

8308; Tianquan (天全), W. P. Fan (方文培) 37755, 10167, 10167, 34356; Emei Shan (峨眉山), T. N. Liou (刘慎谔) 1076; Xiangling Shan (相岭山), alt. 2500 m, 17 VIII 1938, T. P. Wang (王作宾) 8806。

Guangdong (广东): Lechang (乐昌), W. T. Tsang 20729; Ruyuan (乳源), L. Deng (邓良) 5522。

与黑花紫菊 *N. melanantha* (Franch.) Shih 相似, 但本种叶柄无翼, 容易区别。

6. 云南紫菊 新种 图版 3:1

Notoseris yunnanensis Shih, sp. nov.

A *N. rhombiformis* Shih. cui affinis, planta glabra et pappi setis albis bene differt.

Planta herbacea, altitudo ignota. Caulis superna panicuto-ramosus, glaber. Folia media lyrato-pinnatisecta, lobis terminalibus rhombiformibus, 13 cm longis, 8 cm latis, apice acuminatis, basi cuneatis, lobis lateralibus 2-jugis, in paribus aequimagnis, 2—7 cm longis, 1—2.5 cm latis, apice obtusis, basi truncatis vel oblique truncatis, late confluentibus, omnibus margine obscure sparse mucronulato-denticulatis, utrinque glabris. Calathidia numerosa, ad ramos et caulem inflorescentiam paniculatam amplam formantia. Involucrum campanulatum, 1.2 cm longum, 3 mm in diametro, phyllis 3-seriatis, externis lineari-lanceolatis, 4 mm longis, vix 1 mm latis, mediis longe ellipticis, 6 mm longis, 1 mm latis, internis longe ellipticis, 1—1.2 cm longis, 2 mm latis, omnibus apice obtusis, glabris, rufo-purpureis. Flosculi 4 in numero, ligulati, rufo-purpurei. Achaenia rufo-purpurea, anguste oblanceolata, dorsi-ventraliter compressa, 5 mm longa, 1 mm lata, apice truncata, non rostrata, costulata, facie costulis 6 in numero, inaequicrassis, prominentibus. Pappi setae 2-seriatae, albae, 7 mm longae, obscure minute scabrae.

Yunnan (云南): Yanshan (砚山), in sylva, alt. 1200 m, 27 X 1939, Q. W. Wang (王启无) 84744 (Typus, PE).

本种以植株光滑无毛, 冠毛白色与菱叶紫菊 *N. rhombiformis* Shih 相区别。

7. 菱叶紫菊 新种 图版 2:1; 3:5

Notoseris rhombiformis Shih, sp. nov.

Herba perennis. Caulis erectus, solitarius, 0.8—1 m altus, basi 8 mm in diametro, superne paniculato-ramosus, omnino puberulus. Folia inferiora mediaque lyrato-pinnatisecta, petiolata, petiolis 8.5—13 cm longis, lobis terminalibus rhombiformibus vel rhombiforme ellipticis, 6—10 cm longis, 3—7.5 cm latis, apice acutis vel acuminatis, basi cuneatis, lobis lateralibus 2-jugis, in paribus aequamagnis, 3—5 cm longis, 2—3 cm latis, apice acutis vel breve acuminatis, basi cuneatis vel truncatis, late confluentibus, omnibus margine denticulatis vel obtuse repando-vel rotundato-denticulatis, apice dentium apiculato; folia superiora et folia sub inflorescentia paniculata indivisa, longe elliptica vel linearia, 2—5 cm longa, 0.2—1.5 cm lata, brevissime petiolata vel vix petiolata, margine denticulata; omnia utrinque aspera, strigosiuscula. Calathidia numerosa, ad ramos et caulem inflorescentiam paniculatam ampla vel anguste formantia, cernua, erecta vel inclinata. Involucrum campanu-

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 albobilos. 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*。

