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Type material in the Herbarium of the Martin-Luther-University Halle-Wittenberg (HAL) Bryophyta: Species described by G. E. L. Hampe, C. F. Hornschuch, J. K. (C.) A. F. W. Müller (Müll. Hal.), etc.

Uwe Braun

Abstract: Braun, U. 2006: Type material in the Herbarium of the Martin-Luther-University Halle-Wittenberg (HAL). Bryophyta: Species described by G. E. L. Hampe, C. F. Hornschuch, J. K. (C.) A. F. W. Müller (Müll. Hal), etc. Schlechtendalia **14**: 25–31.

Some old, separately deposited fascicles with bryophytes belonging to the herbarium of D. F. L. von Schlechtendal have recently been examined. Type collections as well as some authentic specimens, which may be types, have been sorted out and are listed in this paper. Most of the types belong to species described by G. E. L. Hampe, C. F. Hornschuch, and J. K. (C.) A. F. W. Müller (Müll. Hal.).

Zusammenfassung: Braun, U. 2006: Typusmaterial des Herbariums der Martin-Luther-Universität Halle-Wittenberg (HAL). Bryophyta: Arten beschrieben von G. E. L. Hampe, C. F. Hornschuch, J. K. (C.) A. F. W. Müller (Müll. Hal), etc. Schlechtendalia **14**: 25–31.

Einige alte, getrennt aufbewahrte Faszikel mit Moosen, die zum Herbarium von D. F. L. von Schlechtendal gehören, sind unlängst untersucht worden. Typusmaterial und authentische Kollektionen, die Typen sein könnten, wurden aussortiert und werden in der vorliegenden Arbeit aufgelistet. Die meisten Typen gehören zu Arten, die von G. E. L. Hampe, C. F. Hornschuch und J. K. (C.) A. F. W. Müller (Müll. Hal.) beschrieben worden sind.

Key words: Mosses, types, HAL.

In the Herbarium of the Institute of Geobotany and Botanical Garden of the Martin-Luther-University, Halle-Wittenberg (HAL), Germany, about 80.000 bryophyte collections, including 50.000–55.000 specimens of herbarium K. Koppe, are housed. Braun & Stordeur (2001) listed some type collections of bryophytes deposited at HAL. Recently some separate fascicles, not included in the general bryophyte herbarium of HAL, containing exotic mosses from Asia, Australia, South Africa, Mexico, Caribbean islands and South America, have been examined, and type collections as well as potential types have been sorted out. The fascicles, pertaining to the herbarium of D. F. L. von Schlechtendal, have been almost untreated since 1866, when Schlechtendal passed away. The bryologist J. K. (C.) A. F. W. Müller (Müll. Hal.), a self-made scientist, was a practicing pharmacist in various parts of Germany until 1843, but from then on he worked at Halle (Saale), closely connected with D. F. L. von Schlechtendal. He published numerous publications on mosses, including his famous "Synopsis Muscorum Frondosorum" (Müller 1848–49, 1850–51). Müller´s herbarium and types were acquired by the herbarium in Berlin (now B) in 1899 and destroyed during Ward War II in 1943. Müller sent numerous duplicates to his friend K. Schliephacke, now deposited at the herbarium in Jena (JE) [Stafleu & Cowan

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1981]. However, numerous types and other collections treated by Müller were also preserved in Schlechtendal´s herbarium (now at HAL). Müller examined mosses of Schlechtendal´s herbarium and used these collections for the preparation of his various publications, and he probably added duplicates of his own herbarium, which is not mentioned in STAFLEU & COWAN (1981).

Schlechtendal´s herbarium also contains types of species described by G. E. L. Hampe (Hampe´s original bryophyte herbarium is housed at BM, see STAFLEU & COWAN 1979), C. F. Hornschuch (original herbarium at B, mainly destroyed during Ward War II, STAFLEU & COWAN 1979) and various other authors.

The following list comprises type collections of species described by Hampe, Hornschuch, Müller and some additional authors. In a second list, unpublished herbarium names and possible type collections (status not yet clear) are cited.

List of types

Antitricha cuspidata Nees, Linnaea 19: 681 (1847); Typus: Mexico, Aschenborn; HAL 60 B.

Astomum pappeanum Müll. Hal., Syn. musc. frond. 1 (1): 15 (1848); Typus: South Africa, Prom. bon. spei, near Zwellendam, K. Pappe; HAL 61 B.

Barbula xanthocarpa Müll. Hal., Linnaea 17: 581 "1843" (1844); Typus: South Africa, Prom. bon. spei, C.F. Ecklon; HAL: 62 B.

