

**d. var. lamii** (Mattfeld) Koster, *nov. comb.*

*Lactuca lamii* Mattfeld, Nova Guinea 14, Bot. (1929) 530, pl. 91, fig. D; Bot. Jahrb. 62 (1929) 449. — *Ixeris lamii* Stebbins, J. Bot. 75 (1937) 50.

Short herb, 12 cm tall. Basal leaves subsessile (described by Mattfeld as petiolate), linear-lanceolate, tapering to the 1 mm broad base, entire, 3–7 cm long, 3–4 mm broad, cauline leaves wanting. Head solitary (or 2, acc. to Mattfeld, *l.c.*), peduncle 2 mm long, outer phyllaries somewhat remote.

Distribution: New Guinea.

NEW GUINEA. West. Mt. Doorman, region of Mamberamo R., 1940, *Lam 1700* (BO, type).

Collectors' annotations: stem brownish-purple, leaves glossy, scape reddish-purple, outer phyllaries dark greenish-purple, corolla yellow.

Ecological notes: in open, more or less plain peat. Altitude 3260 m.

**e. var. exciso-dentata** Koster, *var. nov.* — Fig. 1 f.

Folia exciso-dentata, dentibus subtriangularis, mucrone brevi et tenui ornatis.

Typus: *van Royen & Sleumer 8042* (L).

Distribution: Flores, the Philippines, New Guinea.

NEW GUINEA. West. Vogelkop Peninsula: Nettoti Range, Wekari R. camp, common, 1961, *van Royen & Sleumer 8042* (L, type). — East. Eastern Highlands Dist.: Goroka Subdist., near Yontegi village, between Dunantina R. and Karmanuntiga R., fairly common, 1956, *Hoogland & Pullen 5313* (LAE). — Southern Highlands Dist.: between Kendakl and Yombi, c. 6 miles north of Ialibu patrol post, 1961, *Pullen 2734* (CANB).

Collectors' annotations: white latex, leaves light green, corolla yellow.

Ecological notes: in tall grassland on hillside, on small rise in recently burnt grass-sedge bog, on stones along river. Altitude 1550–2010 m.

**3. Lactuca subacaulis** Koster, *spec. nov.* — Fig. 1a–e.

Herba nana, brevissima, 1–2.5 cm alta, rhizoma saepe bifurcatum, crasciusculum (3–4 mm crassum), radicibus multis crassiusculis. Folia rosulata, densa, sessilia, linearia, raro spathulato-linearia, ad basin dilatata, nervis parallelibus prominentibus subtus, ad apicem subobtusata, integra, crassiuscula, utrinque sparse et minute glandulosa, 7–20 mm longa, 1–1.5 mm lata. Capitulum solitarium, subacaulis; involucrium cylindricum, 6–7 mm longum, squamis glabris, interioribus subaequalibus, lineari-lanceolatis, subacutis, marginibus albidis, exterioribus minoribus imbricatis, lanceolatis, acutis; flores in capitulo circa 10, corolla ligulata, apice 5-dentata, dentibus subacutis, 6–11 mm longa, antherae ad basin sagittatae, caudatae, caudis tenuibus, ad apicem subobtusatae, styli rami lineares, obtusi, achenium anguste oblongo-lageniforme, ad apicem gradatim attenuatum, costatum, glabrum, ferrugineum, 3.5 mm longum, pappo 4.5 mm longo, sordido; receptaculum parvum, planum, nudum.

Typus: *Smith ANU 15129* (L).

Distribution: New Guinea.

NEW GUINEA. East. Eastern Highlands Dist.: Mt. Wilhelm, Pindaunde Valley, saddle camp, 1971, *Smith ANU 15129* (L, type); id. peak, common, 1956, *Hoogland & Pullen 5786* (CANB, L, LAE); id., ½ mile past Wilhelm trig. point, 1966, *McVean & Wade ANU 7233* (L); id., east slopes, close to track below Wilhelm summit, 1965, *Walker ANU 5246* (L); id., 1960, *Borgmann 97* (L).

Collectors' annotations: usually growing in groups or forming cushions, white latex, corolla yellow.

Ecological notes: in rocky crevices, on fine gravel between rocks, rockshelf with bays of vegetation, beside frost-heaved areas of gravel, on bare soil by track, dry tundra vegetation. Altitude 4200—4400 m.

#### DUBIOUS SPECIES

*Lactuca microsperma* K. Schum. in Schumann & Lauterbach, Fl. Deutsch. Schutzgeb. Südsee, Nachtr. (1905) 403, was brought to the synonymy of *Crepis japonica* (L.) Benth. by Mattfeld (Bot. Jahrb. 62, 1929: 450). The type was not seen by the present author, since it is destroyed now.

*Lactuca umbellata* Mattfeld, Bot. Jahrb. 62 (1929) 449, 500. — *Ixeris umbellata* Stebbins, J. Bot. 75 (1937) 51. The type is destroyed. Mattfeld identified the specimen collected by MacGregor on Mt. Knutsford and named *Taraxacum officinale* G. H. Weber by F. von Müller, as *L. umbellata*. This specimen was identified by the present author as *L. laevigata* (Bl.) DC. var. *pusilla* (Mattfeld) Koster.

