

## Taxonomic Results of the BRYOTROP Expedition to Zaire and Rwanda

### 22. *Orthotrichum*

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#### *Orthotrichum* Hedw.

for a survey of the African species see Lewinsky (1978) and Lewinsky & Van Rooy (1990).

#### \* *O. arborescens* Ther. & Nav.

A distinct species easily recognized by the long exserted, narrow cylindrical capsules. The peristome has 8 teeth and 8 segments which distinguishes this taxon from the closely related *O. firmum*. They both belong to the section *Leiocarpa* within the subgenus *Phaneroporum*. Species closely related to the two African taxa are common throughout the Southern Hemisphere. *Orthotrichum arborescens* is an epiphyte reported from *Arundinaria alpina*, giant *Senecio* and *Philippia*. It is an alpine species occurring between 2.500 and 4.000 m altitude. The geographic distribution is restricted to Central East Africa.

**Ka:** 162, *Pócs* 8185.

#### *O. firmum* Vent.

is closely related to *O. arborescens* but can be distinguished by the 16 exostome teeth and 16 endostome segments. Further the leaves are less longly pointed and less undulate than in the latter.

*Orthotrichum firmum* is an alpine epiphyte occurring between 1.500 and 4.500 m. The range of phorophytes is great and includes e.g. *Acacia*, *Erica*, *Erythrina*, *Euphorbia*, *Gardenia*, *Grewia*, *Lobelia*, *Maytenus*, *Neoboutonia* and *Podocarpus*. *Orthotrichum firmum* is known from East Africa and southern India.

**Ny:** 101, *Pócs* 6025.

#### Literature cited:

**Lewinsky, J. 1978.** The genus *Orthotrichum* Hedw. (Musci) in Africa south of the Tropic of Cancer. *Botanisk Tidsskrift* 72: 61-85.

record of *Orthotrichum* from Southern Africa: *O. incurvo-marginatum* sp. nov., *O. armatum* sp. nov., *O. oreophilum* sp. nov. and *O. firmum* Vent. J. Bryol. 16: 67-78.

Abbreviations:

\* New record for Rwanda viz. Zaire

**KB:** Kahuzi-Biega (Zaire)

**Ka:** Karisimbi (Rwanda)

**Ny:** Nyungwe Forest (Rwanda)

**Ak:** Akagera region (Rwanda)

**Ki:** Kigali region (Rwanda)

100-171, number of collecting site.

For locality data and a description of the collecting site see the contribution by E. Fischer on the vegetation of the study area in this volume (Tropical Bryology 8: 13-37, 1993). The specimens are deposited at the Botanical Museum Berlin as well as in the herbarium of the author (except for unicates).