Bartramia intertexta Schimp. ex Müll. Hal., Syn. musc. frond. 1 (4): 503 (1849), nom. illeg.; Typus: Mexico, 1831-39, C. Ehrenberg (1276); HAL 63 B.

Bartramia pabstiana Müll. Hal., Syn. musc. frond. 1 (4): 486 (1849); Typus: Brazil, St. Catharina, C. Pabst; HAL 64 B.

Brachymenum julaceum Hornsch., Linnaea 15: 133 (1841); Typus: South Africa, C. b. sp., J.F. Drège; HAL 65 B.

Brachysteleum crispatum var. (β) ***brachycarpum*** Hornsch., Linnaea 15: 126 (1841); Typus: South Africa, Prom. bon. spei, C.F. Ecklon; Typus: HAL 66 B.

Bryum spectabile Müll. Hal., Syn. musc. frond. 2 (9/10): 583 (1851); Typus: Costa Rica, 1847, A.S. Oersted; HAL 67 B.

Campylopsis cubensis Sulliv., Proc. Am. Acad. Arts Sci. 5: 278 (1861); Typus: Cuba, Musci Cubenses 39; HAL 68 B.

Catharinea javanica Hampe, Icon. musc. 3: Tab. 22 (1844); Typus: Java, in cacumine montis Sindoro, Apr., F. Junghun; HAL 69 B.

Conomitrium capense Müll. Hal., Syn. musc. frond. 2 (9/10): 524 (1851); Typus: South Africa, Prom. b. sp., J.F. Drège No. 9379 b; HAL 70 B.

Cryphaea patens Hornsch. ex Müll. Hal., Linnaea 18: 679 (1845); Typus: Mexico, 1831–39, C. Ehrenberg; HAL 49 B.

Dendropogon rufescens Schimp., Bot. Zeitung 1: 381 (1843); Typus: Mexico, 1831–39, C. Ehrenberg; HAL 71 B.

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Dicranum bicolor Hornsch. ex Müll. Hal., Syn. musc. frond. 1 (3): 392 (1848); Typus: Australia, Nova Hollandia, F.W. Sieber 9; HAL 72 B.

Dicranum dicarpum Hornsch., (in Sieber, Musc. Nov. Holl. 10), Nees, Syst. veg. 4 (2): 322 (1827); Typus: Australia, Nova Hollandia, F.W. Sieber; HAL 73 B.

Dicranum brachyphyllum Hornsch., Syst. veg. 4 (2): 322 (1827); Typus: Australia, Nova Hollandia, F.W. Sieber; HAL 74 B.

Dicranum macrophyllum Kunze ex Müll. Hal., Syn. musc. frond. 1 (3): 402 (1848); Typus: Chile, Poeppig, Pl. Chil. III, 231; HAL 75 B.

Dicranum macropus Kunze ex Müll. Hal., Linnaea 18: 690 (1845); Typus: Chile, Poeppig 47; Typus HAL 76 B.

Dicranum pudicum Hornsch. ex Müll. Hal., Syn. musc. frond. 1 (3): 407 (1848); Typus: Australia, Nova Hollandia, F.W. Sieber 24; HAL 77 B.

Dicranum sieberianum Hornsch., Syst. veg. 4 (2): 322 (1827); Typus: Australia, Nova Hollandia, F.W. Sieber; HAL 78 B.

Dicranum tenuirostre Kunze ex Schwägr., Sp. mus. fron. suppl. 4: T. 308 (1842); Typus: Chile, Poeppig, Pl. Chil. III, 230; HAL 79 B.

Fissidens fasciculatus Hornsch., Linnaea 15: 155 (1841); Typus: South Africa, C. b. spei, C.L.P. Zeyher, Cap. 498; HAL 80 B.

Fissidens glaucescens Hornsch., Linnaea 15: 154 (1841); Typus: South Africa, Prom. b. spei, Tafelberg, C.F. Ecklon; HAL 81 B.

Fissidens rufescens Hornsch., Linnaea 15: 153 (1841); Typus: South Africa, Prom. b. spei, Tafelberg, C.F. Ecklon; HAL 82 B.

Holomitrium wrightii Sull., Proc. Am. Acad. Arts Sci. 5: 279 (1861); Typus: Cuba, Musci Cubenses 42; HAL 83 B.

Hookeria cupressiformis Müll. Hal., Syn. musc. frond. 2 (7/8): 215 (1851); Typus: Trinidad, 1847, Crüger; HAL 84 B.

