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A type catalogue of Campylopodioideae and Paraleucobryoideae (Musci, Dicranaceae), Part II, *Campylopus*

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Abstract. All species of *Campylopus* Brid. are listed, including citations of basionyms and homotypic synonyms, completed by citation of the type specimen and its location, as well as the current use or other uses of the name.

As pointed out in the first part of this catalogue (Frahm 1994), type registers are important tools especially for herbarium curators, because it is often difficult even for an experienced curator to check all herbarium specimens for potential types, and it requires usually good library facilities to confirm the status of type specimens with the protologue. So far only a few herbarium based catalogues existed, and no genus based catalogues. Therefore the taxonomic data of *Atractylocarpus*, *Brothera*, *Bryohumbertia*, *Campylopodiella*, *Campylopodium*, *Microcampylopus*, *Paraleucobryum*, *Pilopogon* and *Sphaerothecium* were listed in the first part of this catalogues. The genus *Campylopus* remained, because it needed special efforts to compile the data for more than 1000 species.

The register includes information on:

Species name, author, publication and year

B: the basionym

HS: eventually homotypic synonyms,

T: information on the type (country, locality, collector, number) as well as information on the location of the type using abbreviations of the Index herbariorum (Homgren et al. 1990) and the status of the type (holo-, lecto- iso-, syn-, paratypes)

M: Material, in the case of nomina nuda.

OU: other use of the name, the name of a species to which this species was attributed before, with reference.

CU: if the species has been synonymized, the name of the species (current use) with which it has been synonymized, including reference.

Nomina nuda are included but species described in *Campylopus* but belonging to other genera (such as *Grimmia* or *Racomitrium*) are not completely included.

Accepted names are in boldface, synonyms are in italics, nomina nuda and doubtful species are in normal print.

The information is not 100% complete, there are some cases that protologues (published in journals which were not available) could not be studied, and there are also species, of which material could not be studied. Such unrevised species are marked with an asterisk (*).

- Frahm, J.-P. 1994.** A type catalogue of Campyloporioideae and Paraleucobryoideae (Musci, Dicranaceae), Part I. Fragmenta Floristica et Geobotanica 39(1): 85-101, 1994.
- Holmgren, P.K., Homgren, N.H., Barnett, L.C. (eds.) 1990.** Index herbariorum Part I: The herbaria of the world. 8. ed. Regnum Vegetabile 120, 693 pp., New York.

A

- abbreviatus* (Dix.) Manuel, Fed. Mus. Journ. 26:161 (1981).
 B: *Thysanomitrium abbreviatum* Dix., Bull. Torr. Bot. Club 51: 227 (1924).
 T: Malaysia, Pahang, summit of Gunong Jahan, *Ridley 1012* (isotype PC).
 CU: *C. exasperatus* (Nees & Blum) Brid. cf. Frahm, Nova Hedwigia 39:590 (1984).
- aberrans* Broth. in Skottsberg, Nat. Hist. Juan Fernandez 2(3):414 (1923).
 T: Juan Fernandez Isl., *Skottsberg 11* (lectotypus, S; isotypus H-BR).
 CU: *C. purpureocaulis* Dus. ssp. *aberrans* (Broth.) J.-P. Frahm, Bryol. Beitr. 7:63 (1987).
- abyssinicus* Schimp. in Par., Ind. Bryol. 262 (1894).
- abyssinicus* De Not., Nuov. Giorn. Bot. Ital. 4: 21 (1872) (*)
- acervatus* Mitt., J. Linn. Soc. Bot. 12:87 (1869).
 T: „America australis“, *Lobb 122* (holotype NY, isotypes C, H-BR).
 CU: *C. occultus* Mitt. cf. Frahm, Bryol. Beitr. 7:9 (1987).
- acrocaulon* (C.Müll.) Kindb., Enum. Bryin. Exot. 106 (1891).
 B: *Dicranum acrocaulon* C.Müll., Flora 71:110 (1888).
 T: Kilimandscharo 300 - 4000 m, *Meyer s.n.* (lectotypus PC).
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:143 (1985).
- acuminatus* Mitt., J. Linn. Soc. Bot. 12:90 (1869).
 T: Fuegia, Hermite Island, *Hooker s.no.* (holotype NY).
- acuminatus* Mitt var. *kirkii* J.-P. Frahm, Bryol. Beitr. 7:9 (1987).
 B: *Campylopus kirkii* Mitt. in Beck., Trans. New Zeal. Inst. 76: 280 (1894).
 OU: *C. acuminatus* var. *pilosus* J.-P. Frahm, Lindbergia 7: 30 (1981).
- acutirameus* Dix. & Thér. ex Bartr., Philipp. Journ. Sc. 68:37 (1939).
 T: Philippines: on palm roofs, Mayaygay, *Baker 3659* (isotypes NY, S)
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 6:207 (1985).
- adustus* De Not., Atti Univ. Genova 1:469 (1869)
 CU: *C. atrovirens* De Not. ssp. *adustus* (De Not.) Kindb.
- aemulans* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:444. 1872.
 B: *Thysanomitrium aemulans* Hampe, Vid. Medd. Naturh. Foer. Koenigsh. ser.3,2:273. 1870.
 T: Brazil, Rio de Janeiro, *Glaziou 3307* (isotypes, H-BR, NY, PC, S).
- aethiops* Welw. & Duby Mem. Soc. Phys. Hist. Nat. Geneve 21:221 (1870).
 T: (Angola) „Ad rupes humedas in summis jugis Pedra Songue 3800 ft.“, *Welwitsch 64* (holotype G, isotype S).
 CU: *C. aureonitens* (C. Müll.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:24 (1985).
- afroconcolor* Müll. ex Broth. Bot. Jahrb. 24:235 (1897).
 T: Type: Kamerun, „in montis Rumpi ad Jumbo pagum c. 1100m in truncis putridis, *Dusén 653* (holotype B, isotypes BM, S).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Lindbergia 8:48 (1982).
- akagiensis* Broth. & Yas., Oefv. Finsk. Vet. Soc. Foerh. 62A(9):3 (1921).
 T: Japan, Mt. Akagi, *Tannoda 300* (holotype

- H-BR).
 CU: *C. fragilis* (Brid.) B.S.G. cf. Takaki, Journ. Hatt. Bot. Lab. 30:240 (1967).
- alatus* (Broth. ex Ihs.) Iwats. & Nog., Journ. Jap. Bot. 48(7):215 (1973).
 B: *Thysanomitrion alatum* Broth. ex Ihs., Cat. Moss. Japan 33 (1929).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:601 (1984).
- albescens* (C. Müll.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:429 (1872).
 B: *Dicranum albescens* C. Müll., Bot. Zeit. 11: 36 (1853).
 T: India: Nilghiri Mtns., *Schmid s.no.* (holotype destroyed in B, lectotypus BM).
 CU: *C. zollingerianus* (C. Müll.) Bosch. & Lac. cf. Frahm, Bryol. Beitr. 7:10 (1987) = *C. fragilis* (Brid.) B.S.G. ssp. *goughii* (Mitt.) J.-P. Frahm, Trop. Bryol. 61, 1991.
- albidovirens* Herz. Biblioth. Bot. 87:19 (1916).
 T: Bolivia, Quellwiese an der Waldgrenze ber Tablas 3400 m, *Herzog 2782* (holotype JE, isotypes B, H-BR, FH, NY, S.)
- albofoliatus* J.-P. Frahm, Bryol. Beitr. 7:10 (1987) *nom. nov. pro C. laetevirens* (Broth.) J.-P. Frahm *hom. illeg.*
- albovaginatus* Borth. in Bruehl, Rec. Bot. Surv. India 13: 122 (1931), *nom. nud.*
- alienus* Dix. in Christ., Res. Norw. Sci. Exp. Tristan da Cunha 48:19 (1960)
 T: Tristan d'Acunha. *Christophersen 1188* (lectotype BM, isotype FH)
 CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *madecassus* (Besch.) J.-P. Frahm cf. Frahm, Bryoph. Bibl. 31:16 (1985).
- alleizettii* Thér. & P. Varde, Ann. Crypt. Exot. 1:279 (1928).
 T: China: Tonkin environs de Hanoi, *Alleizette 117* (holotype PC)
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Bryol. Beitr. 7: 97 (1987).
- alopecurus* (C. Müll.) Kindberg, Enum. Bryin. Exot. 88. 1889.
 B: *Dicranum alopecurum* C. Müll., Linnaea 43: 401. 1882.
 T: Type. Argentina. „Rio Secco inter Oran et S. Andres“, *Lorentz s. no.* (holotype destroyed at B; lectotypus H-BR, isotypes JE, S).
 OU: *C. annotinus* Mitt. cf. Frahm, Nova Hedwigia 30:837 (1978).
 CU: *C. heterostachys* (Hampe) Jaeg.
alopecurus (C. Müll.) Kindberg var. *bolivianus* Thér. Rev. Bryol. Lich. 11:48 (1939).
 CU: *C. bolivianus* Thér. ex J.-P. Frahm
alpestris Schimp. in Lor., Bryol. Notizb. 13 (1865) *nom. nud.*
 CU: *Dicranodontium aristatum* Schimp. cf. Milde, Bot. Zeit. 28:417 (1870).
- alpicola* (C. Müll.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:431 (1872).
 B: *Dicranum alpicola* C. Müll. Bot. Zeit. 16: 161 1858
 T: Aethiopia, in summis alpibus: *Schimper 12* (lectotypus PC).
 CU: *C. fragilis* cf. Frahm, Cryptogamie Bryol. Lich. 6:208 (1985).
- alpigena* Broth., Sitzungsber. Ak. Wiss. Wien, math.nat. Kl. 133:562 (1924) .
 T: China, Yünnan, v. *Handel-Mazetti 47* (holotype H-BR, isotype S).
 CU: *C. schimperi* Milde cf. Frahm, Cryptogamie Bryol. Lich. 3(1):63 (1982).
- alpinus* Schimp., Musci Eur. Nov. Bryol. Eur. Suppl. Campyl. 1-2:5 (1864)
 CU: *Dicranodontium denudatum* (Brid.) Hag. ssp. *alpinum* (Schimp.) Giac.
- altissimus* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:381 (1880).
 B: *Dicranum altissimum* C. Müll., Flora 58: 530 (1875)
 T: Type: Colombia, Antiquoia, *Wallis s.no.* (holotype destroyed at B, lectotypus NY, isolectotype S).
 CU: *C. jamesonii* (Hook.) Jaeg. cf. Robinson, The Bryologist 70:14 (1967).
- alto-filifolius* (C. Müll.) Par. Ind. Bryol. ed.2,1:297 (1904)
 B: *Dicranum alto-filifolium* C. Müll., Hedwigia 39: 253. (1900)
 T: Brazil, Serra Geral, *Ule 835* (holotype destroyed at B; lectotype H-BR).
 CU: *C. filifolius* (Hornsch.) Mitt. cf. Frahm, Bryoph. Bibl. 5:16 (1975) = *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm cf. Frahm, Cryptogamie Bryol. Lich. 3(4):366 (1982).
- alto-virescens* (C. Müll.) Par. Ind. Bryol. Suppl. 88 (1900)
 B: *Dicranum alto-virescens* C. Müll., Hedwigia 38: 152 (1881)
 T: Natal, Jammerlappen *Dittrich s.n.* .

- (holotype destroyed at B, lectotypus H-BR).
CU: *C. inerangae* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:173 (1926) = *C. robillardae* Besch. cf. Frahm, Bryoph. Bibl. 31:164 (1985).
- alvarezianus* Card., Trans. R. Soc. Edinburgh 48:73 (1911).
T: Gough Island: *Rudmose Brown s.no.* (holotype PC).
CU: *C. eximius* Reichdt. cf. Frahm, Bryoph. Bibl. 31:67 (1985).
- amabilis* (C. Müll.) Par., Ind. Bryol. 239 (1888).
B: *Dicranum amabile* C. Müll., Linnaea 43: 399 (1882).
T: Argentina, Cuesta de Buyuyu, *Lorentz s.no.* (holotype destroyed).
CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Lindbergia 8(1):49 (1982).
- ambiguus* Thér., Rec. Publ. Soc. Havraise Etud. Div. 1922(2):114 (1922).
T: Madagascar, Massif d'Adringitra, Perrier de la Bathie s.no. (holotype PC).
- amblyacron* (Ren.) Ren. & Card., Prodr. Fl. Bryol. Madag. Suppl. 20 (1909)
CU: *C. cambouei* var. *amblyacron* Ren.
- amboroensis* Thér., Rev. Bryol. Lich. 11: 54. 1939.
T: Bolivia, Cerro Amboro, *Herzog 273* (holotype JE; isotypes S, PC).
- ampliretis* (C. Müll.) Par., Ind. Bryol. Suppl. 88 (1900).
B: *Dicranum amplirete* C. Müll., Hedwigia 38: 81 (1899).
T: South Africa, Montagu Pass, *Rehmann 60* (holotype destroyed at B, lectotype PC).
CU: = *C. flaccidus* Ren. & Card. cf. Frahm, Nova Hedwigia 39: 591 (1984) non *C. lepidophyllus* (C. Müll.) Jaeg. cf. Sim, Trans. R. Soc. S. Afr. 15:171 (1926).
- anderssonii* (C. Müll.) Jaeg., Ber. St. Gall. Naturw. Ges. 1870-71: 436. (1872).
B: *Dicranum anderssonii* C. Müll., Bot. Zeitschr. 14: 169. (1872).
T: Ecuador, Galapagos Isl., Charles Isl., *Andersson s. n.* (holotype destroyed at B; lectotype NY; isolectotypes FH, H-SOL, S).
- andicola* Thér., Rev. Bryol. Lich. 11: 43. 1939.
T: Bolivia, Choynacota, *Herzog 2976a* (isotype JE).
CU: *C. edithae* Herz. cf. Frahm. Nova Hedwigia 39:157 (1984).
- andreas* Card. & P. Varde, Rev. Bryol. 49:37 (1922). (*)
T: India: Kodaikanal, *Andre 70* (holotype PC).
- angolensis* Mach. & Dix. Bull. Torrey Bot. Club 43:65 (1916).
T: Angola, Gambos, on the ground at 1250m alt. April 1915, *Carvalho s.n.* (holotype BM).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm Bryoph. Bibl. 31:171 (1985).
- angustelimbatus* Thér. & P. Varde, Bull. Soc. Bot. France 71:1055 (1924).
T: Usambara, mission de la Gare, *Seoul s.n.* (holotype PC).
CU: = *C. nivalis* (Brid.) Brid. cf. Frahm. Bryoph. Bibl. 7: 11, 1987
OU: *C. leucochlorus* (C. Müll.) Par. cf. Bizot & Kilbertus, Rev. Bryol. Lich. 45:85 (1979).
- angustialatus* Thér. Smiths. Misc. Coll. 85(4):2. 1931.
T: Mexico. Río Frío, *Brother Amable 1724* (holotype PC; isotypes FH, H-BR).
CU: *C. albidovirens* Herz. cf. Frahm, Lindbergia 7:29 (1981).
- angusticosta* J.-P. Frahm Bryoph. Bibl. 5:17 (1975) *nom. nov. pro C. angustinervis* Herz. *hom. illeg.*
CU: *C. viridatus* (C. Müll.) Broth. cf. Frahm, Revue Bryol. Lich. 45:166 (1979).
- angustifolius* Warnst. Hedwigia 57:81 (1915)
T: Brazil, Sao Paulo *Usteri s.n.* (holotype B)
CU: *C. pilifer* Brid. fo. *angustifolius* (Warnst.) J.-P. Frahm Rev. Bryol. Lich. 45:158 (1979).
- angustilimbatus* Bartr. Trans. Brit. Bryol. Soc. 1(4):466 (1951) *hom. illeg.*
T: Australia, Karri Forest, Pemberton, *Smith 81* (holotype FH).
CU: *C. australis* Catcheside & J.-P. Frahm.
- angustinervis* Dix. S. Afr. J. Sc. 18:303 (1922).
T: Type: „Central Africa“, *Bishop Hannington s.no.* (isotype NY).
CU: *Campylopus perpusillus* Mitt. cf. Sim, Trans. R. Soc. S. Afr. 15:180 (1926) non *Microcampylopus perpusillus* (Mitt.) Broth.
- angustinervis* Herz., Mem. Soc. Fl. Fauna Fennica 25: 54. 1954, *hom. illeg.* non Dixon

1922.
 T: Brazil, Estacao Biologica Alto da Serra, *Hoehne 528* (holotype JE; isotypes B, S)
 OU: *C. angusticosta* J.-P.Frahm nom. nov.
 CU: *C. viridatus* (C. Müll.) Broth. cf. Frahm, *Revue Bryol. Lich.* 45:166 (1979).
- angustiretis** (Aust.) Sull. & Jam., *Man. Moss. N. Am.* 80. 1884.
 B: *Dicranum angustirete* Aust., *Bot. Gaz.* 4:150. 1879.
 T: Florida, Jacksonville, *Austin s. no.* (holotype NY).
- annamensis** Par. & Broth., *Rev. Bryol.* 34:42 (1907).
 T: Annam, Langbian, ad ripa torr. Komly 1450m, *Eberhardt s.no.* (isotype S).
 CU: *C. surinamensis* C. Müll. cf. Frahm, *Cryptogamie Bryol. Lich.* 3(1):61 (1982)=?= *C. laxitextus* Lac. cf. Frahm, *Bryol. Beitr.* 7: 12 (1987).
- annotinus** Mitt., *J. Linn. Soc. Bot.* 12: 80. 1869.
 T: Colombia, „Andes Bogotenses, in sylvis prope Pacho, *Weir 214* (lectotype NY; isolectotype H-BR).
 CU: *C. heterostachys* (Hampe) Jaeg. cf. Frahm, *J. Hatt. Bot. Lab.* 44:485 (1978).
- aongstroemii** C.Müll. in Aongstr., *Oefv. K. Vet. Ak. Foerh.* 33(4):54 (1876).
 T: St. Mauritius, *Andersson s.n.* (isotype PC, lectotype S, isolectotype G).
 CU: *C. aureo-nitens* (C. Müll.) Jaeg. cf. Frahm, *Bryoph. Bibl.* 31:24 (1985).
- aoraiensis** H. Whitt., *Mosses Society Islands* 89 (1976).
 T: Tahiti, Mt. Aorai 1500m, *Whittier 2762A* (holotype indicated to be in NY but not present).
 CU: ?*C. eberhardtii* Par. cf. Frahm, *Bryol. Beitr.* 7:12 (1987)=?= *C. japonicus* Broth.
- apollinairei** Thér., *Arch. Bot.* 2(10): 187. 1928.
 T: Colombia, Bogotá, *Apollinaire s.n.* (holotype PC; isotype NY).
 CU: *C. cavifolius* Mitt. cf. Frahm, *Nova Hedwigia* 30:844 (1978).
- appressifolius** Mitt. in Hook.f., *Handb. New Zeal. Fl.* 414 (1867).
 CU: *C. clavatus* (R.Brown) Wils. cf. Sainsb., *Trans. New Zeal. Inst.* 59(3):506 (1928).
- arachnoideus** Herz., *Rep. Sp. Nov. Regn. Veg.* 21:29 (1925).
 T: Brazil, Serra dos Orgaos, Morro Assu 2400m, v. *Lützelburg 6688* (holotype JE, isotypes B,S).
 CU: *C. gemmatus* (C. Müll.) Par. cf. Frahm, *Revue Bryol. Lich.* 45:149 (1979).
- araucarieti** (C. Müll.) Par., *Ind. Bryol. Suppl.* 88. 1900.
 B: *Dicranum araucarieti* C. Müll., *Hedwigia* 39: 254. 1900.
 T: Brazil. Serra Geral, „in terra araucarieti“, *Ule 661* (lectotype, H-BR, isolectotypes FH, JE, KIEL, NY, S).
 OU: *C. filifolius* (Hornsch.) Mitt. var. *humilis* (Mont.) J.-P.Frahm cf. Frahm, *Nova Hedwigia* 29:247 (1978).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P.Frahm var. *humilis* (Mont.) J.-P. Frahm.
- arbogastii** Ren. & Card. in Ren., *Rev. de Bot.* 9:289 (1891)
 T: Madagascar, „in terra arenosa“, *Arbogast s. no.* (holotype PC, isotype G).
 CU: *C. julaceus* Jaeg. ssp. *arbogastii* (Ren. & Card.) J.-P.Frahm, *Bryoph. Bibl.* 31:109 (1985).
- arboricola** Card. & Dix., *New Zealand Inst. Bull.* 3(3): 90 1923
 T: New Zealand, Te Aroha, growing dense mats on tree trunk, *Klaud & Chase 276* (BM).
 CU: *C. purpureocaulis* cf. Frahm *Cryptogamie Bryol. Lich.* 6:205 (1985)
- archboldii** (Bartr.) Bartr. *Brittonia* 9:34 (1957)
 T: Indonesia West Irian, Jayawijaya. Mt. Wilhelmina, Lake Habbema, 3225 m. *Brass 9450* (FH)
 CU: *C. exasperatus* cf. Frahm et al., *Acta Bot. Fenn.* 131:78 (1985).
- arctocarpus** (Hornsch.) Mitt., *J. Linn. Soc., Bot.* 12: 87. 1869.
 B: *Dicranum arctocarpum* Hornsch., *Fl. bras.* 1(2): 12. 1840.
 T: Uruguay. Montevideo, *Sellow s.n.* (holotype destroyed at B; lectotype BM).
- arctocarpus** (Hornsch.) Mitt. ssp. *madecassus* (Besch.) J.P. Frahm *J. Linn. Soc. Bot.* 12: 87 (1869).
 B: *Campylopus madecassus* Besch.
- arctocarpus** (Hornsch.) Mitt. var. *caldensis* (Aongstr.) J.-P. Frahm *Fl. Neotr.* 54: 55 (1991).
 B: *Campylopus caldensis* Aongstroem,

