

latum, 1 cm longum, 2 mm in diametro, phyllis 3-seriatis, externis ovatis, 1.3 mm longis, 1 mm latis, apice acutis vel obtusis, mediis lanceolatis, 3 mm longis, 1 mm latis, apice acutis vel obtusis, internis 5 in numero, longe ellipticis, 9 mm longis, 1.5 mm latis, apice rotundatis, omnibus purpureis, glabris. Flosculi 5 in numero, ligulati, purpurei. Corollae 10.5 mm longae, ligulis 6 mm longis, apice 5-fidis, tubis 5.5 mm longis, ad faucem albobipilosis. Achaenia anguste oblanceolata, atropurpurea, dorsi-ventraliter compressa, 3.8 mm longa, 1 mm lata, apice truncata, erostrata, costulata, facie costulis 7 in numero, inaequicrassis, prominentibus. Pappi setae brunneae, 3-seriatae, 6mm longae, obscure minute scabrae.

Yunnan (云南): Luquan (禄劝), Y. B. Zhong (张英伯) 0697、0515; Lijiang (丽江), T. T. Yu (俞德浚) 15576、17937; Yangbi (漾濞), in sylva, 26 X 1946, R. C. Ching (秦仁昌) 25263 (Typus, PE); Fumin (富民), B. Y. Qiu (邱炳云) 596190.

### 8. 台湾紫菊

**Notoseris formosana** (Kitam.) Shih, comb. nov.—*Prenanthes formosana* Kitam. in Act. Phytotax. et Geobot. **3**: 100, 1934—S. Y. Hu in Quart. Journ. Taiwan Mus. **20**(3—4): 303, 1967.

根据 S. Kitamura 对 *Prenanthes formosana* Kitam. 的详尽的记载“总苞紫色……内层总苞片 5 枚……小花 5 枚。花冠紫色……花冠管喉部有白色细柔毛……瘦果红紫色, 窄纺锤形, 压扁……向顶端稍收窄, 截形, 无喙, 每面有 7—9 条纵条纹……冠毛白色……冠毛刚毛易脆折, 微粗糙”, 显然, 该种应属于紫菊属 *Notoseris*。

台湾紫菊与云南紫菊 *N. yunnanensis* Shih 接近, 但前者茎枝及叶两面被短柔毛。

### 9. 南川紫菊 新种 图版 2:2; 3:7

**Notoseris porphyrolepis** Shih, sp. nov.

A. *N. yunnanensi* Shih et *N. rhombiformi* Shih lobis terminalibus longe ellipticis differt. Herba perennis. Caulis erectus, solitarius, 0.7—1.5 m altus, basi 5 mm in diametro, e basi paniculato-ramosus, omnino glaber. Folia inferiora mediaque pinnatipartita vel subpinnatisecta, petiolata, petiolis 4.5 cm longis, lobis lateralibus 2—3-jugis, 3—4 cm longis, 1—1.5 cm latis, in paribus aequimagnis, basi truncatis, late confluentibus, lobis terminalibus lateralibus similibus et ea subaequantibus vel aequantibus, omnibus apice acutis vel breve acuminatis, in quoque latere singulatim triangulato-dentatis vel unilateraliter singulatim triangulato-dentatis; folia supera indivisa, longe elliptica vel elliptico-lanceolata, 5.5 cm longa, 1 cm lata, apice acuminata, margine sparse mucronulata; folia sub inflorescentia subulata, minima; omnia glabra. Calathidia numerosa, ad ramos et caulem in inflorescentiam paniculatam formantia. Involucrum campanulatum, calyculatum, cernuum, 1.4 mm longum, 2.3 mm in diametro, phyllis 3—5-seriatis, externis lanceolatis, 3 mm longis, 1.5 mm latis, mediis longe ellipticis, 6mm longis vel ultra longis, 1mm latis, internis 5 in numero, longe ellipticis, 1.5 cm longis, 2 mm latis, omnibus purpureis, glabris, apice obtusis vel rotundatis. Flosculi purpurei, 5 in numero, ligulati, ligulis apice 5-fidis, tubis ad faucem albo-pisosis. Achaenia anguste oblanceolata, purpurea, dorsi-ventraliter compressa, 5 mm longa, 1.8 mm

lata, apice truncata, non rostrata, costulata, facie costulis 9 in numero, inaequicrassis, prominentibus. Pappi setae 3-seriatae, albae, 8 mm longae, obscure minute scabrae.

