Tropical Bryology 19: 25-26, 2000

Some mosses (Pottiales) new or rarely collected in tropical Asia

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Abstract. *Barbula zennoskeana* Tan is reported new for Malaysia. *Didymodon maschalogena* (Ren. & Card.) Broth. (replaces *Didymodon michiganensis* (Steere) K. Saito) is reported new for the Philippines. *Barbula murina* C. Muell. nom. nud. is considered as synonymous with *Barbula indica* (Hook.) Spreng.

Over the last few years, many unidentified or partially named Pottiales material, mainly present in herbarium L (also several from hb. GRO) was fully identified as far as was possible.

Some of these collections proved to be very interesting. They are reported below.

Barbula indica (Hook.) Spreng.

Barbula murina C. Muell., Gen. Musc. Frond. 440. 1900, nom. nud.

Material studied: (Peninsular Malaysia) Ind. or., Singapore, 1889 (year), S. Ankakrona (s.n.), det. C. Mueller, herb. S!

Notes:

- 1. The material above contains non-fruiting plants with gemmae present and is a common state of *Barbula indica* in my opinion.
- 2. The material was collected on walls and bears also the text 'n. sp.', but was never legitimately published (Wijk et al. 1959-1969; Crosby et al. 1992; 1994).

Barbula zennoskeana Tan

The following (partially named) collection was

found in herbarium Leiden:

Malaysia, N. Borneo, Tawau Reserve, E. of Tawau, Apas-Balung, Maria Rd., Hot Springs, s. alt, 26 March 1962, W. Meijer B. 12.008, det. Ph. Sollman, Jan. 1997 and H. Akiyama, hb. L 965.53.481; dupl. HYO, FH (hb. B.C. Tan).

Notes.

- 1. The collection contains non-fruiting plants, gemmae were not found.
- 2. Likely, this is the second known location, and the first outside the Philippines.

This species is described, discussed and illustrated in Tan (1994). Akiyama (1996) compared his new species (*Barbula seramensis* H. Akiyama) shortly with the related *Barbula zennoskeana*.

3. Interestingly to note that B.C. Tan (letter dat. 28 Jan. 1997) considers the collection to belong to *Barbula seramensis* Akiyama. However, the author of this paper and H. Akiyama (Hyogo, Japan; letter Jan. 1997) consider the material to belong to *Barbula zennoskeana* Tan.

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Didymodon maschalogena (Ren. & Card.) Broth. (Didymodon michiganensis (Steere) K. Saito).

Three collections were studied from the Philippines, as follows: Philippines, N. Luzon, Mt. Polis, road Sabangan-Bontoc, on rocks exposed, sunny, alt. c. 1500 m., 3 March 1981, leg. B.O. van Zanten c.s., v.Z. no. 81.03.2118, det. Ph. Sollman, 1989, idem 1999, herb. L 989.094.123; GRO.

Philippines, N. Luzon, W. of Baguio-city, Mt. Sto. Tomas, on stone wall near peak, alt. c. 2200 m., 27 April 1975, leg. R.M. del Rosario c.s., Ros. 13.049, det. Ph. Sollman, 1988, idem 1999, herb. L 982.219.537; GRO.

Philippines, N. Luzon, W. of Baguio-city, Mt. Sto. Tomas, on boulder, near peak, alt. c. 2200 m., 27 April 1975, leg. R.M. del Rosario c.s., Ros.13.071, det. Ph. Sollman, 1988, idem 1999, herb. L 982.219.574; GRO.

The three collections are non-fruiting. Gemmae are present in all material. These numbers were compared with material from Japan, det. K. Saito (hb. TNS, L).

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