- Öfvers Förh. Kongl. Svenska Vetensk.-Akad. 33(4): 5 (1876)
T: Brazil without locality *Widgren* s.n. (holotype S).
- arctocarpus** (Hornsch.) Mitt. fo. *strictifolius* (Broth.) J.-P. Frahm Revue Bryol. Lich. 45:138 (1979).
B: *C. strictifolius* Broth.
- arcuatus** (Brid.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71: 420 (1872).
B: *Dicranum arcuatum* Brid. Brid. Spec. Musc. 1: 212
T: „In insula Bourbonis monte excelso Piton des Neiges dicto...“, *Bory s. no.* (holotype in B-Bridel lacking, lectotypus nov. BM, isolectotype L).
- arcuatus** R. Brown ter., Trans. New Zealand Inst. 29:474 (1897) hom. illeg.
CU: *C. clavatus* (R. Brown) Wils. cf. Dixon, New Zealand Inst. Bull. 3:88 (1923)
- arduennae** Lib., Pl. Crypt. Arduenn. 106 (1831).
CU: *C. flexuosus* (Hedw.) Brid. cf. Pire & March., Bull. Soc. R. Bot. Belg. 11:7 (1872).
- arenaceum** (Broth.) J.-P. Frahm, J. Bryol. 8(2): 258. (1974).
B: *Thysanomitrium arenaceum* Broth., Denkschr. Akad. Wiss. Wien math.-nat. Kl. 83: 264. 1926.
T: Brazil, Sao Paulo, Faxina, *Schiffner 1100* (lectotype H-BR).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryol. Beitr. 7:13 (1987).
- arenarius** R. Brown ter., Trans. New Zeal. Inst. 29:475 (1897).
CU: *C. clavatus* (R. Brown) Wils. p.pte. cf. Dixon, New Zeal. Inst. Bull. 3(3):77 (1923).
- arenicola** (C. Müll.) Mitt. J. Linn. Soc. Bot. 12:77 (1869).
B: *Dicranum arenicola* C. Müll., Bot. Zeit. 13: 762 (1855).
T: Brazil, Itajahi, *Pabst* s.n. (holotype destroyed at B; lectotype BY; isolectotypes GOET, H-SOL, JE, S).
CU: *C. trachyblepharon* (C. Müll.) Mitt. cf. Frahm, Rev. Bryol. Lich. 45:164 (1979).
- areodictyon** (C. Müll.) Mitt., J. Linn. Soc. Bot. 12: 77 (1869).
B: *Dicranum areodictyon* C. Müll., Syn. Musc. 394. 1848.
T: Type. Venezuela, Prov. Mérida, Sierra Nevada 9000 ft., *Funck & Schlim 1082* (holotype destroyed in B; lectotype NY; isolectotype H-BR).
- areodictyon** Schimp. in Mandon, Pl. Boliv. n. 1612 nom. nud.
OU: *C. leucognodes* (C. Müll.) Par. cf. C. Müll., Nuov. Giorn. Bot. Ital. n.ser.4:164 (1897).
CU: *C. argyrocaulon* (C. Müll.) Broth.
- argutidens** Broth. & Par. Rev. Bryol. 34:93 (1907).
T: Guinea, Diaguise, *Pobeguin* s.n. (holotype PC).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):60 (1982).
- argutidens** Broth. & Par. var. *angustifolius* Thér. & P. Varde, Rev. Bryol. n.ser. 4: 66 (1932).
T: Gabun, entre Moumba et Mbounga, *Le Testu 3139* (holotype PC).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):60 (1982).
- argyrocaulon** (C. Müll.) Broth., Nat. Pfl. 1(3): 332. 1901.
B: *Dicranum argyrocaulon* C. Müll. Linnaea 38: 588 (1874).
T: Colombia Prov. Antioquia, Páramo de Sonson 10-20 000 ft., *Wallis s.n.* (holotype destroyed in B; lectotype H-BR).
- aristatus** Kindb. in Weim., Foert. Skand. Vaexter Moss. 2:60 (1937)
CU = *Dicranodontium asperulum* (Mitt.) Broth. cf. Weim. l.c.
- arizonae** Besch. in Ren. & Card., Rev. Bryol. 19:77 (1892) nom. nud.
- arsenei** Thér., Smiths. Misc. Coll. 78:5 (1926)
T: Mexico, Cerro Azul, *Arsene 4981* (holotype PC)
OU: *C. destructilis* (C. Müll.) Jaeg. cf. Theriot l.c. 85:2 (1931) = *C. chrismarii* (C. Müll.) Mitt. cf. Williams, N. Am. Fl. 15:136 (1913)
CU: *C. nivalis* (Brid.) Brid.
- aspericuspes** Thér. & P. Varde Rev. Bryol. Lich. 6:136 (1934).
T: „Africa trop. occ., Gabo, prope Assoc Ngoum, *Le Testu*, *Musci selecti et critici* 9 (isotypes S,U,L,NY).
CU = *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 3:60

- (1982).
asperifolius Mitt., J. Linn. Soc. Bot. 12: 79. 1869.
 T: Ecuador. Abitagua 7000 ft., *Spruce 54* (lectotype PC; the original material in the Mittenherbarium, NY, is lacking).
 OU: *Dicranodontium asperifolium* (Mitt) Broth., Nat. Pflanzenfam. ed. 2, 10: 190 (1924).
asperulus (Mitt.) Kindb., Bih. K. Svensk Vet. Ak. Handl. 7:88 (1883)
 CU: *Dicranodontium asperulum* (Mitt.) Broth.
assimilis Thér. & P. Varde Rev. Bryol. n. ser.1:89 (1928).
 T: Gabun, propre Nzamalen, *Le Testu 309* (isotypes L,U).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):60 (1982).
atlanticus B.H. Allen, The Bryologist 9: 447 (1990).
 T: Panama, Bocas del Toro, *Allen 5713* (holotype MO, isotype PMA).
atratus Bartr., Contr. U.S.Nat. Herb. 26:61 (1928) hom. illeg.
 T: Costa Rica, Cerro de las Vueltas 3000m, *Standley 43686* (holotype, FH; isotypes H-BR, S).
 CU: *C. paramoensis* Bowers nomen novum, Bryologist 77(2): 152 (1974).
atratus Broth., Trans. Linn. Soc. Bot. ser. 2,6: 89. 1900.
 T: Venezuela, Mt. Roraima, *McConnell & Quelch 527* (holotype H-BR; isotypes K, NY, S)
 CU: *C. richardii* Brid. cf. Frahm, Nova Hedwigia 39:598 (1984).
atratus Schimp. in C. Müll., Gen. Musc. Fr. 265 (1900) nom. nud.
atruscescens Bartr. Contr. U.S.Nat. Herb. 37:155 (1965)
 T: Papua New Guinea. Simbu, east slopes of Mt. Wilhelm 13100 ft, *J.D. Collins 29941* (holotype FH).
 CU: *C. macgregorii* Broth. & Geh. cf. Frahm et al., Acta Bot. Fenn. 131:82 (1985).
atro-luteus (C. Müll.) Par. Ind. Bryol. Suppl. 89 (1900)
 B. *Dicranum atroluteum* C. Müll., Hedwigia 38: 80 (1899).
 T: Cape Town, *Rehmann 63* (lectotypus nov., PRE, isolectotypes BOL, G, H-BR, H-SOL, L, NH, NY, PC).
 CU: *C. bicolor* (C. Müll.) Wils. in Hook. f. ssp. *atroluteus* (C. Müll.) J.-P. Frahm Bryoph. Bibl. 31:37 (1985).
atrosordidus C. Müll. ex Broth. Bot. Jahrb. 24:233 (1897).
 T: Kamerun, supra Bueam pagum inter 2100 et 3000m. *Dusen 347* (lectotype. NY, isotypes PC, S, BM, G).
 CU: *C. pilifer* Brid. cf. De Sloover, Bull. Jard. Bot. Nat. Belg. 51:228 (1981).
atrovirens De Not., Syll. Musc. Ital. 221 (1838).
 T: Italy in valle Intrasca, *de Notaris s.n.* (lectotype RO).
atrovirens De Not. var. *cucullatifolius* J.-P. Frahm, Bryologist 83: 574 (1980).
 T: USA, Alaska, Washington Bay, Kuju Island, *Eyerdam 5269* (holotype DUKE).
attenuatus (Stirt.) Dix. J. Bot. 61:14 (1923)
 CU: *C. brevopilus* B.S.G. fid. Dix. l.c.
attenuatus Schimp. in Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:444 (1872) nom. nud.
aubertii (Bel.) Thér. in Broth., Nat. Pfl. ed.2,10:187 (1924)
 CU: *C. cf. hildebrandtii* (C. Müll.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:198 (1985).
aureonitens (C. Müll.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:435 (1872).
 B: *Dicranum aureonitens* C. Müll. Syn. Musc. 1:406 (1948).
 T: „Insula Bourbonis“ *Bory St. Vincent s.n.* (holotype destroyed at B, lectotypus nov. S, isolectotype G).
aureonitens ssp. *recurvifolius* (Dus.) J.-P. Frahm, Bryol. Beitr. 7:14 (1987).
 B: *Campylopus recurvifolius* Dus.
aureo-viridis (C. Müll.) Schimp. ex Par., Ind. Bryol. Suppl. 89 (1900)
 B: *Dicranum aureo-viride* C. Müll., Hedwigia 38: 85 (1899)
 T: Südafrika, Gnadenthal, *Breutel s.n.* (lectotype PC)
 CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryoph. Bibl. 31:160 (1985).
 OU: *C. atroluteus* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:178 (1926).
aurescens Stirt., Ann. Scott. Nat. Hist. 8:104 (1899).
 CU: *C. brevopilus* B.S.G. var. *auriculatus* Dix.

- cf. Dixon, J. Bot. 61:15 (1923).
aureus Bosch & Lac., Bryol. Jav. 1:80 (1858).
 T: Indonesia, Java, Mandalawagie 9200'
Junghuhn s.n. (lectotype L).
 CU: *C. schmidii* (C. Müll.) Jaeg. cf. Frahm,
 Bryol. Beitr. 7:15 (1987)
- auribrunneus*** (C.Müll.) Broth., Nat. Pfl.
 1(3):332. 1901.
 B: *Dicranum auribrunneum* C.Müll.,
 Hedwigia 39:260. 1900.
 T: Brazil, Goyaz, Serra de Balisa, *Ule 1533*
 (holotype destroyed at B; lectotype PC).
 CU: *C. aemulans* (Hampe) Jaeg. cf. Frahm,
 Revue Bryol. Lich. 45:135 (1979).
- auriculatus* Wils. in MacKinlay, Proc.Nat. Hist.
 Soc. Glasgow 1:91 (1869).
 OU: *C. schwarzii* Schimp. fid. MacKinlay l.c.
 CU: *C. gracilis*.
- aurificus* (C. Müll.) Kindb., Enum. Bryin. Exot.
 88 (1889).
 B: *Dicranum aurificum* C. Müll., Linnaea 43:
 399 (1882).
 T: Argentina uruguensis, in collibus
 australibus, *Lorentz s.n.* (lectotypus C).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm,
 Revue Bryol. Lich. 42:899 (1976).
- australiensis* Duby, Mem. Soc. Phys. Hist. Nat.
 Geneve 20:259 (1870)
 T: Australia, without locality (isotype S).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm,
 Cryptogamie Bryol. Lich. 3(1):64 (1982).
- australis*** Catcheside & J.-P. Frahm, J.Bryol. 13:
 360 (1985). nom. nov. pro *C. angustilimbatus*
 Bartr.
- austro-alpinus*** (C. Müll.) Kindb. Enum. Bryin.
 Exot. 88 (1889).
 B: *Dicranum austro-alpinum* C. Müll.,
 Linnaea 43: 378 (1882).
- austrotramineus*** Thér., Bull. Soc. Linn. Seine
 Marit. 11: 103 (1924).
 T: Kerguelen, Baie au Nord du Cap Dauphin,
Peau 16 (holotype PC).
- austrosubulatus*** Broth. & Geh., Öfv. Finska Vet.
 Soc. Förhandl. 37: 154 (1895).
 T: Papua N.G., Milne Bay, Mt. Musgrave, *W.*
Macgregor 345 (holotype H-BR).
- azoricus* Mitt. in Godm., Nat. Hist. Azores 292
 (1870).
 T: Azores, St. Miguel, *Godman s.n.* (holotype
 NY).
 OU: *C. flexuosus* (Hedw.) Brid. var. *azoricus*
 (Mitt.) Thér., *C. pyriformis* (Schultz) Brid.
 var. *azoricus* (Mitt.) A.J.Smith.
 CU: : *C. pyriformis* (Schultz) Brid. cf. Corley
 & Frahm, J. Bryol. 12:190 (1982).

B

- balanseanus* Besch., Ann. Sci. Nat. Bot. ser. 5,
 18: 199 (1873), *C. balansae* Besch. ex Kindb.
 Enum. Bryin. Exot. 49 (1888).
 T: „Nouvelle-Caledonie, Noumea, ad
 truncos“ *Balansa 749* (holotype PC, isotype
 S) introflexus
 OU: *C. aureus* Bosch & Lac. cf. Fleisch.,
 Musci Fl. Buitenzorg 1:110 (1904).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm,
 Nova Hedwigia 34:393 (1981).
- barbuloides* Broth. in Bruehl, Rec. Bot. Surv.
 India 13(1):123 (1931) nom. nud.
 M: NW Himalaya, Mussoorie, Dhanaulti
 7000 ft., on ground, *Singh 3698* (S).
 CU: *C. subulatus* Schimp. cf. Frahm,
 Cryptogamie Bryol. Lich. 3(1):64 (1982).
- bartlettii* Bartr., J. Wash. Ac. Sc. 22:477 (1932)
 T: Honduras, *Bartlett 12973* (holotype FH;
 isotypes DUKE, F, MICH, NY, S).
 OU: *C. savannarum* (C. Müll.) Mitt. ssp.
bartlettii (Bartr.) Florsch. Mosses of
 Suriname 79 (1964).
 CU: *C. savannarum* mod. *bartlettii*.
- bartramiaceus* (C. Müll.) Thér. in Broth. Nat. Pfl.
 ed. 2, 10: 185 (1924) hom. illeg.
 B: *Dicranum b.* C. Müll. Hedwigia 38: 86
 1899
 T: Cape Town, *Rehmann 37* (lectotype BM).
 OU: *Dicranum leucobasis* C. Müll. Hedwigia
 38:78 (1899) var. *bartramiaceus* C. Müll.),
C. subbartramiaceus Rehm. in sched.,
 CU: *C. introflexus* (Hedw.) Brid. cf. Sim,
 Trans. R. Soc. S. Afr. 15:171 (1926).
- bartramiaceus* (C. Müll.) Thér. var. *laevis* P.
 Varde & Thér. Bull. Soc. Bot. France 87: 353
 ()
 T: Congo bel. Kivu, volcan Mukavura,
Humbert 7528 (holotype PC)
 CU: *C. nivalis* (Brid.) Brid.
- bartramiaceus* (C. Müll.) Par., Ind. Bryol. 240
 (1900).
 OU: *C. bartramiaceus* (C. Müll.) Dix. &
 Gepp. Bull. Misc. Inf. Kew 1923:197 (1923)

- sensu Index Muscorum, non *C. atroluteus* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:171 (1926), Frahm, Revue Bryol. Lich. 42:613 (1976), non *C. stramineus* cf. Bizot & Kilbertus, Revue Bryol. Lich. 45:94 (1979), excl. var. *laevis* P. Varde & Thér. Bull. Soc. Bot. France 87:353 (1940).
CU: *C. nivalis* (Brid.) Brid. cf. Frahm, Bryoph. Bibl.31:35 (1985).
- bartramioides* Broth. in Whitel., Proc. Linn. N.S.Wales 7:277 (1882) nom. nud.
CU: *Dicranoloma bartramioides* (Broth.) Par.
- basalticolus* (C. Müll.) Par. Ind. Bryol. 89 (1900)
B: *Dicranum basalticum* C. Müll., Hedwigia 38: 82 (1899).
T: Cape, Somerset-East, Boschberg, MacOwen s.n. (lectotype BM).
OU: *Campylopus chlorophyllosus* (C. Müll.) Jaeg. cf. Sim, Trans. R. Soc. S. Afr. 15:177 (1926), *C. subchlorophyllosus* cf. Magill, Fl. S. Afr. Bryoph. 1(1):146 (1981).
CU: *Sphaerothecium subchlorophyllosum* (C. Müll.) J.-P. Frahm.
- batjanensis* Broth. in Warb., Monsunia 1:42 (1899).
CU: *Dicranodontium uncinatum* (Harv.) Jaeg. cf. Fleisch., Musci Fl. Buitenzorg 1:89 (1904).
- beauverdianus* Thér., Bull. Soc. Bot. Geneve 26:78 (1936).
- belangeri* Thér. Bull. Mus. Hist. Nat. Paris 34:115 (1928). (*)
T: „Ins. Ascensionis, ex dono cl. Belanger“.
- bellii* R. Brown ter., Trans. New Zeal. Inst. 29:469 (1897).
OU: *C. capillatus* Hook.f. & Wils. cf. Dix., New Zealand Inst. Bull. 3(3):86 (1923), *C. pallidus* Hook.f. & Wils. cf. R. Soc. N. Zealand Bull 5:116 (1955).
CU: *C. pyriformis* (Schultz) Brid.
- benedictii* Herz. Beih. Bot. Centralbl. 36:50 (1910).
T: Type. Bolivia, Cochabamba, Abra de San Benito, Herzog s. n. (holotype JE; isotype S).
OU: *C. ptychotheca* Herz. cf. Frahm, Nova Hedwigia 39:161 (1984).
CU: *C. reflexisetus* (C. Müll.) Broth. cf. Frahm, Bryol. Beitr. 7: 17 (1987).
- bequaertii* Thér. & Nav. Bull. Soc. R. Bot. Belg. 60:17 (1927).
T: Zaire, Ruwenzori, Butagu, *Bequaert* 4974 (holotype PC).
CU: = *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Lindbergia 8(1):48 (1982).
- bermudianus* Williams in Britton, J. New York Bot. Garden 13: 193. 1913.
T: Bermuda, Paget Marsh, *Brown* 651 (holotype NY; isotypes CANM, DUKE)
CU: *C. trachyblepharon* cf. Frahm, Herzogia 5:518 (1981).
- berteroanus* Duby, Flora 58:282 (1875).
HS: *C. berteroi* Duby ex Kindb., Enum. Bryin. Exot. 49 (1888).
T: Juan Fernandez Is., *Betero* s.n. (holotype G, isotype S).
CU: *C. introflexus* (Hedw.) Brid. cf. Thér., Rec. Publ. Soc. Havraise Etud. Div. 88:30 (1921).
- bertramii* Hampe in Limpr., Laubm. Deutschl. 1:375 (1886) nom. nud.
CU: *Paraleucobryum longifolium* (Hedw.) Loeske var. *subalpinum* (Milde) Cas. Gil. cf. Limpr. l.c.
- bessonii* Ren. & Card. in Ren., Rev. de Bot. 9:397 (1891).
T: Madagascar, Fianarantsoa - Betsileo, *Besson* s.n. (holotype PC).
OU: *C. polytrichoides* De Not. var. *bessonii* (Ren. & Card.) Ren. & Card.
CU: *C. pilifer* Brid. ?var. *lamellatus* (Mont.) Gradstein & Sipman.
- bewsii* Sim Trans. R. Soc. S. Afr. 15:176 (1926).
T: Natal, Knoll, Hilton Road, *Sim* 9838 (lectotype L).
CU: *C. pilifer* Brid. cf. Magill, Fl. S. Afr. Bryoph. 1(1):152 (1981).
- beyrichianus* Duby, Mem. Soc. Phys. Hist. Nat. Geneve 20:359 (1870).
HS: *C. beyrichii* Duby ex Kindb. Enum. Bryin. Exot. 49 (1888).
T: „E-Brasilia“, hb Duby (holotype G).
CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 17 (1987).
- bicolor* (C. Müll.) Wils. in Hook. f., Fl. Nov. Zel. 2:69 (1854).
B: *Dicranum bicolor* Hornsch. ex C. Müll., Syn. Musc. 1: 392. (1848).
T: Nova Hollandia, *Sieber* 9.
- bicolor* (C. Müll.) Wils. ssp. *atroluteus* (C. Müll.) J.-P. Frahm, Bryophytorum Bibliotheca, 31: 37 (1985).

- B: *Dicranum atroluteum* C. Müll., Hedwigia 38: 80 (1899).
 OU: *Campylopus atro-luteus* (C. Müll.) Par. Ind. Bryol. Suppl. 89 (1900).
 T: Cape Town, *Rehmann 63* (lectotypus nov., PRE, isolectotypes BOL, G, H-BR, H-SOL, L, NH, NY, PC).
 CU: *C. bicolor* s.str.
- bicolor*** (C.Müll.) Wils. var. ***ericetica*** (C. Müll.) Dix., New Zealand Inst. Bull. 3: 87 (1923).
 B: *C. ericetica* C. Müll., Abh. Naturw. Ver. Bremen 16(3):496 (1900)
- birgeri*** Card., Bull. Herb. Boiss. ser.2,5:1000 (1905).
 T: Islas Malwinas, *Birger 207* (isotype S).
 CU: *C. acuminatus* Mitt. cf. Frahm, Bryol. Beitr. 7: 17 (1987).
- blindiaceus*** C. Müll. Gen. Musc. Fr. 274 (1900) nom. nud.
- blindioides*** Broth. in Skottsberg., Nat. Hist. Juan Fernandez 2(3):416 (1924).
 T: Juan Fernandez, Masafuera, *Skottsberg 60* (H-BR).
 CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 17 (1987).
- blumei*** (Dozy & Molk.) Bosch & Lac., Bryol. Jav. 1:81 (1858).
 B: *Trichostomum blumei* Dozy & Molk., Ann. Sc. Nat. Bot. ser. 3,2: 316 (1844).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Revue Bryol. Lich. 42:905 (1976).
 OU: *C. richardii* Brid. cf. Dixon, J. Bot. 60:289 (1922). *Thysanomitrion blumei* Card. Annuaire. Cons. Jard. Bot. Geneve 15-16: 161 (1912)
- bogotensis*** Thér., Rev. Bryol. Lich. 11:60 (1939).
 CU: *Sphaerothecium phascoideum* (Hampe) Williams cf. Robinson, The Bryologist 70:11 (1967).
- boivinianus*** Besch., Ann. Sci. Nat. Bot. ser 6, 9: 319 (1880).
 T: Ile Maurice, *Boivin 89* (B,S).
 HS: *C. boivini* Besch. ex Kindb. Enum. Bryin. Exot. 88 (1889).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):63 (1982).
- bolivianus*** Theriot ex J.-P. Frahm, Lindbergia 7: 28 (1981).
 T: Bolivia, Sillunticava, Yungas de la Paz, *Troll 122 a* (holotype PC, isotype JE).
- CU: *C. oblongus* Thér. cf. Frahm, Bryol. Beitr. 7: 18 (1987).
- bolivarensis*** Bartr., Fieldiana Bot. 28: 4 (1951).
 T: Venezuela, Bolivar: Mt. Roraima, *Steyermark 58895* (lectotype FH; isotype F).
 CU: *C. cuspidatus* (Hornsch.) Mitt. cf. Frahm, J. Hatt. Bot. Lab. 44:485 (1978).
- boryanus*** Besch. Ann. Sc. Nat. Bot. ser 5, 9: 319 1880 Reunion Plaine des Chicots Bory s.n. PC *nivalis*
- boryanus*** Besch., Ann. Sc. Nat. Bot. ser. 6,9:319 (1880).
 HS: *C. boryi* Besch. ex Kindb. Enum. Bryin. Exot. 88 (1889).
 T: Bourbon, Plaine des Chicots, *Bory* (holotype PC).
 CU: *C. chrismarii* (C. Müll.) Mitt. cf. Frahm, Lindbergia 8(1):46 (1982) = *C. nivalis* (Brid.) Brid.
- boswellii*** (C. Müll.) Par. Ind. Bryol. Suppl. 89 (1900).
 B: *Dicranum boswellii* C. Müll., Flora 82: 442 (1896).
 T: Hawaii, without locality, *Wheeler s.n. 1879*, *Boswell s.n.* (syntypes, could not be located).
 CU: *C. fragilis* (Brid.) B.S.G. ssp. *zollingerianus* (C. Müll.) J.-P. Frahm cf. Frahm, Trop. Bryol. 4: 61, (1991).
- brachymastix*** C. Müll. ex Besch. Ann. Sc. Nat. Bot. ser. 6,9:324 (1880).
 T: Ile Maurice, *Robillard s.n.* (holotype PC, isotype S).
 OU: *C. virescens* Besch. cf. Card. in Grand., Hist. Madag. 39:112 (1915).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):63 (1982).
- brachymitrius*** (Geh. & Hampe) Kindberg, Enum. Bryin. Exot. 88. (1889).
 B: *Dicranum brachymitrium* Geheeb & Hampe, Flora 64: 343. 1881.
 T: Brazil, Apiahy, *Puiggari 331* (lectotype, H-BR).
 CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 45:155 (1979).
- brachyphyllulus*** (C. Müll.) Broth., Nat. pfl. 1(3):332 (1901).
 B: *Dicranum brachyphyllulum* C. Müll., Hedwigia 39: 260 (1900).
 T: Brasilien, Minas Geraes, Caraca, ad rupes,

