

## Scientific illustrations of *Calendula eckerleinii* and *C. meuselii*

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**Abstract:** Kästner, A. 2024: Scientific illustrations of *Calendula eckerleinii* and *C. meuselii*. *Schlechtendalia* **41**: 60–62.

Complete illustrations (drawings) of *Calendula eckerleinii* and *C. meuselii* have been prepared based on adult plants cultivated in the Botanical Garden of the Martin Luther University, Halle (Saale), Germany. The seed used for the cultivation came from the seed bank of the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany, and originated from off-springs of the original collection. The new complete drawings are meant to be supplements to the incomplete illustrations in the original descriptions.

**Zusammenfassung:** Kästner, A. 2024: Wissenschaftliche Abbildungen von *Calendula eckerleinii* und *C. meuselii*. *Schlechtendalia* **41**: 60–62.

Vollständige Abbildungen (Zeichnungen) von *Calendula eckerleinii* und *C. meuselii* wurden auf Grundlage von adulten, im Botanischen Garten der Martin-Luther-Universität Halle (Saale), Deutschland, kultivierten Pflanzen angefertigt. Die zur Kultivierung genutzten Samen kamen aus der Samenbank des Leibniz-Instituts für Pflanzengenetik und Kulturpflanzenforschung (IPK) in Gatersleben, Deutschland, und stammten von Nachkommen der originalen Aufsammlung. Die neuen vollständigen Zeichnungen sind gedacht als Ergänzungen zur den eingeschränkten Abbildungen in der Originalpublikation.

**Key words:** *Calendula*, drawings, Ohle.

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Ohle (1975) published a comprehensive treatment of the genus *Calendula*, including the new species *C. eckerleinii* and *C. meuselii*, which are recognised species until now. These species had been dedicated to the famous German botanist H. Meusel (1909–1997) and his former schoolmate and pharmacist H. Eckerlein (Coburg), who provided diverse specimens collected in Morocco (southern foothills of the Rif mountains and north-eastern edge of the High Atlas). Type material of the two species is deposited in the herbarium of the Martin Luther University Halle (HAL 29895, holotype of *C. eckerleinii*; HAL 7206, paratype of *C. meuselii*). Ohle (1975) published detailed descriptions of these species, but the provided illustrations are incomplete, i.e., comprehensive illustrations of the entire plants and particular details are lacking. In 2023, the two *Calendula* species have been cultivated in the Botanical Garden of the Martin Luther University, Halle (Saale), Germany. The used seeds came from the seed bank of the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany, and originated from off-springs of the original collection. The cultivation of *C. eckerleinii* and *C. meuselii* was the reason for the preparation of new comprehensive illustrations (drawings) of these species (figs. 1 and 2), which are meant to be supplements to the incomplete illustrations provided in the original publication.

