

这是一个复合种。云南德钦的居群植株较矮, 伞形状聚伞花序上被稠密的长柔毛, 叶两面被稠密的长柔毛; 西藏加查及林周地区植株伞形状聚伞花序上的长柔毛较稀疏。这个种与糖芥绢毛菊 *Sorosaris erysimoides* (Hand.-Mazz.) Shih 的共同分布区内有杂交现象的发生。

5. 绢毛菊

Sorosaris hookeriana (C. B. Clarke) Steb. in Mem. Torrey Bot. Club 19(3): 45, 1940; Kitam. in Act. Phytotax. et Geobot. 15: 77, 1953; S. Y. Hu in Quart. Journ. Taiwan Mus. 21(3—4): 167, 1968; 中国高等植物图鉴 4: 687, 1975. — *Crepis hookeriana* C. B. Clarke, Comp. Ind. 255, 1876. — *Crepis glomerata* (Decne) Hook. f. et Thoms., Fl. Brit. Ind. 3: 398, 1881, p. p. — *Sorosaris hookeriana* ssp. *typica* Steb. in l. c., 1940; Babcock in Univ. Calif. Publ. Bot. 22: 922, 1947; S. Y. Hu in Quart. Journ. Taiwan Mus. 21(3—4) 167, 1968 — *S. gillii* auct. non (S. Moore) Stebbins: 西藏植物志 4: 943, 1985, p. p.

西藏: 青藏队 76-8226、75-6713、76-8704、76-13312、76-8225、75-7092; 吴征镒 75-819、75-1126; 青藏队植被组 2712、7551、5674; 张永田 2125; 傅国勋 518; 无采集者 44-7245; 西藏中草药普查 955; 西藏综合考察队 5674。模式标本采自锡金地区。

6. 柱序绢毛菊 新种 图 2

Sorosaris teres Shih, sp. nov. — *S. gillii* auct. non (S. Moore) Steb.: 西藏植物志 4: 943, 1985, p. p.

Species *S. hirsutae* (Ahtli.) Shih proxima, sed inflorescentiis cymiformibus teretibus, 5—14cm longis bene differt.

Herba annua, 10—33cm alta radice verticali vel procumbenti, elongati, ad 1cm diam. Caulis solitarius, eramosus, teres, robustus, basi ad 1cm diam., e basi sursum incrassatus, sub inflorescentia ad 2cm incrassus, medullis pro ratione evolutis, hirsutieibus fuscis sparse obtectus. Folia numerosa, ad caulem spiraliter disposita, basalia et inferiora ambitu longe elliptica, major, 4.5—8cm longa, 1.6—3.5cm lata, runcinato-pinnatipartita vel subruncinato-pinnato-secta, lobis terminalibus minoribus, lanceolatis vel late linearibus, lateralibus 7—9-jugis, inaequaliter triangularibus, falcatis, longe ellipticis vel triangulato-falcatis; superiora basilibus et inferioribus simila, sed minora; utrinque glabra. Calathidia pedunculis 0.8—1.5cm longis, ad caulem inflorescentiam cymiformem teretem, 5—13cm longam et 4.5cm crassam formantia. Involucrum anguste cylindricum, 5mm diam.; phylla 2-seriata, heteromorpha, externa 2 anguste linearia in numero, c. 1cm longa, 0.5mm lata, hirsutieibus fuscis obtecta, interna 4 in numero, elliptica, 9mm longa, 2mm lata, apice obtusa, margine albo-membranacea, subtus hirsutieibus fuscis obtecta. Flosculi 4 in numero, ligulati flavi, ligulis 1.1cm longis, 3mm latis, apice 5-denticulatis, tubis 5mm longis. Achaenia subfusiformia;



图2 柱序绢毛菊 1. 植株; 2. 舌状小花; 3. 花柱分枝; 4. 瘦果; 5. 头状花序。(张泰利绘)

Fig.2 *Soroseris teres* 1. habit; 2. ray-floret; 3. style-arms of the ray-floret; 4. achene; 5. capitulum. (Drawn by T. L. Zhang)

paullo compressa, plano-convexa, apice truncata, erostrata, 5mm longa, costulis 20 in numero, inaequicrassa. Pappi setae aequilongae, 9—11mm longae, minute serrulatae. in annulum non concreatæ.