- Ule 1360* (lectotype PC).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 2(4):444 (1981).
- brachyphyllus* C. Müll. in Par. Ind. Bryol. 261 (1894) nom. nud., hom. illeg.
 M: Cameroun, Mont Rumpi 1800m, *Dusén s.n.* (H-BR, PC-Thér., S).
 OU: *C. subbrachyphyllus* Par. nom. nud.
 CU: *C. nanophyllus* C. Müll. ex Broth. cf. Frahm, Bryol. Beitr. 7: 18 (1987).
- brachyphyllus* C. Muell. in Par. Ind. Bryol. 261 (1894) nom. nud., hom. illeg.
- brachyphyllus* Wils. ex Mitt. J. Linn. Soc. Bot. 12:81 (1869).
 T: Andes Quitenses, *Jameson 28* (holotype NY, isotypes B, BM).
 OU: *C. rosulatus* (Hampe) Mitt. cf. Robinson, The Bryologist 70:20 (1967).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Bryol. Beitr. 7: 18 (1987).
- brachythysanos* (C. Müll.) Par., Ind. Bryol. Suppl. 89 (1900).
 B: *Dicranum brachythysanum* C. Müll., Hedwigia 36: 97 (1897).
 T: Uruguay, Montevideo, *Arechavaleta s. no.* (holotype destroyed at B; lectotype NY).
 CU: *C. occultus* Mitt. cf. Frahm, Lindbergia 7:31 (1981).
- brasiliensis* Broth., Hedwigia 38 Beibl. 1:58 (1899) nom. nud.
 M: Ule, Bryotheca bras. 109.
 OU: *Dicranum brasiliense* C. Müll., Bull. Herb. Boiss. 6: 39 (1898).
 CU: *Atractyllocarpus brasiliensis* (C. Müll.) Williams cf. Frahm, Cryptogamie Bryol. Lich. 2(4):444 (1981).
- brassii* Bartr. Farlowia 4:236 (1952).
 T: Australia, Queensland, Cape York, *Brass s.n.* (holotype FH).
 CU: *C. robillardaei* Besch. var. *perauriculatus* (Broth.) J.-P. Frahm Bryol. Beitr. 7: 89 (1987).
- brevifolius* Roell in Limpr., Laubm. Deutschl. 1:393 (1897) nom. nud.
 CU: *C. paradoxus* Wils cf. Limpr. l.c. = *C. flexuosus* (Hedw.) Brid. cf. Hagen, K.Norsk. Vid. Selsk. Skrift. 1914(1):75 (1915).
- brevifolius* Schimp., Musci Eur. Nov. Bryol. Eur. oSuppl. fasc. 1-2, 4:2 (1864).
 T: Italien, Südtirol, Meran, *Lorentz*.
 CU: *C. subulatus* Schimp. cf. Braithw., Brit. Moss Fl. 1:130 (1882).
- brevipilus* B.S.G. Bryol. Eur. 1:167 (1847).
 T: „Prope Fontainebleau praecedenti (*C. longipilus*) intermix...*Alex. Braum* (isotype B).
brevipilus var. *marginatulus* (Geh.) Thér. in Pers. Pers. Bot. Not. 1939: 570 (1939).
 B: *Campylopus marginatulus* Geh.
 CU: *Ditrichum punctulatum*.
- brevirameus* Dix., Ann. Bryol. 2:6 (1929).
 T: Seychelles, Mahé, *Delarié s.n.* (S, PC).
 CU: *C. pilifer* Brid. x *C. introflexus* (Hedw.) Brid. cf. Frahm, Bryoph. Bibl. 31:149 (1985).
- brevis* Rehm. in Geh., Rev. Bryol. 5:69 (1878) nom. nud.
 T: Cape, Stinkwater, *Rehmann 44* (L, PC).
 OU: *C. atroluteus* (C. Müll.) Par. cf. C. Müll., Hedwigia 38:81 (1899).
 CU: *C. bicolor* (C. Müll.) Wils. in Hook. ssp. *atroluteus* (C. Müll.) J.-P. Frahm.
- breweri* Bartr., Bol. Soc. Venez. Ci. Nat. 25: 47. (1963).
 T: Venezuela, Merida, Sierra de la Culata, *Brewer s.n.* (holotype FH; isotype VEN).
 CU: *C. areodictyon* (C. Müll.) Mitt. cf. Frahm, Bryol. Beitr. 7: 19 (1987).
- brittonae* Williams, N. Am. Fl. 15:141 (1913).
 T: Jamaica, Summit of St. John's Peak, *Britton 1909* (holotype NY, isotypes DUKE, FH, H, S).
 CU: *C. shawii* Wils. cf. Frahm, J. Bryol. 13:329 (1985).
- brotherianus* Par., Ind. Bryol. Suppl. 89 (1900) nom. nud.
 T: homotypic with *C. procerus*.
 OU: *C. praealtus* (C. Müll.) Par. cf. Broth., Denkschr. Akad. Wiss. Wien Math. Nat. Kl. 83:260 (1926).
 CU: *C. subcuspidatus* (Hampe) Jaeg.
- brownii* Par., Ind. Bryol. Suppl. 90 (1900).
 CU: *C. clavatus* (R. Brown) Wils. cf. Dixon, New Zeal. Inst. Bull. 3(3):88 (1923).
- brownii* Par., Ind. Bryol. Suppl. 90 (1900).
- brunneo-bolax* (C. Müll.) Broth., Nat. Pfl. 1(3):333 (1901) nom. nud.
 OU: *C. stricticaulis* (C. Müll.) Par. cf. Frahm, Revue Bryol. Lich. 42:903 (1976).
 CU: *C. aemulans* (Hampe) Jaeg. cf. Frahm,

- Revue Bryol. Lich. 45:135 (1979).
brunneus (C. Müll.) Par. Ind. Bryol. Suppl. 90 (1900).(*)
bryhnii Broth., Nat. Pfl. ed.2,10:188 (1924).
 T: Natal, Zululand, Ekombe, *Titlestad s.n.* (holotype H-BR).
 OU: *C. inchangae* cf. Magill, Fl. S. Afr. Bryoph. 1(1):146 (1981).
 CU: *C. nanophyllus* C. Müll. ex Broth. cf. Frahm, Bryoph. Bibl. 31:122 (1985).
- bryotropii*** J.-P. Frahm Nov Hedwigia 39: 152, (1984).
 T: Peru, Dep Ancash, Cordillera Blanca Laguna, Llanganuco 3850m, *Frahm 825118* (holotype B; isotypes C, EGR, F, FLAS, G, GRO, GZU, H, HBG, KR, KRA, M, MEXU, NAM, NFLD, NY, PC, S, U, UPS, USM).
- buchtienii* Thér., Rev. Bryol. Lich. 11:53 (1939).
 T: Bolivien, Casana im Tipuanital, 1400m, *Buchtien 265* (isotypes B, JE).
 CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Bryol. Beitr. 7: 19 (1987).
- ## C
- cacti* (C. Müll.) Kindb. Enum. Bryin. Exot. 88 (1889).
 B: *Dicranum cacti* C. Müll., Linnaea XLIII: 403 (1882).
 T: Uruguay, Concepcion, Lorentz s. no. (holotype destroyed at B; lectotype BM; isolectotypes JE, PM, S).
 CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 42:902 (1976).
- cacuminis* (C. Müll.) Par., Ind. Bryol. Suppl. 90 (1900).
 B: *Dicranum cacuminis* C. Müll., Hedwigia 37: 227 (1898).
 T: Jamaica, Blue Mtns. Peak, *Hansen s.n.* (holotype destroyed at B).
 CU: *C. cygneus* (Hedw.) Brid. cf. Thériot, Mem. Soc. Cubana Hist. Nat. 13:215 (1939).
- caducipilus* Besch. in Par. Ind. Bryol. Suppl. 90 (1900) nom. nud.
 CU: *C. bicolor* (C. Müll.) Wils. cf. Fleisch., Musci Fl. Buitenzorg 1:115 (1904).
- caespiticius* Brid., Mant. Musc. 77 (1819).
 CU: *Grimmia caespiticia* (Brid.) Brid.
- caespitosus* (Mitt.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:434 (1872).
 CU: *Dicranodontium caespitosum* (Mitt.) Par.
- cagnii* Negri, Annali Bot. 7. 162 (1908).
 T: „in monte Rewenzori in valle Lacuum ca. 4000 m ad radices..“
 CU: *C. leucochlorus* (C. Müll.) Par. cf. Frahm, Bryoph. Bibl. 31:115 (1985).
- cailleae* Ren. & Card., Bull. Soc. R. Bot. Belg. 32: 102 (1894).
 T: Madagaskar, Nassi Comba, *Caille s.n.* (PC).
 CU: *C. perpusillus* Mitt. cf. Frahm, Bryoph. Bibl. 31:175 (1985).
- caldensis* Angstr., Oefv. K. Vat. Ak. Foerh. 33(4):5 (1876).
 T: Brazil, without locality, *Widgren s.no.* (holotype S).
 CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *caldensis* (Angstr.) J.-P. Frahm
- calochlorus* Broth. & Thér. Bull. Mus. Hist. Nat. Paris 30:239 (1924).
 T: “British East Africa“, Foret de Lamorie, *LePetit s.n.* (PC).
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:143 (1985).
- calodictyon* Broth., Leafl. Philipp. Bot. 2:651 (1909).
 T: „Philippines, Negros, Apr. 1908 nr. 9745“ (holotype H-BR).
 CU: *C. laxitextus* Lac. cf. Frahm, Bryol. Beitr. 7: 87 (1987).
- calvatus* Dix. in Luis., Broteria Cienc. Nat. 8: 46 (1939).
 T: Tristan da Cunha, *Milne s.n.* (isotype NY).
 OU: *C. atroluteus* cf. Frahm, Herzogia 5: 521 (1981).
 CU: *C. pyriformis* (K.F. Schultz) Brid. cf. Frahm, Bryoph. Bibl. 31: 160 (1985).
- calvus* Ren. & Card., Bull. Soc. R. Bot. Belg. 33(2):111 (1895).
 T: Madagascar, Betsileo, Ambohimatsara, sur terre humide, un peu tourbeuse, *Berthieu s.n.* (holotype PC).
 CU: *C. aureus* Bosch & Lac. cf. Frahm, Bryoph. Bibl. 31:30 (1985) = *C. schmidii* C. Müll.
- calymperidictyon* (Geh. & Hampe) Kindb., Enum. Bryin. Exot. 88 (1889).
 B: *Dicranum calymperidictyon* Geheeb & Hampe, Flora 64: 342 (1881).
 T: Brazil, Sao Paulo, Apiahy, *Puiggari 250* (isotypes FH, S).

- CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 45:155 (1979).
- cambodgensis* Thér., Rev. Bryol. n.ser. 2:17 (1929).
T: Cambodge, N de Kampot, rocher 800 m, *Porlane s.n.* (1928) (isotype BM).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryol. Beitr. 7: 20 (1987).
- cambouei*** Ren. & Card. in Ren., Rev. de Bot. 392 (1891).
T: Madagascar, près du lac d'Ambohipo, *Camboue s.n.* (holotype PC).
- campiadelpus* (C. Müll.) Par. Ind. Bryol. ed.2,1:301 (1904).
B: *Dicranum campiadelpum* C. Müll., Hedwigia 39: 252 (1900).
CU: *C. canaliculatus* cf. Frahm, Revue Bryol. Lich. 45:140 (1979) = *C. pyriformis* (Schultz) Brid.
- campoanus* Thér., Rev. Chil. Hist. Nat. 22:81 (1918).
T: Chile, Victoria, *Campo s.n.* (isotype H-BR).
CU: *C. modestus* Card. cf. Frahm, Bryol. Beitr. 7: 20 (1987).
- canadensis* Kindb., Rev. Bryol. 32:35 (1905).
CU: *Paraleucobryum longifolium* (Hedw.) Loeske cf. Grout, Moss Fl. N. Am. 2:95 (1937).
- canaliculatus* (Geh. & Hampe) Kindb. Enum. Bryin. Exot. 88 (1898).
B: *Dicranum canaliculatum* Geh. & Hampe, Vid. Medd. Naturh. Foer. Kjoeben. ser. 4,1: 92 (1879).
T: Brasilia, prope Apiahy, *Puiggari s.n.* (isotype PC).
OU: *C. pallidus* cf. Frahm, Rev. Bryol. Lich. 45:140 (1979).
CU: *C. pyriformis* (Schultz) Brid.
- canariensis* Schimp. in Geh. & Herz., Biblioth. Bot. 73:28 (1910) nom. nud.
- canescens* (C. Müll.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:435 (1872).
B: *Dicranum canescens* C. Müll. Bot. Zeit. 17: 220 (1859).
T: Falkland Inseln, *Lechler 90* (isotype JE).
CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Nova Hedwigia 30:847 (1978).
- canescens* (C. Müll.) Jaeg. fo. *perincanus* (C. Müll.) J.-P. Frahm, Rev. Bryol. Lich. 42: 903 (1976).
- canescens* Wils., Kew J. Bot. 9:298 (1857) nom. nud.
- capensis* Broth., Nat. Pfl. ed.2,10:188 (1924).
OU: *C. chlorotrichus* (C. Müll.) Par. cf. Sim. Trans. R. Soc. S. Afr. 15:173 (1926) = *C. stenopelma* (C. Müll.) Par. = *C. controversus* (Hampe) Jaeg.
CU: *C. thwaitesii* (Mitt.) Jaeg.
- capensis* Schimp. in Mitt., J. Linn. Soc. Bot. 12:64 (1869) nom. nud.
HS: *capensis* Schimp. in Par. Ind. Bryol. 242 1894 nom. nud.
M: „S. Afr., auf Sandboden Br(eutel) legit“(NY).
OU: *C. lepidophyllus* (C. Müll.) Jaeg. cf. Par., Ind. Bryol. 242 (1894).
CU: *C. introflexus* (Hedw.) Brid.
- capillaceus* (Brid.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:429 (1872) hom. illeg.
- capillaceus* Hook. f. & Wils. London J. Bot. 3:543 (1844). (*)
- capillatus* Hook.f. & Wils., Fl. Tasman. 2:172 (1859).
T: Tasmania, *Weymouth s.n.* (isotype S).
OU: *C. pallidus* Hook.f. & Wils. cf. Sainsb., R. Soc. New Zeal. Bull. 5:116 (1955).
CU: *C. pyriformis* (Schultz) Brid.
- capitiflorus* Mont. Syll. 42 (1856).
B: *Dicranum capitiflorum* C. Müll. Syn. Musc. 2: 598 (1851).
T: Reunion, Ile Bourbon, *Richard 682* (holotype PC).
CU: *C. arcuatus* (Brid.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:19 (1985).
- capitiflorus* Mont. var. *pachycomus* Besch. Ann. Sci. Nat. Bot. ser. 6, 9: 322 (1880).
CU: *C. arcuatus* (Brid.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:19 (1985).
- capitulatus*** Bartr., Bull. Brit. Mus. (Nat. Hist.) Bot. 2: 52. (1955).
T: Ecuador. Chaupi-Sagcha, Pululagua, on a stump, *Bell 591* (holotype, FH; isotype BM).
- caracasanus* (C. Müll.) Par. Ind. Bryol. 242 (1894).
T: Venezuela, Fendler 36 (holotype destroyed at B; lectotype NY; isotype S).
OU: *Thysanomitrium caracasenum* C. Müll., Linnaea 42: 471 (1879).
CU: *C. richardii* Brid. cf. Frahm, Revue

- Bryol. Lich. 42:603 (1976).
carassensis (Broth.) Par., Ind. Bryol. 242. 1894.
- B: *Thysanomitrion carassensis* Broth., Act. Soc. Sc. Fenn. 19(5): 9 (1891).
 T: Brazil, Minas Gerais, Caraca, *Wainio s. n.* (holotype, H-BR; isotypes FH, JE, S).
 CU: *C. cuspidatus* (Hornsch.) Mitt. cf. Frahm, Revue Bryol. Lich. 45:142 (1979).
- carbonicolus* Thér., Rev. Chil. Hist. Nat. 22:81 (1918).
 T: Chile, Victoria, *Campo s.n.* (isotype H-BR).
 CU: *C. modestus* Card. cf. Frahm, Bryol. Beitr. 7: 21 (1987).
- cardotii* Thér., Rec. Publ. Soc. Havraise Etud. Div. 1922:116 (1922).
 T: Madagascar massif d' Andringitra 1600-2500 m, *Bathie 20* (holotype PC).
 OU: *C. controversus* (Hampe) Jaeg. cf. Frahm, Hikobia 11 (1994).
 CU: *C. thwaitesii* (Mitt.) Jaeg.
- carinatus* C. Müll. Gen. Musc. Fr. 265 (1900) nom. nud.
 M: Argentinien, Barranca am Arroyo Cortapic, *Lorentz* (1881) (JE).
 CU: *C. introflexus* (Hedw.) Brid. var. *cordobaensis* Thér. cf. Frahm, Nova Hedwigia 30:843 (1978).
- carolinae* Grout, Moss fl. N. Amer. 1: 249. (1939).
 T: U.S.A., North Carolina, Brunswick Co., near Southport, *Anderson & Evans 6180* (holotype DUKE).
- carreiroanus* Card., Bull. Herb. Boiss. ser.2,5:202 (1905).
 T: Azores, San Miguel, *Carreiro 689* (holotype PC).
 CU: *C. shawii* Wils. cf. Frahm, Journ. Bryol. 13:329 (1985).
- cataractarum* (Fleisch.) Fleisch. Musci Fl. Buitenzorg 1:185 (1904).
 T: Java, am Wasserfall bei Tjiburnum 1800 m, *Fleischer III* (isotype NY).
 OU: *C. recurvus* (Mitt.) Jaeg. ssp. *cataractarum* Fleisch. Musci Fl. Buitenzorg 1:110 (1904), *C. hemitrichius* fide Eddy, Malesian Mosses vol. 1, 1988.
 CU: *C. recurvus* (Mitt.) Jaeg. cf. Frahm, Bryol. Beitr. 7: 22 (1987).
- catarractilis* (C. Müll.) Par., Ind. Bryol. Suppl. 90 (1900).
 B: *Dicranum catarractile* C. Müll., Hedwigia 38: 80 (1899).
 T: South Africa, ad catharractam supra Rondebosch, *Rehmann 64* (G, PC).
catharinensis Par., Ind. Bryol. ed.2,1:302 (1904) nom. illeg.
 OU: *C. perfalcatum* Broth.
 CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *caldensis* (Aongstr.) J.-P.Frahm .
- catumbensis* Broth., Bih. K. Svensk. Vet. Ak. Foerh. 21 afd. 3(3):8 (1895).
 T: Type. Brazil, Rio de Janeiro, Catumbez, *Mosén 190* (holotype H-BR; isotype S).
 CU: *C. surinamensis* C. Müll. cf. Frahm, Revue Bryol. Lich. 45:163 (1979).
- caudatus* (C. Müll.) Mont. in Dozy & Molck., Bryol. Jav. 1:78 (1858).
 B: *Dicranum caudatum* C. Müll. Syn. Musc. Frond. 1: 401 (1848).
 T: India, Nilgherri, *Perrottet s.n.* (lectotype H-BR).
 CU: *C. comosus* Bosch & Lac. cf. Frahm, Journ. Bryol. 13:166 (1984).
- caudatus* C. Müll. nom. nud.
 CU: *Chorisodontium sp.* cf. Frahm, Nova Hedwigia (1994).
- cavernosus* J.-P.Frahm, Nova Hedwigia 29:245 (1978).
 T: Type: Brazil, Rio de Janeiro, Itatiaia Nat. Park, Agulhas Negras 2760 m, *Vital 4921* (holotype SP; isotypes B, U).
 CU: *C. densicoma* cf. Frahm, Nova Hedwigia 39:155 (1984).
- cavifolius* Mitt., J. Linn. Soc. Bot. 12: 87 (1869).
 T: Ecuador, „Andes Quitenses“, Chimborazo, *Jameson s.n.* (lectotype NY).
- celebesicus* Card., Rev. Bryol. 28:113 (1911).
 T: Celebes, Buan Kräng, 5000 - 9000ped., *Fruhstorfer 1895* (isotype FH).
 OU: *C. zollingerianus* (C. Müll.) Bosch & Lac. cf. Frahm, Bryol. Beitr. 7: 22 (1987).
 CU: *C. fragilis* (Brid.) B.S.G. ssp. *zollingerianus* (C. Müll.) J.-P. Frahm, Trop. Bryol. 4: 61 (1991).
- cerradensis* Vital, Cryptogamie Bryol. Lich. 5:20 (1984).
 T: Brazil. Sao Paulo: Municipio de Itirapina, *Vital 1714* (holotype, SP).