### Acknowledgements

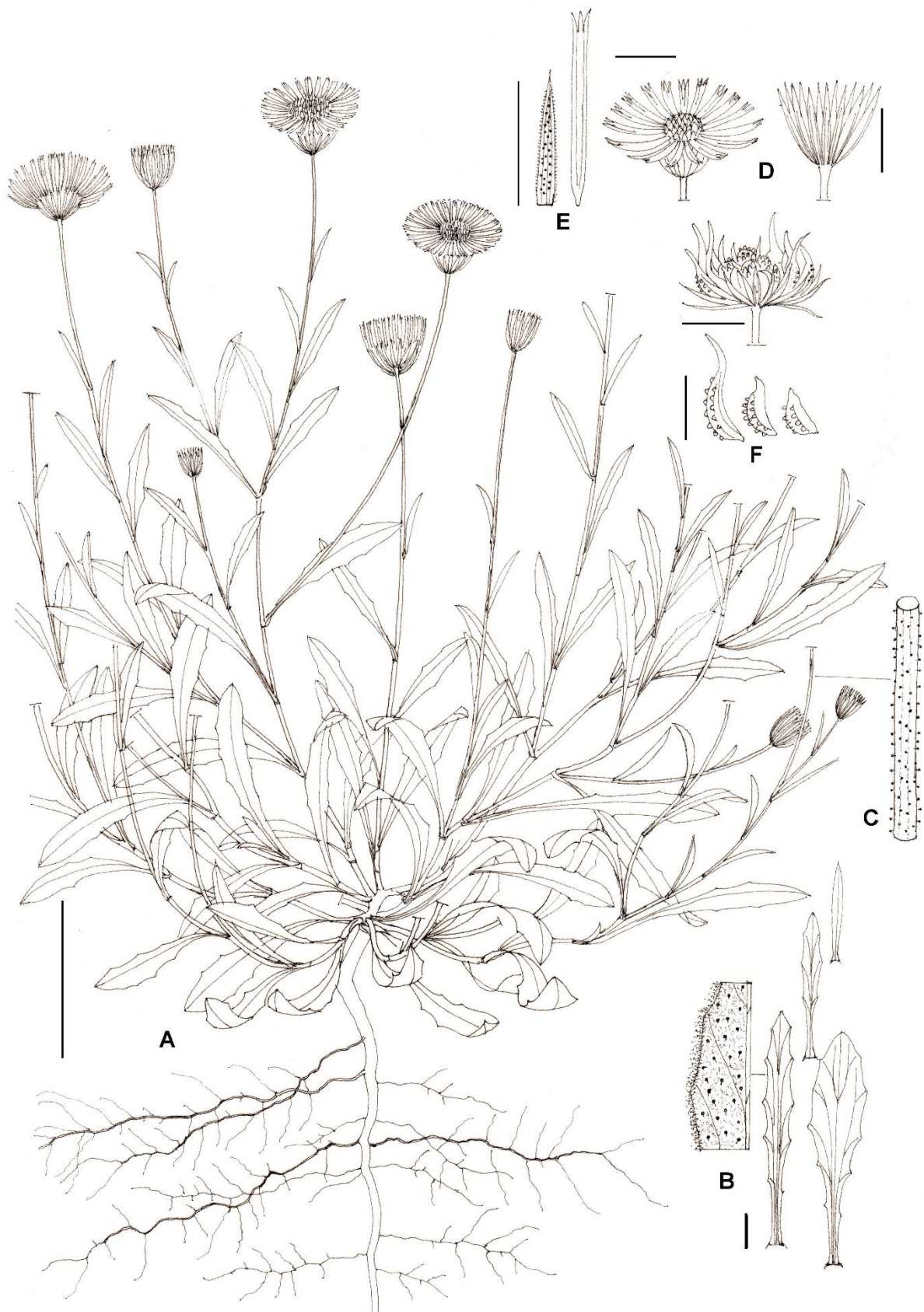
I am much obliged to Alexander Dreißig, Botanical Garden of the Martin Luther University Halle, for the support in the cultivation of *Calendula eckerleinii* and *C. meuselii*.

