

## **Frey'n's type specimens of four Ranunculaceae species from Madagascar**

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SUTORÝ K. 2019: Frey'n's type specimens of four Ranunculaceae from Madagascar. *Acta Musei Moraviae, Scientiae biologicae* **104(1): 81–84**. – Lectotypes are selected for four species described by J. F. Frey'n, namely *Clematis longipes*, *Ranunculus madagascariensis*, *R. rutenbergii* and *R. udus*, based on collections by D. C. Rutenberg from the island of Madagascar.

**Keywords.** *Clematis longipes*, *Ranunculus madagascariensis*, *Ranunculus rutenbergii*, *Ranunculus udus*, Madagascar, types, Diedrich Christian Rutenberg

### **Introduction**

The results of working up the herbaria of the tragically-deceased M.D. Diedrich Christian Rutenberg (11 June 1851 Bremen – 25 August 1878 Beravi, Madagascar) were edited by BUCHENAU (1880). Frey'n, who was managing the family Ranunculaceae, described four taxa as new to science (FREY'N 1880). The corresponding herbarium material, originally in the Deutsches Kolonial- und Übersee-Museum in Bremen, arrived shortly after WWII in the Masaryk University Herbarium in Brno (BRNU). Four specimens of *Ranunculus*, which Frey'n had kept in his private collection, were purchased by the Moravian Museum (BRNM) as part of Frey'n's herbarium in 1906. Two additional specimens are preserved in Paris (P). Further specimens may be dispersed in other herbaria.

Frey'n saw the original material and, after identification, sent it back to Buchenau in Bremen, retaining small parts of some specimens in his private collection. Lectotypes from the more complete herbarium specimens at BRNU and from fragmentary specimens of Frey'n's collection at BRNM have been selected for this contribution. An exception is *Ranunculus rutenbergii* (see note below).

The synonymy of the taxa under discussion is given according to the Madagascar Catalogue.

Herbarium codes follow the online directory by THIERS (continuously updated).

### **Lectotypification**

*Clematis longipes* Frey'n in Abh. Naturwiss. Vereine Bremen 7: 5. 1880.

**Type indication:** "Auf grasigem Berge in der Nähe von Antananarivo, 7. December 1877".

**Lectotype**, probably holotype (designated here): "Auf grasigem Berge. Nähe von Antananarivo. 7. Dcbr 1877", handwritten on preprinted label, BRNU 347773 (Fig. 1).

**Note.** *Clematis longipes* Engler Bot. Jahrb. Syst. 45: 273. 1910, nom. illeg., non *C. longipes* Freyn = *Clematis dolichopoda* Brenan was described on the basis of material from the *Usambara* Mountains of northeastern Tanzania in tropical East Africa.

***Ranunculus madagascariensis* Freyn** in Abh. Naturwiss. Vereine Bremen 7: 7. 1880.

= *Ranunculus pinnatus* subsp. *madagascariensis* (Freyn) H. Perrier in Fl. Madagasc. 76: 5. 1950 = *R. multifidus* Forssk.

**Type indication:** “An einem Graben in der Nähe von Antananarivo, 18. December 1877”.

**Lectotype** (designated here): “An einem Graben, in der Nähe von Antananarivo, 18. Dcbr 1877”, handwritten on preprinted label, BRNU 347775 (Fig. 2). An additional text of the locality on the label has become illegible.

**Isolectotypes:** BRNM 11623/33, P 00064860. <http://coldb.mnhn.fr/catalognumber/mnhn/p/p00064860>

***Ranunculus rutenbergii* Freyn** in Abh. Naturwiss. Vereine Bremen 7: 9. 1880.

= *R. multifidus* Forssk.

**Type indication:** “An einem Graben bei Ambatondrazaka, 24. Nov. 1877 und an einer Waldlichtung ebendort, 27. Nov. 1877”.

**Lectotype** (designated here): “An einem Graben bei Ambatondrazaka, 24. Nov. 1877”, BRNM 11681/33 (Fig. 3).

**Isolectotype:** P 00064851 <http://coldb.mnhn.fr/catalognumber/mnhn/p/p00064851>.

**Residual syntype:** “An einer Waldlichtung zwischen Ambatondrazaka und Antananarivo, 27. Nov. 1877”, Freyn’s handwritten copy of the original label, BRNM 11682/33 (Fig. 3).

**Note.** Material of this species is absent from the BRNU collection; material from Freyn’s herbarium was therefore selected.

***Ranunculus udus* Freyn** in Abh. Naturwiss. Vereine Bremen 7: 10, 1880.

= *Ranunculus multifidus* Forssk.

**Type indication:** “Im Sumpfe bei Antananarivo, 17. Dec. 1877”.

**Lectotype**, probably holotype (designated here): “Im Sumpfe bei Antananarivo, 17 Dcbr 1877”, handwritten on preprinted label, BRNU 347774. An additional text of the locality on the label has become illegible. (Fig. 4).

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Freyn's types of Ranunculaceae from Madagascar



Fig. 1–4. 1 – *Clematis longipes* Freyn, lectotype; 2 – *Ranunculus madagascariensis* Freyn, lectotype; 3 – *R. rutenbergii* Freyn, lectotype; 4 – *R. udus* Freyn, lectotype.

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