- CU: *C. carolinae* Grout cf. Frahm, Nova Hedwigia 43 (1986).
- ceylonensis* Broth. in Fleisch., Musci Fl. Buitenzorg 1:101 (1904) nom. nud.
- OU: *C. zollingerianus* (C. Müll.) Bosch. & Lac. cf. Fleischer, l.c.
- CU: *C. fragilis* (Brid.) B.S.G. ssp. *goughii* (Mitt.) J.-P. Frahm, Trop. Bryol. 4: 61 (1991).
- chalarobasens* C. Müll. in Par., Ind. Bryol. 242 (1894). (*)
- chalarobasis* C. Müll. ex Thér., Rev. Bryol. Lich. 7:171 (1935).
- T: Chile, Corral, Quitaluto, *Gunckel* 1729 (S).
- CU: *C. incrassatus* C. Müll. cf. Frahm, Bryol. Beitr. 7: 22 (1987).
- chateauvertii* Thér., Rev. Bryol. ser.4:76 (1931).
- T: Malawi, Mont Mlongo 2600 m, *Chateauvert s.n.* (holotype PC).
- CU: *C. ampliretis* cf. Frahm, Cryptogamie Bryol. Lich. 3(1):61 (1982) = *C. flaccidus* Ren. & Card.
- chevalieri* Broth. & Thér., Bull. Mus. Hist. Nat. Paris 18: 476 (1912).
- T: Cote d'Ivoire, *Aug. Chevalier s.n.* (PC, S).
- chilensis* De Not., Mem. R. Acc. Sc. Torino ser.2,18:453 (1859).
- T: Chile, Valparaiso, *Puccio s.n.* (isotype H-SOL).
- chionophilus* (C. Müll.) Mitt. J. Linn. Soc. Bot. 12:81 (1869).
- CU: *Dicranodontium denudatum* (Brid.) Britt. cf. Robinson, Bryologist 70:11 (1967).
- chlorophyllosus* (C. Müll.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:428 (1872).
- B: *Dicranum chlorophyllosum* C. Müll. Syn. Musc. 1: 395 (1848).
- T: South Africa, "Promont boni spei", *Guienzius s.n.*, 1842 (could not be located).
- CU: *C. bicolor* (C. Müll.) Wils. ssp. *atroluteus* (C. Müll.) J.-P. Frahm cf. Frahm, Bryoph. Bibl. 31:37 (1985).
- chlorotrichus* (C. Müll.) Par., Ind. Bryol. ed.2,1:303 (1904).
- T: *Dicranum chlorotrichum* C. Müll. Hedwigia 38: 87 (1899).
- T: Cape, Montagu Pass, *Rehmann* 53 (isotypes PC, L).
- CU: *C. stenopelma* (C. Müll.) Par. cf. Magill, Fl. S. Afr. Bryoph. 1(1):141 (1981), *C. controversus* (Hampe) Jaeg. cf. Frahm, Bryoph. Bibl. 31:180 (1985).
- CU: *C. thwaitesii* (Mitt.) Jaeg.
- chrismarii* (C. Müll.) Mitt. J. Linn. Soc. Bot. 12:88 (1869).
- B: *Dicranum chrismarii* C. Müll. Bot. Zeit 13: 761 (1855).
- T: Mexico. Michoacan, *Chrismar s. n.* (holotype destroyed at B; lectotype NY; isolectotypes H-BR, S).
- CU: *C. nivalis* (Brid.) Brid. cf. Frahm, Bryoph. Bibl. 31:124 (1985).
- chrismarii* var. *tolucensis* (Bartr.) J.-P. Frahm, Bryologist 80: 120 (1977).
- B: *C. tolucensis* Bartr.
- CU: *C. nivalis* cf. Frahm, Fl. Neotr. 54 (1991).
- chrismarii* var. *suboblongus* (Herz.) J.-P. Frahm, J. Hatt. Bot. Lab. 48:209 (1980) = *C. nivalis* (Brid.) Brid. cf. Frahm, Bryol. Beitr. 7: 23 (1987).
- chryseolus* C. Müll. ex Besch., Ann. Sc. Nat. Bot. ser. 6,9:325 (1880).
- T: Comores, *Boivin* 18 (holotype PC, isotype G).
- HS: *C. chrysocolus* C. Müll. ex Besch., Rev. Bryol. 4:15 (1877).
- OU: *C. aureus* Bosch & Lac. cf. Frahm, Bryoph. Bibl. 31:30 (1985).
- CU: *C. schmidii* C. Müll.
- chrysodictyon* (Hampe) Mitt., J. Linn. Soc. Bot. 12:78 (1869).
- B: *Dicranum chrysodictyon* Hampe, Ann. Sc. Nat. Bot. ser. 5,5: 338 (1866).
- T: Type. Colombia, Bogotá, Tequendama, *Lindig s. no.* (holotype not seen; isotypes H-BR, H-SOL, GOET, NY, S)
- CU: *C. pauper* cf. Frahm, Bryol. Beitr. 7: 23 (1987).
- cinchonae* Par., Ind. Bryol. Suppl. 90 (1900).
- T: Jamaica, *Wilson* 813 (not seen).
- HS: *Thysanomitrium jamaicense* C. Müll., Bull. Herb. Boiss. 5:552 (1897).
- OU: *C. introflexus* (Hedw.) Brid. cf. Williams, N. Am. Fl. 15:144 (1913).
- CU: *C. pilifer* Brid.
- cirrhatum* Brid., Bryol. Univ. 1:479 (1826).
- CU: *Cynodontium gracilescens* (Web. & Mohr) Schimp. cf. Limpr., Laubm. Deutschl. 1:284 (1886).
- circinatum* J.-P. Frahm, Cryptogamie Bryol.

- Lichénol. 19(1): 27, 1998.
 T: Australia, Victoria, Aireys Inlet, Distillery Creek, Fern Gully, on peaty ground in tree fern grove. *Angahook Regeneration Study Group Quadrat M14*, 24.10.93 (Holotypus MELU, isotypus hb. Frahm)
- citrescens* Stirt., Trans. Bot. Soc. Edinburgh 26:245 (1914).
 CU: *C. fragilis* (Brid.) B.S.G. cf. Dixon, J. Bot. 61:15 (1923).
- civa* Lor., Moosstud. 159 (1864).
 T: „India orientalis“ (isotype S).
 CU: *C. pilifer* Brid. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):60 (1982).
- clavatus* (R. Brown) Wils. in Hook., Fl. Nov. Zeal. 2: 69 (1854).
 B: *Dicranum clavatum* R. Brown in Schwaegr., Spec. Musc. Suppl. 3 (2): 255a (1829).
 T: van Diemen Land, *Brown & Sieber s.n.*
clavatus Rehm. in Sim, Trans. R. Soc. S. Afr. 15:171 (1926) nom. nud.
 CU: *introflexus* (Hedw.) Brid. cf. Sim l.c.
- cleefii* J.-P. Frahm, Cryptogamie Bryol. Lich. 7: 441 (1986).
 T: Colombia. Boyaca: Paramo La Rusia, subparamo cerca del puente del Rio Surba, *Cleef 6269* (holotype U).
- clemensiae* Bartr. Rev. Bryol. Lichenol. 30: 187 (1961).
 T: Papua N.G. Western Highlands, Wabag area, 10.000 ft. *R.G. Robinson 3025a* (holotype FH).
- clementsii* Dix., Ann. Bryol. 12:49 (1939).
 T: Sumatra, Gunung Goh Lemboek 3000 m, *van Steenis 10185* (BM).
 CU: *Atractyllocarpus comosus* Dix. cf. Frahm, Bryol. Beitr. 7: 24 (1987).
- cockyani* R. Brown ter., Trans. New Zeal. Inst. 29:467 (1897). (*)
- collinus* Par., Ind. Bryol. Suppl. 90 (1900).
 T: Brasilien, Sta. Catharina, Laguna, auf Hügeln im Campo, *Ule 948* (isotype H-BR).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Revue Bryol. Lich. 42:605 (1976).
- comatulus* Besch., Compt. Rend. Ac. Sc. Paris 81:724 (1875).
 T: Ile de Amsterdam, sterile entre les touffes de lycopodium, *G. d'Isle s.n.* (holotype PC).
 CU: *C. megalotus* Besch. cf. Frahm, Bryoph. Bibl. 31: 118 (1985).
- comatus* Ren. & Card. in Ren., Rev. de Bot. 9:290 (1891).
 T: Madagascar, St. Marie, *Arbogast (1890) s.n.* (holotype PC, isotype G).
 CU: *C. trachyblepharon* ssp. *comatus* (Ren. & Card.) J.-P. Frahm, Bibl. Bot. 31: 187 (1985).
- commersonii* Besch. in Ren., Prodr. Fl. Bryol. Madag. 88 (1898).
 T: Reunion, Cratere Commerson, *G. de l'Isle s.n.* (holotype PC).
 OU: *C. chrismarii* (C. Müll.) Mitt. cf. Frahm, Lindbergia 8(1):46 (1982).
 CU: *C. nivalis* (Brid.) Brid.
- comosus* (Schwaegr.) Bosch & Lac., Bryol. Jav. 1:75 (1858).
 B: *Dicranum comosum* Schwaegr. Spec. Musc. Suppl. 2(2): 114, tab. 185 (1827).
 T: Indonesia, Java, *Reinwardt s.n.* (holotype L).
- comosus* var. *compactus* Fleisch. Nova Guinea 8(2): 738 (1912).
 T: Indonesia, West Irian, Jayawijaya, am Gipfel d. Hellwig-Geb. 2500-3000 m, *Römer 1309* (holotype FH). CU: *C. comosus* (Schwaegr.) Bosch & Sande Lac.
- compactus* Par. & Broth. Rev. Bryol. 31:117 (1904) hom. illeg.
 T: Guinea, in valle fl. Bating, *Pobeguïn (1906) s.n.* (holotype PC).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):60 (1982).
- compactus* Schimp. in Hunt, Mem. Lit. Phil. Soc. Manchester ser. 3,3:234 (1868) nom. illeg.
 CU: *C. schimperii* Milde.
- compactus* Wils., Kew J. Bot. 9:297 (1857) nom. nud.
 OU: *C. goughii* (Mitt.) Jaeg. cf. Mitt., J. Linn. Soc. Bot. Suppl. 1:17 (1859).
 CU: *C. fragilis* (Brid.) B.S.G. ssp. *goughii* (Mitt.) J.-P. Frahm, Trop. Bryol. 4: 61, 1991.
- concolor* (Hook.) Brid., Bryol. Univ. 1: 476 (1826).
 B: *Dicranum concolor* Hook., Musci Exot. 139. (1816).
 T: Colombia, Alto de Aranda, *Humboldt & Bonpland s.n.* (isotypes H-BR, KIEL).
- connivens* Broth. in Bruehl, Rec. Bot. Surv. India

- 13(1):123 (1931) nom. nud.
consociatus Thér. Rec. Publ. Soc. Havraise Etud. Div. 2: 118 1922
 B: *Thysanomitrium consociatum* Broth Nat. Pfl. ed. 2, 10. 189 1924
 T: Madagascar. Massif d' Adringita 1600-2500 m, *Perrier de la Bathie s.n.* (Holotypus H-BR)
 CU: *C. flaccidus* Ren. & Card. cf. Frahm, Nova Hedwigia 39 592 (1984).
- contortus* (Wahlenb.) Brid., Mant. Musc. 74 (1819)
 CU: *Grimmia incurva* Schwaegr. cf. C. Müll., Syn. Musc. 1:789 (1849).
- controversus* (Hampe) Jaeg., Ber. St. Gall. Naturw. Ges. 1877-78: 385. 1880.
 B: *Dicranum controversum* Hampe, Vid. Medd. Naturh. For. Kjoebenh. ser. 3,4: 42. 1872.
 T: Brazil, *Glaziou 5204* (holotype BM, isotypes L, NY).
 CU: *C. thwaitesii* (Mitt.) Jaeg. cf. Frahm, Crypt. Bryol. Lichénol. 19: 32, 1998.
- convolutus* Aongstr. in Kindb., Enum. Musc. Exot. 9 (1888) nom. nud.
- copelandii* Broth., Leafl. Philip. Bot. 6:1973 (1913).
 T: Philippines, Luzon, Mt. Banahao, *Copeland 830* (holotype H-BR).
 OU: *C. hemitrichius* (C. Müll.) Jaeg. cf. Bartr., Philipp. J. Sc. 68:41 (1939).
 CU: *C. schmidii* C. Müll. ssp. *hemitrichius* (C. Müll.) J.-P. Frahm.
- coreensis* Card., Bull. Herb. Boiss. ser. 2,7:715 (1907).
 T: Corée, Fusan, *Faurie 265* (holotype PC, isotypes NY, S).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39: 600 (1984).
- corralensis* Broth. in Par., Ind. Bryol. ed.2,1:304 (1904) nom. nud.
 CU: *C. clavatus* (R.Brown) Wils. fc. Sainsb., R.Soc. New Zeal. Bull. 5:110 (1955).
- costaricensis* Bartr., Contr. U.S. Nat. Herb. 26: 62 (1928).
 T: Costa Rica, Finca Montechristo, *Standley & Valerio 48579* (holotype FH; isotype US).
 OU: *C. oerstedianus* cf. Frahm, Lindbergia 7:28 (1981).
 CU: *C. surinamensis* fide Allen, Trop. Bryol. 1: 91 (1989).
- crassinervis* Wils., Kew J. Bot. 9:297 (1857) nom. nud.
 CU: *Paraleucobryum enerve* (Thed.) Loeske cf. Podpera, Consp. 155 (1954).
- crassissimus* Besch., Bull. Soc. Bot. France 32:LVIII (1885).
 T: Chile, Puerto Bueno, *Savatier s.n.* (holotype PC, isotype NY).
 CU: *C. acuminatus* Mitt. cf. Frahm, Bryol. Beitr. 7: 25 (1987).
- cratericola* Par., Ind. Bryol. Suppl. 90 (1900) nom. nud.
- crateris* Besch., Ann. Sc. Nat. Bot. ser. 6, 9: 327 (1880).
 T: Reunion. cratere Commerson, *Lepervanche s.n.* (holotype PC).
 OU: *Thysanomitrium crateris* (Besch.) Broth. in Card. in Grand Hist. Madag. 39: 130 (1915).
- crenulatus* Stirt., Trans. Bot. Soc. Edinburgh 26:244 (1914).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Dixon, J. Bot. 61:15 (1923).
- cribrosus* (Brid.) Brid., Mant. Musc. 76 (1819).
 CU: *Grimmia pulvinata* (Hedw.) Sm. var. *africana* (Hedw.) Hook.f. & Wils. cf. Par., Ind. Bryol. ed.2,2:222 (1904).
- crishna* Lor., Moosstud. 159 (1864).
 T: „India orientalis“ (S).
 CU: *C. pilifer* Brid. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):60 (1982).
- crispatulus* Thér., Rec. Publ. Soc. Havraise Etud. Div. 1925:129 (1926). (*)
- crispatus* (C. Müll.) Broth. in Par., Ind. Bryol. Suppl. 91 (1900).
 B: *Dicranum crispatum* C. Müll., Bull. Herb. Boiss. 6: 36 (1898).
 T: Brazil, *Ule 1799* (holotype destroyed at B; lectotype, H-BR).
 CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *caldensis* (Aongstr.) J.-P.Frahm cf. Frahm, Revue Bryol. Lich. 45(2):138 (1979).
- crispicoma* (C. Müll.) Jaeg. Ber. S. Gall. Naturw. Ges. 1877-78:383 (1880).
 B: *Dicranum crispicoma* C. Müll., Flora 34: 529 (1875).
 T: Venezuela, prope Caracas, Galipan 4500-5000 ft., *Funck & Schlim 366* (holotype destroyed at B; lectotype NY).

- CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Lindbergia 7:30 (1981).
 T: Papua New Guinea. Simbu, east slopes, Mt. Wilhelm, 3560 m. *Brass* 29894 (holotype FH).
 OU: *C. boswellii* (Hampe) Par. cf. Frahm, Bryologist 94: 62 (1991).
 CU: *C. fragilis* (Brid.) B.S.G. ssp. *zollingerianus* (C. Müll.) J.-P. Frahm cf. Frahm, Trop. Bryol. 4: 61 (1991).
crispo-filifolius Par., Ind. Bryol. Suppl. 90 (1900) nom. nud.
 M: Sumatra occid., in regiona lacus Toba, *Modigliani* 241 (FH, H-BR, JE, S).
 O: *C. walkeri* Mitt. cf. Frahm, J. Bryol. 13:189 (1984) = *Bryohumbertia walkeri* (Mitt.) J.-P. Frahm.
 CU: *Bryohumbertia subcomosa* (Dix.) J.-P. Frahm cf. Frahm, Trop. Bryol. 1:9 (1989).
cruegeri (C. Müll.) Par., Ind. Bryol. Suppl. 91 (1900). (*)
cryptopodioides Broth., Bih. K. Svensk Vet. Akad. Foerh. 26 Afd. III(7): 9 (1900).
 T: Brazil, Mato Grosso, *Lindman* 475 (holotype H-BR; isotype S).
cuatrecasii Robinson, Bryologist 70: 16 (1967).
 T: Colombia, *Cuatrecasas* 19090a (holotype US; isotype COLO).
 CU: *C. trivialis* Thér. cf. Frahm, Fl. Neotr. 54: 187 (1991).
cubensis Sull., Proc. Am. Arts sc. 5: 278 (1861).
 T: Cuba, *Wright* 39 (holotype NY).
cubensis Sull. var. *exaltatus* (C. Müll.) J.-P. Frahm, Nova Hedwigia 41: 274 (1985).
 CU: *C. lamellinervis* var. *exaltatus*.
cucullatifolius Herz., Bibl. Bot. 87:22 (1916).
 T: Bolivia, Tablas 3400 m, *Herzog* 2826/a (holotype JE).
 CU: *C. cuspidatus* (Hornsch.) Mitt. var. *dicnemioides* (C. Müll.) J.-P. Frahm cf. Frahm, Bryol. Beitr. 7: 26 (1987).
cummingii Duby, Mem. Soc. Phys. Hist. Nat. Geneve 20:361 (1869).
 T: Chile, Valdivia (holotype G, isotype S).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Cryptogamie Bryol. Lich. 3:62 (1982).
curvatifolius Card., Bull. Herb. Boiss. ser.2,5:1000 (1905).
 T: Iles Falkland, Port Standley, *Birger* 208 (holotype PC).
 CU: ? *C. acuminatus* Mitt. cf. Frahm, Bryol. Beitr. 7: 26 (1987).
curvifolius Brid., Mant. Musc. 78 (1819).
 CU: *Grimmia ovalis* (Hedw.) Lindb. cf. C. Müll., Syn. 1:810 (1849).
cuspidatus (Hornsch.) Mitt., J. Linn. Soc. Bot. 12: 90 (1869).
 B: *Dicranum cuspidatum* Hornsch., Fl. Bras. 13. 1840.
 T: Brazil, Sincora et Rio das Contas, *Martius* s. n. (holotype destroyed at B; lectotype BM; isolectotypes JE, NY).
cuspidatus (Hornschuch), Mitten var. *dicnemioides* (C. Müll.) Frahm, Rev. Bryol. Lichenol. 45(2): 143 (1979). B: *Dicranum dicnemioides* C.Müll., Bull. Herb. Boiss. 6: 36 (1898).
 T: Brazil, Serra do Itatiaia, Agulhas Negras, *Ule* 1788 (H-BR).
cygneus (Hedwig) Brid., Mant. Musc. 72 (1819).
 B: *Dicranum cygneum* Hedwig, Spec. Musc. 148. 1801.
 T: „India occ.“, *Swartz* s. n. (holotype G; isotypes H-SOL, NY, S).
cylindrotheca R. Brown ter., Trans. New Zeal. Inst. 29:473 (1892).
 CU: *C. clavatus* (R. Brown) Wils. cf. Dixon, New Zeal. Inst. Bull. 3(3):88 (1923).
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- damazii* Broth. Denkschr. Ak. Wiss. Wien Math. Nat. Kl. 83:260 (1926).
 T: Brazil, Minas Gerais, Pico da Serra de Itabira, *Damaziou* 2147 (holotype H-BR).
 OU: *C. praealtus* var. *damazii* (Broth.) J.-P. Frahm cf. Frahm, Revue Bryol. Lich. 45:159 (1979).
 CU: *C. subcuspidatus* var. *damazii* cf. Frahm, Bryol. Beitr. 7:27 (1987).
davalianus Watts. in Dix., J. Bot. 60:289 (1922) nom. nud.
 OU: *C. ericeticola* C. Müll. cf. Dixon, l.c.
 CU: *C. bicolor* (C. Müll.) Wils. var. *ericeticola* (C. Müll.) Dix.
decaryii Thér., Rec. Publ. Soc. Havraese Etud. Div. 1923(2): 78 (1923).
 T: Madagascar, Moramanga, sur la terre humide, *Decary* s.n. (holotype PC).

- deciduus* Ren. & Card., Bull. Soc. Bot. R. Bot. Belg. 33(2): 111 (1895).
T: Madagascar, Ambohimatsara, Betsilio *Berthieu 1892* (holotype PC, isotype S).
CU: *C. aureus* Bosch. & Lac. cf. Frahm, Bryoph. Bibl. 31:30 (1985).
- decipiens* Lac., Ned. Kruidk. Arch. 5:294 (1870).
CU: *C. brevipilus* B.S.G. cf. Milde, Bryologia silesiaca 78 (1869).
- declivium* Par., Ind. Bryol. ed.2,1:305 (1904).
OU: *C. nano-filifolius* (C. Müll.) Par., Ind. Bryol. Suppl. 94 (1900), *C. filifolius* (Hornsch.) Mitt. cf. Frahm, Bryoph. Bibl. 5:42 (1975).
CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm cf. Frahm, Bryol. Beitr. 7:27 (1987).
- delagoae* (C. Müll.) Par. Ind. Bryol. Suppl. 91 (1900).
B: *Dicranum delagoae* C. Müll. Hedwigia 38: 86 (1899).
T: Transvaal, between Delagoa Bay and Lydenburg, *Wilms* (1884) *s.n.* (holotype B).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryoph. Bibl. 31:169 (1985).
OU: *Thysanomitrion delagoae* (C. Müll.) Broth. Nat. pfl. 10: 188 (1924); *C. stenopelma* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:114 (1926).
- delicatulus* Williams, N.Am. Fl. 15:137 (1913).
T: Cuba., Herradura., *Britton 6523* (holotype NY; isotype PC).
CU: *C. angustiretis* (Aust.) Lesq. & Jam. cf. Frahm, Nova Hedwigia 41:276 (1985).
- demangei* Thér. & P.Varde, Rev. Bryol. 49:28 (1922).
T: Tonkin, Yen Lap près de Quang Yen, *Demange 529* (holotype PC).
CU: *C. serratus* Lac. cf. Frahm, Bryol. Beitr. 7: 27 (1987).
OU: *C. aureus* cf. Eddy, Malesian Mosses vol. 1 (1988).
- densicoma* (C. Müll.) Par., Ind. Bryol. Suppl. 91. (1900).
B: *Dicranum densicoma* C. Müll., Nuovo Giorn. Bot. Ital. n. ser. 4: 33 (1897).
T: Bolivia, Prov. Cochabamba, *Germain 1120* (holotype destroyed at B; lectotype NY; isolectotype H-BR).
densicoma (C. Müll.) Par. var. *yungarum* (Herzog) J.-P. Frahm, Nova Hedwigia 39: 156 (1984).
T: Bolivia, Incacorral 2200 m, *Herzog 1908* (holotype JE isotype B).
CU: *C. densicoma*
- densifolius* Aongstr., Oefv. K. Svensk Vet. Ak. Foerh. 29(4):18 (1872).
T: Hawaii, Honolulu, *N.J. Anderson s.n.* (isotypes H-BR, L).
CU: *C. hawaiiicus* (C. Müll.) Jaeg. var. *densifolius* (Aongstr.) J.-P. Frahm cf. Frahm, The Bryologist 94: 62 (1991).
- densifolius* Aongstr. var. *falcatus* Broth., Bishop Mus. Bull. 40:6 (1927).
CU: *C. pupureo-flavescens* (C. Müll.) Par. cf. Bartr., Bishop Mus. Oc. pap. 16:323 (1942).
- densinervis* Broth. in Williams, Bull. New York Bot. Garden 8:335 (1914) nom. nud.
- densiretis* Broth., Bull. Soc. Bot. Ital. 1904:15 (1904) nom. nud.
OU: *C. densifolius* Aongstr. cf. Broth., Bishop Mus. Bull. 40:36 (1927).
CU: *C. hawaiiicus* (C. Müll.) Jaeg. var. *densifolius* (Aongstr.) J.-P. Frahm cf. Frahm, The Bryologist 94: 62 (1991).
- densus* Schimp. in Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78: 386 (1880).
T: Abyssinia, *Schimper s.n.* (PC)
CU: *C. fragilis*
- densus* B.S.G. Bryol. Eur. 1:166 (1847).
CU: *C. fragilis* (Brid.) B.S.G. fo. *densus* cf. Moenkemeyer, Laubm. Eur. 222 (1927).
- dentato-acicularis* C. Müll. Gen. Musc. Fr. 270 (1900) nom. nud.
CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 42:901 (1976).
M: Brazil, Jaguarone, *Ule 708* (H-BR).
- denticuspis* Broth. in Mildbr., Wiss. Erg. Deutsch. Zentr. Afr. Exp. 2:140 (1910).
T: Zaire Karisimbi, Gipfelkegel 4000 m, *Mildbraed 2091* (holotype H-BR).
OU: *C. stramineus* (Mitt.) Jaeg. cf. Bizot & Kilbertus, Revue Bryol. Lich. 45:94 (1979).
CU: *C. nivalis* (Brid.) Brid.
- denticuspis* Broth., Proc. Linn. Soc. N.S. Wales 41: 575 (1916).
T: Australia, N.S.W., Heath, Wardell, Richmond, *Watts 5260* (holotype H-BR).
OU: *C. kirkii* Mitt. cf. Frahm, J. Bryol. 13: 365 (1985).
CU: *C. acuminatus* Mitt var. *kirkii* (Mitt.)

