

越桔属新分类群

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NEW TAXA OF THE GENUS VACCINIUM

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关键词 越桔属; 新分类单位

Key words *Vaccinium*; New taxa

粉花软骨边越桔 新变种

Vaccinium gaultheriifolium (Griff.) Hook. f. ex C. B. Clarke var. *glaucorubrum*

C. Y. Wu, var. nov.

A var. *gaultheriifolio* recedit foliis subtus glabris, basi in utroque uniglandulis, pedicellis brevioribus, 4—5 mm longis, c. 7 mm longis in fructescentiam; corollis longioribus, rubidis, 8—11 mm longis, extra glaucescentibus.

Yunnan (云南): Maguan Xian (马关县), in fruticetis declivae, alt. 1800—2560 m, 28 Jul. 1961, S. K. Wu (武素功) 61-3574 (Typus, KUN); Malipo (麻栗坡), 26 Maj. 1962, K. M. Feng (冯国楣) 22889.

与原变种不同在于叶背面无毛, 边缘近基部两侧各有1腺体; 花梗较短, 长4—5毫米, 果期长7毫米; 花冠较长, 红色, 长8—11毫米, 外面被白粉。

圆顶越桔 新种 图1

Vaccinium cavinerve C. Y. Wu, sp. nov. (Sect. Galeopetalum)

Species *V. chunii* Merr. ex Sleumer affinis, a quo deffert foliis ellipticis, apice obtuse rotundis, basi in petiolos manifeste decurrentibus, petiolis brevioribus, lobis calycis deltoideis brevioribus.

Frutex sempervirens 2 m altus; planta omnis glabra. Ramuli robusti brunnei glabri, sparse lenticellati. Folia ad ramulos terminales congesta; lamina crasse coriacea elliptica, 5—6.5 cm longa, 3—4 cm lata, apice obtuse rotunda, basi

late cuneata in petiolo manifeste decurrens, integra, margine anguste cartilagineo utroque latera glandula minuta instructa, costa utrinque elevata, nervis lateralibus 6—7-jugis, gracilibus, ad marginem anastomosantibus ut rete venularum supra immersis subtus inconspicuis; petioli 5—7 mm longi, robusti, supra plani. Racemi axillares, dense multiflori; bractea oblonga, apice acuta, 3.2 mm longa; pedicelli 1—1.5 mm longi. Calycis tubus glaber, lobis deltoideis 1 mm longis. Corolla purpureoviridis, urceolata, c. 3.5 mm longa, breviter 5-loba, lobis latideltoideis. Stamina 10 corolla breviora, c. 2.2 mm longa, filamenta glabra, thecae dorso manifeste bicalcaratae, calcar tubulis acquilongae; tubuli thecas acquilongi. Bacca subglobosa.

Yunnan (云南): Malipo (麻栗坡), in fruticetis montium, alt. 1900—2600 m, 26 Maj. 1962, K. M. Feng (冯国楫) 22891 (Typus, KUN).

本种近蓝果越桔 *V. chunii* Merr. ex Sleumer, 但叶片椭圆形, 顶端钝圆, 基部向叶柄明显下延, 叶柄较短, 萼齿三角形, 较短而与之不同。

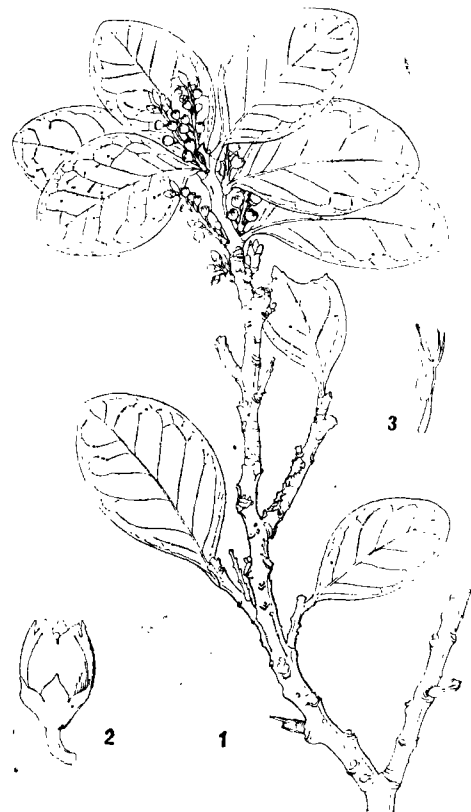


图1 圆顶越桔 *Vaccinium cavinerve* C. Y. Wu
1. 花、果枝; 2. 花; 3. 雄蕊。(吴锡林绘)



图2 凹脉越桔 *Vaccinium impressinerve* C. Y. Wu
1. 果枝; 2. 花; 3. 雄蕊。(张宝福绘)

凹脉越桔 新种 图 2**Vaccinium impressinerve** C. Y. Wu, sp. nov. (Sect. Galeopetalum)

Species caulibus procumbentibus, foliis paucis subsessilibus, crassioribus, basi alatis in petiolos decurrentibus, retibus venularum in sicco supra manifeste impressis, subtus elevatis, floribus paucis, pedicellis longis, corollis majoribus roseolis valde insignis.

Frutex sempervirens, procumbens, pauciramificans. Ramuli graciles, brunnei, juventute angulati, puberuli, vetule cinerascens, glabri. Folia ad ramulos terminales, subsessilia; lamina ovata vel elliptica, 4—8 cm longa, 2.5—4 cm lata, apice obtusa vel emarginata, basi cuneata vel late cuneata, in petiolos decurrens, integra, utroque glandula minuta instructa, in vivo carnosula in sicco crasse coriacea, utrinque glabra vel subtus sparse adpresseque glanduliformi-pubescentis, costa robusta, nervis lateralibus 4-jugis ad marginem anastomosantibus, costa, nervis lateralibus et rete venularum supra manifeste impressis subtus elevata. Racemi ex axillis, pauciflori gerentes; bractea deltoidea, c. 1 mm longa; bracteolae bractee similes; pedicelli 1—1.7 cm longi, ad apicem versus crassiusculi cum calyce articulati. Calycis tubus glaber, lobis 5 anguste oblongis, 4—6 mm longis, glabris. Corolla roseola, campanulata, 1.2 cm longa, c. 9 mm diam., extus intusque glabra, limbo breviter 5-loba, lobis latideltoideis. Stamina 10 corollam subaequantia; filamenta subdilatata, c. 3 mm longa, utrinque ciliata; thecae dorso manifeste bicalcaratae; tubuli thecis duplo longi. Bacca globosa, 8 mm diam., calycis lobis persistentibus 5—6 mm longis.