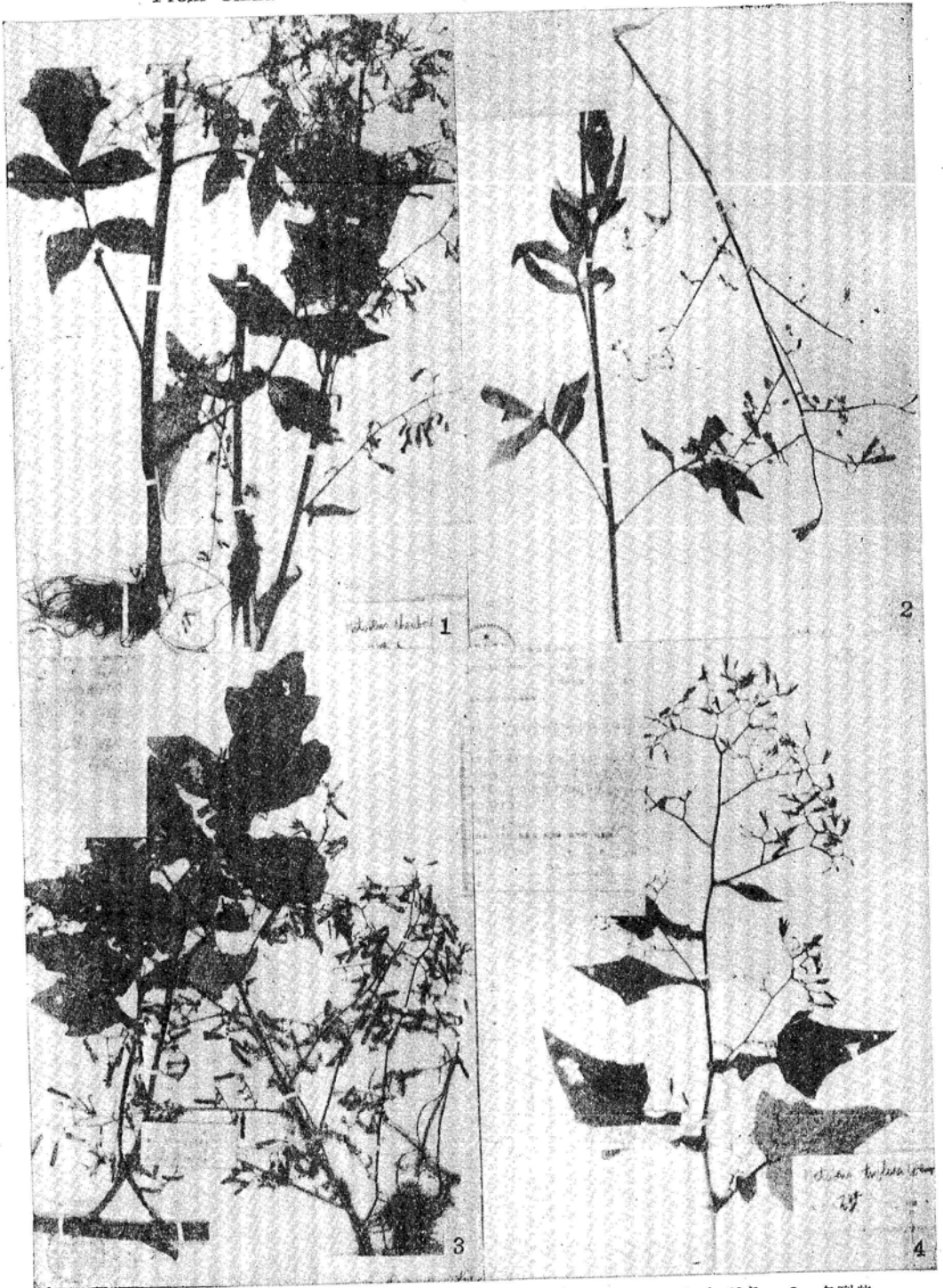
台湾紫菊与云南紫菊 *N. yunnanensis* Shih 接近, 但前者茎枝及叶两面被短柔毛。

