

米,疏被小腺体;花萼钟状,长8—10毫米,外面疏被小腺体,分裂深达中部,裂片卵状披针形至披针形,先端锐尖,边缘具小缘毛;花冠淡紫色,喉部具环状附属物,冠檐直径约2厘米,裂片阔倒卵形,先端具深凹缺;长花柱花:冠筒长12—13毫米,雄蕊着生于冠筒中部,花柱约与冠筒等长;短花柱花:冠筒长16—17毫米,雄蕊近冠筒口着生,花柱稍短于花萼。蒴果球形,约与萼筒等长。花期3月,果期6月。

四川特有种,仅见于灌县青城山生长于山谷林下和潮湿处,海拔900米。模式标本采自青城山天师洞。

本种全体秃净无毛,极易识别。

108. 三齿卵叶报春(新拟)

Primula tridentifera Chen et C. M. Hu in Addenda.

多年生草本。根状茎粗短,具多数长根。开花期叶丛基部具覆瓦状排列的鳞片3—4轮;鳞片矩圆形至矩圆状披针形,长2—4厘米,宽8—12厘米,先端常呈叶状,具隆起的网脉,背面被白粉。叶倒卵形至倒卵状矩圆形,长4.5—10厘米,宽2.5—5.2厘米,先端圆形,基部楔状渐狭,边缘具波状浅齿或略呈浅裂状,干时近革质,上面因网脉下陷而呈泡状,被粉质小腺体或白粉,下面叶脉凸起呈蜂窝状,密被白粉,无毛,中肋稍宽,侧脉11—13对;叶柄极短,分化不明显。花萼高9—12厘米,多少被小腺体;伞形花序5—9花;苞片自卵形的基部渐尖成披针形,长6—9毫米,具明显的中肋;花梗长1—1.5厘米,疏被小腺体;花萼钟状,长9—11毫米,外面疏被小腺体,分裂约达全长的1/3,裂片卵形至卵状矩圆形,明显具3脉,先端有3个具胼胝质尖头的小齿;花冠紫色,冠筒与花萼约等长,冠檐直径约2厘米,裂片倒卵形,长约1厘米,宽7.5—9毫米,先端深2裂;长花柱花:雄蕊近冠筒中部着生,花柱长达冠筒口。蒴果未见。花期5月,果期6月。

产于四川南部(峨边)和云南东北部(大关)。生长于山谷林下和有滴水的岩石上,海拔1950—3000米。模式标本采自四川峨边永胜。

本种与二郎山报春(*P. epilosa* Craib)近缘,但花较小,花萼分裂仅达全长的1/3,裂片具3齿,易于区别。

109. 贵州卵叶报春(中国高等植物图鉴) 艾氏报春(拉汉种子植物名称)

Primula esquirolii Petitm. in Bull. Soc. Sci. Nancy ser. 3, 8: 16. 1907, et in Fedde Repert. Sp. Nov. 9: 240. 1911; Dunn in Journ. Linn. Soc. Bot. 39: 480. 1910; 中国高等植物图鉴 3: 804. 1974.

多年生草本,具粗短的根状茎和多数纤维状须根。开花期叶丛基部外围有褐色鳞片。叶椭圆状倒卵形至倒卵状倒披针形,长5—13厘米,宽1.5—5厘米,先端圆形,基部渐狭窄,边缘具波状浅齿或小牙齿,干后近革质,上面因网脉下陷而成泡状,疏被短柄腺体,下面侧脉及网脉明显凸起,呈蜂窝状,沿叶脉密被白色短腺毛;叶柄通常不明显,极少长达1.5厘米。开花期花萼高不超过1厘米,疏被短柄腺体;伞形花序4至多花;苞片线状披针

Species affinis *P. petelotii* W. W. Smith, a qua foliis basi obtusis vel subrotundatis, calycibus poculiformibus tantum 5—6 mm longis, vix ad medium fissis differt.

Yunnan (云南): Wenshan Xian (文山县), Laojunshan (老君山), alt. 2000 m, in mixed forest, 2 V 1962, K. M. Feng (冯国楫) 22284 (holo. KUN).

***Primula strumosa* Balf. f. et Cooper var. *tenuipes* C. M. Hu, var. nov.**

A var. *strumosa* foliis oblongis vel ovato-oblongis, basi obtusis vel cordatis differt.

Xizang (西藏): Gyirong Xian (吉隆县), Tuodang (托当), alt. 3800m, in *Abies* forest, 5 VII 1975, C. Y. Wu et al. (吴征镒等) 75-0608; Dingjie Xian (定结县), Riwu distr. (日屋区), alt. 3800m, on fringe of *Abies* forest, 10 VI 1975, Qinghai-Xizang Exped. (青藏队) 5688 (holo. PE).