Yunnan (云南): Xichou (西畴), in saxis calcareis in sylvis mixtis, 7 Maj. 1959, C. A. Wu (武全安) 7978 (Typus, KUN); ibid., alt. 1700 m, 3 Jun. 1964, S. Z. Wang (王守正) 675; Malipo (麻栗坡), Oct. 1982, K. M. Feng (冯国楣) s. n.

本种匍地生长, 叶少, 近于无叶柄, 极厚, 基部翅状下延叶柄, 网脉在乾叶表面明显下陷, 在背面突起, 花少, 具长的花梗, 花冠粉红色, 较大, 极易辨认。

灰叶乌饭 新种 图 3**Vaccinium glaucophyllum** C. Y. Wu et R. C. Fang, sp. nov. (Sect. Galeopetalum)

Species *V. podocarpoideo* Fang et Z. H. Pan affinis, sed a quo differt ramulis juvenalibus pubescentibus, foliis oblongo-ellipticis vel ellipticis, 1.8—2.5 cm longis, 0.5—0.9 cm latis, supra glaucis, calycis lobis minoribus, acutis nec acuminatis.

Frutex sempervirens, 0.5—3 m altus, multiramificans. Ramuli robusti in juventute manifeste angulati bruneoli dense pubescentes sed vetule straminei glabri, foliis dense instructi. Lamina coriacea, oblongo-elliptica, vel elliptica, 1.8—2.5 cm longa,

0.5—0.9 cm lata, apice acuta vel breviter acuminata, basi late cuneata, margine revoluta integra, utroque latera glandula minuta instructa, supra glauca, juventute ad costam pubescens ceterum glabra, subtus brunneola, matura utrinque glabra, costa utrinque prominula, nervis lateralibus 3—4-jugis supra paulo conspicuis, subtus inconspicuis, reticulo utrinque inconspicuo; petiolus c. 2 mm longus, initio pubescens post demum glabrescens. Flos non visus. Fructus multi in racemum axillarem 3—4 cm longum dispositi; rhachis angulata glabra; pedicelli 3—4 mm longi, glabri, cum calyce articulati; bacca immatura subglobosa, viridis; calycis lobis persistentibus breviter triangularibus, 0.6—1 mm longis, glabris.

GuiZhou (贵州): Anlong (安龙), in sylvis densis, alt. 1800 m, 14 Jun. 1960, Z. S. Chang (张志松) et Y. T. Chang (张永田) 4493 (Typus, KUN); loco dicto, in sylvis densis, alt. 1800 m, 14 Jun. 1960, id. 4458; loco dicto, in Sylvis densis, alt. 1700 m, 14 Jun. 1960, id. 4459.

本种与罗汉松叶乌饭 *V. podocarpoideum* Fang et Z. H. Pan 相近, 不同的是本种幼枝被短柔毛, 叶片较短、宽, 长圆状椭圆形或椭圆形, 长1.8—2.5厘米, 宽0.5—0.9厘米, 叶面灰白色, 萼齿短小, 锐尖而不为渐尖。



图3 灰叶越桔 *Vaccinium glaucophyllum* C. Y. Wu et R. C. Fang, 1.果枝; 2.幼果放大。
(李锡畴绘)



图4 草甸越桔 *Vaccinium pratense* P. C. Tam ex R. C. Fang, 1.花枝; 2.叶背面一部分, 示毛被; 3.花; 4.雄蕊背面观 (李锡畴绘)

草地越桔 新种 图 4

Vaccinium pratense P. C. Tam ex C. Y. Wu et R. C. Fang, sp. nov. (Sect. Galeopetalum)

Species *V. omciensis* Fang affinis, sed foliis subtus adpresse glanduloso-pilosis, racemis multo longioribus, 4.5—6.5 cm longis, rhache et pedicello robustiore, sepalis longioribus, 2.5—3 mm longis differt.

Frutex sempervirens. Ramuli robusti, juventute angulati dense pubescentes, vetule glabrescentes, foliis multis laxe instructis. Lamina coriacea, elliptica vel ovato-elliptica, 2.4—3.6 cm longa, 1.3—2 cm lata, apice acuta vel breviter acuminata vel abrupte acuta, basi late cuneata usque ad obtusa, margine ± revoluta, integra, parte 1/2 inferiore utroque 2—5 glandulis minutis instructa, supra dense puberula, subtus adpresse glanduloso-pilosa, nervis lateralibus 3—4-jugis ut costa supra paulo conspicuis subtus planis; petioli paulo complanati c. 2 mm longi dense pubescentes. Racemi ex axillis superioribus orti, 4.5—6.5 cm longi, (5—) 7—10-flori; rhachis disperse glanduloso-pilosa; pedicelli 4—6 mm longi, glabri, apice crassiusculi cum calyce articulati; bracteae ovato-lanceolatae, 1.1—1.6 cm longae, glabrae, caducae; bracteolae non visae. Calycis tubus glaber, lobis 5 deltoideis 2.5—3 mm longis glabris. Corolla purpurea campanulata, 6—7 mm longa, limbo 5-lobo, lobis ovato-deltoideis 2—3 mm longis, extus glabris, intus puberulis, apice erectis vel reflexis. Stamina 10, 7 mm longa; filamenta complanata, 3 mm longa utriusque puberula; thecae dorso bicalcaratae patentis; tubuli thecis duplo longi. Bacca globosa 4 mm diam., apice sepalis persistentibus coronata.

Guangdong (广东): Gaoyao (高要), in sylvis declivitatibus, alt. 900—1000 m, 16 Maj. 1975, K. L. Shi (石国良) 11390 (Typus, SCBI); loco dicto, in rupibus 12 Jul. 1978, id. 13576; loco dicto, alt. 900 m, 10 Dec. 1974, id. 11003; loco dicto, P. Tseng (曾沛) 11809.

