpresso-brunneo-tuberculato-setulosae, longitudinali-nerviis conspicuis, margine superne ciliatae; auriculae nullae, fimbriae nullae vel interdum paucae; ligulae oblique truncatae, truncatae vel fere arcuatae, purpureae, fissae, 0.5~1 mm altae; laminae patentes vel reflexae, lineari-triangustatae vel lineari-lanceolatae, 0.5~7 cm longae, 2.5~3.5 mm latae, glabrae, integres. Folia (1) 2~4 in quoque ramulo; vaginae foliorum 2~2.5 cm longae, chloroticae insuper purpureae, longitudinali-nerviis et porcis superis conspicuis, haud ciliatae; auriculae et setae orales nullae; ligulae nononihil truncatae, 0.5~1 mm altae, purpureae, glabrae; petioli 1.5~2 mm longi, chloroticae, glabri; laminae lineari-lanceolatae, papyraceae, glabrae, (3.5) 5.5~8.5 cm longae, 5~6.5 mm latae, supra virides, subtus chloroticae, apice acuminatae, basi cuneatae, nervis secundariis (2) 3-jugis, nervillis transversis rectangularibus, margine serrulatae. Inflorescentia ignota. Turiones Augusto germinantes.

Yunnan (云南): Xianggelila (香格里拉), Hutiaoxia Town (虎跳峡镇), Baoshan Village (宝山村), Lengdu slope (冷独坡), Geographical coordinates N27°27.703', E99°54.226', alt. 3 000 m, 2005-10-18, Yi Tongpei (易同培) 05064 (Holotypus, SAUD = SIFS).

地下茎伸长合轴型, 秆柄粗长, 直径 7 mm~11.5 mm, 节间长(4) 6 mm~13 mm, 黄褐色, 无毛, 具纵细棱纹, 实心。秆散生, 梢端直立, 高 4~7 m, 直径 1.5~2 (2.5) cm, 具 40 节~45 节, 节间长(8) 20 cm~22 (25) cm, 圆筒形, 但在分枝一侧近基部稍有扁平或有时具 1 浅而短的纵凹线, 幼时被白粉及灰白色或淡黄色贴生小刺毛, 纵细线棱纹较明显, 实心或近实心, 髓海绵状, 干后较硬; 箨环淡褐色或褐色, 隆起, 初时被贴生棕色绒毛; 秆环平或稍隆起, 远低于箨环; 节内狭窄, 高 1 mm~2 mm。秆芽 1 枚, 细瘦, 贴生, 近边缘被灰白色小刺毛, 具密缘毛。秆每节上着生枝条 5 枚~8 枚, 长 30 cm~90 cm, 具 9 节~12 节, 节间长 0.5 cm~12 cm, 粗 1 mm~2.5 mm, 初时被白粉。箨鞘迟落, 三角状长圆形, 革质, 远长

于节间(常长过节间 1/3),无斑点和斑纹,背面被贴生棕色瘤基小刺毛,纵脉纹明显,边缘上部具纤毛;箨耳缺失,鞘口两肩无繸毛或有时具少数繸毛;箨舌斜截形、截形或近弧形,紫色,有裂缺,高 0.5 mm~1 mm;箨片外展或外翻,线状三角形或线状披针形,长 0.5 cm~7 cm,宽 2.5 mm~3.5 mm,无毛,全缘。小枝具叶(1)2 枚~4 枚;叶鞘长 2 cm~2.5 cm,淡绿色而上部紫色,纵脉纹及上部纵脊明显,无缘毛;叶耳及鞘口两肩繸毛缺失;叶舌近截平形,高 0.5 mm~1 mm,紫色,无毛;叶柄长 1.5 mm~2 mm,淡绿色,无毛;叶片线状披针形,纸质,无毛,长(3.5)5.5 cm~8.5 cm,宽 5 mm~6.5(10)mm,上面绿色,下面淡绿色,先端渐尖,基部楔形,次脉(2)3 对,小横脉组成长方形,边缘具小锯齿而粗糙。花枝未见。笋期 8 月。

本种近似金平玉山竹 *Y. bojieana* Yi,但秆较高大,高 4 m~7 m,直径 1.5 cm~2(2.5)cm,节间分枝一侧基部稍扁平或有时具 1 浅而短的纵凹线,纵细线棱纹较明显,实心或近实心,髓海绵状,干后较硬;箨鞘远长于节间(常长过节间 1/3);小枝具叶较少,为(1)2 枚~4 枚;叶片较窄,宽 5 mm~6.5(10)mm,次脉较少,为 2 对~3 对,区别显著。

