

REPORTS

Rare glacial moss relic species *Meesia triquetra* in the Nature Reserve Machy (The Tatra Mts., Slovakia)

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Meesia triquetra (Richter) Angstr. is listed in the Czech and Slovak Republic Red Data Book (Váňa and Soldán 1995) and in the Slovak Red List (Kubinská and Janovicová 1995) is included as E - endangered.

The species occurs throughout holarctic Europe, North America, North Asia and Greenland. All the potential localities in Slovakia reported in the Czech and Slovak Republic Red Data Book (Váňa and Soldán 1995) have been checked. In many localities this species has become extinct, or the occurrence is doubtful. Only one out of four localities reported has been confirmed - Fen Peciská near Oravice. On the other hand, four new localities were found: fen on the bank of the rivulet Belanský potok (Liptov Basin, Šoltés 1997), fen Šeliská (Volovské vrchy Hills, Šoltés, Nižnanská and Chromý 1998), fen on Kubínska hoľa Hill (Oravská Magura, Migra and Šoltés 1998). The brand new locality has been found in June 1998 in the Nature Reserve Machy, the Tatra Mts. in the community Caricetum fuscae. In all the localities *Meesia triquetra* is rare and is never found in large abundance.

The floristic composition of the new locality is shown by the following relevé:

Locality: The High Tatra Mts., Nature Reserve Machy, altitude of 985 m a.s.l., South aspect, declination 3°, community Caricetum fuscae. Cover E₁ 90%, E₀ 50%, area 3 x 3 m. June 18, 1998.

Relevé:

E₁
Carex nigra 5, *Festuca arundinacea* +, *Agrostis capillaris* +, *Vigna echinata* +, *Vigna ovalis* +, *Juncus conglomeratus* +, *Potentilla erecta* 1, *Filipendula *ulmaria* +, *Vaccinium myrtillus* +, *Rubus idaeus* r, *Dryopteris dilatata* +.

E₀

Meesia triquetra *-1%, *Sphagnum russowii* 20%, *Rhytidiadelphus squarrosus* 10%, *Sphagnum teres* 5%, *Eurhynchium striatum* 5%, *Aulacomnium palustre* 3%, *Calliergon samentosum* 2%, *Lophocolea bidentata* 2%, *Polytrichum commune* 2%, *Chiloscyphus polyanthos**-1%, *Campylium stellatum**-1%, *Plagiothecium succulentum**-1%, *Plagiomnium ellipticum**-1%.

* cover less than 1%.

Nomenclature of vascular plants follows Dostál (1989), that of mosses follows Kubinská and Janovicová (1996).

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References

- Dostál, J. 1989: Nová květena ČSSR 1, 2. Academia, Praha.
- Kubinská, A. and Janovicová, K. 1996: A second Check list and Bibliography of Slovak Bryophytes. *Biologia*, **51/Suppl. 3**: 81 - 146.
- Migra, V. and Šoltés, R. 1998: Glaciálny relikt *Meesia triquetra* (Bryophyta) na Kubínskej holi (Oravská Magura). *Bulletin Slovenskej botanickej spoločnosti*, **20**. (In press).
- Šoltés, R. 1997: A new locality of two glacial moss relic species, *Paludella squarrosa* and *Meesia triquetra* in Slovakia. *Biologia* **52**: 530.
- Šoltés, R., Nižnanská, M. and Chromý, P. 1998: Finds of rare glacial relic moss species in the Volovské vrchy Hills (Slovakia). *Thaiszia*, **8**. (In press).
- Váňa, J. and Soldán, Z. 1995: Machorasty. Červená kniha ohrozených a vzácných druhov rastlín a živočíchov SR a ČR, 4. Sinice a riasy, huby, lišajníky, machorasty. (ed. V. Kotlíba), pp. 157 - 192. Príroda, Bratislava.

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