本种与峨眉珍珠树 *V. omciensis* Fang 相似, 但本种叶片背面伏生具腺短毛, 花序长得更多, 长 4.5—6.5 厘米, 序轴和花梗较粗壮, 萼裂片较长, 长 2.5—3 毫米而不同。

短蕊越桔 新种 图 5

Vaccinium brachyandrum C. Y. Wu et R. C. Fang, sp. nov. (Sect. Galeopetalum)

Species *V. arbutoidi* C. B. Clarke affinis, sed inflorescentiis glanduloso-pilis munitis, calycis tubis glabris, filamentis multo brevioribus necnon glabris differt.

Frutex sempervirens. Ramuli robusti juventute angulati laxe breviter pilosi vel subglabri, laxe foliati. Lamina coriacea ovato-elliptica 8.5—11 cm longa, 4—6 cm lata, apice breviter caudata, basi subrotundata, margine pallida angustissime cartilaginea integra, ad basin utrinque latere glandulis instructa, supra glabra in

siccio flavovirens subtus bruneola adpresse pilis claviformis, costa supra parum impressa subtus prominente, nervis lateralibus tenuibus 6—7-jugis cum reticulo supra parum impressis subtus minus elevatis; petioli crassiusculi 0.8—1 cm longi pubescentes vel subglabri. Racemi axillares 1.5—3.5 cm longi folio multo breviores multiflori; rhachis robusta angulata glanduloso-pilosa; bracteae ovatae, 3—4 mm longae, caducae; bractae lanceolatae 2.5—3 mm longae ciliatae; pedicelli robusti c. 2 mm longi glanduloso-pilosi, cum calyce articulati. Calycis tubus glaber, lobis deltoideis c. 2 mm longis ciliatis. Corolla urceolata c. 4 mm longa. Stamina 2.5 mm longa tubo corollae breviora; filamenta c. 0.5 mm longa omnino glabra; thecae dorso bicalcaratae; tubuli thecas aequilongi. Bacca haud visa.

Yunnan (云南): Tengchung (腾冲) alt. 2720 m, 18 Maj. 1964, S. K. Wu (武素功) 6629 (Typus KUN).

本种与草莓树状越桔 *V. arbutoides* C. B. Clarke 相近, 但花序被腺毛, 萼筒无毛, 雄蕊花丝短得多且无毛而不同。

毛序红花越桔 新变种

Vaccinium urceolatum Hemsl. var. *pubescens* C. Y. Wu et R. C. Fang, var. nov.

Ab var. *urceolato* rhachidibus, pedicellis et baccis dense pubescentibus, rhachidibus 5—9 cm longis differt.

Yunnan (云南): Dagan (大关), in sylvis in valle, in arborum truncis, alt. 1650 m, 19 Aug. 1972, NE Yunnan Exped. (滇东北队) 277 (Typus, KUN); loco dicto, in sylvis declivis, alt. 1700—1800 m, 29 Aug. 1972, NE Yunnan Exped. (滇东北队) 488; loco dicto, in sylvis ad rupes fluviorum, alt. 1800 m, 27 Sept. 1973, K. M. Feng (冯国楣) 73—19

与原变种不同在于序轴、果梗以至浆果外密被短柔毛, 序轴长 5—9 厘米。

假头花组 新组

Sect. *Pseudocephalanthos* C. Y. Wu et R. C. Fang, sect. nov.

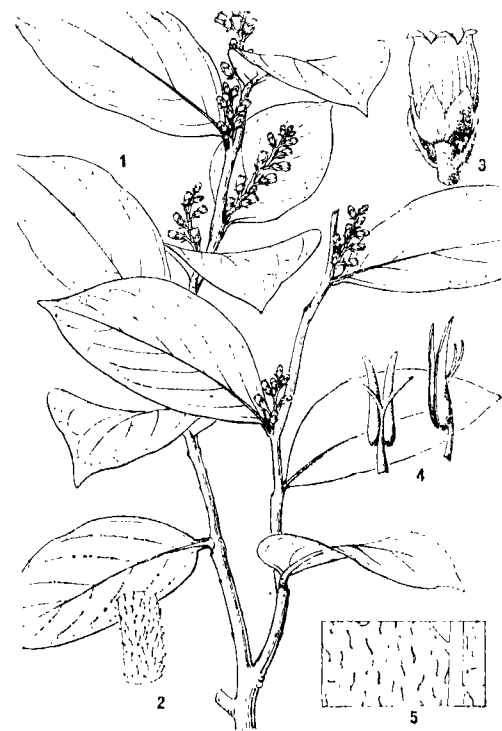


图5 短蕊越桔 *Vaccinium brachyandrum* C. Y. Wu et R. C. Fang, 1.花枝; 2.序轴一部分, 示毛被; 3.花及小苞片; 4.雄蕊; 5.叶背一部分。(张宝福绘)

Frutex sempervirens epiphyticus. Ramuli dense pilis setiformibus ramosis obtecti. Folia satis magna, apice caudato-acuminata, integra. Flores 2—3 axillares fasciculati, subsessiles, bracteis pluribus imbricatis. Corolla subcampanulata, thecae dorso manifeste bicalcaratae. Bacca pseudo-10-locularis.

Sectio nova insignis inflorescentis sessilibus, bracteis multis, caulibus foliisque pilis setiformibus ramosis.

Typus sectionis: *Vaccinium lanigerum* Sleumer

常绿灌木, 附生。茎密被刚毛状分枝的毛。叶中等大小, 顶端尾状渐尖, 全缘。花 2—3 朵簇生叶腋, 近无梗, 有多数覆瓦状排列的苞片。花冠近钟状, 花药背部有距。浆果假 10 室。

组模式种: 羽毛越桔 *V. lanigerum* Sleumer

仅知 1 种, 产我国云南西北部至缅甸东北部。

本组以其花序无梗, 具多数苞片, 茎、叶被分枝毛而特异。

Sleumer 在 1941 年发表这个种时可能是根据这个种的叶形和脉序, 将它置于大叶组 (Sect. Galeopetalum J. J. Smith) 内, 然而这个种的毛被和花序特征均显示出与大叶组的其它种类明显不同。

倒卵叶南烛 新变种

Vaccinium bracteatum Thunb. var. *obovatum* C. Y. Wu et R. C. Fang, var. nov.

Ab var. *bracteato* differt foliis minoribus, obovatis, 1.2—1.4 cm longis, c. 0.9 cm latis, apice rotundato-obtusis, margine serrulatis, ad basin sensim angustatis.