- J.-P. Frahm, Bryol. Beitr. 7: 95 (1987).
dentiscopis Broth. var. *lutescens* Broth. Proc. Linn. Soc. N.S. Wales 41: 575 (1916).
 T: Australia, N.S.W., Heath, Wardell, Richmond, *Watts 1739, 4758* (isotypes H-BR).
 CU: *C. acuminatus* Mitt var. *kirkii* (Mitt.) J.-P. Frahm, Bryol. Beitr. 7: 95 (1987).
denudatus (Brid.) Kindb., Bih. K. Svensk Vet. Ak. Handl. 7(9):87 (1883).
 CU: *Dicranodontium denudatum* (Brid.) Britt.
depilis C. Müll. Gen. Musc. Fr. 276 (1900) nom. nud.
destrucitilis (C. Müll.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:430 (1872).
 B: *Dicranum destructile* C. Müll., Bot. Zeit. 17: 220. 1859.
 T: Mexico, *Schiede s. no.* (holotype destroyed at B, isotypes could not be located).
 OU: *C. chrismarii* (C. Müll.) Mit. cf. Williams, N.Am. Fl. 15:136 (1913).
 CU: *C. nivalis* (Brid.) Brid.
detonsus (Hampe) Kindb., Enum. Bryin. Exot. 88 (1894).
 B: *Dicranum detonsum* Hampe, Flora 64: 341 (1881).
 T: Brazil. Rio de Janeiro, *Glaziou 11746* (isotypes H-BR, JE, S).
 CU: *C. trachyblepharon* (C. Müll.) Mitt. cf. Frahm, Revue Bryol. Lich. 45:164 (1979).
dichrostis (C. Müll.) Par. in Broth., Nat. Pfl. 1(3): 333. (1901).
 B: *Dicranum dichrostis* C. Müll., Hedwigia 39: 265. 1900.
 T: Brazil, Minas Gerais, Ouro Preto, *Ule 1359* (holotype destroyed at B; lectotype H-BR).
dickieanus Stirt., Ann. Scott. Nat. Hist. 15 (58):108 (1906). (*)
dicksoniae C. Müll., Gen. Musc. Fr. 270 (1900) nom. nud.
 M: Brazil, S. Catarina *Ule 660, 1125* (H-BR).
 OU: *C. cacti* (C. Müll.) Par. Ind. Bryol. Lich. 42:902 (1976).
 CU: *C. occultus* Mitt.
dicnemioides (C. Müll.) Par., Ind. Bryol. Suppl. 91 (1900).
 B: *Dicranum dicnemioides* C. Müll., Bull. Herb. Boiss. 6: 36 (1898).
 T: Brazil. Serra do Itatiaya, Agulhas Negras, *Ule 788* (holotype destroyed at B; lectotype H-BR).
 CU: *C. cuspidatus* var. *dicnemioides* (C. Müll.) J.-P. Frahm, Herzogia 5:108 (1979).
dicranelloides Ren. & Card., Bull. Soc. R. Bot. Belg. 29(1):171 (1890).
 CU: *C. perpusillus* Mitt.
 OU: *Microcampylopus perpusillus* (Mitt.) Broth. cf. Sim, Trans. R. Soc. S. Afr. 15:181 (1926).
dicranodontioides Broth. in Skottsbo., Nat. Hist. Juan Fernandez 2:242 (1924).
 OU: *C. hygrophilus* Broth. cf. Frahm, Nova Hedwigia 34:392 (1981).
 CU: *C. vesticaulis* Mitt. cf. Frahm, Bryol. Beitr. 7: 28 (1987).
dicranoides Thér. & Nav., Bull. Soc. R. Bot. Belg. 60: 15 (1927).
 T: Ruwenzori, Butagu 3000 m, sur tronc tombe, *Bequaert 4017* (holotype PC, isotype BR).
didictyon (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:434 (1872).
 B: *Dicranum didictyon* Mitt., J. Linn. Soc. Bot. Suppl. 1: 21 (1859).
 CU: *Dicranodontium didictyon* (Mitt.) Jaeg.
didrichsenii (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:424 (1872).
 B: *Dicranum didrichsenii* C. Müll., Bot. Zeit. 20: 329 (1862).
 T: Hawaii, without locality, *Didrichsen s.n.* in expeditione transatl. danica not be located).
 CU: *C. richardii* Brid. cf. Dixon, J. Bot. 60:287 (1922).
 OU: *C. umbellatus* (Arn.) Par. cf. Bartr., Bishop Mus. 101:44 (1933).
didymodon (Griff.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71:434 (1872).
 B: *Dicranum didymodon* Griff., Calcutta J. Nat. Hist. 2: 499 (1842).
 CU: *Dicranodontium didymodon* (Griff.) Par.
dietrichiae (C. Müll.) Jaeg. Ber. S. Gall. Naturw. Ges. 1877-78:383 (1880). (*)
 B: *Dicranum dietrichiae* C. Müll., J. Mus. Godeffroy 3: 62 (1874).
discriminatus (Hampe) Jaeg. Ber. S. Gall. Naturw. Ges. 1877-78:497 (1880).
 B: *Dicranum discriminatum* Hampe, Vid. Medd. Naturh. Foer. Kjoebenh. ser. 3, 9-10: 254 (1878).

- T: Brazil, Rio de Janeiro, *Glaziou 7147* (isolectotype H-BR).
 CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 2(4):446 (1981).
- dissitus* C. Müll. ex Broth., Bot. Jahrb. 24:234 (1897).
 T: Kamerun, Buea, *Dusen s.n.* (holotype B, isotype PC).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Lindbergia 8:48 (1982).
- distractus* (C. Müll.) C. Müll., Abh. Naturw. Ver. Bremen 16(3):495 (1900).
 B: *Dicranum distractum* C. Müll., Hedwigia 36: 350 (1897).
 T: cannot be located.
 OU: *C. capillaceus* Hook.f. & Wils. cf. Dixon, New Zealand Inst. Bull. 3(3):85 (1923)
 CU: *C. lonchochaete* C. Müll.
- ditrichoides* Broth., Act. Soc. Sc. Fenn. 19(5):7 (1891).
 T: Type. Brazil. Minas Gerais, *Wainio s.n.* (holotype H-BR; isotype S).
 CU: *C. angustiretis* (Sull.) Lesq. & Jam. cf. Frahm, Nova Hedwigia 41:276 (1985).
- ditrichoides* var. *robustior* Broth., Bih. K. Vet. Ak. Handl. 21 afd. III (3):6 (1895).
 T: Brazil, *Glaziou 11761* (holotype, H-BR).
 CU: *C. angustiretis* (Sull.) Lesq. & Jam. cf. Frahm, Nova Hedwigia 41:276 (1985).
- divaricatus* (Mitt.) Jaeg. Ber. S. Gall. Naturw. Ges. 1877-78:381 (1880).
 B: *Dicranum divaricatum* Mitt. J. Linn. Soc. Bot. 7:149 (1863).
 T: Princess Island, Niger River, Barter 1923 (isotype PC, holotype NY).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):60 (1982).
- diversifolius* (Leroy & Thér.) Takaki, J. Hatt. Bot. Lab. 37:516 (1973).
 T: Ruanda-Urundi, Escarpements à Usambura 1000m, *Cornelis 21* (PC).
 B: *Campylopodia diversifolia* Leroy & Thér., Bull. Jard. Bot. Bruxelles 18:200 (1947).
 CU: *C. obrutus* Thér. & P. Varde cf. Frahm, Bryol. Beitr. 7: 29 (1987).
- diversinervis* Broth., Philipp. J. Sc. C. 5:140 (1910).
 T: Philippines, Luzon, Mt. Pulog, *Curzon 16423* (holotype H-BR).
 CU: *C. hemitrichius* (C. Müll.) Jaeg. cf. Frahm, Bryol. Beitr. 7: 29 (1987).
- divisus* (Geh. & Hampe) Kindb., Enum. Bryin. Exot. 88 (1889).
 B: *Dicranum divisum* Geh. & Hampe, Flora 64: 345 (1881).
 T: Brazil, Apiahy, *Puiggari 323* (isotypes H-BR, S).
 CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 45:155 (1979).
- dixonii* Luis., Broteria ser. Bot. 24:18 (1930).
 T: Madeira, Rio Arieiro, *Barreto s.n.* (isotype BM).
 CU: *eximius* Reichdt. cf. Frahm, Bryoph. Bibl. 31:67 (1985).
 OU: *C. introflexus* (Hedw.) Brid. cf. Sim, Trans. R. Soc. S. Afr. 15:174 (1926); *C. bartramiaceus* (C. Müll.) Thér. cf. Persson, Bot. Not. 1939:570 (1939), *C. atroluteus* (C. Müll.) Par. pp.
- doliolidium* C. Müll. in Par., Ind. Bryol. Suppl. 91 (1900) nom. nud.
 M: Madagascar orient., Tenerive distr. Taniatave, *Perrot 1568* (S).
 OU: *C. inerangae* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:174 (1926); *C. inchangae* (C. Müll.) Par. cf. Magill, Fl. S. Afr. Bryoph. 1(1):146 (1981); *C. rigens* Ren. & Card. cf. Renault in Levier, Revue Bryol. 28:89 (1901)..
 CU: *C. robillardae* Besch. cf. Renault in levier, Rev. Bryol. 28: 89 (1901).
- dolosus* Besch., Ann. Sc. Nat. Bot. ser. 6,9:320 (1880).
 T: Reunion, *d'isle 211/G* (holotype PC).
 CU: *Bryohumbertia spec.* cf. Frahm, Bryoph. Bibl. 31:196 (1985).
- donnellii* (Aust.) Lesq. & Jam., Man. Moss. N. Am. 79 (1884).
 B: *Dicranum donnellii* Austin, Bot. Gaz. 4: 150 (1879).
 T: Florida, Smith, Musci Appal. 470 (holotype NY).
 CU: *C. surinamensis* C. Müll. cf. Frahm, Bryologist 83:581 (1980).
 OU: *C. zygodontocarpus* (C. Müll.) Par. cf. Allen, Trop. Bryol. 1: 92 (1989); *C. flexuosus* (Hedw.) Brid. cf. Bartram, Fieldiana Bot.

- 25:43 (1949).
dozyanus (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:418 (1872).
 HS: *C. dozyi* C. Müll. ex Kindb., Enum. Bryin. Exot 50 (1888).
 B: *Dicranum dozyanum* C. Müll. Syn. Musc. 1: 385 (1848).
 T: Java, *Korthals s.n.* (PC).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Revue Bryol. Lich. 42:905 (1976).
 OU: *C. richardii* Brid. cf. Dixon, J. Bot. 60:287 (1922).
- drouhardii* Card. & Copp. in Grand Hist. Madag. 39:114 (1915).
 T: Madagascar, Diego Suarez, *Drouhard s.n.* (holotype PC).
 CU: *C. cf. aureo-nitens* (C. Müll.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:24 (1985).
- durelii* Broth. ex Gangulee, Nova Hedwigia 8: 146, 1964, nom. invalid.
- dusenii* C. Müll. in Par., Ind. Bryol. 246 (1894) nom. nud.
 M: Kamerun: ad Victoriam emporium in saxis, *Dusen 304* (BM,PC,S).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):60 (1982).
- E**
- eberhardtii* Par., Rev. Bryol. 35:43 (1908).
 T: China, Tonkin, *Eberhardt* (1907) *s.n.* (holotype PC).
 CU: *C. japonicus* Broth. cf. Frahm, The Bryologist 96: 142 (1993).
- echernieri* Besch., Ann. Sc. Nat. Bot. ser. 6,9:323 (1880).
 T: La Reunion, *Echernier s.n.* (isotype NY).
 CU: *C. jamesonii* (Hook.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:102 (1985).
- echinatus* Rehm. ex Sim, Trans. R. Soc. S. Africa 15:175 (1926) nom. illeg. incl. vars. *brevipilus* Rehm. in Dix. & Gepp, *leucobasis* (Par.) Par., *turgescens* Rehm. in Par., *umbrosus* Rehm. in Par., *vallis gratiae* Rehm. in Par.
 T: Cape, *Rehmann 67,68* (isotype NY).
 HS: *C. echinatus* Sim Bryo. S. Afr. 175 (1926).
 CU: *C. introflexus* (Hedw.) Brid. cf. Dixon, Trans. R. Soc. S. Afr. 8:184 (1920).
- eckendorffii* Thér. & P. Varde Rev. Bryol. Lich. 11:168 (1939).
 T: Zentralafrikanische Republik, Bubangui, *Eckendorff 1780* (holotype PC).
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:143 (1985).
- edithae* Broth., Bot. Jahrb. 49: 175. (1912).
 T: Bolivia, Cordillera Real, *Knoche 43* (holotype H-BR, isotype B).
 OU: *C. subjugorum* Broth. var. *edithae* (Broth.) Thér.
- edwardsii* Sim, Trans. R. Soc. S. Afr. 15:168 (1926).
 T: Transvaal, Johannesburg 6000 ft., *Edwards 9836* (PC).
 CU: *C. flaccidus* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:71 (1985).
- ekmannii* Thér., Mem. Soc. Cubana Hist. Nat. 13:216 (1939).
 T: Cuba. Sierra Maestra, La Gran Piedra, *Ekman 1703* (lectotype H-BR, NY, S).
 CU: *C. setaceus* Card. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):62 (1982).
 OU: *C. cygneus* cf. Frahm, Nova Hedwigia 41:277 (1985).
- elliottii* Bartr., Bull. Brit. Mus. Hist. Bot. 2:38 (1955).
 T: Dominica, summit of Mt. Trois Pitons, *Elliott 478a* (holotype FH, isotype BM).
 CU: *C. underwoodii* Williams cf. Frahm, Nova Hedwigia 34:392 (1981).
 OU: *C. cygneus* cf. Frahm, Nova Hedwigia 41:277 (1985).
- ellipticothecium* R. Brown ter., Trans. New Zeal. Inst. 29:473 (1897).
 CU: *C. clavatus* (R. Brown) Wils. cf. Sainsb., Trans. New Zeal. Inst. 59(5):506 (1928).
- ellipticus* (Turn.) Brid., Mant. Musc. 76 (1819)
 CU: *Racomitrium ellipticum* (Turn.) B.S.G.
- elongatus* Brid. Bryol. Univ. 4:815 (1827).
 T: „Grateloup, Dax“ ex hb. Candolle (Holotypus B, Isotypus G).
 CU: *Pilopogon guadeloupensis* cf. Frahm, Crypt. Bryol. Lichénol. 19: 30, 1998.
- erectus* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12: 89. 1869.
 B: *Dicranum erectum* C. Müll., Syn. 1: 408. 1849.
 T: Colombia, Galipan, *Moritz 145*.
 CU: *C. pilifer* Brid.

- ericeticola* C. Müll., Abh. Naturw. Ver. Bremen 16(3):496 (1900)
T: New Zealand, Chatham Islands, *Heide* 27 (H-BR).
CU: *C. bicolor* (C. Müll.) Wils. var. *ericeticola* (C. Müll.) Dix.
- ericetorum* (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:386 (1880).
B: *Dicranum ericetorum* Mitt., J. Linn. Soc. Bot. Suppl. 1: 20 (1859).
OU: *C. introflexus* (Hedw.) Brid. cf. Mitten, J. Linn. Soc. Bot. 12:84 (1869).
CU: *C. pilifer* Brid. cf. Frahm, Journ. Bryol. 13:179 (1984).
- ericetorum* Hampe in C. Müll., Gen. Musc. Fr. 271 (1900) nom. nud.
HS: *C. nano-exasperatus* C. Müll. nom. nud.
- ericoides* (Griff.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:424 (1872).
B: *Dicranum ericoides* Griff., Calcutta J. Nat. Hist. 2: 499 (1842).
T: „in monte Khasia, in sylvis Myrung, *Griffith* 65 (lectotype BM).
- erythrocaulon* Broth. Bol. Soc. Broteria 8:174 (1890).
T: Insula S. Thome, *Quintas s.nr.* (holotype B, isotypes H-BR,S,PC).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Lindbergia 8:48 (1982).
- erythrodontius* Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:496 (1880).
T: Brazil, Rio de Janeiro, *Glaziou* 7371 (H-BR, NY).
CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 32 (1987).
- erythrognaphalus* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:439 (1872).
B: *Dicranum erythrognaphalon* C. Müll., Bot. Zeit. 11: 37 (1853).
T: India, Montes Neilgherienses, „leg. Berth. Schmid“ (PC).
OU: *C. involutus* cf. Frahm, Bryol. Beitr. 7: 32 (1987).
CU: *C. ericoides* (Griff.) Jaeg.
- erythropoma* Duby, Mem. Soc. Phys. Hist. Nat. Geneve 20:360 (1869).
T: Australia, Mt. Mandon, *Müller* (1867) *s.n.* (holotype G, isotype S).
CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Cryptogamie...
- eunanus* (C. Müll.) Par., Ind. Bryol. Suppl. 91 (1900).
B: *Dicranum eunanus* C. Müll., Hedwigia 36: 348 (1897).
T: Nouvelle Caledonie, près de Ile de Noumea, *Balansa s.n.* (PC).
CU: *Campylopodium medium* (Duby) Giese & J.-P.Frahm cf. Frahm, Bryol. Beitr. 7: 88 (1987).
- euphorocladus* Bosch. & Lac., Bryol. Jav. 1:79 (1858).
T: Java, *Zollinger* 411 Z (BM, MY).
OU: *Campylopodium euphorocladum* (C. Müll.) Besch.
CU: *Campylopodium medium* (Duby) Giese & Frahm.
- eurydictyon* Dix. ex Bartr., Philipp. J. Sc. 68:42 (1939).
T: Philippines, Luzon, Mt. Maquiling, *Kerklots* P136 (holotype BM).
CU: *C. laxitextus* Lac. cf. Frahm, Bryol. Beitr. 7: 32 (1987).
- exalaris* (Hampe) Par., Ind. Bryol. 246 (1894).
B: *Dicranum exalare* Hampe, Vid. Medd. Naturh. For. Kjoebenh. ser. 3: 257 (1878).
T: „Brasilia australis“, *Glaziou* 7473 (H-BR).
CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Revue Bryol. Lich. 42:605 (1976).
- exaltatus* (C. Müll.) Par., Ind. Bryol. 246 (1894).
B: *Dicranum exaltatum* C. Müll., Linnaea 42: 472 (1879).
T: Venezuela, without locality, *Fendler s. n.* (could not be located).
HS: *C. exaltatus* (C. Müll.) Kindb., Enum. Bryin. Exot. 88 (1889).
CU: *C. lamellinervis* (C. Müll.) Mitt. var. *exaltatus* (C. Müll.) J.-P.Frahm, Bryoph. Bibl. 5:78 (1975).
OU: *C. cubensis* Sull. var. *exaltatus* (C. Müll.) J.-P.Frahm, Nova Hedwigia 41:275 (1985).
- exasperatus* (Nees & Blume) Brid., Bryol. Univ. 1:473 (1826).
B: *Trichostomum exasperatum* Nees & Blume, Nova Acta Leopold. Carol. 11: 134 (1823).
OU: *Thysanomitrium exasperatum* (Nees & Blume) Reinw. & Hornsch., Nova Acta Acad. Leop. Carol. 14(2): 704 1829
T: Indonesia, Java, *Blume s.n.* (PC).

- exasperatus* (Nees & Blume) Brid. var. *minor* C. Müll. in Fleisch., Musci Fl. Buitenzorg 1:115 (1904) nom. nud.
 CU: *C. umbellatus* (Arn.) Par.
 OU: *C. richardii* cf. Dixon, Journ. Bot. 60:289 (1922).
- excurrens* Dix., Proc. R. Soc. Queensland 53:27 (1941).
 T: Australia, Brown Bay, North Queensland, *Flecker 703* (isotype B).
 CU: *C. japonicus* Broth. cf. Frahm, The Bryologist 96: 142 (1993).
 OU: *C. umbellatus* (Arn.) Par. cf. Frahm, Cryptogamie Bryol. Lich. 3(1):65 (1982); *C. eberhardtii* cf. Frahm, Bryol. Beitr. 7: 32 (1987); *C. richardii* cf. Dixon, J. Bot. 60: 289 (1922)..
- exfrimbriatus* C. Müll., Flora 83:331 (1897).(*)
eximius Reichdt., Verh. Zool. Bot. Ges. Wien 18:193 (1868).
 T: St. Paul, *Jelinek 106* (G,S).
 CU: *C. incrassatus* C. Müll. cf. Frahm, Bryol. Beitr. 7: 32 (1987).
- extinctus* J.-P. Frahm, The Bryologist 99: 218, 1996.
 T: Brazil, „auf Baumfarnstämmen cult. im Bot. Garten Göttingen. Sta. Catharina, Grossmann s.n. 1904 (GOET)
- exustus* Mitt., J. Linn. Soc. Bot. 12:83 (1869).
 T: Andes Peruviana, in monte Pingulla, *Spruce 57* (holotype NY).
 OU: *Campylopodium pusillum* cf. Frahm, Nova Hedwigia 34:392 (1981).
 CU: *Microcampylopus curvisetus* (Hampe) Giese & J.-P.Frahm.
- ## F
- falcatulus* Bartr., Contr. U.S. Nat. Herb. 26: 64 (1928).
 T: Costa, Rica Cerro de las Lajas, *Standley 51507* (holotype FH, isotypes H-BR, S, NY).
 OU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Nova Hedwigia 29:245 (1978).
 CU: *C. arctocarpus* ssp. *caldensis* (Aongstr.) J.-P.Frahm cf. Frahm, Nova Hedwigia 31:431 (1979).
- falcatus* Ferg. in Par., Ind. Bryol. ed. 2,1:307 (1904) nom. nud.
 CU: *C. atrovirens* De Not. fo. cf. Moenkemeyer, Laubm. Eur. 225 (1927).
- falcifolius* Mitt., J. Linn. Soc. Bot. 14:481 (1875).
 T: St. Paul, *Milne 23* (holotype NY).
 OU: *C. eximius* Reichdt. cf. Frahm, Bryoph. Bibl. 31:67 (1985).
 CU: *C. incrassatus*
- fallaciosus* (Thér.) Podp., Consp. 128 (1954).
 CU: *C. pyriformis* var. *fallaciosus* (Thér.) Corley, J. Bryol. 9:201 (1976).
- fendleri* (C. Müll.) Kindb., Enum. Bryin. Exot. 88 (1889).
 B: *Dicranum fendleri* C. Müll., Linnaea 42: 472 (1879).
 T: Venezuela, *Fendler 41* (H-SOL, NY).
 OU: *C. rosulatus* (Hampe) Mitt. cf. Frahm, Bryol. Beitr. 7: 33 (1987).
 CU: *C. pauper* (Hampe) Mitt.
- fergussonii* Stirt., Trans. Bot. Soc. Edinburgh 26:243 (1914).
 CU: *C. atrovirens* De Not. cf. Dixon, J. Bot. 61:15 (1923).
- fernandezianus* Bartr., Ark. Bot. ser. 2,4:31 (1957).
 CU: *Dicranoloma menziesii* (Tayl.) Par. cf. Robinson, Smiths. Contr. Bot. 27:22 (1975).
- fernandezianus* Card. in Skotts., K. Svensk. Vet. Ak. Handl. 51(9):65 (1914), nom. nud.
- ferrieri* Broth. in Par., Ind. Suppl. 92 (1900) nom. nud.
 M: Japan, Nagasaki, *Ferrié 206* (H-BR).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:600 (1984).
- ferromecocae* Par., Ind. Bryol. ed.2,1:308 (1904).
 CU: *Dicranoloma kunertii* (C. Müll.) Ren.
- fibrobasis* Dus., Ark. Bot. 4(13):1 (1905).
 OU: *C. torquatus* Mitt. in Hook. cf. Frahm, Bryoph. Bibl. 5:48 (1975).
 CU: *C. pyriformis* (Schultz) Brid.
- filiscens* Ren. & Card., Bull. Soc. R. Bot. Belg. 29(1):169 (1890).
 CU: *Bryohumbertia spec.* cf. Frahm, Bryoph. Bibl. 31:196 (1985).
- filicaudatus* (C. Müll.) Broth., Nat. Pfl. 1(3):332 (1901).
 B: *Dicranum filicaudatum* C.Müll., Hedwigia 39:260. (1900).
 T: Brazil, Minas Geraes, Serra de Ouro Preto, *Ule 1367* (holotype destroyed at B; lectotype, H-BR).
 CU: *C. aemulans* cf. Frahm, Revue Bryol.

