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Contributions to the Hungarian bryoflora

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Abstract: Seven moss taxa found in the Hungarian Barbula s.l. material are reported from 11 localities as new to certain flora districts of Hungary. Amongst them Oxystegus tenuirostris var. gemmiparus is new to the Hungarian flora.

Revising the Hungarian Barbula s.l. material, many new data were found either due to the previous misidentifications or as accompanying species in the specimens. From this material Crossidium crassinervis (De Not.) Jur., a species of European importance has been published elsewhere (GALAMBOS & ORBÁN 1984). From these numerous data those were selected which proved to be new either from a geographical or from a floristical point of view as compared to the work of ORBÁN & VAJDA (1983). My study was based on the Barbula s.l. material in the Herbarium of the Botanical Department of the Hungarian Natural History Museum, Budapest (internat. abbrev. BP).

Ditrichaceae

Ditrichum pusillum (Hedw.) Hampe var. tortile (Schrad.) Hagen - Com. Fejér. In rupestribus dolomit. montis Szólókő prope Csákvár. Alt. 200 m s.m. Leg. Á. Boros 28.04.1953. BP 106608. (in caesp. Didymodon vinealis). New to the Vértes Mts.

Dicranaceae

Anisothecium schreberanum (Hedw.) Dix. - Com. Bács-Kiskun. In silva "Kis Rezét" prope pag. Baja. Leg. L. Vajda 20.04.1954. BP 27100. (in caesp. Barbula unguiculata).

Only montainous localities of this species had previously been known. New to the Great Hungarian Plain (and to the Colocense within it).

Trichostomaceae

Gymnostomum aeruginosum Sm. - Comit. Pest. Hortus Botanicus Universitatis Kertészeti Egyetem prope pag. Soroksár. Leg. S. Orbán 21.05.1976. BP 156870. (sub. nom. Didymodon vinealis) - Baja. Tanitóképző. Téglajárda. Leg. L. Balanyi 23.09.1955. BP 106093. (in caesp. Barbula convoluta, olim B. unguiculata det. Á. Boros). Both data are new to the Great Hungarian Plain.

Gyroweisia tenuis (Hedw.) Schimp. - Comit. Vas. In muris in arboretis ad Szeleste. Leg. Á. Boros 10.06.1962. BP 106838. (sub. nom. Barbula rigidula). New to the Hungarian pre-Alps (Praenoricum).

Oxystegus tenuirostris (Brid.) A. J. E. Smith var. gemmiparus (Schimp.) Zander (Fig. 1.) - Comit. Veszprém. In argillosis silvat. secus vias inter mont. Somhegy et praed. Szépalmapuszta inter pag. Bakonybél et Borzavár. Alt. 450-500 m s.m. Leg. Á. Boros 4.10.1937. BP 106851.

(sub. nom. Didymodon rigidulus) - Comit. Baranya. In spelunca "Abaligeti-barlang" prope Abaliget. Alt. 250 m s.m. Leg. H. Huth 30.01.1962. BP 106463. (sub. nom Barbula cylindrica, det. Á. Boros).