### Literature

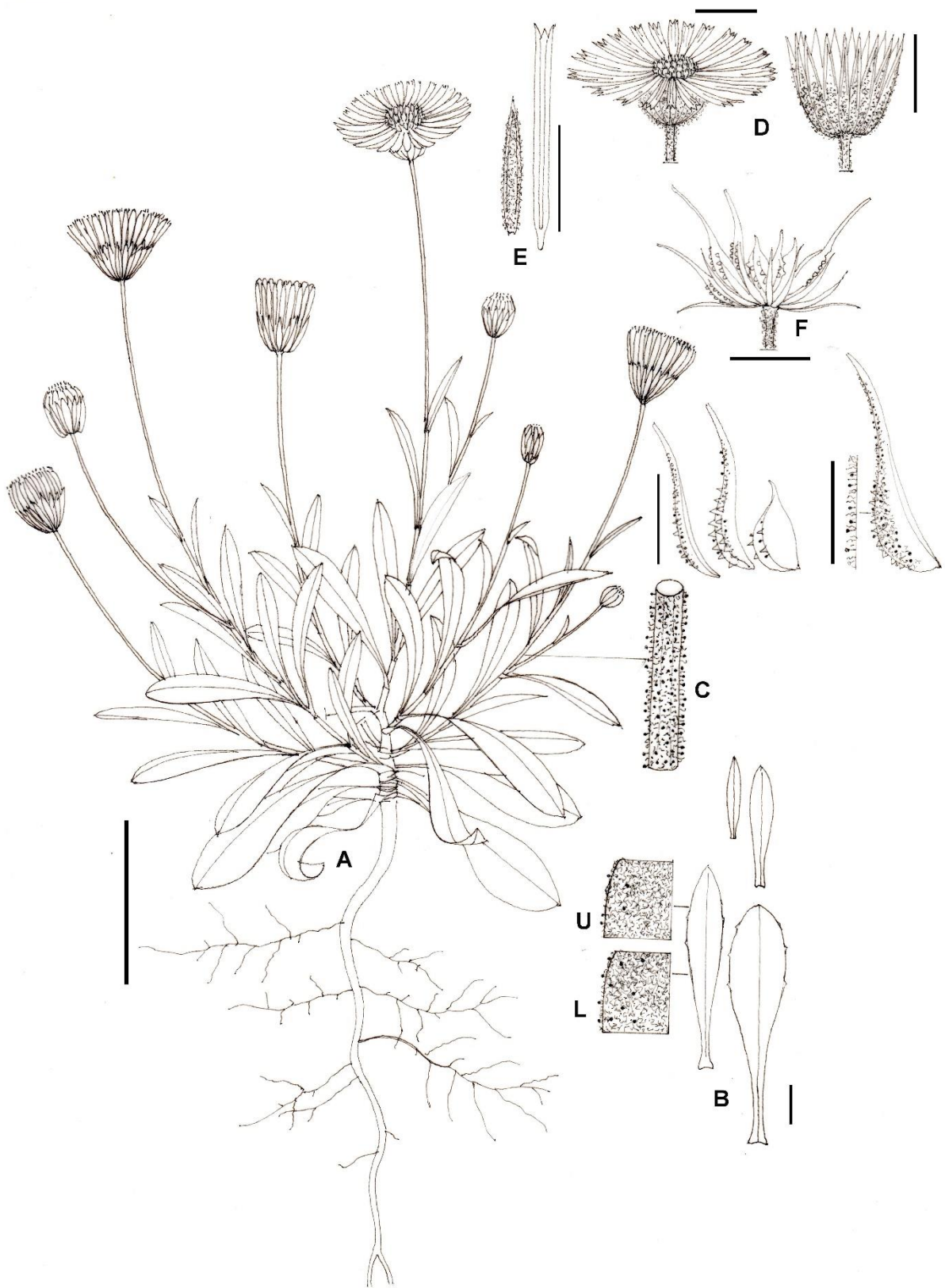
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**Fig. 1.** *Calendula eckerleinii*, drawing based on a plant cultivated in the Botanical Garden of the Martin Luther University, Halle (Saale). A – Entire plant. B – Leaves and leaf surface (on the left). C – Section of a shoot. D – Capituli. E – Outer involucre bract (on the left), ligulate part of a ray flower (on the right). F – Fruits. Scale bars: A – 5 cm; B, D, E, F – 1 cm.  
A. Kästner del.



**Fig. 2.** *Calendula meuselii*, drawing based on a plant cultivated in the Botanical Garden of the Martin Luther University, Halle (Saale). A – Entire plant. B – Leaves and leaf surface (on the left, U = upper leaf surface, L = lower leaf surface). C – Section of a shoot. D – Capituli. E – Outer involucre bract (on the left), ligulate part of a ray flower (on the right). F – Fruits. Scale bars: A: 5 cm; B, D, E, F: 1 cm. A. Kästner del.