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景天科新分类群*

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NEW TAXA OF CRASSULACEAE

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关键词 景天科, 石莲属, 红景天属, 东爪草属, 新分类群 *分来落*
Key words Crassulaceae, *Sinocrassula*, *Rhodiola*, *Tillaea*, New taxa

褐斑石莲 新变种

Sinocrassula luteorubra (Praeg.) H. Chuang var. *maculosa* H. Chuang, var. nov.

A var. *luteorubrae* differt floribus minoribus, sepalis 2~2.5 mm longis, petalis 3~3.5 mm longis, sepalis petalisque multo glandaceo-maculosis.

Yunnan(云南): Mengzi(蒙自), C. W. Wang(王启无) 81420, 83201; Pingbian(屏边), ad scopulos, alt. 1250 m, fl. luteolus, 20. Sept. 1939, C. W. Wang 81964(Typus! KUN); Yanshan(砚山), C. W. Wang 83596; Mengla(勐腊), S. J. Pei(裴盛基) 59-10150, Y. H. Li(李延辉) 3809; Yiliang(宜良), P. Y. Chiou(邱炳云) 771286; Kunming(昆明), P. Y. Chiou 77468, 77569; Anning(安宁), C. Y. Wu(吴征镒) 203; Fumin(富民), P. Y. Chiou 596443.

与原变种的区别是花较小, 萼片长 2~2.5 mm, 花瓣长 3~3.5 mm, 萼片和花瓣具多数棕黄色斑点。

异叶石莲 新种

Sinocrassula diversifolia H. Chuang, sp. nov.

Haec species differt a congeneris plantis altis robustis, caulibus et foliis et petalis ventralibus filamentisque purpureo-maculosis; foliis dimorphis, inferioribus late obovatis, vel late ellipticis, 2~2.7 cm latis, superioribus anguste lanceolatis vel lineari-lanceolatis, 0.3~0.8 cm latis.

Herba glabra, 40~50 cm alta. Radix usque ad 13 cm longa, fibris numerosis tenuibus. Caules erecti robusti, basi 4~6 mm crassi, simplices, cinereo-virides, dense purpureo-maculosi. Folia basalia sparsim rosulata, late obovata, 3~4 cm longa, 2~2.5 cm lata, apice rotundata, basi late cuneata, utrinque dense brunneo-maculosa; folia caulina alterna, dimorpha, inferiora late obovata vel late elliptica, 3~5 cm longa, 2~2.7 cm lata, apice obtusa vel acuta, basi late cuneata, utrimque dense purpureo-maculosa, superiora anguste lanceolata vel lineari-lanceolata, 3~5 cm longa, 0.3~0.8 cm lata, apice acuminata, basi angustata, utrimque sparsim purpureo-maculosa. Inflorescentia corymbiformis terminatrix, 6~15 cm longa, 8~12 cm lata, ramulis alatis; bracteae foliis summis similes sed minores; pedicelli erecti

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floribus longiores, alati. Sepala 5, erecta, triangulari-lanceolata, 2~2.5 mm longa, 1~1.5 mm lata, apice acuta vel acuminata; petala 5, lanceolata, 3.5~4 mm longa, 1~1.5 mm lata, apice acuminata, flava, ventraliter purpureo-maculosa; stamina 5, 2.5~3 mm longa, filamentis linearibus, albis, purpureo-maculosis, antheris cordato-oblongis, circ. 0.8 mm longis; squamae 5, late quadratae, 0.3~0.5 mm longae, 0.5~0.7 mm latae; carpella 5, erecta, anguste ovata, 2.5~3 mm longa, stylis gracilibus, 0.5~1 mm longis. Folliculi 5, erecti, multi-seminales. Semina ovato-oblonga, fusci, striis 10~12 longitudinalibus parallelis.

Yunnan(云南): Gongshan(贡山), Lancang Jiang-Nu Jiang divide, Doyon-lumba, ad scopulos fossarum, alt. 2500~2700 m, 30. Aug. 1940, K.M.Feng(冯国楣) 7180; Gongshan, Bing-zhong-luo, in sylvis profundorum fossarum, 14. Nov. 1959, K.M.Feng 24610(Typus! KUN).

本种植株高大, 粗壮, 茎、叶、花瓣腹面和花丝均密具紫红色斑点, 茎生叶异型, 下部叶宽倒卵形或宽椭圆形, 宽 2~2.7 cm, 上部叶狭披针形或线状披针形, 宽 0.3~0.8 cm。

多苞红景天 新种

Rhodiola multibracteata H. Chuang, sp. nov.

Species similis *R. kirilowii* (Regel) Maxim., sed bracteis plurimis; petalis marium haud unguiculatis, majoribus; rostris folliculorum erectis; foliis angustioribus differt. In habitu species *R. robustae* (Praeg.) S.H.Fu videtur proxima, a qua differt sepalis quam petalis brevioribus, staminibus quam petalis longioribus.