Hookeria varians Sull., Proc. Am. Acad. Arts Sci. 5: 285 (1861); Typus: Cuba, Musci Cubenses 88; HAL 85 B.

Hypnum curvicollum Müll. Hal., Syn. musc. frond. 2 (9/10): 684 (1851); Typus: Brazil, St. Catharina, C. Pabst; HAL 86 B.

Hypnum dregei Müll. Hal., Syn. musc. frond. 2 (7/8): 311 (1851); Typus: South Africa, Prom. b. spei, near Zwellendam, K. Pappe; HAL 87 B.

Hypnum gueinzii [Hampe] var. β ***prostrata*** Müll. Hal., Syn. musc. frond. 2 (7/8): 311 (1851); Typus: South Africa, Prom. b. spei, near Zwellendam, K. Pappe; HAL 88 B.

Hypnum muricola *(muricolum)* Müll. Hal., Syn. musc. frond. 2 (7/8): 492 (1851); Typus: Brazil, St. Catharina, 1847, C. Pabst; HAL 89 B.

Hypnum schistocalyx Müll. Hal., Syn. musc. frond. 2 (9/10): 691 (1851); Typus: Nicaragua, ad Matagalpa, Dec. 1847, A.S. Oerstad; HAL 90 B.

Hypnum thelistegum Müll. Hal., Syn. musc. frond. 2 (7/8): 269 (1851); Typus: Brazil, St. Catharina, C. Pabst; HAL 91 B.

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Hypnum versicolor Hornsch. ex Müll. Hal., Syn. musc. frond. 2 (7/8): 494 (1851); Typus: South Africa, Prom. b. spei, J.L. Mundt & C. Maire; HAL 92 B.

Hypopterygium incrassatolimbatum Müll. Hal., Syn. musc. frond. 2 (6): 8 (1850); Typus: Brazil, St. Catharina, 1847, C. Pabst; HAL 93 B.

Leptotheca wrightii Sull., Proc. Am. Acad. Arts Sci. 5: 281 (1861); Typus: Cuba, Musci Cubenses 53; HAL 94 B.

Leptotrichum kunzeanum Müll. Hal., Bot. Zeitung 5: 806 (1847) [*Weisia tenuis* Kunze, in herb.]; Typus: Chile, Poeppig, Coll. Pl. Chil. 230; HAL 95 B.

Leskea remotifolia Müll. Hal., Linnaea 19: 216 (1848) [*Neckera remotifolia* Hornsch., nom. nud.; *Neckera remotifolia* (Müll. Hal.) Müll. Hal.]; Typus: Mexico, F. Deppe & C.J.W. Schiede; HAL 116 B.

Leucobryum robustum Sull., Proc. Am. Acad. Arts Sci. 5: 279 (1861); Typus. Cuba, Musci Cubensis 44; HAL 96 B.

Macomitrium dregei Hornsch., Linnaea 15: 131 (1841); Typus: South Africa, C. b. sp., J.F. Drège; HAL 97 B.

Macromitrium guatemalense Müll. Hal., Syn. musc. frond. 2 (9/10): 644 (1851); Typus: Guatemala, H. Kegel com.; HAL 98 B.

Macromitrium perrottetii Müll. Hal., Syn. musc. frond. 1 (5): 721 (1849); Typus: India, Montes Neelgheerienses, B. Schmid; HAL 99 B.

Macromitrium regnellii Hampe in Müll. Hal., Syn. musc. frond. 1 (5): 738 (1849); Typus: Brazil, ad Caldas, Minas Geraës, A.F. Regnell; HAL 100 B.

Macromitrium secundum Müll. Hal., Bot. Zeitung 14: 420 (1856); Typus: South Africa, Prom. b. spei, Distr. Uitenhagen (prope Ado), Sept. 1829, K. Pappe (C.F. Ecklon); HAL 101 B.

Neckera africana Müll. Hal., Syn. musc. frond. 2 (6): 137 (1850); Typus: South Africa, Prom. b. spei, Olifantshoek, C.F. Ecklon; HAL 102 B.

Neckera cumingii Müll. Hal., Syn. musc. frond. 2 (6): 132 (1850); Typus: Chile, pr. urbem Valdivia, Novbr. 1850; HAL 104 B.

Neckera cylindricaulis Müll. Hal., Syn. musc. frond. 2 (6) : 100 (1850); Typus: Venezuela, Cumbre de Caracas, H. Wagner; HAL 105 B.