Xizang (西藏): Yadong (亚东), alt. 4200m, 1974. 09. 12, Qinghai-Xizang

Exped. (青藏队) 74-2371 (Typus PE)、74-2706、74-2857, Qinghai-Xizang Veg. Exped. (青藏植被调查队) 6601, G. X. Fu (傅国勋) 452; Pagri (帕里), P. C. Tsoong (钟补求) 6057; Nielamu (聂拉木), alt. 4400m, Xizang Chinense-drug Exped. (西藏中草药普查队) 1776.

一年生草本, 高10—33cm; 根垂直直伸或平卧, 伸长, 直径达1cm。茎单生, 不分枝, 圆柱状, 粗厚, 基部直径达1cm, 自基部向上增粗, 在花序处直径达2cm, 有发达的髓部, 被稀疏的黄色长硬毛。叶多数, 沿茎螺旋状排列, 基生叶及下部茎叶长椭圆形, 大, 长4.5—8cm, 宽1.6—3.5cm, 倒向羽状深裂或几倒向羽状全裂, 顶裂片小, 披针形或宽线形, 侧裂片7—9对, 不等大三角形、镰刀形、长椭圆形或三角状镰刀形; 上部叶与基生叶及下部茎叶同形并等样分裂, 但较小。叶两面无毛。头状花序多数, 花序梗长0.8—1.5cm, 沿茎排列成长5—13cm, 直径4.5cm的圆柱状聚伞花序。总苞狭圆柱状, 直径5mm; 总苞片2层, 外层2枚, 狭线形, 长约1cm, 宽0.5mm, 被黄色长硬毛, 内层4枚, 椭圆形, 长9mm, 宽2mm, 顶端钝, 边缘白色膜质, 外面被黄色长硬毛。小花4枚, 舌状, 黄色, 舌片长1.1cm, 宽3mm, 顶端5齿, 管长5mm。瘦果近纺锤形, 微压扁, 平凸状, 顶端截形, 无喙, 长5mm, 有20条不等形的纵肋。冠毛刚毛不等长, 长9—11mm, 细锯齿状, 基部不连合成环。

7. 黄花绢毛菊 新种

Soroseris chrysocephala Shih, sp. nov. — *S. glamerata* auct. non (C. B. Clarke) Steb.: 西藏植物志 4:940, 1985, p.p.

Herba perennis, rosulans, 3—5cm alta. Radix tenuis, verticalis, 2mm. diam. Caulis brevissimus vel fere nullus. Folia orbiculariformia vel suborbiculariformia, 3—8mm longa, 3—7mm lata, basi truncata vel subtruncata, apice obtusa vel acuta vel rotundata, margine obtuse dentata, utrinque subglabra vel plus minusve pubescentia, petiolis 1.1cm longis. Calathidia homogama, 5-flora, pauca vel numerosa in foliorum rosula in glomerulum 2cm diam. dense aggregata. Involucrum anguste cylindricum, 3mm diam.; phylla 1-seriata, 5 in numero, subaequilonga, anguste elliptica, 1.1cm longa, 3.5mm lata, apice rotundata, subtus superne pubescentia, inferna ad costam paullo hirsuta vel hirsutietibus nullis. Flosculi ligulati, flavi, ligulis 8.5mm longis, 2mm lati. Styli rami plano-convexi, apice obtusissimi. Achaenia obovoidea, compressa, 1 vel 2 tenuiter costulatis. Pappi setae 3-seriatae, aequilongae, 7mm longae minute remote serrulatae, in annulum non concretae.

Xizang (西藏): Qamdo (昌都), alt. 4100m, 1976. 08. 10, Qinghai-Xizang Exped. (青藏队) 76-12772 (Typus, PE).

多年生莲座状草本, 高3—5cm。根细, 垂直直伸, 直径2mm。茎极短或几无茎。叶圆形或几圆形, 长3—8mm, 宽3—7mm, 基部截形或近截形, 顶端钝或急尖或圆形, 边缘有锯齿, 两面几无毛或多少柔毛, 叶柄长1.1cm。头状花序同型, 含5小花, 少数或多数在莲座状叶丛中密集成直径2cm的团伞花序。总苞狭圆柱状, 直径