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## De Hepaticis IV

### An unpublished section of volume 6 of Stephani's Species Hepaticarum : the genus Marsupella

by

C. E. B. BONNER

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The reasons for publishing this portion of STEPHANI'S manuscript are essentially the same as those indicated in "*De Hepaticis II*" (*Candollea* **14**: 101. 1953) for the genus *Marchantia*, and will therefore not be repeated. All specimens cited are present in hb. G. unless otherwise specified.

#### **Marsupella** Dum.

(Cf. Stephani, *Species Hepaticarum* **2**: 12-31)

##### 1. **M. aequiloba** Steph. ms.

Sterilis, fusco-brunnea, subnigra, profunde pulvinato-caespitosa. *Caulis* ad 3 cm. longus, parum longaeque ramosus. *Folia caulina* conferta, conduplicato-concava, in plano subquadrata (1,17 mm. longa, supra basin 1 mm. lata) fere ad medium usque inciso-biloba, sinu angusto, lobis porrectis, ovato-triangularis (0,4 mm. longis, 0,58 mm. latis) apice obtusis. *Cellulae* superae 18/18  $\mu$  trigonis majusculis acutis, basales 18/36  $\mu$  trigonis nullis.

TYPE: JAPAN, Echigo in Mte Ninoji, undated, *Okamura* 278 (Ex hb. Paris).

##### 2. **M. africana** Steph. ms.

Sterilis, pusilla fusco-brunnea, dense pulvinata. *Caulis* ad 15 mm. longus simplex, basi flagelliferus, flagellis longis ramosis. *Folia caulina* conferta, oblique patula, conduplicato-concava, in plano subrotunda, marginibus arcte angusteque recurvis (1,33 mm. longa et lata) basi

cordatim ampliata, apice ad  $1/5$  inciso-biloba, sinu recto, lobis late triangulatis obtusis. *Cellulae* sup.  $12/12$  trigonis majusculis, bas.  $14/28$   $\mu$  trigonis nullis, parietibus ubique validis. Reliqua desunt.

TYPE : KILIMANDJARO, 24 Oct. 1901, Uhlig 15 p.p.

Other specimen : Kilimandjaro, 300 m., 1901, Uhlig s.n.

3. **M. arctica** (Berggr.) Bryhn & Kaal. *Rep. 2nd Norwegian Arctic Exp. Fram 1898-1902*, 11 : 26. 1906 = *Sarcoscyphus emarginatus* var. *arcticus* Berggr. *Kungl. Svenska Vet.-Akad. Handl.* 13 : 96. 1875 = *Marsupella emarginata* var. *arctica* (Berggr.) Fry & Clark, *Hepaticae N. America*, Univ. Washington Publ. Biol. 6 : 232. 1943.

Sterilis, magna, gracillima, rigida, purpurea, in paludibus crasse pulvinata. *Caulis* ad 7 cm. longus, simplex, flagellis basalibus numerosis. *Folia caulina* remotiuscula, oblique patula, cucullato-inflexa, in plano subrotunda (2,25 mm. longa, medio 2,5 mm. lata) apice ad  $1/4$  inciso-biloba, sinu recto, lobis late triangulatis acutis aequalibus. *Cellulae* sup.  $18/18$   $\mu$  bas.  $27/36$   $\mu$  trigonis majusculis. Reliqua desunt.

N. AMERICA, Ellesmere Land, circa  $78^{\circ}$ , 1899, Simmons s.n.

4. **M. chilensis** Steph. ms.

Sterilis, majuscula, gracillima, rigida, fusco-brunnea, subnigra, crasse pulvinato-caespitosa. *Caulis* ad 3 cm. longus, longe pinnatus et bipinnatus, ramis subapicalibus subfasciculatis. *Folia caulina* approximata, oblique patula, conduplicato-concava, in plano late obovato-obconica (1,25 mm. longa, medio 0,83 mm. lata) ad  $1/3$  inciso-biloba, lobis aequalibus late triangulatis obtusis. *Cellulae* sup.  $14/14$   $\mu$  trigonis parvis nodulosis, bas.  $14/18$   $\mu$  parietibus validis, trigonis nullis.

TYPE : CHILE, s.d., Gay s.n., ex hb. Bescherelle.

5. **M. fosteri** Steph. ms.

Sterilis, parva, gracillima, rigida, flavo-rufescens, dense pulvinata. *Caulis* ad 35 mm. longus, simplex vel ramo longe pinnato praeditus, flagellis posticis brevibus sparsis. *Folia caulina* conferta, squarrose patula, in plano late reniformia (1,17 mm. longa, medio 1,58 mm. lata), basi cordato-ampliata, apice ad  $1/5$  inciso-biloba, sinu latissimo, lobis late triangulatis obtusis. *Cellulae* marginales  $14/18$   $\mu$  limbum distinctum formantes, subapicales  $18/18$   $\mu$  trigonis magnis nodulosis, bas.  $18/36$   $\mu$  parietibus validissimis. Reliqua desunt.