Guangdong (广东): Haifeng (海丰), in pratis occurrit prope viam, Aug. 1935, W. T. Tsang (曾怀德) 25496 (Typus, SYS).

与原变种不同在于叶小, 倒卵形, 长 1.2—1.4 厘米, 宽约 0.9 厘米, 先端钝圆, 边缘具细齿, 基部楔形渐狭。

此变种的中名是根据原变种 var. *bracteatum* 的中名经考证后应为“南烛”而来。南烛一名始载《开宝本草》, 其后尚见于其他本草书籍。

齿苞越桔 新种 图 6

Vaccinium fimbribracteatum C. Y. Wu, sp. nov. (Sect. Bracteata)

Species *V. wrightii* Gray affinis, sed differt bractea et bracteolis ut calycis lobis margine fimbriatis, racemis longioribus usque 12 cm longis sed pedicellis brevioribus.

Frutex sempervirens, 1—1.5 (- 4) m altus, multiramificans. Ramuli subteretes juventute dense pubescentes fulvidi vetustate brunnei dense pubescentes, laxo multifoliati. Lamina coriacea, elliptico-lanceolata, 3.5—5 cm longa, 1.3—1.8 cm lata, apice acuminata, basi late cuneata usque ad obtusa, margine serrata, utrinque secus costam pubescens ceterum glabra vel subtus omnino pubescens, nervis laterali-

bus c. 7-jugis ut costa supra planis subtus prominentibus; petiolus 2—3 mm longus, dense pubescens fulvidus. Racemi axillares multiflori 7—12 cm longi, rhachis rubra, pubescens; bractea ovata usque ad lanceolata, 0.6—1 cm longa, glabra, apice subulata, margine glanduloso-fimbriis, persistens; bractcolae 2, glabrae c. 2 mm longae, margine glanduloso-fimbriatis, caducae; pedicelli 2—5 mm longi rubri glabri cum calyce articulati. Calycis tubus glaber, lobis deltoideis 1—1.5 mm longis glabris, margine fimbriis paucis obsitis. Corolla alba interdum rubella, cylindrica, 7—8 mm longa, extus glabra, lobis deltoideis reflexis. Stamina 10 corolla breviora; filamenta 2.5 mm longa pilosa; thecae dorso manifeste bicalcaratae; tubuli thecis duplo longi. Stylus corollam subaequans. Bacca haud visa.

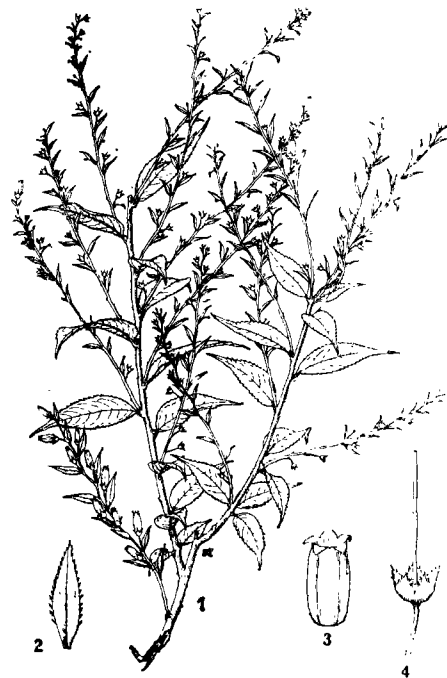


图6 齿苞越桔 *Vaccinium fimbribracteatum*
C. Y. Wu, 1.花枝; 2.苞片; 3.花冠; 4.雌蕊与花萼。(李锡畴绘)

Sichuan (四川): Zhong Xian (忠县), in sylvis, alt. 1150 m, 10 Maj. 1959, C. W. Shu (徐昌文) 1418 (Typus, KUN); Nanchuan (南川), alt. 900 m, 2 Apr. 1957, K. F. Li (李国风) 60296, alt. 950 m, 12 Apr. 1957, K. F. Li (李国风) 60452; Wushan (巫山), alt. 1200 m, 8 Maj. 1939, T. P. Wang (王作宾) 10465. Guizhou (贵州): Suiyang (绥阳), 14 Apr. 1928, P. C. Tsong (钟补勤) 472; ibidem, 16 Apr. 1928 id. 489.

。本种与海岛越桔 *V. wrightii* Gray 相近, 但本种苞片、小苞片及萼齿边缘明显有小流苏, 花序较长, 可达12厘米, 花梗较短而不同。

大叶瑶山越桔 新变种

Vaccinium yaoshanicum Slocumer var. *megaphyllum* C. Y. Wu et R. C. Fang, var. nov.

A typo recedit foliis manifeste magnis, 13.5—18 cm longis, 4.5—9 cm latis, ovato-ellipticis.

Guangxi (广西): Jinxiu (金秀瑶族自治县), in sylvis laxis in declivitatibus montis, 27 Jul. 1958, Y. K. Li (李荫昆) 400733 (Typus, SCBI).

与原变种不同在于叶片显著宽大, 长13.5—18厘米, 宽4.5—9厘米, 卵状椭圆形。

刚毛云南越桔 新变种

Vaccinium duclouxii (Lévl.) Hand.-Mazz. var. *hirticaule* C. Y. Wu, var.

nov.

A typo recedit ramulis, petiolisque laxe glanduloso-hirsutis.

Yunnan (云南): Guangnan (广南), in montibus saxosis, alt. 1550 m, 17 Mart. 1940, C. W. Wang (王启无) 87918 (Typus, KUN); ibidem, alt. 1551 m, 28 Feb. 1940, C. W. Wang (王启无) 87261; Kunming (昆明), alt. 2200 m, Apr. 1935, C. W. Wang (王启无) 62788; ibidem, alt. 2100 m, 25 Feb. 1946, T. N. Liou (刘慎谔) 15195

与原变种不同在于茎和叶柄被具腺刚毛, 有时极疏。

柔毛云南越桔 新变种

Vaccinium duclouxii (Lévl.) Hand.-Mazz. var. **pubipes** C. Y. Wu, var. nov.

A typo recedit ramulis juvenilibus, petiolis, costa ad basin subtus pubescentibus, rachibus saepe velutinis.