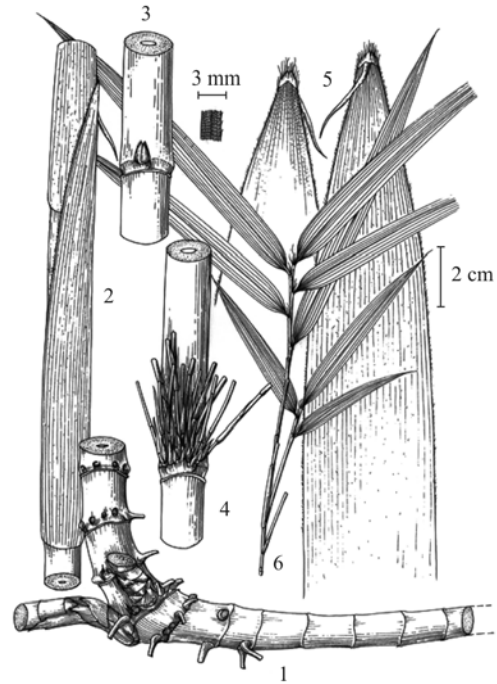
秆可编织竹器。本竹种在哈巴雪山山区水土保持和生态环境建设方面起着重要作用。

马箨箨(自拟) 马配勒(云南贡山,傣语译音) 新种 图版 2:1~6

Yushania gongshanensis Yi et L. Yang, sp. nov., Pl. 2:1~6

Differt haec species a *Y. flexae* Yi collis culmorum crassioribus, ad 2 cm crassis, internodia ad 2.5(3) cm longa; internodiis culmorum brevioribus, 20~22(26) cm longis, cavernosis; vaginis culmorum quam internodiis multo longioribus, dorso sparse fulvo-adpresso-tuberculato-setis; vaginis foliorum brevioribus, (1.8) 2.2~3.5 cm, laminis angustioribus, (5) 6.5~10 mm latis.

Rhizoma elongato-symphodiale, collis culmorum crasso-longissimis, ad 80~100(200) cm longis, (0.5) 1 cm~2 cm crassis, 45~65-nodis, internodiis 1.5~2.5(3) cm longis, glabris, politis, solidis. Culmi sparsi, arbusti, erecti, mature apice curvi, 5 m~7 m alti, 2 cm~4(5) cm diametro, 42~55-nodis, internodiis (6~8) 20~22(26) cm longis, cylindricis, chloroticis vel flavo-virentibus, nitidis, levigatis, glabris, huad farinosis, ligno 3~8 mm crasso, medullis obtritis; cicatrices vaginarum prominentes, fulvo-brunnei,



图版 2 马箨箨 1. 地下茎及秆基部;2. 秆之一部分,示秆箨;3. 秆之一部分,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 05076 号标本绘)

Plate 2 *Yushania shuichengensis* Yi et L. Yang 1. Rhizome with basal part of culm;2. A part of culm showing culm-sheaths;3. A part of culm showing its bud;4. A node of culm showing its braching;5. Culm-sheaths;6. Branchlet with leaves (Drawn by L. Yang from the type collections T. P. Yi 05076)

glabri; nodi culmorum paullo prominentes; intranodiis angustioribus, 3 mm~4 mm altis. Gemma culmi 1, triangulato-ovata vel longiovata, adpressa, nitida, ciliata. Rami 10~15 in quoque nodo, graciles, 15 cm~45 cm longi, 1.5 mm~2.5 mm crassi, 5~9-nodis, internodiis 0.3 cm~10 cm longis. Turiones virides, interdum viridi-purpurei; vaginae culmorum persistentes, triangulato-oblongae, papyraceae, quam internodiis multo longioribus, apice huad adpressae, dorso sparse fulvo-adpresso-tuberculato-setae, haud maculatae, longicostatae, margines superne dense brunneo-ciliati; auriculae et fimbriae nullae; ligulae curvatae, purpureae, 1 mm~2 mm altae, dense ciliatae ad 1 cm longis; laminae reflexae vel erectae, chlorotico-purpureae, linearilanceolatae, 1.5 cm~4 cm longae, 1 mm~3 mm latae, glabrae. Folia (2) 3~5 in quoque ramulo; vaginae foliorum (1.8) 2.2 cm~3.5 cm longae, glabrae, longitudinali-nervis et porcis superis conspicuis, haud ciliatae; auriculae nullae, setis oralibus in omni latere 4~6, 5 mm~7 mm longis, erectis vel leviter curvatis, lute-