***Primula sonchifolia* Franch. subsp. *emeiensis* C. M. Hu, subsp. nov.**

A subsp. *sonchifolia* planta efarinosa, foliis profunde pinnatisectis, lobis corollae obovato-oblongis vel ellipticis integris differt.

Sichuan (四川): Emei Shan (峨眉山), alt. 2300—3000m, in forest, K. H. Yang (杨光辉) 54321, 54433, 54456 (holo. IBSC), 55229, 55248; eodem loco (同地), C. H. Hsiung, S. S. Chang et H. L. Tsiang (熊济华, 张秀实, 蒋兴廖) 30195, 31428, 31818.

Yunnan (云南): Qiaojia Xian (巧家县), Yaoshan (药山), alpine meadow, alt. 3800 m, 15 VII 1973, B. S. Sun (孙必兴) 1046.

***Primula ovalifolia* Franch. subsp. *tardiflora* C. M. Hu, subsp. nov.**

A subsp. *ovalifolia* sub anthesi foliis annotinis nullis, hornotinis perfecte evolutis, basi attenuatis vel subito angustatis decurrentibus, subtus ad costam et nervosque pubescentibus, certerum glabris, florescentia tardiore differt.

Sichuan (四川): Emei Shan (峨眉山), alt. 2100—2400m, in forest, K. H. Yang (杨光辉) 54324, 54421 (holo. IBSC), 55168, 55259; eodem loco (同地), T. H. Hsiung, S. S. Chang et H. L. Tsiang (熊济华, 张秀实, 蒋兴廖) 30166; eodem loco (同地), W. P. Fang (方文培) 231, 14729; eodem loco (同地), S. L. Sun (孙锡麟) 1865.

***Primula tridentifera* Chen et C. M. Hu, sp. nov.**

Species valde distincta cujus affinitas est cum *P. epilosa* Craib atque *P. fagosa* Franch., a quibus floribus minoribus, calycis lobis brevioribus, apice tridenticulatis differt.

Sichuan (四川): Ebian Xian (峨边县), Yongsheng (永胜), Laocaogou (老

槽沟), alt. 3000m, on edge of rocks, 17 V 1959, Sichuan Economic Plant Exped. (四川经济植物调查队) 1303 (holo. SZ).

Yunnan (云南): Daguan Xian (大关县), Lianhe (联合), Zhaozigou (罩子沟), in forest, on rocks with dripping water, alt. 1950 m, 17 VI 1973, B. S. Sun *et al.* (孙必兴等) 685.

Primula exscapa Chen et C. M. Hu, sp. nov.

P. coerulae Forr. primo aspectu maxime similis, sed scapo haud evoluto, floribus minoribus, pedicellis longioribus diversissima.

Yunnan (云南): Jingdong Xian (景东县), southwestern side of Luoshuidong (落水洞西南边), alt. 2400m, stream side, 4 V 1959, S. G. Xu (许溯桂) 3568 (holo. KUN); eodem loco (同地), Xiao-Lu-Shan, alt. 2200m, 7 III 1939, M. K. Li (李鸣岗) 3530.

Primula praeiflorens Chen et C. M. Hu, sp. nov.

Species praecedenti affinis, sed foliis haud bullatis, pedicellis puberulis (nec ferrugineo-villosis), calycibus brevioribus differt.

Yunnan (云南): Jingdong Xian (景东县), Panmai, alt. 2400m, on rock surface, 18 XII 1939, M. K. Li (李鸣岗) 2492 (holo. KUN).

Sect. 15. ***Crystallophlomis*** Rupr.

Primula soongii Chen et C. M. Hu, sp. nov.

Primo visu *P. orbiculari* Hemsl. subsimilis, tamen non arcte affinis, a qua differt planta efarinosa, squamis basalibus destituta, foliis margine eroso-dentatis; cujus affinitas est cum *P. szechuanica* Pax, sed lobis corollae suborbicularibus, haud refractis, calycibus longioribus valde diversa.

Sichuan (四川): Baoxing Xian (宝兴县), Daqiangpeng (打枪棚), alt. 3900m, on banks and pasture, VI 1959, Z. P. Soong (宋滋圃) 38546, 38586 (holo. IBSC); eodem loco (同地), in forest, 15 VI 1958, S. S. Chang et Y. X. Ren (张秀实, 任有铎) 5422.

Primula lactucoides Chen et C. M. Hu, sp. nov.

Species peraffinis *P. lungchiensi* Fang, a qua floribus albis, foliis vix ad medium pinnatifido-incisis differt.

Qinghai (青海): Nangqen Xian (囊谦县), Jiza Forest Farm (扎拉林场), alt. 3950m, 20 VI 1980, D. S. Lou et Z. C. Zuo (罗达尚, 左振常) 800103 (holo. IBSC).