Herba perennis. Caudex erectus, 5~8 cm longus, 1.5~3.5 cm crassus, apice caules floriferos et dense squamas late triangularas 0.6~1.3 cm longas 0.5~1 cm latas obtusas ferrugineas ferens. Caules 2~7, erecti robusti simplices, 15~40(-80) cm longi 0.4~1 cm crassi, laeves, foliosi. Folia alterna, linearia, 1~3 cm longa, 1~2.5 mm lata, apice obtusa vel acuta, basi rotundata, margine integra, glabra, sessilia. Inflorescentia cymocorymbosa terminatrica, multifloribus, pedunculis inconspicuis, bracteis plurimis; bracteae foliis similes, densissimae, inflorescentiam superantes. Flores dioici. Flores masculini: pedicelli 2~5 mm longi, laeves; sepala 5, triangulato-linearia, 3~4 mm longa, circ. 0.8 mm lata, apice obtusa, erecta vel patentia; petala 5, flavovirentia vel luteola, linear-oblongata vel linear-oblonga, 5~7 mm longa 1~1.2 mm lata, apice obtusa, erecta vel patentia; stamina 10, 6~8 mm longa, filamentis linearibus, antheris ovato-cordata; squamae nectariferae 5, subquadratae, 0.7~0.8 mm longae, 0.6~0.7 mm latae, emarginatae; carpella 5, 2.5~3 mm longa, vacua. Flores feminei: pedicelli 1~2 mm longi, sub fructibus producti, laeves; sepala et petala squamaeque floribus masculinis similes; stamina nulla; carpella 5, 5~6 mm longa, ovulis numerosis, stylis erectis 0.5~1 mm longis. Folliculi erecti, 8~10 mm longi, sub maturitibus prupurati, rostris 0.5~1 mm longis erectis. Semina anguste oblonga 1.5~2 mm longa, brunnea.

Yunnan(云南): Deqen(德钦), C. W. Wang 69244, K. M. Feng 6807, Qinghai-Xizhan Exp.(青藏队) 2730; Zhongdian(中甸), ad fossas, alt. 3400 m, 24. Jun. 1937, T. T. Yu(俞德浚) 11718(Typus! KUN), K. M. Feng 1466, Zhongdian Exp.(中甸队) 1689, J. S. Yang(杨竞生) 8255; Huize(会泽), Dongchuan Exp.(东川队) 63-12, Yunnan Sept-Orient Exp.(滇东北组) 256.

本种近 *R. kirilowii* (Regel) Maxim., 但本种苞片极多, 雄花瓣不具爪, 花较大, 萼筒之喙不外弯, 叶较狭。体态极似 *R. robusta* (Praeg.) Fu, 但本种萼片比花瓣短, 雄蕊长于花瓣。

丽江东爪草 新种

Tillaea likiangensis H. Chuang, sp. nov.

Proxima *T. yunnanensi* S.H.Fu, a qua differt floribus solitariis axillaribus, pedicellis circ. 0.5 mm longis;

sepalis quam petalis brevioribus, limbis triangulatis; petalis roseolis, longe ovatis 1.4~1.6 mm longis, apice obtusis; staminibus longitudine circ. 1/2 petalorum.

Herba annua, 2~5 cm alta. Radices fibrosae numerosae tenuissimae brunneae. Caulorhiza elongata prostrata, e nodis radices et 1~4 caules emittentia. Caulis erectus vel ascendens, circ. 0.5 mm crassus, saepe simplex, viridis non numquam purpurascens. Folia opposita, linearia, 3~6 mm longa, circ. 0.5 mm lata, apice acuta, basi 0.5~0.8 mm connata, margine integra, utrinque viridula interdum purpurascens, sessilia. Flos solitarius, axillaris, pedicellis circ. 0.5 mm longis. Calyx 0.8~1 mm longus, 4~5-partitus, lobis triangulatis, apice obtusis viridibus; petala 4~5, rosacea, longe ovata, 1.4~1.6 mm longa, 0.5~0.8 mm lata, apice obtusa; stamina 4~5, 0.7~0.8 mm longa, filamentis tenuissimis, antheris minimis; squamae 4~5, minimae; carpella 4~5, longe ovata, circ. 1.5 mm longa, stylis brevissimis. Folliculi erecti, apice paulo recurvi. Semina anguste oblonga, circ. 0.5 mm longa, circ. 0.2 lata, xerampelina, striis longitudinalibus.

Yunnan(云南): Likiang, Yuhu(丽江, 玉湖), in palude, alt. 2700 m, 1. Aug. 1959, fl. roseolus, K. M. Feng 22504(Typus! KUN), W. X. Xu(徐文宣) s. n.

本种近云南东爪草 *T. yunnanensis* Fu, 但本种花单生于叶腋, 花梗长约 0.5 mm; 萼片短于花瓣, 裂片三角形; 花瓣粉红色, 长卵形, 长 1.4~1.6 mm, 先端钝; 雄蕊长约为花瓣的 1/2。

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书讯 由中国科学院昆明植物研究所民族植物室裴盛基等人主编的《西双版纳轮歇农业生态系统生物多样性研究论文报告集》一书已于 1997 年 6 月由云南教育出版社出版。该书为 16 开本, 192 页码, 彩色封面过塑, 25.7 万字, 共收载论文报告 23 篇。分别从生物多样性的不同层次研究了西双版纳轮歇农业生态系统中的动物、植物(作物)及生态系统, 反映了中国轮歇农业(刀耕火种)研究领域的最新成果。率先在我国采用人类生态学, 遥感与地理信息系统, 数量生态, 参与性农村评估、政策对话与分析等方法 and 手段研究了轮歇农业生态系统的生物多样性。论文中提出对刀耕火种的新认识以及刀耕火种的改良替代途径将为政府有关部门提供决策依据。该书材料丰富, 涉及面广, 是从事轮歇农业和生物多样性研究工作的科技人员、教师及政府有关部门的领导、工作人员的重要参考文献。

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