olis vel diluto-purpureis; ligulae c. 1 mm altae, leviter concavae vel nonnihil oblique truncatae, diluto-purpureae, glabrae; petioli 1 mm ~ 1.5 mm longi, glabri; laminae lineari-lanceolatae, (4) 7 cm ~ 13.5 cm longae, (5) 6.5 mm ~ 10 mm latae, glabrae, supra virides, subtus chloroticae, apice acuminatae, basi cuneatae, nervis secundariis 3-4-jugis, nervillis transversis rectangularibus, margine serrulatae. Inflorescentia ignota. Turiones medio Augusti et Septembri germinantes.

Yunnan(云南): Gongshan(贡山), Puladi Country(普拉底乡), Litoudi Village(力透底村), Paiduo(排朵), alt. 1 800 ~ 2 500 m, 2005-10-25, Yi Tongpei(易同培)05076(Holotypus, SAUD = SIFS).

地下茎伸长合轴型, 秆柄粗长, 长达 80 cm ~ 100(200) cm, 直径(0.5)1 cm ~ 2 cm, 具 45 节 ~ 65 节, 节间长 1.5 cm ~ 2.5(3) cm, 无毛, 平滑, 光亮, 实心。秆散生, 小乔木状, 直立, 成熟时梢端弯垂, 高 5 m ~ 7 m, 直径 2 cm ~ 4(5) cm, 全部有 42 节 ~ 55 节, 节间长 20 cm ~ 22(26) cm, 基部节间长 6 cm ~ 8 cm, 圆筒形, 淡绿色或淡黄绿色, 光亮, 平滑, 无毛, 无白粉, 秆壁厚 3 mm ~ 8 mm, 髓呈锯屑状; 箨环隆起, 淡黄褐色, 无毛; 秆环稍隆起; 节内较狭窄, 高 3 mm ~ 4 mm。秆芽 1 枚, 三角状卵形或长卵形, 贴生, 芽鳞有光泽, 具缘毛。枝条在秆每节上 10 枚 ~ 15 枚, 细瘦, 长 15 cm ~ 45 cm, 粗 1.5 mm ~ 2.5 mm, 具 5 节 ~ 9 节, 节间长 0.3 cm ~ 10 cm。箨绿色, 有时绿色带紫色; 箨鞘宿存, 三角状长圆形, 纸质, 远长于节间, 先端不贴主秆, 背面疏被黄褐色贴生瘤基刺毛, 无斑块, 纵肋显著, 边缘上部密生棕色纤毛; 箨耳及鞘口缝毛俱缺; 箨舌弧形, 紫色, 高 1 mm ~ 2 mm, 密生长达 1 cm 的紫色缝毛; 箨片外翻或直立, 淡绿色带紫色, 线状披针形, 长 1.5 cm ~ 4 cm, 宽 1.5 mm ~ 3 mm, 无毛。小枝具叶(2)3 枚 ~ 5 枚; 叶鞘长(1.8)2.2 cm ~ 3.5 cm, 无毛, 纵脉纹及上部纵脊明显, 无缘毛; 叶耳缺失, 鞘口两肩各具 4 枚 ~ 6 枚长 5 mm ~ 7 mm 直立或稍弯曲淡黄色至淡紫色缝毛; 叶舌高约 1 mm, 微下凹或近斜截形, 淡紫色, 无毛; 叶柄长 1 mm ~ 1.5 mm, 无毛; 叶片线状披针形, 长(4)7 cm ~ 13.5 cm, 宽(5)6.5 mm ~ 10 mm, 无毛, 上面绿色, 下面淡绿色, 先端渐尖, 基部楔形, 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 8 月中旬至 9 月。

本种近似弯毛玉山竹 *Y. flexa* Yi, 区别在于秆柄较粗, 直径达 2 cm, 节间长达 2.5(3) cm; 秆的节间较短, 长 20 cm ~ 22(26) cm, 中空; 箨鞘远长于节间, 背面疏生瘤基刺毛; 叶鞘较短, 长(1.8)2.2 cm

~ 3.5 cm, 叶片较窄, 宽(5)6.5 mm ~ 10 mm, 易于区别。

大面积野生, 亦有个别栽培。笋食用。秆材坚韧, 供建筑和编织竹器等用。

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