Yunnan (云南): Weixi (维西), in sylvis mixtis, alt. 3000 m, 19 Jun. 1940, K. M. Feng (冯国楣) 4876 (Typus, KUN); Gongshan, in sylvis mixtis vallium, alt. 1900—2000 m, 4 Sep. 1940, K. M. Feng (冯国楣) 7168, 7360, 7532, 8610; Fugong (福贡), in valle, alt. 2600—2700 m, Oct. 1933, H. T. Tsai (蔡希陶) 54380, 54388, 54398; Dali (大理), ad marginem pinetorum, alt. 10000—11000 ft. Sep. 1906, Forrest 4182.

与原变种不同在于幼枝、叶柄、叶背面主脉基部被黄褐色短柔毛; 序轴通常被短绒毛。

毛果云南越桔 新变种

Vaccinium duclouxii (Lévl.) Hand.-Mazz. var. **hirtellum** C. Y. Wu et R. C. Fang, var. nov.

A typo recedit ramulis juvenibus pubescentibus, glanduloso-hirsutis mixtis, rachibus, calycis tubis lobisque dense hirtellis.

Yunnan (云南): Yuxi (玉溪), in fruticetis, 4 Jul. 1946, K. M. Feng (冯国楣) 10963 (Typus, KUN); ibidem, C. H. Yang (杨增宏) 84—0438.

与原变种不同在于幼枝被短柔毛, 杂生具腺刚毛; 序轴、萼筒及萼齿密被微硬毛。

光序刺毛越桔 新变种

Vaccinium trichocladum Merr. et Metc. var. **glabriracemosum** C. Y. Wu, var. nov.

A typo recedit non nisi ramulis juvenilibus glanduloso-hirsutis, sed rachibus, pedicellis, calycis tubisque omnino glabris, bracteis conspicuis instructis, foliis margine leviter serratis interdum subintegris.

Zhejiang (浙江): Lishui (丽水), K. K. Tsoong (钟观光) 225 (Typus, SZ). Fujian (福建): loc. ign., Y. Ling (林谿) 4851, 4852, 5250; Shanghang, Xinquan, (上杭, 新泉), 8 Apr. 1938, H. C. Chao (赵修谦) 907. Jiangxi (江西): Xunwu (寻邬), in declivibus montis, alt. 250 m, C. M. Hu (胡启明) 1211.

与原变种不同在于植株被毛较少, 仅幼枝通常被具腺刚毛, 花序轴、花梗及萼筒完全无毛, 苞片显著, 叶缘略有锯齿, 有时近于全缘。

矮越桔 新种 图7

Vaccinium chamaebuxus C. Y. Wu, sp. nov. (Sect. Eococcus)

Species *V. duclouxii* (Lévl.) Hand.-Mazz. affinis, a quo differt plantis humilibus, foliis multo minoribus ellipticis apice acutis, ramulis juvenilibus rachibusque dense puberulis, racemis brevioribus, bracteis in medio pedicellorum sustentibus

Frutex sempervirens, 0.5—2 m altus, multiramificans. Ramuli juventute dense pubescentes vetustate glabrescentes nigricantes. Lamina coriacea, ovata vel elliptica, 1.7—4 (—6) cm longa, 1—2 cm lata, apice acuta interdum leviter obtusa vel acuminata, basi saepe late cuneata interdum cuneata vel rotundata, margine dense serrata, supra secus costam puberula ceterum glabra, subtus glabra, costa utrinque prominula, nervis lateralibus supra inconspicuis subtus prominulis; petiolus 2—5 mm longus, supra dense pubescens. Racemi axillares vel ex axillis foliorum summorum orti, breves, 1.5—2 cm longi; rachis pubescens vel glabra; bractea late ovata 3—5 mm longa glabra; bracteolae 2 in medio pedicellorum sustententes ovatae, c. 2.5 mm longae, glabrae; pedicelli 0.5—2 mm longi glabri; calycis tubus glaber, lobis ovato-deltoides vel semiorbiculatis 0.5—1 mm longis. Corolla alba vel rubella, urceolata, c. 7 mm longa, extus glabra, intus fauce puberula, lobis deltoideis vel anguste deltoideis apice erectis vel reflexis; Stamina inclusa, filamenta pubescentes; thecae dorso bicalcaratae; tubuli thecis duplo longi; stylus inclusus. Bacca purpurea, matura 5—6 mm diam.

Yunnan (云南): Jingdong (景东), in declivibus montis aridis, alt. 3100 m, 19 Nov. 1956, P. Y. Chiu (邱炳云) 53825 (Typus, KUN); ibidem, in declivibus montis aridis, alt. 2500—2700 (—3100) m, Oct., Nov., 1956, id. 53087, 53474, 53495, 53742, 53831; ibidem, in fruticetis, alt. 2700 m, 18 Dec. 1939, M. K. Li 2506; ibidem, alt. 2480—2508 m, Apr. 1959, S. K. Shui (许溯桂) 4501, 4603; ibidem, in fruticetis rhododendretorum et lyoniectorum, alt. 2640 m, 12 Maj. 1963, C. A. Wu (武全安) 9089.

本种近云南越桔 *V. duclouxii* (Lévl.) Hand.-Mazz., 但植株矮小, 叶远较小而椭圆形, 先端锐尖, 幼枝及序轴密被短柔毛, 花序短小, 小苞片位于花梗中部而可区别。

瘤果越桔 新种 图8

Vaccinium papulosum C. Y. Wu et R. C. Fang, sp. nov. (Sect. Epigynium)

Species *V. subdissitifolio* P. F. Stevens affinis, a quo valde differt foliis rhombo-ellipticis vel oblongo-lanceolatis, 12—18.5 cm longis, 3.5—9 cm latis, racemis multo brevioribus 2—3.5 cm longis.

