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A new species of *Inula* L. (Compositae-Inuleae) from Kashmir

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RÉSUMÉ

DAWAR, R. & M. QAISER (1997). Une espèce nouvelle du genre *Inula* L. (Compositae-Inuleae) décrite du Cachemire. *Candollea* 52: 281-285. En anglais, résumés français et anglais.

Inula koelzii Dawar & Qaiser, nouvelle espèce du Cachemire, est décrite et illustrée.

ABSTRACT

DAWAR, R. & M. QAISER (1997). A new species of the genus *Inula* L. (Compositae-Inuleae) from Kashmir. *Candollea* 52: 281-285. In English, French and English abstracts.

Inula koelzii Dawar & Qaiser, new species from Kashmir, is described and illustrated.

KEY-WORDS: COMPOSITAE – *Inula* – Taxonomy – Kashmir.

During the generic revision of *Inula* L. from Pakistan and Kashmir, it was noted that STEWART (1972, p. 753), raising *Inula obtusifolia* var. *clarkei* Hook. f. to specific level, recognized *Inula clarkei* (Hook. f.) R. R. Stewart and treated *I. karakorensis* Clarke Mss. as the synonym of his new species. He has also cited several specimens under *I. clarkei*. The present authors had an opportunity to study most of the specimens and a careful examination of these specimens (viz. Baltistan: Ashkoley, Clarke 30418; Braldo river, Hans Hartmann s.n.; Dras valley, Duthie 13694; Ladakh: Kangi Nullah, Koelz 2818, Koelz 2827a; Zaskar: Rangdum, Koelz 2900a, Koelz 2900b) clearly indicated that it was a mixture and belonged to three different taxa. Some of the specimens, viz. Baltistan: Ashkoley, Clarke 30418 (BM!); Braldo river, Hans Hartmann s.n. (RAW!) belong to true *Inula clarkei*. They are characterized by the presence of 2-3 mm long, dense sericeous cypsellae, lower leaves sessile (shortly attenuate), stem and lower surface of leaves tomentose, outer involucre bracts densely pubescent, 8-14 mm long and uniseriate pappus bristles. While Duthie 13694 (BM!, E!) and Koelz 2900b (NY!) could not be placed within *I. clarkei*, as in these specimens stem and leaves are papillate-glandular and pilose with 4-6 mm long outer involucre bracts which are scarcely pubescent and glandular. Thus these specimens belong to *Inula obtusifolia* Kern. However, in the remaining three specimens: Koelz 2818, Koelz 2900a (RAW!, NY!) and Koelz 2827a (NY!), the lower leaves are long winged petiolate, cypsellae glabrous, 3-4 mm long and pappus with biseriate bristles. Therefore, these specimens do not correspond with *I. clarkei* or any other known species of *Inula* L. In order to accommodate them a new species is described here.