- Lich. 45:135 (1979).
filicaulis (Hampe) Mitt., J. Linn. Soc. Bot. 12:74 (1869).
 OU: *C. nano-filifolius* cf. Robinson, The Bryologist 70:17 (1967).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm.
- flicuspis* Broth. in Herz., Bibl. Bot. 87:22 (1916).
 T: Bolivia, Comarapa 2600 m, *Herzog 4192* (holotype JE; isotypes B, FH, H-BR, S).
 CU: *C. densicoma* cf. Frahm, Nova Hedwigia 39:155 (1984).
- filifolioides C. Müll., Gen. Musc. Fr. 269 (1900), nom. nud.
 M: Sumatra, Singalang, *Beccari s.n.* (B, BM, JE).
 CU: *Bryohumbertia subcomosa* (Dix.) J.-P. Frahm, Trop. Bryol. 1:9 (1989).
- filifolius* (Hornsch.) Mitt., J. Linn. Soc. Bot. 12:76 (1896).
 B: *Dicranum filifolium* Hornsch., Fl. bras. 1: 12. (1840).
 T: Brazil, „prope Novo-Friburgum“, *Beyrich s.n.* (lectotype).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm, Cryptogamie Bryol. Lich. 3:366 (1982).
- filifolius* (Hornsch.) Mitt. var. *humilis* (Mont.) J.-P. Frahm, Nova Hedwigia 29:249 (1978).
 CU: *Bryohumbertia filifolia* var. *humilis* (Mont.) J.-P. Frahm, Cryptogamie Bryol. Lich. 3:366 (1982).
- filifolius* (Hornsch.) Mitt. var. *longifolius* Bartr., Contr. U.S. Nat. Herb. 26:64 (1928).
 OU: *C. filifolius* (Hornsch.) Mitt. var. *longifolius* (Bartr.) Bartr.
 OU: *C. filifolius* cf. Frahm, Nova Hedwigia 41:275 (1985).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm
- fimbriatus* Mitt., J. Linn. Soc. Bot. 12:88 (1869).
 T: Type. Ecuador, Quito, Spruce 51 (lectotype NY).
 CU: *C. fragilis* (Brid.) B.S.G. cf. Robinson, The Bryologist 70:17 (1967).
- flaccidus* (C. Müll.) Broth., Nat. Pfl. 1(3):334 (1901) hom. illeg.
 B: *Dicranum flaccidum* C. Müll., Hedwigia 39: 251. 1900, nom. invalid.
 HS: *C. ouropretensis* Par.
- T: Brazil. Minas Gerais, Serra de Ouro Preto, Ule 1362 (holotype H-BR).
 OU: *C. ?controversus* (Hampe) Jaeg. cf. Frahm, Rev. Bryol. Lich. 45:168 (1979).
 CU: *C. thwaitesii*
- flaccidus*** Ren. & Card., Bull. Soc. Bot. Belg. 32 (2): 11 1893
 T: Madagascar, Ambohimatsara pres Ambositra (Betsileo) *Berthieu 329* (holotype PC)
- flaccidus*** Ren. & Card. var. ***cucullatifolius*** J.-P. Frahm in Frahm & O'Shea, J. Bryol. 19: 128, 1996.
 T: Burundi, Mont Manga Mogongo, 2350m, *De Sloover 19.187* (holotype NAM).
- flagellaceus*** (C. Müll.) Mitt., J. Linn. Soc. Bot. 12:77 (1869)
 B: *Dicranum flagellaceum* C. Müll., Syn. Musc. 2: 597 (1851).
 OU: *Atractylocarpus flagellaceus* (C. Müll.) Williams
 CU: *A. stenocarpus* cf. Padberg & Frahm, Cryptogamie Bryol. Lich. 6:334 (1985).
- flagelliferus*** (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:423 (1872).
 B: *Dicranum flagelliferum* C. Müll., Bot. Zeit. 11: 35 (1853).
 T: India, Nilghiri Mtns., *Schmid s.n.* (NY).
- flagelliferus*** (C. Müll.) Jaeg. var. *brachyphyllulus* Card. nom. dub.
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Cryptogamie Bryol. Lich. 3:63 (1982).
- flageyi*** Ren. & Card., Bull. Soc. R. Bot. Belg. 32:12 (1893)
 T: Madagascar, forêt d'Anamalaroatra, *Camboué 251* (holotype PC).
 OU: *Campylopus filifolius* (Hornsch.) Mitt. cf. Frahm, Lindbergia 8:51 (1982).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm.
- flavescens* Rehm. in Par. Ind. Bryol. 247 (1894) nom. nud.
 CU: *C. aureonitens*
- flavescens* Rehm. in Kindb., Enum. Bryin. Exot. 88 (1889) nom. nud.
 OU: *C. leptotrichaceus* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:172 (1926).
 CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryoph. Bibl. 31:160 (1985).
- flavicomma*** C. Müll. ex Broth., Bot. Jahrb. 24:235

- (1897).
T: Cameroun, supra Bueam pagum, *Dusén* 299 (H-BR).
CU: *Bryohumbertia flavicoma* (C. Müll.) J.-P. Frahm, Cryptogamie Bryol. Lich. 3:366 (1982).
- flavissimus* (C. Müll.) Besch., Bull. Soc. Bot. France 32:LVI (1885).
T: „Magellan, Churucca, Savatier“ (PC).
CU: *Chorisodontium fulvastrum* Besch. cf. Frahm, Bryol. Beitr. 7: 34 (1987).
- flavo-nigrinus* Dus., Ark. Bot. 4(13):8 (1905).
T: Chile, Patagonia, in insulis Guaitecas, *Dusén* 610 (FH, NY).
CU: *C. chilensis* De Not. cf. Frahm, Bryol. Beitr. 7: 34 (1987).
- flavo-viridis* Dus., Ark. Bot. 4(13):2 (1905).
T: Chile, Patagonia, ad Puerto Bueno in terra truncisque dejectis, *Dusen* 103 (H-BR).
OU: *C. eximius* Reichdt. cf. Frahm, Bryoph. Bibl. 31:67 (1985).
CU: *C. incrassatus* C. Müll.
- flavotextus* Thér. in Broth., Nat. Pfl. ed.2,10:187 (1924) nom. nud.
CU: *C. aureonitens*
- flexifolius* Bosch & Lac., Bryol. Jav. 1:76 (1858).
T: Java, *Reinhardt s.n.* (holotype L).
OU: *C. caudatus* (C. Müll.) Mont. var. *flexifolius* (Bosch & Lac.) Fleisch., Musci Fl. Buitenzorg 1:104 (1904).
CU: *C. comosus* (Reinw. & Hornsch.) Bosch & Lac.
- flexipes* (Mitt.) Fleisch., Musci Fl. Buitenzorg 4:1685 (1923).
OU: *Campylopodium euphorocladum* (C. Müll.) Besch. cf. Fleischer, Musci Fl. Buitenzorg 1:62 (1904).
CU: *Campylopodium medium* (Duby) Giese & J.-P. Frahm.
- flexipilis* Dix., Bishop Mus. Occ. Pap. 19(11):222 (1948).
T: Fiji, Viti Levu, *Greene* 612 (BM).
CU: *C. laxitextus* Lac. cf. Frahm, Bryol. Beitr. 7: 35 (1987).
- flexuosus* (Hedw.) Brid., Mant. musc. 4: 71 (1819).
B: *Dicranum flexuosum* Hedw., Spec. musc. frond. 145 (1801).
T: „145 *Dicranum flexuosum* Dill. t. 47 f 33.“ Timm s. n. (lectotype G).
- flexuosus* var. *incacorrallis* (Herzog) J.P. Frahm Bryol. Beitr. 7: 35. (1987).
B: *C. incacorrallis* Herz.
- flindersii* Catcheside & J.-P. Frahm, J. Bryol. 13:363 (1985).
T: S. Australia, Flinders range, Mt. remarkable, Melrose, *Catcheside* 53.169 (holotype AD, isotype BM).
- foxworthii* Broth., Philipp. J. Sc. 5:139 (1910).
T: Philippines, Mt. Pinatubo, Luzon, *Foxworth* 2551, 2552, 2349, 2544, 5135 (syntypes NY).
OU: *C. hemitrichius* (C. Müll.) Jaeg. cf. Bartram, Philipp. J. Sc. 68:41 (1939).
CU: *C. schmidii* C. Müll. ssp. *hemitrichius* (C. Müll.) J.-P. Frahm.
- fragiliformis* J.-P. Frahm, Rev. Bryol. Lich. 45:147 (1979).
T: Type. Brazil, Rio de Janeiro, Parque Nacional Itatiaia, Agulhas Negras, *Frahm* 1637 (holotype hb. Frahm, isotypes ALTA, B, MO, SP, U).
CU: *C. fragilis* (Brid.) B.S.G. ssp. *fragiliformis* (J.-P. Frahm) J.-P. Frahm, Bryol. Beitr. 7: 35, 1987.
- fragilis* (Brid.) B.S.G. Bryol. Eur. 1: 114 (1847).
B: *Dicranum fragile* Brid. J. f. Bot. 1800 (2): 296 (1801).
T: without locality, hb. Dickson no. 40 (lectotype BM).
- fragilis* (Brid.) B.S.G. ssp. *fragiliformis* (J.-P. Frahm) J.-P. Frahm, Flor. Neotropica 54: 101 (1991).
- fragilis* (Brid.) B.S.G. ssp. *goughii* (Mitt.) J.-P. Frahm, Trop. Bryol. 4: 61 (1991).
- fragilis* (Brid.) B.S.G. ssp. *zollingerianus* (C. Müll.) J.-P. Frahm, Trop. Bryol. 4: 61 (1991).
- friabilis* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71: 432. (1872).
B: *Dicranum friabile* Hampe in C. Müll., Bot. Zeit. 17: 220. (1859).
T: Costa Rica, Las Nubes, *Wendland s. no.* (holotype not seen; isotype GOET).
OU: *C. chrismarii* (C. Müll.) Mitt. cf. Williams, N. Am. Fl. 15:136 (1913).
CU: *C. nivalis* (Brid.) Brid.
- frigidus* Lesq., Misc. Publ. U.S. Geol. Surv. 4:155 (1874).
CU: *Paraleucobryum sauteri* B.S.G. &

- Campylopus schimperi* Milde cf. Grout, Moss Fl. N. Am. 1:96, 134 (1937).
fuegianus Dus., Ark. Bot. :15 (1905).
 T: Tierra del Fuego, *Dusén* 271 (H,S).
 CU: *C. acuminatus* Mitt. cf. Frahm, Bryol. Beitr. 7: 35 (1987).
fulvoviridis Stirt., Ann. Scott. Nat. Hist. 11(42):105 (1902).
 CU: *C. brevipilus* B.S.G. cf. Dixon, J. Bot. 61:15 (1923).
fulvus (Hook.) Kindb., Bih. K. Svensk Vet. Ak. Handl. 7(9):88 (1883).
 CU: *Dicranum fulvum* Hook.
fulvus Herz., Bibl. Bot. 87:21 (1916), hom. illeg.
 T: Bolivia, Rio Paracti, 1800 m, *Herzog* 4996 (holotype JE, isotypes B, FH, H-BR, S).
 OU: *C. longisubulatus* Thér. cf. Frahm, Bryol. Beitr. 7: 35 (1987).
 CU: *C. anderssonii* (C. Müll.) Jaeg.
fumarioli C. Müll., Abh. Naturw. Ver. Bremen 16(3):496 (1900).
 T: Hawaii, Kilauea, *Schauinsland* 150 (BREM).
 CU: *C. laxitextus* Lac. cf. Frahm, The Bryologist 94: 64, 1991.
funalis (Schwaegr.) Brid., Mant. Musc. 75 (1819).
 CU: *Grimmia funalis* (Schwaegr.) B.S.G.
fuscatus Besch., J. Bot. 5: 146. 1891. Type.
fuscatus Besch., J. de Bot. 5:146 (1891).
 T: Uruguay, Montevideo, *Courbon s. no.* (holotype PC).
 CU: *C. cf. occultus* Mitt. cf. Frahm, Bryol. Beitr. 7: 36 (1987).
fusco-croceus (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:382 (1880).
 B: *Dicranum fusco-croceum* Hampe, Vid. Medd. Naturh. For.Kjoebenh. ser. 3,4: 45 (1872).
fusco-luteus Card. in Skotts., K. Svensk. Vet. Ak. Handl. 51(9):68 (1914) nom. nud.
fusco-luteus Stirt., Ann. Scott. Nat. Hist. 6:117 (1897).
 CU: *C. subulatus* Schimp. fo. cf. Podpera, Consp. 127 (1954).
fusco-viridis (Card.) Dix. & Thér. ex Hong & Ando, Biol. Inst. Cath. Med. Seoul Korea 3:373 (1959).
 T: Corée, Quen San, *Faurié* 18 (isotype BM).
 OU: *C. japonicus* Broth. var. *fusco-viridis*

- Card.
 CU: *C. atrovirens* De Not. cf. Frahm, J. Hattori Bot. Lab. 71: 135 (1992).
fusco-viridis Hampe in C. Müll., Gen. Musc. Fr. 272 (1900) nom. nud.
fuscolutescens Ren. & Card., Bull. Soc. R. Bot. Belg. 35(1): 302 (1897).
 OU: *Thysanomitrion fuscolutescens* (Ren. & Card.) Broth Nat. pfl. ed 2, 10: 188 (1924).
 T: Maurice, *Robillard* (holotype PC).
 OU: *C. controversus* (Hampe) Jaeg. cf. Frahm, Hikobia 11 (1994).
 CU: *C. thwaitesii*

G

- galapagensis* J.-P. Frahm & Sipman, J. Bryol. 10:61 (1978).
 T: Ecuador, Galapagos Islands, Santa Cruz, base of Mt. Crocker, *Gradstein & Weber* 17 (holotype U; isotypes CDRS, COLO, QCA)
 CU: *C. pilifer* Brid. var. *galapagensis* (J.-P. Frahm & Sipman) J.-P. Frahm cf. Frahm, Bryol. Beitr. 7: 88, 1987.
gallienii Par., Rev. Bryol. 27:90 (1900).
 T: Madagascar, Fort Dauphin, *Offiziers s.n.*, (holotype PC).
 CU: *C. robillardaei* Besch. cf. Frahm, Bryoph. Bibl. 31:164 (1985).
gardneri (C. Müll.) Mitt., J. Linn. Soc. Bot. 12: 83 (1869).
 B: *Dicranum gardneri* C. Müll. in C. Müll. & Hampe, Bot. Zeit. 15: 379 (1857).
 T: Brazil, Pernambuco, Sierra de Araripe, *Gardner* 20 (lectotype NY; isolectotype, S).
gastro-alaris (C. Müll.) Par., Ind. Bryol. ed. 2,1: 310. (1904).
 B: *Dicranum gastro-alare* C. Müll. Hedwigia 39: 256. (1900).
 T: Brazil, Minas Gerais, Serra de Caraca, *Ule* 1361 (holotype destroyed at B; lectotype H-BR).
gaudichaudii Besch., J. de Bot. 5:148 (1891)
 T: Chile, Ile S. Catherine (Holotypus PC). Location probably wrong.
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Crypt. Bryol. Lichénol. 39: 32, 1998.
gedehensis Baumg. & Froehl., Naturh. Mus.

- Wien 59:70 (1953) (*)
 T: Java, im Gedeh Krater 2700m, *Schiffner 10.186* (holotype W?, isotype S).
 CU: *C. macgregorii* Broth. & Geh. cf. Frahm, Trop. Bryol. 15 (in press).
- gemmatus** (C. Müll.) Par., Ind. Bryol. 82. (1900).
 B: *Dicranum gemmatum* C. Müll., Bull. Herb. Boiss. 6: 34 (1898).
 T: Brazil. Serra do Itatiaia, *Ule 1789* (holotype destroyed at B; lectotype H-BR).
geniculatus (Schwaegr.) Fuernr., Flora 12:595 (1829).
 CU: *Campylostelium saxicola* (Web. & Mohr) B.S.G. cf. Paris, Ind. Bryol. 265 (1894).
- geniculatus* Aongstr., Oefv. K. Svensk. Vet. Ak. Foerh. 29(4):80 (1872) hom. illeg.
 T: Hawaii, Honolulu, *Anderson s.n.* (S, B).
 CU: *C. umbellatus* (Arn.) Par. var. *pterotoneuron* (C. Müll.) J.-P. Frahm, Nova Hedwigia 39:602 (1984), OU: *C. richardii* Brid. cf. Dixon, J. Bot. 60:287 (1922).
- genuflexus* C. Müll., Gen. Musc. Fr. 266 (1900) nom. nud.
- geraense* Par., Ind. Bryol. ed.2,1:310 (1904) (*).
germainii Demar. & Leroy, Bull. Jard. Bot. Bruxelles 19(1):85 (1948).
 T: Congo Belge, Distr. Lac Edouard et Kivu, Nyamurugira, Tshambene, *Germain 3759* (isotype PC).
 CU: *Pilopogon africanus* Broth. in Mildbr. cf. Frahm, Bryoph. Bibl. 31:196 (1985).
- geronticus* C. Müll. Gen. Musc. Fr. 267 (1900) nom. nud.
- gertrudis* Herz., Bibl. Bot. 87:21 (1916).
 T: Bolivia, Sillar 2000 m, *Herzog 2731* (holotype JE; isotypes B, FH, H-BR, S).
 CU: *C. densicoma* cf. Frahm, Nova Hedwigia 39:155 (1984).
- gibboso-alaris* (Broth. & Par.) Wijk & Marg., Taxon 8: 72 (1959).
 B: *Thysanomitrium gibboso-alaris* Broth. & Par. Nat. Pfl. ed. 2, 10: 189 (1924).
 T: „Nova Caledonia, plateau de Dogny, soil a. rock, 750-1050 m“ *Le Rat 1402* (holotype PC).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:601 (1980).
- giganteus* Sull., Proc. Am. Ac. Arts Sc. 5:278 (1861).
 T: Cuba, *Wright s. n.* (not seen).
 OU: *C. tortuosus* (Hampe) Par. cf. Williams, N. Am. Fl. 15:147 (1913).
 CU: *C. lamellinervis* (C. Müll.) Mitt. *glaucopallidus* C. Müll., Gen. Musc. fr. 270 (1900) nom. nud.
 M: S. Catarina, *Ule 703, 836* (H-BR).
 CU: *occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 42:901 (1976).
- glaucoviridis* (C. Müll.) Par., Ind. Bryol. Suppl. 92 (1900).
 OU: *C. capillatus* Hook.f. & Wils. cf. Dixon, New Zeal. Inst. Bul. 3(3):86 (1923); *C. pallidus* Hook.f. & Wils. cf. Sainsbury, R. Soc. New Zeal. Bull. 5:116 (1955).
 CU: *C. pyriformis* (Schultz) Brid. *glaziovii* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:385 (1880).
 B: *Dicranum glaziovii* Hampe, Vid. Medd. Naturh. Foer. Kjoebenh. ser. 3, 6: 138. (1875).
 T: Type. Brazil, Rio de Janeiro, *Glaziou 6368* (isotype NY).
 CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Revue Bryol. Lich. 45:137 (1979).
- goughii* (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:424 (1872).
 B: *Dicranum goughii* Mitt., J. Linn. Bot. Suppl. 1: 17 (1859).
 T: Sikkim, *Hooker 79* (holotype NY, isotype H-SOL).
 OU: *C. zollingerianus* Bosch & Lac. cf. Frahm, Bryol. Beitr. 7: 93 (1987).
 CU: *C. fragilis* (Brid.) B.S.G. ssp. *goughii* (Mitt.) Frahm cf. Frahm, Trop. Bryol. 4: 61, 1991.
- gracilentus* Card., Bot. Centralbl. 19(2):94 (1905).
 T: Formosa, Taitun, *Faurié 35* (lectotype PC).
 CU: *C. laxitextus* Lac. cf. Frahm, J. Hattori Bot. Lab. 71: 147, 1992.
- gracilicaulis* Mitt., J. Linn. Soc. Bot. 12:83 (1869).
 T: Brazil, Rio Negro, *Spruce 60* (holotype NY, isotypes BM, FH, NY, PC, S).
 CU: *C. surinamensis* C. Müll. cf. Frahm, The Bryologist 83:581 (1980).
 OU: *C. flexuosus* (Hedw.) Brid. cf. Bartram, Fieldiana Bot. 25:43 (1949).
- gracilicaulis* Mitt. ssp. *angustiretis* (Aust.) Kind., Eur. N. Bryin. 2:204 (1897).