Neckera deppei Hornsch. ex Müll. Hal., Syn. musc. frond. 2 (6): 136 (1850); Typus: Mexico, F. Deppe & C.J.W. Schiede 1087; HAL 103/1 B [= *Pterigynandrum seriatum* Hornsch., Linnaea 6: 62 (1831), nom. nud.; Linnaea 19: 217 (1846), nom. inval.; Typus: Mexico, prope Jalapam, F. Deppe & C.J.W. Schiede 1080; HAL 103/2 B].

Neckera dregei Hornsch., Linnaea 15: 139 (1841); Typus: South Africa, C. b. sp., J.F. Drège; HAL 106 B.

Neckera ehrenbergii Müll. Hal., Syn. musc. frond. 2 (6): 51 (1850); Typus: Mexico, 1831–39, C. Ehrenberg; HAL 107 B.

Neckera kegeliana Müll. Hal., Bot. Zeitung 16: 165 (1858); Typus: India, Bombay, Elphingston; HAL 108 B.

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Neckera longipes Müll. Hal., Syn. musc. frond. 2 (6): 123 (1850); Typus: Trinidad, 'Uracaga', H. Crüger; HAL 109 B.

Neckera macropelma Müll. Hal., Syn. musc. frond. 2 (6): 104 (1850); Typus: India, Neelgheeri, B. Schmid (Missionarius); HAL 110 B.

Neckera moritzii Hampe, Linnaea 20: 91 (1847); Typus: Columbia, Tovar, 1845, K. Moritz; HAL 111 B.

Nechera pabstiana Müll. Hal., Bot. Zeitung 13: 766 (1855); Typus: Brazil, St. Catharina, 1851, C. Pabst; HAL 112 B.

Neckera pandurifolia (*panduraefolia*) Müll. Hal., Bot. Zeitung 13: 767 (1855); Typus: South Africa, Prom. bon. spei, 1823, C.L.P. Zeyher; HAL 113 B.

Neckera procumbens Müll. Hal., Syn. musc. frond. 2 (6): 80 (1850); Typus: India, Bombay, Elphingstone; HAL 114 B.

Neckera quinquefaria Müll. Hal., Syn. musc. frond. 2 (6): 124 (1850); Typus: Trinidad, H. Crüger; HAL 115/1 B; Paramaribo, H. Kegel; HAL 115/2 B.

Neckera remotifolia Hornsch., Linnaea 6: 63 (1831), nom. nud. (see ***Leskea remotifolia*** Müll. Hal.).

Neckera turgescens Müll. Hal., Syn. musc. frond. 2 (6): 131 (1850); Typus: Mexico, 1831–39, C. Ehrenberg; HAL 117 B.

Orthotrichum elegans Hornsch., in Musc. Sieb. 21 (non Schwägr.) [*Macromitrium brevipes* Müll. Hal.]; Typus: Trinidad, 1822, F.W. Sieber 21 (leg. F. Wrbna); HAL 118 B.

Pilotrichum cochlearifolium Müll. Hal., Linnaea 17: 599 (1844); Typus, Mexico, 1831–39, Ehrenberg; HAL 119 B.

Pilotrichum decurrens Müll. Hal., Syn. musc. frond. 2 (6): 172 (1850); Typus: Mexico, 1831–39, C. Ehrenberg; HAL 50 B.

Pilotrichum nigrescens Hornsch., in Müll. Hal., Syn. musc. frond. 2 (6): 135 (1850), pro syn. *Neckera nigrescens*; Australia, Nova Hollandia, F.W. Sieber 14; HAL 120 B.

Pogonatum cubense Sull., Proc. Am. Acad. Arts Sci. 5: 281 (1861); Typus: Cuba, Musci Cubenses 57; HAL 121 B.

Polytrichum oligodus Kunze ex Müll. Hal., Syn. musc. frond. 1 (2): 206 (1848); Typus: Chile, Poeppig, Coll. Pl. Chil. I, 271; HAL 122 B.

Pterogonium productum Hornsch., Linnaea 15: 138 (1841); Typus: South Africa, Cape, J.L. Mundt & C. Maire; HAL 123 B.

Schlotheimia pabstiana Müll. Hal., Bot. Zeitung 13: 764 (1855); Typus: Brazil, St. Catharina, 1851, C. Pabst; HAL 124 B.

Spiridens reinwardtii Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 11 (1): 143 (1823); Typus: Java, C.G.C. Reinwardt; HAL 125 B.

Possible types and unpublished names

Angstroemia pabstiana Müll. Hal., in herb.; Brazil, St. Catharina, C. Pabst; HAL 126 B.