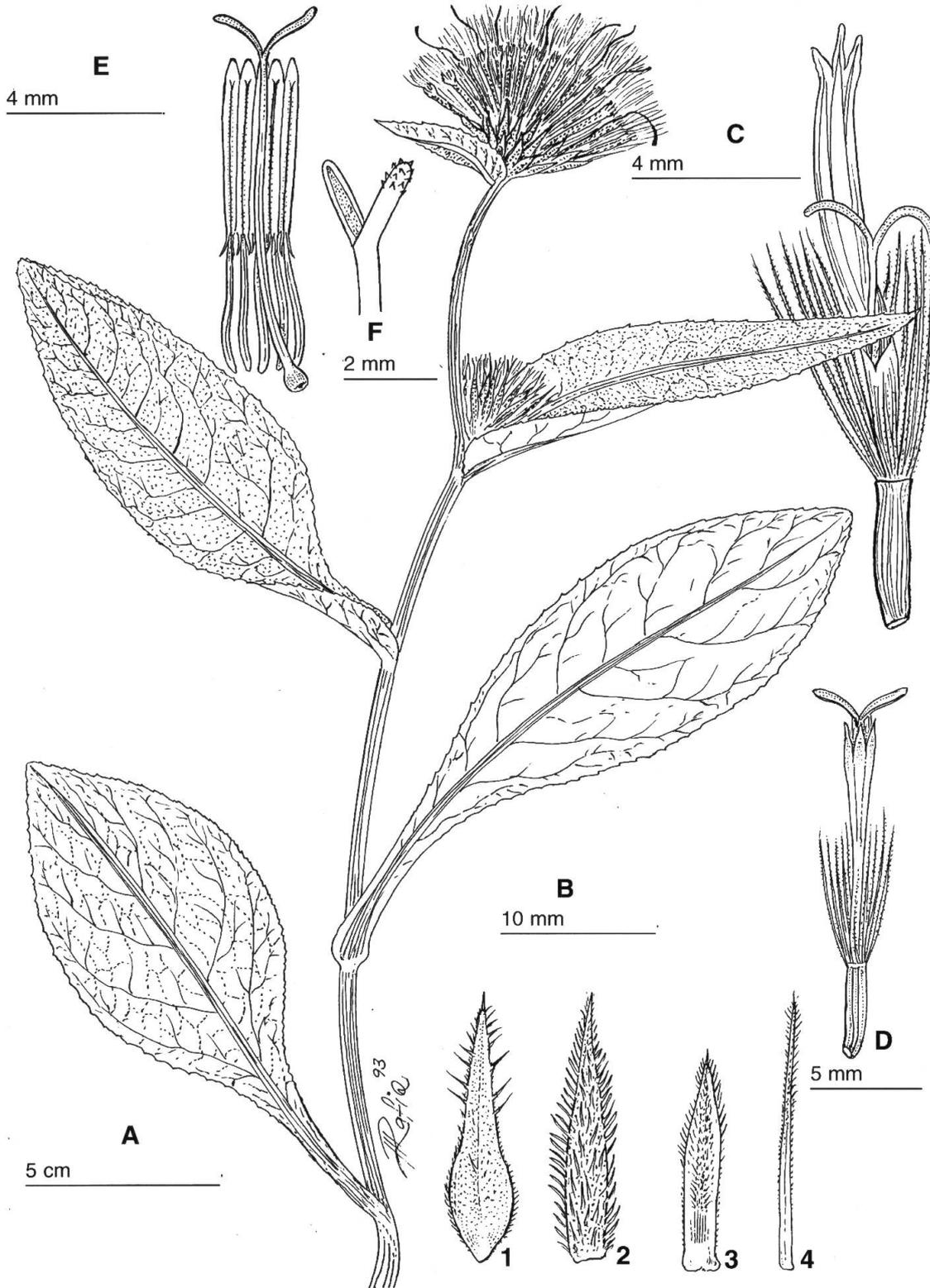


Fig. 1. – *Inula koelzii* Dawar & Qaiser: A, habit; B, involucre bracts (outer to inner); C, ray floret; D, disc floret; E, stamens, stigma & style; F, style showing stigmatic area and distribution of acute sweeping hairs.