- CU: *C. angustiretis* (Aus.) Lesq. & Jam.
 OU: *C. surinamensis* var. *angustiretis* (Aust.) J.-P.Frahm, The Bryologist 83:582 (1980).
- gracilicaulis* Mitt. var. *donnellii* (Aust.) Grout, N.oAm. Fl. 2:92 (1937).
 CU: *C. surinamensis* C. Müll. cf. Frahm, The Bryologist 83:582 (1980).
 OU: *C. flexuosus* cf. Bartram, Fieldiana Bot. 25:43 (1949).
- gracilis** (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:427 (1872).
 B: *Dicranum gracile* Mitt. J. Linn. Bot. Suppl. 1: 17 (1859).
 T: „In Himalayae orient. temp. Sikkim, *Hooker* 69, 72 (syntypes NY).
 OU: *C. subulatus* Schimp. cf. Frahm, J. Hattori Bot. Lab. 71: 154 (1992).
- grimmioides* (C. Müll.) Kindb., Enum. Bryin. Exot. 88 (1869).
 B: *Dicranum grimmioides* C. Müll. Linnaea 43: 397 (1882).
 T: Argentina, Las Punas in tierra de Cordoba, *Lorentz s.n.* Febr. 1871.
 CU: *C. introflexus* (Hedw.) Brid. var. *cordobaensis* Thér. cf. Frahm, Bryol. Beitr. 7: 38 (1987).
- griseolus* (C. Müll.) Par., Ind. Bryol. Suppl. 92 (1900).
 B: *Dicranum griseolum* C.Müll. Hedwigia 38:80 (1889).
 T: Transvaal, Lydenburg, *Wilms s.n.* (holotype B, isotype G).
 OU: *C. polytrichoides* De Not. cf. Frahm, Revue Bryol. Lich. 42:607 (1976).
 CU: *C. pilifer* Brid.
- griseus** (Hornsch.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71: 443 (1872).
 B: *Thysanomitrium griseum* Hornsch., Fl. Bras. 1:16 (1840).
 T: Uruguay, Montevideo, *Sellow s.n.* (holotype destroyed at B; lectotype KIEL).
- griseus** Williams ssp. *ingeniensis* (Williams) J.P.Frahm, Bull. New York Bot. Gard. 3(9): 109 (1993).
 T: Bolivia, Ingenio, *Williams 1772* (holotype NY, isotypes B, FH, H-BR).
- griseus* Williams var. *lapidicola* (C. Müll.) J.-P.Frahm, Revue Bryol. Lich. 42:606 (1976).
 CU: *C. griseus* s.str. cf. Frahm, Revue Bryol. Lich. 45:150 (1979).
- guadeloupensis* (Brid.) Mitt., J. Linn. Soc. Bot. 12:77 (1869).
 B: *Dicranum guadeloupense* Brid., Spec. Musc. 1: 213 (1806).
 T: Guadeloupe, *Balby s.n.* (holotype B).
 OU: *Campylopus guadeloupensis* (Brid.) Mitt., J. Linn. Soc. Bot. 12: 77 (1869).
Pilopogon gracilis (Hook.) Brid. cf. Frahm, J. Bryol. 11:213 (1980).
 CU: *Pilopogon guadeloupensis* Brid.
- guaitecae* Dus., Ark. Bot. 4(13):13 (1905).
 T: Tierra del Fuego, Desolación, Dusén (L).
 CU: *C. vesticaulis* Mitt. cf. Frahm, Bryol. Beitr. 7: 89 (1987).
- guatemalensis* Bartr., Bryologist 49:110 (1946).
 T: Guatemala, Dep. Totonicapan, *Standley 86159* (holotype FH; isotypes F, FH, MICH).
 CU: *C. albidovirens* Herz. cf. Frahm, Lindbergia 7:29 (1981).
- guineensis* P. Varde & Thér., Bull. Mus. Hist. Nat. Paris ser.2,13:207 (1941) hom. illeg.
 T: Environs de Mali, Mont Luru nr. 2007 (PC).
 CU: *C. obrutus* cf. Frahm, Bryol. Beitr. 7: 89 (1987).
- guineensis* Thér., Bull. Mus. Hist. Nat. Paris ser. 2, 3: 772 (1931).
 T: Guinee fr., Deloba, *Chevalier s.n.* (holotype PC).
 CU: *C. obrutus* P. Varde & Thér. cf. Frahm, Nova Hedwigia 39: 596 (1984)
- gulliveri* R. Brown ter., Trans. New Zeal. Inst. 29:472 (1897).
 OU: *Campylopodium euphorocladum* (C. Müll.) Besch. cf. Dixon, New Zeal. Inst. Bull. 3(3):77 (1923) = CU: *Campylopodium medium* (Duby) Giese & J.-P.Frahm.

H

- haitensis* Thér., Rev. Bryol. Lich. 14:8 (1944).
 T: Haiti, Mt. Formon, *Ekman 7561* (isotypes F, NY, S).
 OU: *Campylopus filifolius* var. *humilis* cf. Frahm, Lindbergia 7:30 (1981).
 CU: *Bryohumbertia filifolia* var. *humilis*
- hakoniae* C. Müll., Gen. Musc. fr. 266 (1900) nom. nud.
- hallii* Lesq., Misc. Publ. U.S.Geol. Geogr. Survey 4:155 (1874).

- CU: *Paraleucobryum enerve* (Thed.) Loeske cf. Grout, Moss Fl. N.Am. 2:96 (1937).
- hamatus* Broth. in Roiv., Ann. Bot. Soc. Fenn. Vanamo 9(2):29 (1937).
T: Chile, Vulcan Uaima, *Ruthsatz* (1966) s.n. (holotype H-BR).
CU: ? *Chorisodontium* sp.
- handelii* Broth., Symb. Sin. 4:18 (1929).
T: China, Yünnan, *Handel-Mazetti* 7676 (isotype S).
CU: *C. schimperi* Milde cf. Frahm, Cryptogamie Bryol. Lich. 3(1):64 (1982).
- handelii* Broth. var. *setschwanicus* Broth., Symb. Sin. 4: 18 (1929)
T: China, Yünnan, *Handel-Mazetti* 1515 (isotype S).
CU: *C. schimperi* Milde cf. Frahm, Cryptogamie Bryol. Lich. 3(1):64 (1982).
- harpophyllus* Herz., Bibl. Bot. 87:22 (1916).
T: Bolivia, Cerros de Malaga, *Herzog* 4796 (holotype JE; isotypes B, S).
CU: *C. edithae* Broth. cf. Frahm, Bryol. Beitr. 7: 39 (1987).
- harrisii* (C. Müll.) Par. Ind. Bryol. Suppl. 92 (1900).
B: *Dicranum harrisii* C. Müll., Bull. Herb. Boiss. 5: 553 (1897).
T: Jamaica, Newhaven Pass, *Harris* 11008 (holotype destroyed; lectotype NY; isolectotype S).
CU: *C. cubensis* Sull. cf. Frahm, Nova Hedwigia 41:275 (1985).
- harrisii* (C. Müll.) Par. var. *longifolius* (Bartr.) Bartr., J. Wash. Ac. Sc. 19:12 (1929).
OU: *C. filifolius* (Hornsch.) Mit. var. *longifolius* (Bartr.) Bartr., *C. filifolius* cf. Frahm, Nova Hedwigia 41: 275 (1985).
CU: *Bryohumbertia filifolia* (Hornsch.) Frahm
- hartmanii* Schimp. ex Hartm., Bot. Not. 1855:49 (1855).
CU: *Tortella fragilis* (Hook. & Wils.) Limpr. cf. Lindb., Oefv. K. Vet. Akad. Foerh. 20:387 (1863).
- hawaiiico-flexuosus* (C. Müll.) C. Müll., Abh. Naturw. Ver. Bremen 16(3):494 (1900).
B: *Dicranum hawaiiico-flexuosum* C. Müll., Flora 82: 443 (1896).
T: Hawaii, without locality, *Hillebrand* s.n. (holotype destroyed at B, isotypes not known).
- OU: *C. purpureoflavescens* (C. Müll.) Par. cf. Bartr., Bishop Mus. oc. Pap. 16:323 (1942); *C. densifolius* Aongstr. var. *hawaiiico-flexuosus* (C. Müll.) Mill.
CU: C: *hawaiiicus* (C. Müll.) Jaeg. var. *hawaiiico-flexuosus* (C. Müll.) J.-P. Frahm cf. Frahm, The Bryologist 94: 62 (1991).
- hawaiiicus** (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:436 (1872).
B: *Dicranum hawaiiicum* C. Müll., Bot. Zeit. 20: 328 (1862).
T: Hawaii, *Didrichsen* in exped. transatl. Danica 1861 (PC).
HS: *C. hawaiianus* (C. Müll.) Par., Ind. Bryol. 249 (1894).
OU: *C. umbellatus* (Arn.) Par. cf. Bartr., Bishop Mus. Bull. 101:44 (1933); *C. richardii* Brid. cf. Dixon, J. Bot. 60:287 (1922).
- hawaiiicus** (C. Müll.) Jaeg. var. **hawaiiico-flexuosus** (C. Müll.) J.-P. Frahm cf. Frahm, The Bryologist 94: 62 (1991).
- heinrici* Ren. & Card. ex Kindb., Eur. N. Am. B
helenicus (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:431 (1872).
B: *Dicranum helenicum* C. Müll., Syn. Musc. 2: 599 (1851).
T: „St. Helena, Kunze donavit“ (could not be located).
CU: *C. arcuatus* (Brid.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:19 (1985).
- hellerianus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:417 (1872).
HS: *C. helleri* Hampe ex Kindb., Enum. Bryin. Exot. 50 (1888).
B: *Dicranum hellerianum* Hampe, Verh. K.K. Zool. Bot. Ges. Wien 19: 507 (1870).
T: Mexico, Huatusco, *Heller* s.n. (FH, NY).
CU: *C. heterostachys* (Hampe) Jaeg., cf. Frahm, Nova Hedwigia 34:393 (1891).
OU: *C. flexuosus* (Hedw.) Brid. cf. Bartram, Fieldiana Bot. 25:43 (1949).
- hemitrichius* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:384 (1880).
B: *Dicranum hemitrichium* C. Müll., Linnaea 38: 553 (1874).
T: Philippines, reg. montana, *Wallis* (lectotype FH).
CU: *C. schmidii* C. Müll. ssp. *hemitrichius* (C. Müll.) J.-P. Frahm cf. Frahm, The

- Bryologist 94: 64 (1991).
- henrici* Ren. & Card., Bot. Gaz. 13:197 (1888).
CU: *Dicranella heteromalla* (Hedw.) Schimp.
cf. Williams, N.Am.Fl. 15:89 (1919).
- hensii* Ren. & Card., Bull. Soc. R. Bot. Belg.
35:301 (1897).
T: Congo, Bougalu, *Hens 36* (isotype G)
- heribaudii* Ren. & Card., Bull. Soc. R. Bot. Belg.
209(1):168 (1890).
T: Madagaskar circa Tananarive, *Camboue s.n.* (holotype PC, isotypes S).
CU: *C. robillardaei* Besch. cf. Frahm, Bryoph. Bibl. 31:164 (1985).
- herzogii* Broth., Hedwigia 50:122 (1910).
T: Ceylon, Adams Peak, *Herzog* (holotype JE).
OU: *C. aureus* Bosch. & Lac. cf. Frahm, J. Bryol. 13:165 (1984).
CU: *C. schmidii* C. Müll.
- heteroneuron* Thér., Bull. Soc. Bot. Geneve 26:79 (1936).
T: Transvaal, Sanatorium, *Junod s.n.* (holotype PC).
CU: *C. flaccidus* Ren. & Card. cf. Frahm, Nova Hedwigia 39:592 (1984).
- heterophyllus* Mitt., J. Linn. Soc. Bot. 12:77 (1869).
T: Type. Colombia. „Andes Bogotenses, in montibus inter Bucumaranga et Pamplona“, *Weir 347* (holotype NY, isotypes FH, H-BR, S).
CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Nova Hedwigia 34:391 (1981).
- heterostachys* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71: 421 (1872).
B: *Dicranum heterostachys* Hampe, Flora 48: 581 (1865).
T: Peru, Prov. Carabaya, Sandia, *Hasskarl s.no.* (holotype BM; isotype S).
- hildebrandtianus* Fleisch., Musci Fl. Buitenzorg 1:112 (1904).
HS: *C. hildebrandii* Broth. in Fleisch. l.c. nom. nud.
OU: ? *C. subulifolius* cf. Frahm, J. Bryol. 13:182 (1984).
CU: *C. comosus* cf. Eddy, Malesian Mosses vol. 1 (1988).
- hildebrandtii* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:382 (1880).
B: *Dicranum hildebrandtii* C. Müll. Linnaea 40: 236 (1876).
T: Comoren Insel Johanna, *Hildebrandt* (1839) (holotype B, isotype G).
- hispidus* Ren. & Card., Bull. Soc. R. Bot. Belg. 29(1):171 (1890).
T: Madagascar, Imerina, Ambohimalaza, *Camboué s.n.* (holotype PC).
CU: *C. pilifer* Brid. cf. Frahm, Bryol. Beitr. 7: 40 (1987).
- hoehnelii* (C.Müll.) Broth. Bot. Jahrb. 20:177 (1894).
B: *Dicranum hoehnelii* C.Müll., Flora 73: 473 (1890).
T: Kilimandscharo, *Höhnel* (1889) *s.n.* (isotype PC, lectotypus nov. BM).
CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:143 (1985).
- hoehnelii* (C.Müll.) Broth. var. *subelamellatus* Broth. in Mildbr., Wiss. Erg. Deutsch. Zentr. Afr. Exp. 2:141 (1910).
T: T: Ninagongo, Lavaspalten des Kraters, ca. 3300 m, *Mildbraed 2004* (H-BR).
CU: *C. johannis-meyeri* (C. Müll.) Par. cf. Frahm, Bryoph. Bibl. 31:106 (1985).
- hoffmannii* (C. Müll.) Ren. & Card., Bull. Soc. R. Bot. Belg. 31(1): 147 (1893).
B: *Dicranum hoffmannii* C. Müll., Linnaea 38: 592 (1872).
T: Costa Rica. Forets du Barba, *Bondez 9909* (holotype destroyed at B; lectotype H-BR).
CU: *C. cuspidatus* cf. Frahm, J. Hattori Bot. Lab. 44:485 (1978) non Allen, Trop. Bryol. 1: 84 (1989).
- holomitrium* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:421 (1872).
B: *Dicranum holomitrium* C. Müll., Syn. Musc. 1: 389 (1848).
T: „Ad Insel Bay, Nova Zeelandia“, *Hooker s.n.* (BM).
OU: *C. capillaceus* Hook.f. & Wils. cf. Jaeg. l.c.
CU: *Campylopodium medium* (Duby) Giese & J.-P.Frahm cf. Frahm, Bryol. Beitr. 7: 41 (1987).
- holomitrius* auct. = *C. lonchochaete* C. Müll.
- homalobolax* (C. Müll.) Par., Ind. Bryol. Suppl. 92 (1900). (*)
- homomallus* Leroy & Thér., Bull. Jard. Bot. Bruxelles 18:162 (1947).
T: Congo bel., Distr. du Lac Albert, Djugu,

- Leroy 44B* (holotype BR).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Bryoph. Bibl. 31:76 (1985).
hondurensis Bartr., Field Mus. Nat. Hist. Bot. 4:351 (1929).
 T: Honduras, *Standley 56157a* (lectotype F).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Bartram, Fieldiana Bot. 25:43 (1949).
horridus Welw. & Duby Mem. Soc. Phys. Hist. Nat. Geneve 21:222 (1870).
 T: Angola, Pungo Andongo 2300 ped., *Soyana 76* (lectotypus BM),
 CU: *savannarum* (C. Müll.) Mitt. cf. Frahm, Bryoph. Bibl. 31:171 (1985).
huallagensis Broth., Hedwigia 45:261 (1906).
 T: Peru. Rio Huallaga, *Ule 2358* (holotype H-BR; isotypes JE, FH).
huallagensis var. *weberbaueri* Brotherus Bot. Jahrb. 56, Beibl. 123: 5 (1920).
 T: Peru, Loreto: E of Moyobamba, *Weberbauer 4718* (holotype H-BR).
humifugus (C. Müll.) Kindb., Enum. Bryin. Exot. 88 (1889).
 B: *Dicranum humifugum* C. Müll., Linnaea XLIII: 400 (1882).
 T: Argentina, Gran Chaco, Rio Secco, *Lorentz s. n.* (holotype destroyed at B; lectotype H-BR; isolectotype FH).
 CU: *C. occultus* Mitt. cf. Frahm, Bryol. Beitr. 7: 41 (1987).
humilis Mont., Ann. Sc. Nat. Bot. ser. 3,4:110 (1845).
 T: Type. Brazil, *Blanchet 103* (holotype PC; isotype NY).
 OU: *C. filifolius* var. *humilis* (Mont.) J.-P. Frahm, Nova Hedwigia 29:249 (1978).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm var. *humilis* (Mont.) J.-P. Frahm.
humicola (C. Müll.) Par., Ind. Bryol. ed.2,1:313 (1904).
 B: *Dicranum humicola* C. Müll., Hedwigia 39: 256 (1900).
 T: Brazil, Rio de Janeiro, Corcovado, *Ule 1650* (holotype destroyed at B; lectotypus nov., H-BR).
 OU: *C. controversus* cf. Frahm, Revue Bryol. Lich. 43:141 (1979).
 CU: *C. thwaitesii*
huntii Stirt., Ann. Scott. Nat. Hist. 8(30):106 (1899).
 OU: *C. schwarzii* Schimp. var. *huntii* (Stirt.) Dix. = *C. schwarzii* s.str. ?
 CU: *C. gracilis* (Mitt.) Jaeg. hygrometricus Rehm. in Geh., Rev. Bryol. 5:69 (1878) nom. nud.
 OU: *C. purpurascens* Lor. cf. Sim, Trans. R. Soc. S. Afr. 15:176 (1926); *C. pilifer* Brid. cf. Magill, Fl. S. Afr. Bryoph. 1(1):152 (1981).
 CU: *C. aureonitens* (C. Müll.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:21 (1985).
hygrophilus Broth. in Skottsbo., Nat. Hist. Juan Fernandez 2(3):242 (1924).
 CU: *C. vesticaulis* Mitt. cf. Frahm, Bryol. Beitr. 7: 41 (1987).
- ## I
- inandae* (C.Müll.) Par. Ind. Bryol. Suppl. 92 (1900).
 B: *Dicranum inandae* C.Müll. Hedwigia 38:95 (1899).
 T: Natal, Inanda, *Rehmann 43* (lectotypus nov. NY, isotypes L, G, PC).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryoph. Bibl. 31:171 (1985).
 OU: *C. purpurascens* Lor. cf. Sim, Trans. R. Soc. S. Afr. 15:176 (1926).
incacorrallis Herzog, Beih. Bot. Centralbl. 26: 52 (1910).
 T: Bolivia, Incacorrall, *Herzog 285* (holotype JE, isotype B).
 CU: *C. flexuosus* (Hedw.) Brid. var. *incacorrallis* (Herz.) J.-P. Frahm, Bryol. Beitr. 7: 42 (1987) comb. invalid.
incertus Thér., Rev. Bryol. Lichenol. 11: 63 (1939).
 T: Colombia, Paramo El Boqueron near Bogota, *Troll 2161* (lectotype PC, isotypes FH, JE).
inchangae (C. Müll.) Par., Ind. Bryol. Suppl. 92 (1900).
 B: *Dicranum imerangae* C. Müll. Hedwigia 38: 83 (1899).
 HS: *C. imerangae* (C. Müll.) Par., Ind. Bryol. Suppl. 92 (1900), *Campylopus incrangae* (C. Müll.) Dix. & Gepp, Bull. Misc. Inf. Kew 1923:197 (1923), *Campylopus inchangae* (C. Müll.) Thér. in Dix., Trans. R. Soc. S. Afr. 8:185 (1920).
 T: Natal, Inchanga, *Rehmann 42* (BM).

- CU: *C. robillardaei* Besch. cf. Frahm, Bryoph. Bibl. 31:164 (1985).
- incrassatus** C. Müll. Linnaea 18:686 (1845).
T: Chile, Talcahuana, *Poeepig* 22 (H-BR, JE, NY).
- incurvatus** J.-P. Frahm & Hoe, Bryologist 81:449 (1978).
T: Hawaii: E Mauna Kea, S. Hilo Distr., Kolekole Stream 585m, *Balakishnan* & *Jacobi* 30328 (holotype hb. Frahm, isotypes BISH, MICH, MO, NICH, U, hb. Hoe).
- ingeniensis** Williams, Bull. New York Bot. Garden 3(9):109 (1903).
T: Bolivia, Ingenio, *Williams* 1772 (holotype, NY; isotypes B, FH, H-BR). CU: *C. griseus* (Hornsch.) Jaeg. ssp. *ingeniensis* (Williams) J.-P. Frahm.
- insignis** Herz., Bibl. Bot. 87:23 (1916).
T: Bolivia, Abra San Mateo. *Herzog* 3721 (holotype JE).
OU: *C. multicapsularis* (C. Müll.) Schimp. cf. Theriot, Revue Bryol. 11:42 (1939).
CU: *C. nivalis* (Brid.) Brid. var. *multicapsularis* (C. Müll.) J.-P. Frahm.
- insititius** Hook.f. & Wils., Fl. Tasman. 2:172 (1859).
HS: *C. insidiosus* Hook.f. & Wils. ex Mitt., Proc. R. Soc. Victoria 19:55 (1892)
CU: *C. clavatus* (R. Brown) Wils. cf. Sainsb., Trans. New Zeal. Inst. 59:507 (1928).
- insularis** Bartr., Proc. California Ac. Sc. ser.4,21:79 (1933).
T: Ecuador, Galapagos Isl.: Duncan Isl., *Stewart* 3323 (lectotype FH).
CU: *C. anderssonii* Bartr. cf. Frahm, Fl. Neotr. 54: 47 (1991).
- intermedius** Wils. in Hunt., Mem. Lit. Phil. Soc. Manchester ser.3,3:234 (1868) nom. nud.
OU: *Campylopus alpinus* cf. Hunt l.c.
CU: *Dicranodontium denudatum* (Brod.) Britt. ssp. *alpinum* (Schimp.) Giac.
- interruptulus** C. Müll. ex Besch., Ann. Sc. Nat. Bot. ser. 6,9:324 (1880).
CU: *Bryohumbertia spec.* cf. Frahm, Bryoph. Bibl. 31:197 (1985).
- intorquatus** Watts. & Whitel., Proc. Linn. Soc. N.S. Wales Suppl. 27:45 (1902) nom. nud.
- intorquatus** Watts. & Whitel. var. *flavifolius* Watts. & Whitel. l.c., nom. nud.
- introflexus** (Hedw.) Brid., Mant. Musc. 72 (1819).
B: *Dicranum introflexum* Hedw. Spec. Musc. 147 (1801).
T: „Nova Hollandia“ (G).
introflexus (Hedw.) Brid. var. *cordobaensis* Thér. in Bauer, Musci Eur. Am. Exsicc. ser. 45 n. 2204 (1934).
CU: *C. pilifer* x *C. introflexus*.
- involutus** (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:418 (1872) .
B: *Dicranum involutum* C. Müll., Bot. Zeit. 11: 34 (1853).
T: India, Montes Neilgherienses, *Schmid s.n.* (H-BR).
CU: *C. ericoides* (Griff.) Jaeg. cf. Frahm, J. Hattori Bot. Lab. 71: 140, 1992.
- irregularis** Lor., Verh. Zool. Bot. Ges. Wien 17:683 (1867) nom. nud.
CU: *Ditrichum heteromallum* (Hedw.) Britt. var. *zonatum* (Brid.) Podp. cf. Lor. l.c.
- irrigatus** Thér., Bull. Ac. Geogr. Bot. 19:18 (1909).
T: China, Konyt Chen, *Cavalerie* 1673 (holotype PC).
CU: *C. japonicus* Broth. cf. Frahm, Bryol. Beitr. 7: 43 (1987).
- يسانctus** Sak., Bot. Mag. Tokyo 65:90 (1952).
CU: *Dicranella spec.* cf. Takaki, J. Hatt. Bot. Lab. 30:247 (1967).
- itacolumitis** (C. Müll.) Broth., Nat. Pfl. 1(3):334 (1901). (*)
- ## J
- jamaicensis** Mitt., J. Linn. Soc. Bot. 12: 82. 1869.
T: Jamaica, *Wilson* 813 (holotype NY).
CU: *Campylopus cygneus* (Hedw.) Brid. cf. Williams, N. Am. Fl. 15(2):137 (1913).
- jamesonii** (Hook.) Jaeg. Ber. S. Gall. Naturw. Ges. 1870-71: 422 1872
B: *Dicranum jamesonii* Hook., Pl. rar. 2: 179 1837
T: Ecuador „in montre Surruchecho“ *Jameson* s.n.
japonicus Broth., Hedwigia 38:207 (1899).
T: Japan, without detailed locality, *Ankarcrona* s. n. (holotype, H-BR).
CU: *Campylopus sinensis* (C. Müll.) J.-P. Frahm cf. Frahm, Ann. Bot. Fenn. 34: 202, 1997.

