

superne paniculato-ramosus, ramis crassiusculis, pilis multicellularibus noduliformibus capitellatis tenuibus sparsim vel densius obtectis. Folia inferiora mediaque lyrato-pinnatisecta, alato-petiolata, petiolis 5—10 cm longis, petiolis basi ampliatis, lobis terminalibus ovato-hastatis, ad 9 cm longis, ad 6 cm latis, apice acutis, lobis lateralibus 2-jugis, ellipticis, basi late confluentibus, apice acutis; folia superiora inferioribus mediisque similia vel indivisa, breviter petiolata, petiolis basi auriculato-semiamplexicaulibus, lobis terminalibus longe ellipticis vel ovato-triangularibus; folia sub et in inflorescentia lanceolata vel longe lineari-elliptica, longe lineari-lanceolata; omnia margine dentata vel denticulata, utrinque ad nervos furfuraceo-strigosa. Calathidia numerosa, in inflorescentiam corymboso-paniculatam vel paniculatam disposita. Involucrum late campanulatum, 2 cm longum, 1 cm in diam., involucri phyllis 5-seriatis, exterioribus triangularibus vel lanceolatis, 5—8 mm longis, 2—3 mm latis, mediis lanceolatis, 1—1.4 cm longis, 2—3 mm latis, interioribus ad 2.1 cm longis, 1 mm latis, omnibus apice acutis, ad lineas medias albido-plano-setosis. Flosculi ligulati 40 vel ultra, purpureo-rosei, ligulis apice 5-fidis. Achaenia oblanceolata, 5 mm longa, 2 mm lata, compressa, atro-brunnea, margine late crassa vel tenuia, utrinque costulata, facie costulis 3, elevatis, distantibus, utrinque pilis pellucidis in series transversas leviter undulatas dispositis, superne ad costulas et margines longioribus, sursum directis, inter costas et pro parte inferiore ad margines brevissimis obtecta, apice in rostrum albidum attenuata. Pappi setae exteriores e pilis brevissimis, paucis efformantes; pappi setae interiores e pilis longissimis, numerosis, minute denticulatis gracilibus 7 mm longis formantes.

Xizang (西藏): Gyaca (加查), in sylvis ad declivium, alt. 3300—3500 m, 1972.09.01., Xizang Exped. Pl. Med. (西藏中草药队) 72-4567, 72-4388; Cona (措那), ad marginem sylvae, Qinhai-xizang Exped. (青藏队) 75-1899; Nyalam (聂拉木), in frutice, alt. 3300 m, 1972.08.29., Xizang Exped. Pl. Med. (西藏中草药队) 1607 (Typus, PE); loco dicto (同地), in pratis declivii, alt. 3900 m, 1981.09.08., Zh. Ch. Ni (倪志诚) 2091.

10. 大头叶毛鳞菊 新种

Chaetoseris lyriformis Shih, sp. nov.

—*Cicerbita cyanea* auct. non (D. Don) Beauverd: 西藏植物志 4: 953, 1985.p.p.

A *Ch. hastiformis* Shih differt ad inflorescentiam pilis multicellularibus noduliformibus tenuibus inconspicuis.

Herba perennis, radice palari, obconica, 1.5 cm in diam. Caulis erectus, 1 m altus, superne anguste paniculato-ramosus, ramis omnino pilis multicellularibus noduliformibus capitellatis obtectis. Folia inferiora mediaque lyrato-pinnatisecta, petiolata, petiolis exalatis, 3—7 cm longis, lobis terminalibus late triangularibus hastatis, ovatis, triangularibus, 6—8 cm longis, 4.5—6 cm latis, apice acutis vel acuminatis, lobis

lateralibus 1—2-jugis, ellipticis, basi late confluentibus, apice acutis vel obtusis; folia superiora inferioribus mediisque similia, sed minora; folia sub furcis ramorum inflorescentiae indivisa, linearia, lineari-lanceolata vel elliptica, sessilia; omnia utrinque viridia, ad nervos pilis furfuraceo-strigosis oblecta, margine apiculato-denticulata. Calathidia numerosa vel pauca, in inflorescentiam paniculatam terminalem disposita, pedicellis gracilibus. Involucrum campanulatum, 1.5 cm longum; 5—7 mm diam., involucri phyllis 4—seriatis, imbricatis, exterioribus triangulatis, 3.5—6 mm longis, 1.5—2 mm latis, mediis lanceolatis vel anguste ellipticis, 1.2 cm longis, 2—3 mm latis, interioribus late linearibus 1.4 cm longis, 1 mm latis, omnibus apice acutis vel obtusis, dorso ad lineam mediam plano-squamoso-setosis. Flosculi ligulati 23, purpurei vel purpureo-rosei. Achaenia elliptica, 5 mm longa, 1.8 mm lata, atro-brunnea, compressa, margine late crassa, costulata, facie costulis 3, elevatis, interse distantibus, utrinque pilis pellucidis in series transversas undulatas dispositis, ad costulas et margines longioribus, sursum directis, inter costas et pro parte inferiore ad margines brevissimis oblecta, apice in rostrum albidum 3 mm longum attenuata. pappi setae exteriores e pilis paucis brevissimis efformantes; pappi setae interiores e pilis numerosis longissimis, minute denticulatis, fragilibus, 7 mm longis efformantes; omnes albae.

Sichuan (四川): Muli (木里), ad marginem sylvae, alt. 3200 m, 1937.09.07., T. T. Yu (俞德浚) 14393; Anning (安宁), prope aquam, 1958.08.24., X. Li (李馨) 78448. **Yunnan** (云南): Yangbi (漾濞), prope aquam, 1940.11.04., R. C. Ching (秦仁昌) 25479; Zhongdian (中甸), in sylva, alt. 3100 m, 1960.08.24., Exped. Zhongdian (中甸队) 1126. **Xizang** (西藏): Bomi (波密), in cultis, alt. 3500 m, 1965.09.05., T. Sh. Yin et Hong. D.—Y. (应俊生和洪德元) 1123 (Typus, PE); Nyingchi (林芝), 1975.09.16., Qinghai-Xizang Exped. Scien. (青藏科学考查) 7889.

11. 粗毛鳞菊 新种 图 1:8

Chaetoseris hispida Shih, sp. nov.

Herba perennis, radice palari. Caulis erectus, 1—2 m altus, basi 1 cm diam., superne paniculato-ramosus, ad inflorescentiam pilis multicellularibus noduliformibus capitellatis dense oblectus. Folia inferiora et mediaeque lyratopinnatisecta, petiolata, petiolis alatis, ad 10 cm longis, basi leviter ampliatis, non auriculato-semiamplexicaulibus, lobis terminalibus triangulari-hastatis, ovatis vel triangulatis, 5.5—8 cm longis, 4—6 cm latis, apice acutis vel acuminatis, lobis lateralibus 1—jugis, longe ellipticis, 2—6 cm longis, 1—3 cm latis, basi late confluentibus; folia superiora inferioribus mediisque similia, sed minora vel indivisa; folia sub inflorescentia vel sub furcis ramorum inflorescentiae longe ovata, elliptica vel anguste lineari-lanceolata, apice longe acuminata; omnia supra in superficie tota et subtus ad nervos pilis furfuraceo-strigosis tecta, margine mucronulato-denticulata. Calathidia numerosa, in inflorescentiam paniculatam terminalem disposita. Involucrum longe ovoideum, 1.6 cm