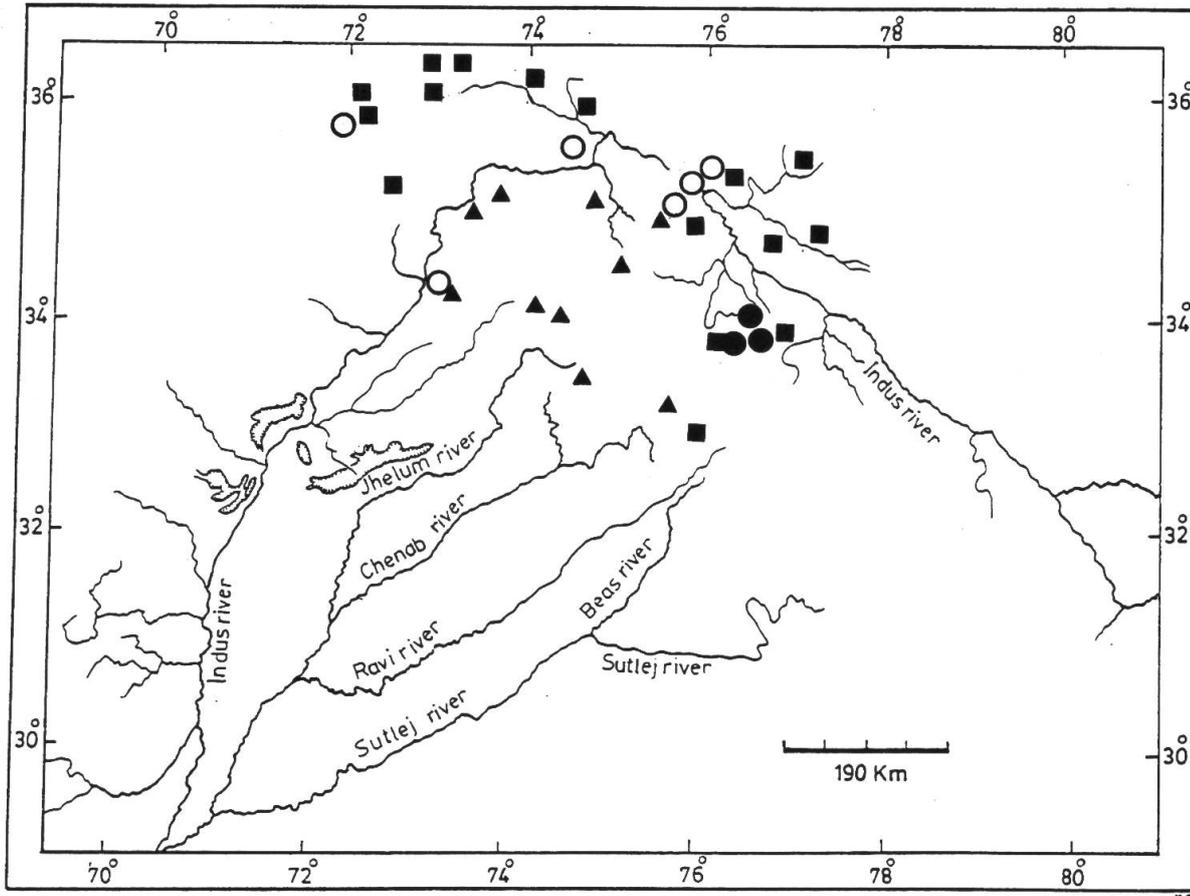


Fig. 2. – Map showing the distribution of *Inula koelzii* Dawar & Qaiser (●); *I. clarkei* (Hook. f.) R. R. Stewart (○); *I. obtusifolia* Kern. (■) and *I. royleana* DC. (▲) in Pakistan and Kashmir.

***Inula koelzii* Dawar & Qaiser, spec. nova (Fig. 1).**

Herba 23-24 cm alta, laxe hirsuta et ± papilloso-glandulosa. Folia elliptica, marginibus serrato-glandulosis, superiora sessilia semiamplexicaulia basi auriculato apice acuminata acuta, inferiora longe petiolata obtuse acuta 11-15 × 3-5 cm. Capitula axillaria solitaria vel terminalia solitaria, 2-5 cm diametro. Involucrum 1.8-2.0 cm longum; bracteae 4-seriatae imbricatae, exteriores foliosae lanceolatae vel oblanceolatae acuminatae hirsutae, 18 × 3 mm, interiores membranaceae angustiores dorsaliter glandulosae marginibus puberulis. Cypsellae 3-4 mm longa oblonga quadrangularia glabra. Pappus aureus biseriatus basaliter connatus pilis numero 30-52, 5 mm longis.