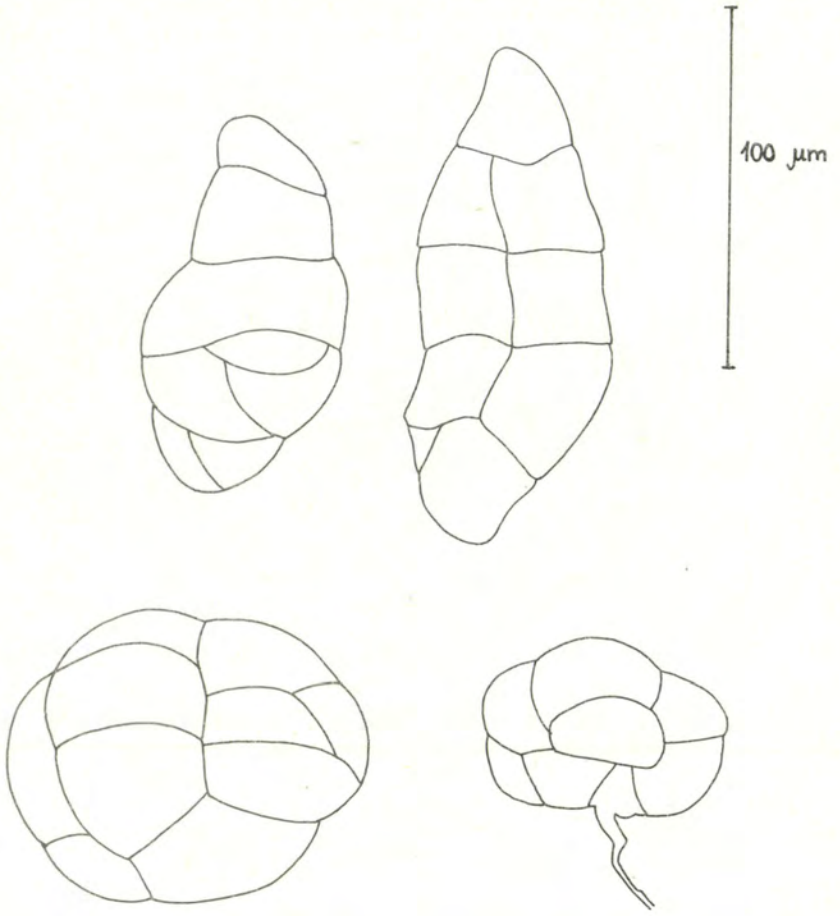


Fig. 1. Gemmae of Oxystegus tenuirostris var. gemmiparus. Del. Mrs. Magdolna Klemm

The propaguliferous variety of the species reported as very rare in Hungary has not yet been published from Hungary. This variety can be distinguished from var. tenuirostris by the gemmae on the ventral surface of the leaves and on the axillary and other rhizoids. The size of the upper lamina cells is a distinguishing feature as well, being 8-10 µm in var. gemmiparus and 10-11.5 µm in var. tenuirostris. This variety is a rare taxon with a rather disperse distribution (ZANDER 1978). In Europe it has been reported from France and Switzerland (SCHIMPER 1876). Outside Europe it is known from India, Mexico, Cuba and Brazil (ZANDER 1978).

The gemmae of var. gemmiparus are of different shape. They might be sphaeroid, elliptic or elongated, linear or inclined, rarely branched, mostly only with short appendices. Cell walls are

thick, smooth, of dark reddish brown colour. The spaeroidal gemmae are 60-90 µm in diameter, the elongated ones are 70-90 µm wide with a length of up to several hundred µm. The cells of the propagules are (20)25 - 40(45) µm in diameter.

Tortella inclinata (Hedw.) Limpr. - Comit. Somogy. In arenosis ripae lacus Balaton ad Fonyód. Alt. 110 m s.m. Leg. Á. Boros 16.09.1933. BP. 105398. (in caesp. Barbula convoluta). New to the Somogyicum.

Trichostomum crispulum Bruch - Comit. Zala. In calcareis montis Tamáshegy prope Balatonfüred. Alt. 2-300 m s.m. Leg. Á. Boros 2.04.1926. BP 105396. (sub. nom. Barbula convoluta) - Comit. Veszprém. In rupibus siccis montis Csúcshegy prope pag. Tihany. Leg. L. Vajda 7.04. 1957. BP 57946. (sub. nom. Barbula horschuchiana) - Comit. Esztergom. In rupibus calcareis siccis montis Kiskőhegy prope pag. Dorog. Leg. L. Vajda 19.10.1952. BP 3538. (sub. nom. Barbula revoluta). New to the Balatonfelvidék and to the Gerecse Mts.

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