Sichuan (四川): Nanchuan (南川), alt. 1850m, 29. IX 1957 J. H. Xong et Z. L. Zhou (熊济华与周子林) 93702 (Typus, PE)。

与菱叶紫菊 *N. rhombiformis* Shih 及云南紫菊 *N. yunnanensis* Shih 接近,但本种叶的顶裂片为长椭圆状,易于区别。

#### 10. 多裂紫菊 图版 2:3; 3:6

**Notoseris henryi** (Dunn) Shih, comb. nov.—*Prenanthes henryi* Dunn in Journ. Linn. Soc. Bot. **35**: 514, 1903; S. Y. Hu in Quart. Journ. Taiwan Mus. **20**(3—4): 303, 1967.

湖北: 戴伦膺 1090, 李洪钧 6960。四川: 关克俭等 2355、2128, 熊济华与周子林 92489, 方文培 5774, 杨光辉 55494。贵州: N. Steward 435。云南: 滇东北队 1124。

生山坡林绿、林下, 海拔 1325—2200 米。本种以其叶二回掌式羽状分裂而有别与本属其他各种。模式标本采自四川巫山。

#### 11. 毛枝紫菊

**Notoseris wilsoni** (Chang) Shih, comb. nov.—*Prenanthes wilsoni* Chang in Bull. Fan Mem. Inst. Biol. **5**: 322, 1934; S. Y. Hu in Quart. Journ. Taiwan Mus. **20**(3—4): 305, 1967.

尽管我们没有见到张肇骞先生的 *Prenanthes wilsoni* Chang 模式标本,但从他的这个种的详细的原始记载“头状花序……有 4—5 枚小花……总苞片外面黑紫色……小花紫兰色……花冠管有腺点(实际应该是有疏柔毛)……瘦果压扁,纺锤状……每面有 5 条肋……黑紫色,顶端……渐尖……冠毛白色”以及这个种模式照片来看,无疑它应是紫菊属的一个成员。

这个种极似多裂紫菊 *Notoseris henryi* (Dunn) Shih, 具有二回掌式羽状分裂的叶,但前者茎枝被稠密的多细胞糙毛,二者容易区别。模式标本采自四川峨眉山。

#### 12. 三花紫菊 图版 2:4

**Notoseris triflora** (Hemsl.) Shih, comb. nov.—*Lactuca triflora* Hemsl. in Journ. Linn. Soc. Bot. **23**: 485, 1888—*Prenanthes triflora* (Hemsl.) Chang in Bull. Fan Mem. Inst. Biol. **5**: 321, 1934; Stebbins in Journ. Bot. Brit. For. **75**: 16, 19 37; S. Y. Hu in Quart. Journ. Taiwan Mus. **20**(3—4): 305, 1967.