Bartramia baueri Müll. Hal., in herb.; USA, California, 'Mission bei S. Francisco', H.N. Bolander; HAL 128 B.

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Bryum littorale Hampe, in herb.; USA, California, S. Francisco, 'an der Bai', H.N. Bolander (?); HAL 129 B.

Bryum pabstianum Müll. Hal., Bot. Zeitung 13: 751 (1855); ? Typus: Brazil, St. Catharina, 1849, C. Pabst; HAL 130 B. Notes: In the protologue '1847' is given as date (the present collection is, at least, topotype material).

Campylopus incrassatus Kunze, Linnaea 18: 686 (1845); ? Typus: Chile, Poeppig 40 (Diar. 612); HAL 131 B.

Cleistostoma elegans Bruch, in Index Bryol., Ed. Sec., 1: 348 (1904), nom. inval. (pro syn.); ? Typus: Mexico, Oaxacan, W.F. von Karwinski; HAL 132 B.

Conomitrium semilimbatum Schlieph., in herb.; Brazil, St. Catharina, C. Pabst; HAL 133 B.

Dicranum areniculatum Müll. Hal., in herb.; Brazil, St. Catharina, C. Pabst; HAL 134 B.

Dicranum blumii Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 11 (1): 131 (1823); ? Typus: Java, C.L. Blume; HAL 135 B.

Fissidens asterodontium 'sp. nov.', in herb.; Brazil, 1846, C. Pabst 228; HAL 136 B.

Fissidens exiguus Sull., Musc. Allegh.: 182 [Schedae 44] (1846); ? Typus: USA, Ohio, 41, Sullivant; HAL 137 B.

Fissidens minutulus Sull., Musc. Allegh.: 183 [Schedae 44] (1846); ? Typus: USA, Ohio, 26, Sullivant; HAL 138 B.

Fissidens obtusissimus 'sp. nov.', in herb.; Columbia, K. Moritz 54; HAL 139 B [? *Fissidens leptophyllus* f. *obtusissimus* Florsch., Fl. Suriname 6 (1): 52, F. 13: h (1964); *Fissidens obtusissimus* (Florsch.) Pursell].

Fissidens pseudobryoides Schlieph., Bot. Zeitung 13: 424 (1855); ? Typus: Brazil ('Brasilien'); HAL 140 B. Notes: The protologue is given as 'Ins. St. Catharina, C. Pabst, Martio-Majo 1847, No. 319'. The present collection at HAL is probably type material, but details are not given on the label.

Hookeria hypnoica Müll. Hal., in herb.; Brazil, St. Catharina, C. Pabst; HAL 141 B.

Hypnum ampullaceum Lorenz, in herb.; In sylvis montis Guadeloupe; HAL 142 B.

Hypnum flagellans Müll. Hal., in herb.; Brazil, St. Catharina, C. Pabst; HAL 143 B.

Hypnum mosmannianum Müll. Hal., in herb.; Australia felix, F. Müller; HAL 144 B.

Hypnum semirevolutum Müll. Hal., Bot. Zeitung 13: 784 (1855); ? Typus: South Africa, Prom. b. spei, J.L. Mundt; HAL 145 B. Notes: In the protologue 'Prom. bon. spei, Ecklon, Gueinzius' is given.

Macromitrium cylindricum Hornsch., in herb.; Brazil ('Brasilia'); HAL 146 B.

Neckera imbricata Hornsch., in herb. [*Neckera rigida* Müll. Hal.]; Mexico; HAL 147 B. Notes: Syntype of *Neckera rigida*?

Neckera rigida Müll. Hal., see ***Neckera imbricata***.

Pleuridium bolanderi Müll. Hal. ex A. Jaeger, Ber. Thätigkeit St. Gallischen Naturwiss. Ges. 1868–69: 91 (1869) [*Astomum bolanderi* (Müll. Hal. ex A. Jaeger) Müll. Hall.]; ? Typus: USA, California, S. Francisco, H.N. Bolander; HAL 127 B.

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Polytrichum humboldtianum Hampe, Verh. Zool.-Bot. Ges. Wien 21: 384 (1871); ? Typus: Costa Rica, C. Hoffmann; HAL 148 B.

Schlotheimia pulchella Hornsch., Horae Phys. Berol.: 61, F. 12 (1820); ? Typus: South Africa, Prom. bon. spei; HAL 149 B.

Weisia pabstiana Müll. Hal., in herb.; Brazil, St. Catharina, C. Pabst; HAL 150 B.

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