TYPE : U.S.A., Washington, Hamilton, Falls in Skagit River, Oct. 1904, A.S. Foster s.n.

6. **M. integrifolia** Steph. ms.

Dioica, pusilla, rigida, fusco-brunnea, pulvinato-caespitosa. *Caulis* ad 12 mm. longus, parum longeque ramosus, flagellis numerosis. *Folia*

*caulina* confertissima, conduplicato-concava, cauli appressa vel parum patula, in plano late ovata (0,67 mm. longa, medio 0,58 mm. lata) apice obtusa, integerrima. *Cellulae* sup.  $14 \times 18 \mu$ , bas.  $18 \times 18 \mu$  parietibus validissimis. *Folia floralia* caulinis multo majora, late ovata (1,5 mm. longa, medio 1,33 mm. lata) apice breviter inciso-biloba, lobis rotundatis. *Perianthia* levia, magna, ovata (1,17 mm. longa, 0,75 mm. lata), foliis breviter coalitis, apice angustis, truncatis, minute denseque crenulatis.

TYPE : JAPAN, Obaya, 1200 m., 1904, *Faurie 1416*.

7. **M. japonica** Steph. ms.

Dioica, pusilla, gracillima, rigida, flavo-rufescens, dense pulvinata. *Caulis* ad 2 cm. longus, capillaceus, parum longeque ramosus, ramis simplicibus vel minute pinnulatis, flagellis posticis numerosis. *Folia caulina* remota, conduplicato-concava, squarrose patula, in plano subrotunda (0,67 mm. longa et lata) apice ad  $1/6$  inciso-biloba, sinu lato, laciniis late triangulatis subacutis. *Cellulae* sup.  $18/18 \mu$  trigonis nullis, bas.  $18/27 \mu$  trigonis parvis, parietibus ubique tenuibus. *Inflorescentiae femineae* numerosae, omnes mutilatae.

TYPE : JAPAN, Daisen, 26 May 1899, *Faurie 411*.

8. **M. joergensenii** Schiffn. *Hep. eur. exs. No. 48*. 1901.

Dioica, minor, graciles, rigidula, pulvinato-caespitosa. *Caulis* ad 2 cm. longus sparsim irregulariterque ramosus. *Folia caulina* approximata, canaliculato-concava, superne squarrosa, recurva, in plano subrotundata (1,25 mm. longa et lata) apice ad  $1/3$  inciso-biloba, lobis ovato-triangulatis obtusis. *Cellulae* sup.  $18/18 \mu$ , bas.  $18/36 \mu$  parietibus validis, cuticula minute papillata. *Perianthia* (sterilia) ovato-oblonga, occulta, cum foliis floralibus usque ad medium connata, ore parvo truncato minute crenulato. *Folia floralia* caulinis similia, eis duplo longiora, apice ad  $1/4$  inciso-biloba, lobis obtusis vel rotundatis.

TYPE : NORWAY, Hardanger, Raedal, 1000 m., July 1889, *Bryhn s.n.*, (Duplicate in hb Steph.-G.).

Other specimens : Drontheim, s.d., *Hagen s.n.*; Meraker ad rupes montis Fondjeld, 800 m., 1 Aug. 1892, *Bryhn s.n.*; Medolen, vallis Valdars, 1000 m., 9 Aug. 1894, *Bryhn s.n.*

9. **M. mikawana** Steph. ms.

Sterilis, minor, flaccida, brunnea, pulvinato-caespitosa, terricola. *Caulis* ad 15 mm. longus, simplex vel furcatus. *Folia caulina* conferta oblique patula, conduplicato-concava, in plano reniformia (1,33 mm. longa, 1,5 mm. lata), apice ad  $1/5$  inciso-biloba, sinu recto, lobis late triangulatis aequalibus, apice obtusis. *Cellulae* sup.  $18/18 \mu$ , bas.  $18/27 \mu$  trigonis magnis, acutis.

TYPE : JAPAN, Okazaki, Mikawa, 18 Jan. 1913, *Okamura 420*.

10. **M. rikuchuna** Steph. ms.

Sterilis, mediocris, rigidula, rufo-brunnea, terricola, dense depresso-caespitosa. *Caulis* ad 25 mm. longus, simplex vel parum longeque ramosus. *Folia caulina* remota, oblique patula, conduplicato-concava, in plano subrotunda (1,33 mm. longa, medio 1,25 mm. lata) basi inserta, apice ad 1/3 biloba, sinu recto obtuso, lobis inaequalibus, postico subduplo validiore et parum longiore. *Cellulae* 27/27  $\mu$ , bas. 36/45  $\mu$  trigonis majusc. acutis, parietibus tenuibus.

TYPE : JAPAN, Rikuchû, Mt. Sukawagadake, 16 Aug. 1912, *Okamura* 424.