9. 南川紫菊 新种 图版 2:2; 3:7

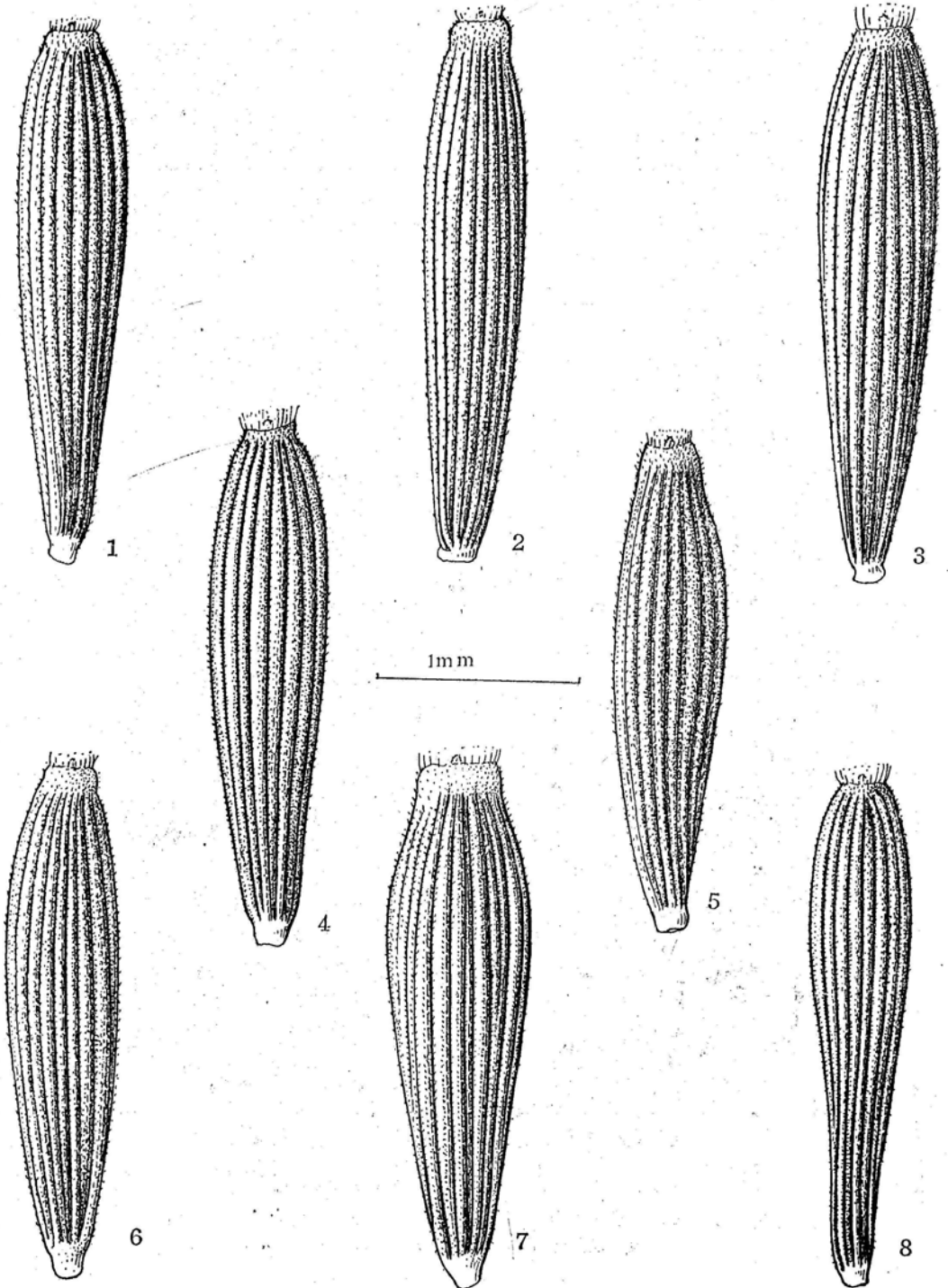
Notoseris porphyrolepis Shih, sp. nov.

A *N. yunnanensis* 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 4.5cm 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



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. (冀朝祯绘 drawn by Ji Chao-zhen)