Frutex sempervirens, c. 1 m altus, pauciramificans. Ramuli juventute brun-

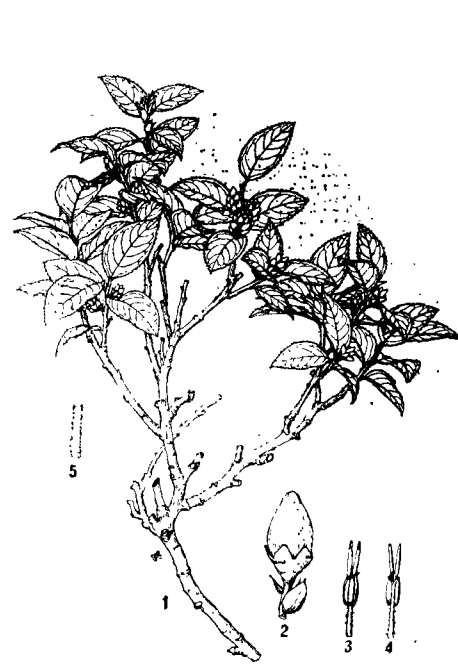


图7 矮越桔 *Vaccinium chamaebuxus* C. Y. Wu,
1. 花枝; 2. 花及小苞片; 3. 雄蕊腹面观;
4. 雄蕊背面观; 5. 幼枝一部分。(李锡畴绘)

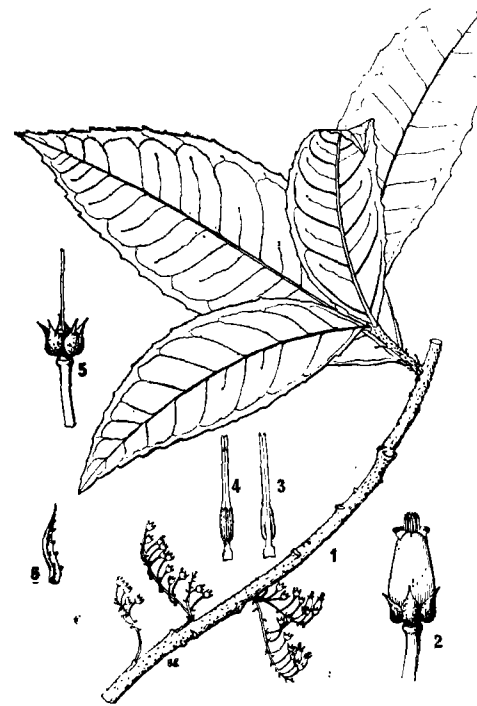


图8 瘤果越桔 *Vaccinium papulosum* C. Y. Wu et
R. C. Fang, 1. 花枝; 2. 花外形; 3. 雄蕊背面
观; 4. 雄蕊腹面观; 5. 雌蕊与花萼; 6. 小苞片。
(李锡畴绘)

neoli glabri, gemmarum squamis lanceolatis persistentibus sparse instructi, vetustate sparse lenticellati albi conspicui, laxe foliati. Lamina subcoriacea, rhombo-elliptica vel oblongo-lanceolata, 12—18.5 cm longa, 3.5—9 cm lata, apice acuta vel acuminata, basi cuneata, margine remote obtusidentata ad basin utroque latere glandulis instructa, utrinque glabra, supra in sicco brunneo-viridis, subtus brunneola, nervis lateralibus et reticulo ut costa utrinque leviter elevatis, nervis lateralibus 8—14-jugis a costa oblique parallelis patentibus versus marginem anastomosantibus; petioli robusti 2—6 mm longi. Racemi axillares 2—3.5 cm longi multiflori, rhachis gracilis, bractea haud visa, bracteolae 2 ad basin pedicellorum sustentantes, lineari-lanceolatae c. 2 mm longae, glabrae, margine glandulo-serrulatae. Pedicelli 6—7 mm longi glabri cum calyce manifeste articulati. Calycis tubus extus papillatus, lobis deltoideis c. 0.5 mm longis. Corolla flavida, urceolata, c. 5 mm longa, sub ore constricta, breviter 5-loba, extus glabra. Stamina 10 corolla subaequalia; filamenta c. 1.3 mm longa glabra, basi complanata; thecae dorso ecalcaratae; tubuli thecis duplo longi. Bacca immatura papillata.

Xizang(西藏): Medog(墨脱), in sylvis sempervirentibus, alt. 1650 m, 10 Maj. 1983,

B. S. Li(李渤生), S. Z. Cheng (程树志) et C. C. Ni (倪志诚) 4828 (Typus, PE); ibidem, in sylvis sempervirentibus, alt. 1850 m, 17 Jun. 1983, B. S. Li (李渤生), S. Z. Cheng (程树志) 5110; ibidem, in sylvis sempervirentibus, alt. 700 m, 23 Apr. 1983, B. S. Li, S. Z. Cheng 04631.

本种与梯脉越桔 *V. subdissitifolium* P. F. Stevens 亲缘相近, 但叶片菱状椭圆形或长圆状披针形, 长12—18.5厘米, 宽3.5—9厘米, 花序短得多, 长2—3.5厘米而极为不同。

凸尖越桔 新种 图9

Vaccinium cuspidifolium C. Y. Wu et R. C. Fang, sp. nov. (Sect. Conchophyllum)

Species *V. trifloro* Rehd. affinis, sed foliis majoribus apice 2—7 mm longis abrupte acutis, calycis tubis omnino glabris differt.

Frutex sempervirens. Ramuli graciles angulati, in juventute brunneoli dense pubescentes, vetustate brunnei glabrescentes, foliis multis laxe instructi. Lamina coriacea, elliptica, 2.5—3.8 cm longa, 1.2—1.8 cm lata, apice abrupte acuta, basi late cuneata, utroque prope petiolum 1 glandula minuta instructa, margine integra revoluta, supra viridis subtus viridula, supra in juventute secus costam pubescens ceterum glabra, maturitate utrinque glabra, costa utrinque minute elevata, nervis lateralibus 6—7-jugis cum reticulo supra parum conspicuis subtus subobscuris; petiolus 2 mm longus initio pubescens post demum glabrescens. Corolla non visa. Stamina 3.5 mm longa; filamenta c. 1 mm longa subglabra; thecae dorso bicalcaribus patentibus; tubuli thecis 1.5—2plo longiores. Baccae 2—3 in breviter racemum dispositae; rhachis 2—3 mm longa cum pedicellis pubescentibus et glandulo-pilosis. Bacca subglobosa, glabra; pedunculi fructiferi 3—4 mm longi cum calyce articulati; calycis lobis persistentibus deltoidco-lanceolatis c. 2 mm longis glabris.

Guangxi (广西): Leye (乐业), in loco umbroso montium, 3 Jul. 1959, Z. T. Li (李中提) 603547 (Typus, SCBI).

本种与三花越桔 *V. triflorum* Rehd. 亲缘相近, 但本种叶片较大, 顶端骤然锐尖, 萼筒完全无毛。

亮叶越桔 新种 图10

Vaccinium lamprophyllum C. Y. Wu et R. C. Fang, sp. nov. (Sect. Conchophyllum)

Species *V. sinico* Sleumer affinis, sed foliis majoribus, apice acutis, subtus strigulosis.

