

erostrata. Pappus albus, 7 mm longus.

Qinghai (青海): Da Qaidam (大柴达木), Da Qaidam Lake (大柴达木湖), ad lacum, alt. 3100 m, 1959-07-16, Gansu-Qinghai Exped. (甘青队) 334 (Typus, PE); Xiao Qaidam Lake (小柴达木湖), in palude, alt. 3160 m, 1959-07-15, Gansu-Qinghai Exped. (甘青队) 274; Mahai (马海), id. 211; Leng Hu (冷湖), ad lacum, alt 2790 m, id. 542; Xiao Qaidam Lake (小柴达木湖), alt. 3160 m, id. 295; Golmud (格尔木), in palude, id. 500; Qaidam Basin (柴达木盆地), alt. 2880 m, Qaidam Exped. (柴达木调查队) 108.

10 长苞还阳参 新种 图 4:2

Crepis pseudonaniforma Shih, sp. nov.

Ex affinitate *C. naniformae* Babcock., e qua bene differt foliis ellipticis vel oblanceolatis.

Herba perennis, radice elongata, pauce brunneo-gemmata. Caulis solitarius, 17 cm altus, basi reliquiis petiolorum veterum brunneis. Folia inferiora mediaque petiolis inclusis 5—9 cm longa, 5—11 mm lata, elliptica vel oblanceolata, apice rotundata, mucronulata vel non mucronulata, margine raro dentata, in petiolos 3—5.5 cm longos cuneato-angustata; folia superiora et ea ad furcas ramorum inflorescentiae linearia vel oblanceolata, basi cuneata, sessilia vel fere sessilia, margine integra vel fere integra; folia in pedunculis minima, subulata, bracteiformia; omnia utrinque glabra. Calathidia 8—12 in numero, ad apicem ramorum et caulis inflorescentiam corymbosam formantia. Flosculi ligulati, 11 in numero, flavi, tubis glabris. Involucrum anguste cylindricum, 1.1 cm longum, cujus phyllis 4-seriatis, extremis externisque longe ovatis vel lanceolatis, 1.2—2 mm longis, 1 mm latis, apice acutis, intimis internisque anguste lineari-ellipticis, 1.1 cm longis, 1 mm latis, apice acutis vel obtusis, margine albo-membranaceis, intus glabris, omnibus extus glabris. Achaenia brunnea, fusiformia, 6 mm longa, costis 9, non spinulosis. Pappus albus, gracilis, 7 mm longus.

Xinjiang (新疆): Zhaosu (昭苏), 1957-08-14, K. C. Kuan (关克俭) 3501 (Typus, PE).

11 天山还阳参 新种 图 5

Crepis tianshanica Shih, sp. nov.

Ex affinitate *C. flexuosae* (Ledeb.) Turcz., e ea differt involucris campanulatis, cujus phyllis extus albo-sericeis.

Herba perennis parva, radice gracili, pauce gemmata. Caulis erectus 3—5 cm altus, sparsim vel superne densius pubescens. Folia lyrato-vel fere lyrato-pinnatisecta, -pinnatipartita, ambitu lanceolata, utrinque sparsim pubescentia vel non pubescentia, petiolis pubescentibus vel non pubescentibus inclusis 2.5—4 cm longa, 0.5—0.8 cm lata, lobis lateralibus 3—4-jugis, oppositis, alternatis vel obliquis, ellipticis vel triangularibus vel rhomboideis vel irregulariter rhombideis, apice acutis, rotundatis vel obtusis, margine integris sed eis inferioribus minoribus dentiformibus; lobis terminalibus ellipticis, ovatis, hastatis vel saggitatis,

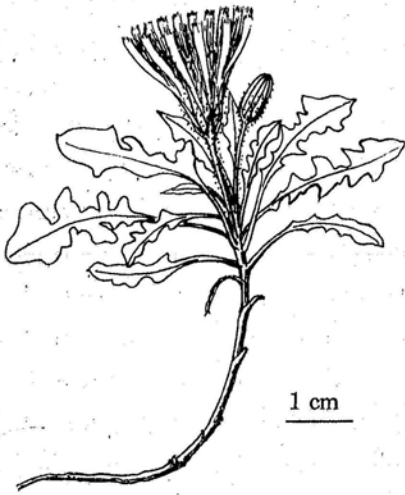


图5 天山还阳参。(蔡淑琴绘)
Fig. 5 *Crepis tianshanica* Shih.

apice acutis vel obtusis. Calathidia majora, 2 in numero, cymoso-disposita. Involucrum campanulatum, 1.2 cm longum, nigrum, cujus phyllis 4-seriatis, extremis exterisque brevibus vel brevioribus, longe elliptico-lanceolatis, usque ad 7 mm longis, 1.2 mm latis, apice acutis, internis intimisque lanceolatis vel longe elliptico-lanceolatis, 1.2 cm longis, 2.5 mm latis, intus glabris, omnibus extus sparsim albo-sericeis, secus costas medias nigro-multicellulari-hirsutis. Flosculi numerosi, flavi, ligulati. Achaenia immatura. Pappus albus.

Xinjiang (新疆): Tianshan Mt. (天山), Daniu He (大牛河), in declivitate, alt.

2600 m, 1947-07-23, K. C. Kuan (关克俭) 2212 (Typus, PE).

12 全叶还阳参 新种 图 3:2:

***Crepis integrifolia* Shih, sp. nov.**

Herba perennis, rhizomate prostrato. Caulis erectus, solitarius, superne corymbosoramosus, infra medium glaber, superne et sub calathidiis glandulis capitatis stipitatis obtectus. Folia basalia minora, lanceolata (?), longe petiolata; folia media inferioraque lanceolata vel oblanceolata, 3.5—5 cm longa, 1—2 cm lata, apice rotundata vel acuta, mucronulata, sessilia, basi auriculato-amplexicaulia, margine integra vel subintegra; folia superiora minora, lanceolata; ea ad furcas ramorum inflorescentiae minima, subulata; omnia utrinque glabra. Calathidia 3—4 in numero, ad apicem caulis et ramorum inflorescentiam corymbosam formantia. Involucrum campanulatum, 1 cm longum, cujus phyllis 3—4-seriatis, extremis externisque lanceolatis 3 mm longis, 0.8 mm latis, intimis externisque longe lanceolatis, longe elliptico-lanceolatis, usque ad 1 cm longis, 1 mm latis, intus glabris, omnibus apice acutis, extus nigro-viridibus, secus costas medias glandulis capitatis stipitatis nigris. Flosculi numerosi, flavi, ligulati, tubis pubescentibus. Achaenia fusiformia 5 mm longa, apice truncata, erostrata, costis 15 aequalibus. pappus albus, 6 mm longus.

Xinjiang (新疆): Alta Prefecture (阿勒太地区), Karamayin (克拉玛因) alt. 1370 m, 1987-08-20, K. Y. Lang et F. Konta (郎楷永与近田文弘) 159 (Typus, PE).

13 峨眉厚喙菊 新种

***Dubyaea emeiensis* Shih, sp. nov.**

Herba perennis, rhizomate crasso, radices graciles edente. Caulis erectus, solitarius, 13 cm latus, infra medium purpureus, glaber, supra medium vel superne pallide viridis, dense