*Taraxacum officinale* G. H. Weber (F. von Müller, Transact. Roy. Soc. Victoria 1, 2, 1889: 15) was recorded from Mt. Knutsford, coll. MacGregor *s.n.* This specimen was identified by Mattfeld as *Lactuca umbellata* Mattfeld and by the present author as *Lactuca laevigata* (Bl.) DC. var. *pusilla* (Mattfeld) Koster.

*Hieracium* spec. (Mattfeld, Bot. Jahrb. 62, 1929: 451) recorded from Mt. Scratchley, coll. Gulianetti *s.n.*, is identified by the present author as *Lactuca laevigata* (Bl.) DC. var. *pusilla* (Mattfeld) Koster.

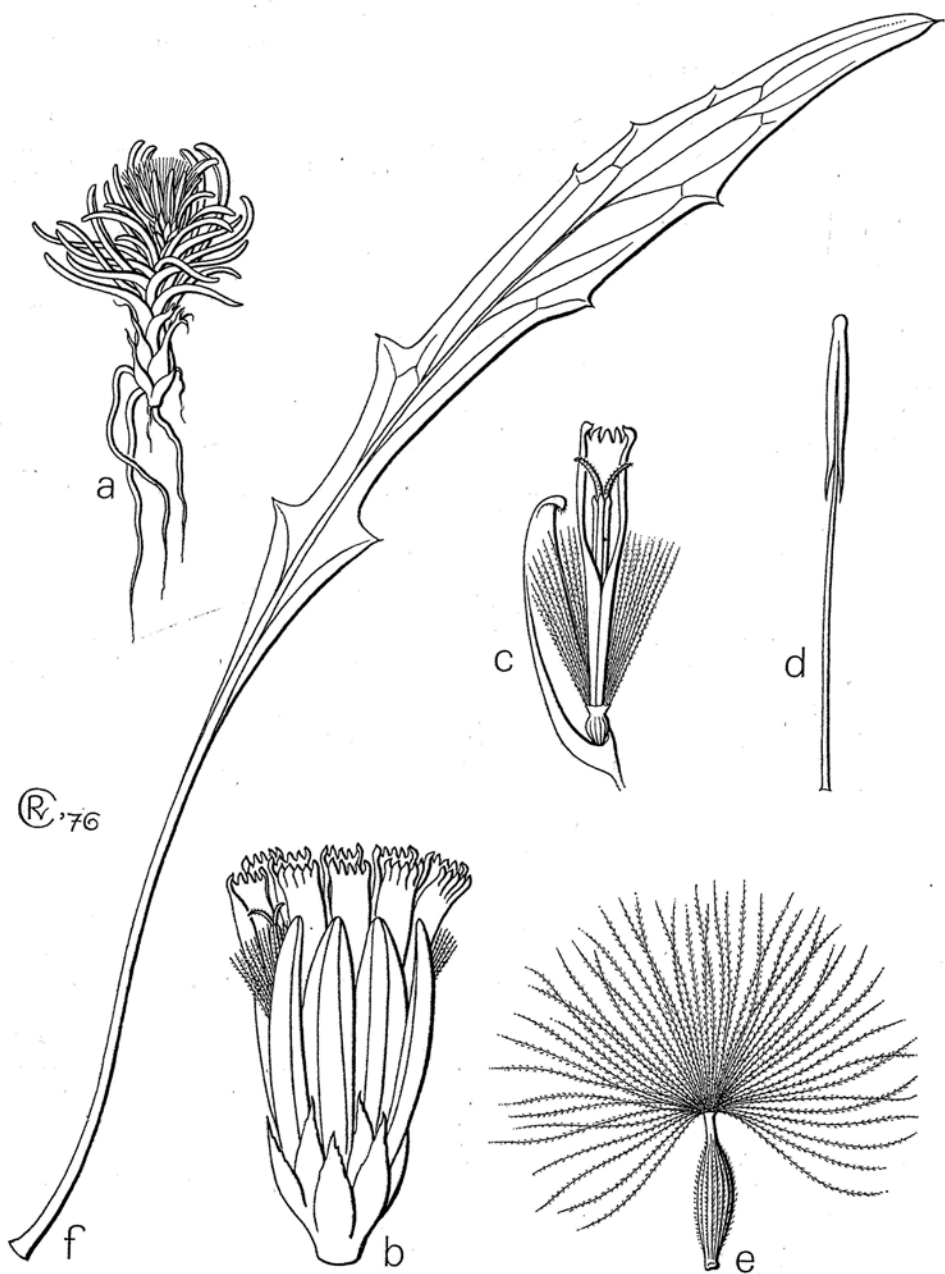


Fig. 1. *Lactuca subacaulis*. a. Habit,  $\times 1\frac{1}{3}$ ; b. head,  $\times 6\frac{1}{2}$ ; c. flower,  $\times 6\frac{1}{2}$ ; d. anther,  $\times 13\frac{1}{2}$ ; e. achene,  $\times 6\frac{1}{2}$ . — *Lactuca laevigata* var. *exciso-dentata*. f. Leaf,  $\times 1\frac{1}{3}$ . (a—c, e from Smith ANU 15129; d. from Hoogland & Pullen 5786; f. from van Royen & Sleumer 8042).