Frutex sempervirens, multiramificans. Ramuli in juventute brunnei dense pubescentes sed vetustate cinerei glabrescentes, multo foliati. Lamina coriacea, oblongo-obovata, 2—2.4 cm longa, 0.9—1.3 cm lata, apice acuta, basi late cuneata, margine integra, cartilaginica, utroque latere glandula basali instructa, supra laevi-



图9 凸尖越桔 *Vaccinium cuspidifolium* C. Y. Wu et R. C. Fang, 1. 果枝; 2. 幼枝一部分; 3. 幼果。(李锡畴绘)



图10 亮叶越桔 *Vaccinium lamprophyllum* C. Y. Wu et R. C. Fang, 1. 果枝; 2. 幼果; 3. 叶背面一部分, 示毛被; 4. 幼枝一部分。(李锡畴绘)

gata ad costam pubescens ceterum glabra, subtus laxe strigulosa, costa supra prominente subtus plana, nervis lateralibus et recte venularum supra paulo conspicuum subtus inconspicuum; petiolus c. 2 mm, initio pubescens post demum glabrescens. Flos non visus. Fructus saepe 3 in racemum 1.2—2 cm longum axillarem formans; rhachis glabra; bracteae et bracteolae caducae; bacca subglobosa glabra immatura viridis; calycis lobis persistentibus deltoideo-lanceolatis 2.5—3 mm longis glabris; pedunculi fructiferi c. 7 mm longi glabri.

Guangdong (广东): Fengkai (封开), in sylvis laxis in montibus, alt. 1200 m, 16 Jun. 1974, Guangdong (74) Exped. (粤七四) 5283 (Typus, SCBI).

本种相近于广西越桔 *V. sinicum* Sleumer, 但叶较大, 顶端锐尖, 背面伏生短刚毛而不同。

短梗长萼越桔 新变种

Vaccinium craspedotum Sleumer var. *brevipes* C. Y. Wu, var. nov.

A var. *craspedoto* recedit floribus subsessilibus.

Yunnan (云南): Pingbian (屏边), ad truncos in sylvis densis, alt. 1780 m, 6 Maj. 1954, P. Y. Mao (毛品一) 4185 (Typus, KUN).

与原变种不同在于花近于无梗。

林生越桔 新种 图11

Vaccinium sciaphilum C. Y. Wu, sp. nov. (Sect. Conchophyllum)

Species affinis *V. piloso* A. Chev. ex P. Dop, sed foliis apice obtusis emarginatis, calycibus hispidis, corollis purpurco-viridibus differt.

Frutex sempervirens, saepe epiphyticus, 0.5—0.6 m altus multiramificans. Radix prostrata elongata moniliformis. Ramuli graciles, in partibus novellis brunnei vel ferrugini dense pubescentes, in partibus vetustioribus cinereo-brunnei glabrescentes, dense foliati. Lamina coriacea, obovata vel elliptica, interdum late ovata, ovata, 1.3—1.7(—2) cm longa, 0.6—1 (1—1.4) cm lata, apice obtusa emarginata, basi cuneata usque late cuneata, margine leviter revoluta integra, supra glabra, subtus sparse adpresseque pilosis, pilis glandulifomibus, nervis lateralibus 2—3-jugis ut costa supra leviter impressis, subtus leviter prominentibus; petioli c. 2 mm longi pubescentes. Flores axillares solitarii vel duo; pedicelli c. 3 mm longi, dense pubescentes. Calycis tubus hispidus, lobis 5, deltoideo-ovatis 2 mm longis pubescentibus. Corolla purpureo-viridis, late campanulata 5 mm longa ad 1/2 fissa, lobis oblongis apice abrupte acutis reflexis. Stamina 10 corollam subaequantia; filamenta 1 mm longa glabra; thecae dorso manifeste bicalcaratae; tubuli thecas aequilongi. Bacca subglobosa 5—6 mm diam., pubescens, calycis lobis persistentibus deltoideo-lanceolatis 2.5—3 mm longis pubescentibus; pedunculi fructiferi c. 4 mm longi dense hispidi.

Yunnan (云南): Jinping (金平), in sylvis densis, alt. 2100 m, 16 Maj. 1956, Expositio Sino-Rossico (中苏联合考察队) 1480 (Typus, KUN); Jingdong (景东), ad truncos in sylvis densis, alt. 2450 m, 13 Oct. 1939, M. K. Li (李鸣冈) 0512; Wenshan (文山), ad truncos in sylvis mixtis, alt. 2200 m, 13 Aug. 1947, K. M. Feng (冯国楣) 11209; Luchan (绿春), ad truncos in sylvis muscosis vel in sylvis sempervirentibus, alt. 1700—2200 m, 17 Sep. et 17 Oct. 1973, D. D. Tao (陶德定) 140, 897.

本种近于越南产的 *V. pilosum* A. Chev. ex P. Dop (1930), 但叶片顶端钝圆,



图11 林生越桔 *Vaccinium sciaphilum* C. Y. Wu, 1.果枝; 2.花; 3.花冠展开; 4.雄蕊侧面观; 5.雄蕊背面观; 6.幼枝一部分; 7.叶背面一部分, 示毛被。(肖裕绘)

微凹, 花萼被糙毛, 花冠紫绿色而不同。

毛萼珍珠树 新变种

Vaccinium chengae Fang var. *pilosum* C. Y. Wu, var. nov.

A typo recedit pedicellis cum calycibus dense pilosis.

Sichuan (四川): Emei Xian (峨眉山), in rupibus, alt. 1000 m, 8 Sep. 1957, G. H. Yang (杨光辉) 57200 (Typus, KUN); Hongya (洪雅), in loco umbroso montis, alt. 1950 m, 15 Jul. 1959, Exp. Pl. Econ. ad Prov. Sichuan (四川经济植物普查队) 1256.

与原变种不同的是花梗以至花萼均密被长柔毛。

单花越桔组 新组

Sect. *Monanthos* C. Y. Wu et R. C. Fang, sect. nov.

Frutex sempervirens epiphyticus. Ramuli dense hirsuti. Folia minuta, elliptica vel ovato-elliptica, apice acuta, margine laxe denticulata. Flores sessiles axillares singuli, 4-5 meri. Corolla tubulo-urceolata, thecae dorso ecalcaratae. Bacca pseudo-8-10-locularis.

