

宁), in sylvis, alt. 1200 m, 9 X 1962, L. H. Liou (刘林翰) 15031, Wugang (武岗), 19528; S. S. Sin (辛树帜) 794. Jiangxi (江西): Jinggangshan (井冈山), J. S. Yue (岳俊三) 5382; Jiangxi Exped (江西队) 877; Wugong Shan (武功山), Jiangxi Exped. (江西队) 1230. Sichuan (四川): Nanchuan (南川), alt. 1500m, 17 IX 1957, J. H. Xong et Z. L. Zhou (熊济华与周子林) 93525 (Typus, PE)、93336; Tianquan (天全), K. C. Kuan et W. T. Wang (关克俭与王文采) 2148. Guizhou (贵州): Fanjing Shan (梵净山), N. Steward 435. Yunnan (云南): Jingdong (景东), B. Y. Qiu (邱炳云) 52973. Guangdong (广东): Lianxian (连县), P. X. Tang (谭沛祥) 60125; Ruyuan (乳源), Z. Huang (黄志) 44318. Guangxi (广西): Lingui (临桂), C. F. Liang (梁畴芬) 31019; Yangshuo (阳朔), R. H. Shan (单人骅) 617。

本种以叶戟形、卵状戟形、三角状戟形或卵状心形,中下部叶有长柄,上部叶有短柄,叶边缘有小锯齿,与本属其他各种相区别。

### 3. 腺毛紫菊

**Notoseris glandulosa** (Dunn) Shih, comb. nov.—*Prenanthes glandulosa* Dunn in Journ. Linn. Soc. Bot. **35**:514,1903; Hand.-Mazz. in Act. Hort. Gothob. **12**:350,1938.

尽管我们没有见到 S. T. Dunn 的 *Prenanthes glandulosa* 模式标本,但根据模式照片和原始记载中有关要点,比如“总苞紫兰色……瘦果向顶端渐收窄……有 6 条小纵肋”,显然,这个种应属于紫菊属。

这个种的中下部茎叶三角状或卵状心形,质地坚硬,有叶柄,叶柄中部以下扩大成翼,柄基鞘状半抱茎,容易与本属其他各种相区别。

模式标本是通过中国西部种子采集在英国皇家植物园邱园繁育的植株。

### 4. 黑花紫菊 图版 1:4; 3:2

**Notoseris melanantha** (Franch.) Shih, comb. nov.—*Lactuca melanantha* Franch. in Journ. de Bot. **9**: 291, 1895; Diels in Bot. Jahrb. **29**: 634, 1901; S. Y. Hu in Quart. Journ. Taiwan Mus. **20**(3—4): 304, 1967.

四川: 熊济华与周子林 92336。

本种接近细梗紫菊 *N. gracilipes* Shih, 但前者叶柄有宽或窄翼,容易区别。两者都具有大头羽状分裂的叶,顶裂片大,戟状三角形或三角形,侧裂片小。

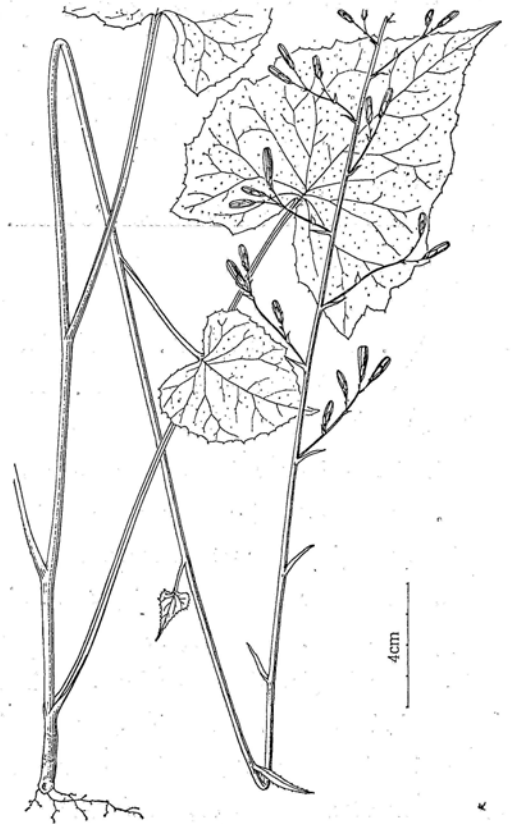
模式标本采自四川城口。

### 5. 细梗紫菊 新种 图 1;图版 3:8

**Notoseris gracilipes** Shih, sp. nov.—*Prenanthes henryi* auct. non Dunn: 中国高等植物图鉴 **4**:695,1975,6803 图。

A *N. melanantha* (Franch.) Shih, cui affinis, sed petiolis exalatis bene differt.

Herba perennis. Caulis solitarius, erectus, 1 m altus, robustus, basi 1 cm in diametro, superne paniculato-ramosus; omnino pubibus multicellularibus noduliformibus inferne sparse superne dense obtectus. Folia inferiora mediaque lyrato-pinnatisecta, petiolata, petiolis 4—8 cm longis, lobis terminalibus hastato-triangularibus, 10—14 cm longis, 9—10 cm latis, apice acuminatis, lobis latelariibus 1—2(3)-jugis, in paribus aequimagnis, 2.5—4.5cm longis 1.3 cm

图 1 细梗紫菊 *Notoseris gracilipes* Shih (冀朝祯绘)图 2 光苞紫菊 *N. psilolepis* Shih (冀朝祯绘)

latis, apice acutis vel obtusis vel rotundatis; folia superiora inferioribus mediisque similia, sed minora, divisa vel indivisa, lineari-elliptica, late lanceolata vel ovato-lanceolata; omnia margine dense vel sparse, obtuse vel acute inaequaliter dentata, utrinque pubibus multicellularibus noduliformibus sparsissime obtecta. Calathidia numerosa, cernua, inclinata vel erecta, ad ramos et caulem inflorescentiam paniculatam formantia. Involucrum campanulatum, 0.8—1 cm longum, 3—4 mm in diametro, calyculatum, phyllis 3-seriatis, externis mediisque triangulato-lanceolatis vel lanceolatis, 2—4 mm longis, vix 1 mm latis, internis 5 in numero, longe ellipticis vel longe elliptico-lanceolatis, 8 mm longis, 2 mm latis, omnibus purpureis, apice obtusis vel acutis, glabris, Flosculi purpurei, ligulati, 5 in numero. Corollae 1.1 cm longae, tubis 4 mm longis, ad faucem albo-pilosis, ligulis 7 mm longis, apice truncatis, acute 5-fidis. Achaenia anguste oblanceolata, dorsi-ventraliter compressa, 4 mm longa, 1 mm lata, atropurpurea, apice truncata, non rostrata, costulata, facie costulis 7 in numero, inaequicrassis, prominentibus. Pappi setae albae, 2-seriatae, 7 mm longae, obscure minute scabrae.

Sichuan (四川): Baoxing (宝兴), 1934, K. L. Chu (曲桂龄) 3005 (Typus, PE); Nanchuan (南川), G. F. Li (李国凤) 64159, 64320, K. C. Kuan et al. (关克俭等) 2030; Pingshan (屏山), T. T. Yu (俞德浚) 3094; Hanyuan (汉元), C. Pei (裴鑑)

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-