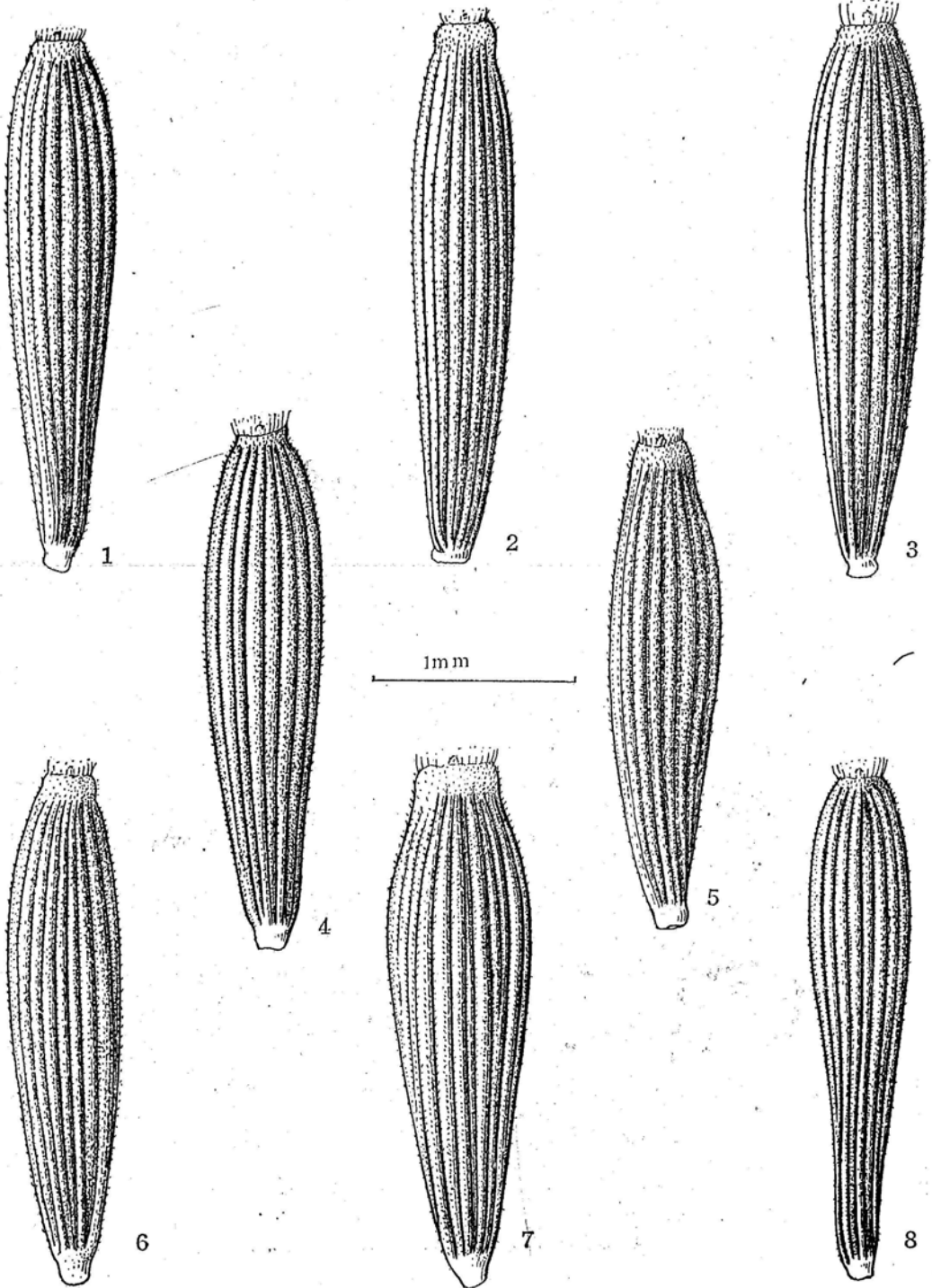
四川: 刘慎谔 12988, 周承烈 6797, 方文培 2815, 李国凤 62918, 熊济华与周子林 92805, 熊济华与张秀实 31880。

生山地草坡及林绿, 海拔 1800—1900 m。

模式标本采自四川峨眉山。本种头状花序有 3 枚舌状花, 有别于本属其他各种。



1. 菱叶紫菊 *Notoseris rhombiformis* Shih; 2. 南川紫菊 *N. porpyrolepis* Shih; 3. 多裂紫菊 *N. henryi* (Dunn) Shih; 4. 三花紫菊 *N. triflora* (Hemsl.) Shih.



紫菊属一些种的瘦果示意 Achenes of some species of *Notoseris* Shih 1. 云南紫菊 *N. yunnanensis* Shih; 2. 黑花紫菊 *N. metanantha* (Franch.) Shih; 3. 光苞紫菊 *N. psilolepis* Shih; 4. 全叶紫菊 *N. guizhouensis* Shih; 5. 菱叶紫菊 *N. rhombiformis* Shih; 6. 多裂紫菊 *N. henryi* (Dunn) Shih; 7. 南川紫菊 *N. porpyreolepis* Shih; 8. 细梗紫菊 *N. gracilipes* Shih. (冀朝祉绘画 drawn by Ji Chao-zhen)