Herb, 23-24 cm tall, lax hirsute and ± papillate-glandular. Leaves elliptic, margins serrate-glandular; upper sessile semiamplexicaul, base auricled, apex acuminate-acute; lower long petiole, obtuse-acute, 11-15 × 3-5 cm. Capitula axillary solitary or solitary terminal, 2-5 cm in diameter. Involucre 1.8-2.0 cm long, bracts 4-seriate, imbricate, outer leafy, lanceolate or oblanceolate, acuminate, hirsute, 18 × 3 mm, inner membranous, narrower, dorsally glandular with puberulous margins. Cypsellae 3-4 mm long, oblong, quadrangular, glabrous. Pappus golden yellow, biseriata, basally connate, 30-52 in number, 5 mm long.

Type: Kashmir: Kanga Nulla, below Kangi, Ladakh, in river beds, alt. 12,500', Sept. 5, 1931, Koelz 2818 (Holo- RAW!; Iso- NY!).

Paratypes: **Kashmir**: Kanga Nulla, above Kangi, Ladakh, alt. 13.000', Sept. 6, 1931, *Koelz 2827a* (NY!); Rangdam, Zanskar, on semi-arid slope, alt. 11.000', Sept. 12, 1931, *Koelz 2900a* (KUH!; NY!).

Etymology. – This species is named after the collector, *Dr. Walter Norman Koelz*, who has collected all the specimens known of this species.

Distribution. – Known from Ladakh (Kashmir) only (Fig. 2).

Ecology. – Grows on the semi-arid slopes and river beds at an altitude from 11.000-13.000'.

Fl. Per. – September.

Inula koelzii Dawar & Qaiser is closely related to *Inula royleana* DC. in having semiamplexicaul upper and long petiolate lower leaves; 1 or 2 capitula per plant; 3-4 mm long, glabrous and oblong cypsellae. But it differs from *I. royleana* by having capitula upto 5 cm in diameter; outer involucre bracts lanceolate or oblanceolate, upto 3 mm wide and biseriate pappus bristles. Whereas, in *I. royleana* the capitula are 6-10 cm in diameter; outer involucre bracts ovate-obovate, 5-10 mm wide and pappus bristles uniseriate. On the other hand the new species also relates with *I. clarkei* (Hook. f.) R. R. Stewart and *I. obtusifolia* Kern. by having solitary terminal capitulum, which is 2-5 cm in diameter. Outer involucre bracts lanceolate or oblanceolate, upto 3 mm wide and oblong cypsellae. But it clearly differs from both species by having long petiolate lower leaves, 3-4 mm long and glabrous cypsellae and biseriate pappus bristles. While in *I. clarkei* and *I. obtusifolia* lower leaves are sessile (shortly attenuate), cypsellae 2-3 mm long and villous-dense sericeous and pappus with uniseriate bristles.

A synoptic key is given below for all the four related species.

1. Lower leaves long winged petiolate. Cypsellae glabrous, 3-4 mm long 2
- 1a. Lower leaves without winged petiole. Cypsellae villous-dense sericeous, 2-3 mm long . . . 3
2. Outer involucre bracts ovate-obovate, 5-10 mm broad. Pappus bristles uniseriate *I. royleana*
- 2a. Outer involucre bracts lanceolate or oblanceolate, upto 3 mm broad. Pappus bristles biseriate *I. koelzii*
3. Stem and lower surface of leaves tomentose. Outer involucre bracts 8-14 mm long, densely pubescent *I. clarkei*
- 3a. Stem and leaves papillate-glandular and pilose. Outer involucre bracts 4-6 mm long, scarcely pubescent and glandular *I. obtusifolia*

Inula koelzii seems to be confined to Ladakh only, whereas *I. obtusifolia* is widely distributed in Gilgit, Hazara, Ladakh and Kashmir. *I. clarkei*, *I. obtusifolia* and *I. royleana* are sympatric in distribution in most of the regions of Gilgit, Hazara and Kashmir, but *I. clarkei* and *I. royleana* do not reach upto Ladakh. Whereas, *I. obtusifolia* occupies a larger area upto Ladakh, where it is sympatric with *I. koelzii* (Fig. 2).

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