Typus sectionis: *Vaccinium paucicrenatum* Sleumer

Sectio nova floribus solitaris axillaribus insignis, quae *Conchophyllo* Sleumer proxima, sed foliis margine denticulatis, apice acutis, floribus 4-5-meris, thecis dorso ecalcaratis differt.

常绿灌木, 附生。茎密被长糙毛。叶小, 椭圆形或卵状椭圆形, 顶端锐尖, 边缘疏生小锯齿。花近于无梗, 单生叶腋, 4—5 出数。花冠筒状坛形。花药背部无距。浆果假 8—10 室。

组模式种: 疏齿越桔 *V. paucicrenatum* Sleumer

已知 2 种, 分布区限于东喜马拉雅。1 种即疏齿越桔 *V. paucicrenatum* Sleumer 产印度阿萨姆、缅甸东北部; 另 1 种小尖叶越桔 *V. spiculatum* C. Y. Wu et R. C. Fang 产我国西藏墨脱。

本新组以其花单生叶腋与贝叶组 Sect. *Conchophyllum* Sleumer 接近, 不同在于叶有锯齿, 锐尖, 花 4—5 数, 药室背部无距。

疏齿越桔 (*V. paucicrenatum* Sleumer in Bot. Jahrb. 71 (4): 432. 1941) 曾被置于越桔组 (Sect. *Vitis idaea*) 内, 但 Sleumer 对这个种的分类位置是提出过疑问的, 他认为这个种以其腋生的单花而与越桔组内其余种类相异, 而以其叶片和花的特征可能宁可置之于贝叶组。从已知的 *V. paucicrenatum* 及新发现的 *V. spiculatum* 2 个种所具特征来看, 腋生的单花有别于越桔组的顶生总状花序; 叶有锯齿不为全缘, 顶端锐尖, 不为钝圆或微凹缺, 花出现 4 数, 雄蕊的药室无距等特征又不同于贝叶组。

小尖叶越桔 新种 图 12

Vaccinium spiculatum C. Y. Wu et R. C. Fang, sp. nov. (Sect. *Monanthos* C. Y. Wu et R. C. Fang)

Species *V. paucicrenato* Sleumer valde affinis, sed floribus 4-meris, calycibus

et corollis extus hispidis, filamentis glabris.

Frutex sempervirens, epiphyticus, 30—40 cm altus multiramificans. Ramuli graciles dense brunneo-hirsuti sed in vetustate glabrescentes dense multifoliati. Lamina subcoriacea, elliptica vel ovato-elliptica, 7—10 mm longa, 4—6 mm lata, apice acuta basi late cuneata, margine leviter revoluta, utroque 2—3 denticulata sed inferne integra, utrinque glabra, nervis lateralibus 1—2 (—3)-jugis ut costa utrinque prominula, reticulo inconspicuo; petiolus 0.5—1 mm. Flores axillares solitarii; bractea haud visa. Pedicelli tandem 0.5 mm longi. Calycis tubus extus albo-hispidus, lobis 4 deltoideo-lanceolatis c. 1 mm longis sparse hispidis. Corolla alba tubulo-urceolata c. 5.5 mm longa, extus dense pubescens, breviter 4-loba. Stamina 4 corolla breviora, filamenta 1—1.5 mm longa glabra basi dilatata; thecae 1.2—1.8 mm longae dorso calcaratae, tubuli longitudine 1/2 thecae partes aequantes. Stylus corolla vix longior. Fructus maturus haud visus.

Xizang (西藏): Medog (墨脱), ad truncos in sylvis sempervirentibus, alt. 1400—1900 m, 30 Dec. 1982, B. S. Li (李渤生) et S. Z. Cheng (程树志) 02364 (Typus, KUN); ibidem, ad truncos in sylvis sempervirentibus, alt. 1500—2000 m, 22 Apr. 1983, id. 04225; ibidem, alt. 950 m, 27 Jan. 1983, id. 02712.

本种与疏齿越桔 *V. paucicrenatum* Sleumer (产印度阿萨姆、缅甸东北部) 极相近缘, 不同在于花4数、花萼、花冠外被微硬毛, 花丝无毛。

台湾越桔 (中国高等植物图鉴) 改级新组合

Vaccinium delavayi Franch. subsp. *merrillianum* (Hayata) R. C. Fang, st. nov. — *V. merrillianum* Hayata in Journ. Coll. Sci. Univ. Tokyo 25 (19): 149, pl. 24, 1908, et Icon. Pl. Form. 2:116, f. 1—9, 1912; 中国高等植物图鉴 3:199, 图4352, 1974; 台湾植物志 4:44, 1978 — *Agapetes merrilliana* (Hayata) Nakai in Journ. Jap. Bot. 12:377, 1936. — *Vaccinium vitis-idaea* Linn. var. *merrillianum* (Hayata) S. S. Ying in Quart. Journ. Chin. Forest 10(1): 117, 1977.

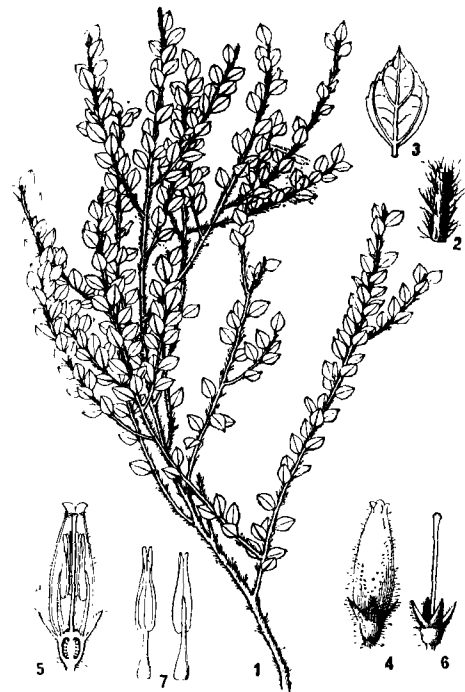


图12 小尖叶越桔 *Vaccinium spiculatum* C. Y. Wu et R. C. Fang, 1.花枝; 2.小枝一部分; 3.叶片; 4.花; 5.花纵剖; 6.雌蕊及花萼; 7.雄蕊。(曾晓濂绘)