- jashii Broth. in Nav., Bull. Soc. R. Bot. Belg. 60(1):21 (1927) nom. nud.
CU: *Dicranum jashii* Thér. cf. Nav. l.c.
- johannis-meyeri** (C. Müll.) Par., Ind. Bryol. 251 1894
B: *Dicranum j.-m.* C. Müll. Flora 71: 410 1888
T: Kilimandscharo, ad finem silvestris 3000-4000 m *Dr. Meyer* s.n. (Lectotype PC)
- joinvilleanus** (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:382 (1880)
B: *Dicranum joinvilleanum* Hampe, Vid. Medd. Naturh. For. Kjoebenh. ser. 3,4: 45. 1872.
OU: *C. joinvillei* Hampe ex Kindb., Enum. Bryin. Exot. 50 (1888) nom. illeg.
CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 45:156 (1979).
- juarangae** Par., Ind. Bryol. 251 (1894) err. pro *C. inerangae*
OU: *C. inchangae* (C. Müll.) Par.
CU: *C. robillardae* cf. Frahm, Bryoph. Bibl. 31:164 (1985).
- jugorum** Herzog, Beih. Bot. Centralbl. 26(2): 51. 1910.
T: Bolivia, Cochabamba, Abra San Benito, *Herzog 3356* (holotype, JE; isotype, B).
- julaceus** Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78: 384 1880
B: *Dicranum julaceum* Hampe, Vidd. Medd. Naturh. For. Kjoebenhavn ser. 3,4:45. 1872 hom. illeg.
T: Brazil, Rio de Janeiro, Serra dos Orgaos, *Glaziou 4554* (holotype BM? [not seen]; isotypes H-BR, PC).
- julaceus** Jaeg. ssp. **arbogastii** (Ren. & Card.) J.-P. Frahm, Bryophytorum Bibliotheca 31: 109 1985
B: *Campylopus arbogastii* Ren. & Card.
T: Sainte Marie de Madagascar, in terra arenosa, *Arbogast* s.n. (holotype PC, isotype G)
- julaceus** Rehm. in Par., Ind. Bryol. 252 (1894) nom. nud.
M: Orange Free State, Kadziberg, *Rehmann* 58 (B, L).
OU: *C. pseudojulaceus* Sim hom. illeg. cf. Sim, Trans. R. Soc. S. Afr. 15:169 (1926), *C. simii* Schelpe
nom. nov.
CU: *C. julaceus* Jaeg. ssp. *arbogastii*
- julicaulis** Broth., Denkschr. Ak. Wiss. Wien math.-nat. Kl. 83:261. 1926.
T: Brazil. Paraná, Roca Nova, *Dusén 245* (holotype H-BR; isotypes, FH, JE, NY).

K

- kaalaasii** Hag. in Kaal., K. Norsk Vid. Selsk. Skrifter 1910 (7): 55 (1911)
CU: *Dicranodontium denudatum* (Brid.) Britt. var. *kaalaasii* (Hag.) C.Jens.
- kingii** Robins., Bryologist 70(1): 18 (1967)
T: Colombia, *King & Guevara C-1132* (holotype US, isotype COLO)
OU: *C. chrysodictyon* (Hampe) Mitt. cf. Frahm, J. Hatt. Bot. Lab. 44:485 (1978)
CU: *C. pauper* (Hampe) Mitt. cf. Frahm, Fl. Neotr. 54: 148 (1991).
- kirkii** Mitt. in Beck., Trans. New Zeal. Inst. 26:280 (1894)
CU: *C. acuminatus* Mitt var. *kirkii* (Mitt.) J.-P. Frahm, Bryol. Beitr. 7: 95 (1987).
- kirkii** Mitt. in Beck. var. *pilosus* Frahm, Lindbergia 7: 30 (1981).
T: New Zealand, North Island, Kaiwi & Taharoa Lake, *Barthlett s.n.* (holotype CHR).
CU: *C. acuminatus* Mitt. cf. Frahm, Bryol. Beitr. 7: 95 (1987).
- kirkii** var. *pilosus* J.-P.Frahm, Lindbergia 7:30 (1981).
CU: *C. acuminatus* Mitt. cf. Frahm, Bryol. Beitr. 7: 95 (1987).
- kiusiuensis** Broth. in Ihs., Nihon - Senrui Bunriu 137, 1932. (*)
- kivuensis** P.Varde & Thér., Bull. Soc. Bot. France 87:352 (1940)
T: Congo bel. Kivu, volcan Ninagongo 2900-2800 m *Humbert 7651B* (holotype PC).
CU: ? *C. johannis-meyeri* (C. Müll.) Kindb. cf. Frahm, Trop. Bryol. 8: 159 (1994).
- kouroussensis** Ren. & Par., Rev. Bryol. 30:66 (1903)
T: Guinea, Kouroussa, *Pobeguin s.n.* (holotype PC, isotype NY).
CU: *C. perpusillus* Mitt. cf. Frahm, Bryoph. Bibl. 31:139 (1985).
- krauseanus** (Hampe & Lor.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:427 (1872).
B: *Dicranum krauseanum* Hampe & Lorentz, Bot. Zeit. 27: 434. 1869.
T: Ecuador, *Krause* s. n. (holotype not seen;

isotype GOET).

OU: *C. krausei* Hampe & Lor. ex Kindb., Enum. Bryin. Exot. 88 (1889); *C. chrismarii* (C. Müll.) Mitt. cf. Williams, N. Am. Fl. 15:136 (1913).

CU: *C. nivalis* (Brid.) Brid.

kunertii Par., Ind. Bryol. Suppl. 93 (1900) nom. illeg.

OU: *C. pseudojulaceus* C. Müll.

CU: *C. julaceus* Jaeg. ssp. *arbogastii* (Ren. & Card.) J.-P. Frahm.

kunkelii Bartr., Ark. Bot. ser.2,4:31 (1957).

T: Juan Fernandez, Masafuera, *Skottsberg* 18 (isotype S).

CU: *C. pyriformis* (Schultz) Brid. cf. Corley & Frahm, J. Bryol. 12:190 (1982).

kurzii Hampe in C. Müll., Gen. Musc. Fr. 271 (1900) nom. nud.

L

labeensis Broth. & Par., Rev. Bryol. 38: 25 (1911).

T: Guinea, Fouta Djallon, in jugo Labe, *Pobeguïn s.n.* (isotype BR).

CU: *C. cambouei* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:45 (1985).

lacouturei Thér. in Broth., Nat. Pfl. ed.2,10:187 (1924) nom. nud.

laete-virens (Broth.) J.-P.Frahm, Revue Bryol. Lich. 41:328 (1975) hom. illeg.

B: *Thysanomitrium laete-virens* Broth., Acta Hort. Gothenburg 1: 189 (1924).

T: Chile Prov. Concepción, prope Talcahuano, *Skottsberg* 62 (lectotype H-BR).

CU: *C. laxoventralis* Herz. ex J.-P. Frahm, Bryol. Beitr. 7: 45 (1987).

laete-virens (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:424 (1872).

B: *Dicranum laete-virens* C. Müll., Bot. Zeit. 20: 12 (1862).

CU: *C. fragilis* (Brid.) B.S.G. cf. Corbiere, Mem. Soc. Bot. France 7:8 (1907).

laetus (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:417 (1872).

B: *Dicranum laetum* Mitt., J. Linn. Soc. Bot. Suppl. 1: 19 (1859).

T: East Bengal, Khasia Mtns., *Hooker & Taylor* 84 (holotype NY).

CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, J. Bryol. 13:179 (1984).

laevigatus (C. Müll.) Schimp. in Besch., Mem. Soc. Sc. Nat. Cherbourg 16:167 (1872) hom. illeg.

B: *Dicranum laevigatum* C. Müll., Syn. Musc. II: 601 (1851).

T: Mexico, *Liebmann s. n.* (holotype destroyed at B; lectotype H).

CU: *C. richardii* Brid. cf. Dixon, J. Bot. 60:287 (1922).

OU: *C. umbellatus* (Arn.) Par. cf. Williams, N. Am. Fl. 15:14 (1913).

laevigatus Brid., Mant. Musc. 76 (1819).

CU: *Grimmia laevigata* (Brid.) Brid.

laevis Tayl., London J. Bot. 5:47 (1846).

T: Ecuador, Mt. Pichincha, Jameson (FH).

OU: *Pilopogonella laevis* (Tayl.) Bartr.

CU: *Pilopogon laevis* (Tayl.) Thér.

lamellatus Mont., Ann. Sc. Nat. Bot. ser. 2,9:52 (1888).

T: Bolivia (holotype PC; isotype BM).

CU: *C. pilifer* Brid. var. *lamellatus* (Mont.) Gradstein & Sipman.

OU: *C. introflexus* (Hedw.) Brid. cf. Mitten, J. Linn. Soc. Bot. 12:84 (1869).

lamellicosta (C. Müll.) Schimp. in Besch., Mem. Soc. Sc. Nat. Cherbourg 16:167 (1872).

B: *Dicranum lamellicosta* C. Müll., Syn. Musc. 2: 601 (1851).

OU: *C. introflexus* (Hedw.) Brid. cf. Williams, N. Am. Fl. 15:144 (1913).

CU: *C. pilifer* Brid.

lamellinervis (C. Müll.) Mitt., J. Linn. Soc. Bot. 12:82. (1869).

B: *Dicranum lamellinerve* C. Müll., Syn. Musc. 1:390 (1848).

T: Jamaica, *Wilson s. n.* (holotype destroyed at B; isotypes could not be located).

lamellinervis (C. Müll.) Mitt. var. *exaltatus* (C.Müll.) J.P. Frahm, Bryoph. Bibl. 5: 78 (1975).

B: *Dicranum exaltatum* C. Müll., Linnaea 42: 472 (1879).

OU: *Campylopus exaltatus*

lamprodictyon (Hampe) Mitt., J. Linn. Soc. Bot. 12:78 (1869).

B: *Dicranum lamprodictyon* Hampe, Ann. Sc. Nat. Bot. ser. 5,5: 339 (1866).

T: Colombia, Bogotá La Penna, *Lindig s. n.* (holotype, BM; isotype S).

CU: *C. pauper* (Hampe) Mitt. var.

- lamprodictyon* (Hampe) J.-P. Frahm, Bryol. Beitr. 7: 96 (1987).
- laniger* (C. Müll.) Besch., Bull. Soc. Bot. France 32:LVI (1885).
CU: *Chorisodontium lanigerum* (C. Müll.) Broth.
- lapidicola* (C. Müll.) Par., Ind. Bryol. ed.2,1:315 (1904).
B: *Dicranum lapidicola* C. Müll., Hedwigia 39: 358 (1900).
T: Brazil. S. Catarina, Orleans, *Ule 701* (holotype destroyed at B; lectotype H-BR).
OU: *C. griseus* var. *lapidicola* (C. Müll.) J.-P. Frahm, Rev. Bryol. Lich. 42:606 (1976).
CU: *C. griseus* s.str.
- latifolius* Card., Rev. Bryol. 36:16 (1909).
T: Congo belg., *Hens s.n.* (holotype PC).
CU: *C. perpusillus* Mitt. cf. Frahm, Bryoph. Bibl. 31:139 (1985).
- latifolius* Rehm. in Kindb., Enum. Bryin. Exot. 9 (1888) nom. nud.
M: Transvaal, in uliginosis montis Lechlaba, *Rehmann 448* (PC).
CU: *C. flaccidus* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:71 (1985).
OU: *C. trichodes* Lor. (= *C. pilifer* Brid.) cf. Sim, Trans. R. Soc. S. Afr. 15:168 (1926).
- latinervis* (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:426 (1872).
B: *Dicranum latinerve* Mitt., J. Linn. Soc. Bot. Suppl. 1: 17 (1859).
T: Sikkim, *Hooker 80*.
OU: *C. gracilis* cf. Frahm, J. Bryol. 13:176 (1984).
- latinervis* Herz., Bibl. Bot. 87:19 (1916) hom. illeg.
CU: *C. renneri* Herz.
- latipilis* C. Müll. In Kindb., Enum. Bryin. Exot. 106 (1891) nom. nud.
M: Chile, Valdivia, *Han s.n.* (H-BR).
CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Revue Bryol. Lich. 42:605 (1976).
- latolaminatus* C. Müll. in Broth., Nat. Pfl. 1(3):334 (1901) nom. nud.
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Revue Bryol. Lich. 45:161 (1979).
- laureri* Lor. in C. Müll., Gen. Musc. Fr. 266 (1900) nom. nud.
- lavardei* Thér. in P. Varde, Bull. Soc. Bot. France 71:1055 (1924).
T: Haute Forêt du Kilima-Njaro, no. 916 (holotype PC).
CU: *C. cambouei* Ren. & Card. cf. Frahm, Bryol. Beitr. 7: 46 (1987).
- laxiretis* Bartr., Ark. Bot. ser.2,4:30 (1957) hom. illeg.
OU: *C. masafuerae* J.-P. Frahm nom. nov., *C. blindioides* Broth. in Skotts. cf. Robinson, Smiths. Contr. Bot. 27:26 (1975).
CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 46 (1987).
- laxiretis* Herz., Beih. Bot. Centralbl. 26(2):54 ().
T: Bolivia, bei Incacorral Prov. Cochabamba, *Herzog 15* (isotype L).
OU: *Atractyloctenium spec.* cf. Frahm, J. Hatt. Bot. Lab. 44:484 (1978).
CU: *Atractyloctenium longisetum* cf. Padberg & Frahm, Cryptogamie Bryol. Lich. 6:326 (1985).
- laxitextus* Sande Lac., Natuurk. Ver. Kon. Wetensch. Akad. Amsterdam 13: 10 (1872).
T: Java, Lacoste s.n. hb. Dozy & Molkenboer (holotype L, isotypes B, BM, W).
- laxobasis* Ren. & Card., Bull. Soc. R. Bot. Belg. 35(1):299 (1897).
T: Madagaskar, Imerina, Ambatomanga, *Camboue s.n.* (holotype PC).
CU: *C. cambouei* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:45 (1985).
- laxoventralis* Herz. ex J.-P. Frahm, Nova Hedwigia 31:428 (1979).
T: Nordchile: Fray George, Tigre Zapallar, *Schwabe 232* (holotype JE).
- leanus* (Sull.) Sull. & Lesq., Musci Bor. Am. 18 (1859).
CU: *Brothera leana* (Sull.) C. Müll.
- lechleri* Schimp. in Lor., Bot. Zeit. 24:186 (1866) nom. nud.
CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Bryoph. Bibl. 5:80 (1975).
- lecomtei* Besch. in P. Varde, Rev. Bryol. Lich. 7:231 (1935) nom. nud.
- leioneuron* Thér. & P. Varde, Rev. Bryol. 491: 40 (1922).
T: India, Maduré, *André 475* (holotype PC).
CU: *C. involutus* (C. Müll.) Jaeg. cf. Frahm, Nova Hedwigia 39: 593 (1984).
- lenormandii* Thér., Bull. Soc. Bot. Geneve 26:76 (1936).

- T: Australia, Mt. Macedon, F. Müller ex hb. Lenormand nr. 19 (isotype H-BR).
 OU: *C. pallidus* cf. Frahm, Cryptogamie Bryol. Lich. 3(1):64 (1982).
 CU: *C. pyriformis* (Schultz) Brid.
- lepidophyllum* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:435 (1872).
 B: *Dicranum lepidophyllum* C. Müll., Syn. Musc. 407 (1848).
 T: Cape, Palmiet River, *Ecklon s.n.* (BM).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Revue Bryol. Lich. 41(3):321 (1975).
- leptocarpus* Wils. in Hook.f., Fl. Nov. Zel. 2:68 (1854) nom. nud.
 OU: *C. leptodus* Mont. cf. Wilson l.c.
 CU: *C. clavatus* (R.Brown) Wils. cf. Sainsb., R. Soc. New Zeal. Bull. 5:110 (1955).
- leptocephalus* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:435 (1872).
 B: *Dicranum leptocephalum* C. Müll., Bot. Zeit. 9: 551 (1851).
 T: New Zealand, between Waitenabe and Kaipora, *Mossman 726* (NY).
 CU: *C. introflexus* (Hedw.) Brid. cf. Mitten, J. Linn. Soc. Bot. 12:84 (1869).
- leptodictyon* Broth., Denkschr. Ak. Wiss. Wien math. nat. Kl. 83:259 (1926).
 T: Brazil, *Glaziou 11744* (lectotype, H-BR).
 CU: *C. angustiretis* Sull. & Lesq. cf. Frahm, Nova Hedwigia 41:276 (1985).
- leptodrepanium* (Broth.) Broth., Nat. Pfl. 1(3):332 (1901).
 B: *Dicanodontium leptodrepanium* C. Müll. ex Broth. Bot. Jahrb. 24: 233 (1897).
 T: Kamerun, Buea 2425 m, *Dusen 348* (holotype H-BR, isotype G).
 OU: *C. stramineus* cf. Bizot & Kilbertus, Revue Bryol. Lich. 45:90 (1979); *C. chrismarii* cf. Frahm, Lindbergia 8:46 (1982).
 CU: *C. nivalis* (Brid.) Brid.
- leptodus* Mont., Ann. Sc. Nat. Bot. ser. 3,4:111 (1845).
 T: Chili, Valdivia (holotype PC).
 CU: *C. clavatus* (R.Brown) Wils. cf. Sainsb., R. Soc. New Zeal. Bull. 5:110 (1955).
- leptoneuron* Broth. ex Ihs., Cat. Moss. Japan 32 (1929).
 T: Japan, Nagasaki, *Hirotsu 1486* (PC).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:600 (1984).
- leptotrichaceus* (C. Müll.) Par., Ind. Bryol. Suppl. 93 (1900).
 B: *Dicranum leptotrichaceum* C. Müll., Hedwigia 38: 34 (1899).
 T: Südafrika, in sylvis Knysnae, *Rehmann 33* (PC).
 CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryoph. Bibl. 31:161 (1985).
 OU: *C. atroluteus* cf. Magill, Bryoph. S. Afr. 1(1):148 (1981).
- leptostui* Thér. & P. Varde, Bull. Soc. Bot. France 74:146 (1927).
 T: Gabun, Moucoussa, Le Testu 5363 (holotype PC).
 CU: *C. nanophyllum* C. Müll. ex Broth. cf. Frahm, Bryoph. Bibl. 31:122 (1985).
- leucobasis* Herz., Bibl. Bot. 87:23 (1916) nom. invalid.
 OU: *C. insignis* Herz. cf. Herz. l.c.
 CU: *C. nivalis* (Brid.) Brid.
- leucobasis* Par. Ind. Bryol. 93 (1900) hom. illeg.
 T: „Prom. bon. spei, in monte Boschberg prope Somerset-East“ *Mac Owan s.n.* Bryotheca europaea 1359 (isotype L).
 OU: *C. introflexus* (Hedw.) Brid. cf. Dixon, Trans. R. Soc. S. Afr. 18:184 (1920).
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:143 (1985).
- leucochlorus* (C. Müll.) Par., Ind. Bryol. 253 (1894).
 B: *Dicranum leucochlorum* C. Müll. Flora 71: 411 (1888).
 T: Kilimand- scharo, ad finem sylvestrum superiorem inter 3000-4000 m. Meyer s.n. (PC)
 CU: *C. hildebrandtii* (C. Müll.) Jaeg. cf. Frahm, Trop. Bryol. 8: 157, 1993.
- leucogaster* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12:75 (1869).
 B: *Dicranum leucogaster* C. Müll., Syn. Musc. 1: 387 (1848).
 T: Mexico, Jalapa, *Deppe & Schiede s.n.* (NY).
 OU: *Campylopodium pusillum* cf. Frahm, Lindbergia 7:28 (1981).
 CU: *Microcampylopus curvisetus* (Hampe) Giese & J.-P.Frahm.
- leucognodes* (C. Müll.) Par. Ind. Bryol. Suppl. 93 (1900).
 B: *Dicranum leucognodes* C.Müll., Nuovo

- Giorn. Bot. Ital. n. ser. 4: 32. (1897).
 T: Bolivia, Prov. Cochabamba, *Germain 1105* (lectotype H-BR; isolectotype NY).
 CU: *C. argyrocaulon*
- leucophaeus* Stirt., Ann. Scott. Nat. Hist. 12:110 (1903).
 CU: *C. flexuosus* (Hedw.) Brid. var. *paradoxus* (Wils.) Husn. cf. Hag., K. Norsk. Vid. Selsk. Skrift. 1914(1):75 (1915).
- leucopteryx* C. Müll., Gen. Musc. Fr. 276 (1900) nom. nud.
- leucotrichus* Sull. & Lesq., Musci Bor. Am. 17 (1856).
 T: Alabama, Racoon montes, Musci amer. bor. 73 (NY).
 OU: *C. introflexus* (Hedw.) Brid. cf. Mitten, J. Linn. Soc. Bot. 12:84 (1869).
 CU: *C. pilifer* Brid.
- levieri* Broth. in Par., Ind. Bryol. Suppl. 92 (1900) nom. nud.
 CU: *C. hensii* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:87 (1985).
- liebmannii* (C. Müll.) Schimp. in Besch., Mem. Soc. Sc. Nat. Cherbourg 16:167 (1872).
 B: *Dicranum liebmannii* C. Müll., Syn. Musc. 2: 601 (1851).
 T: Mexico, *Hahn s. n.* (holotype destroyed at B; lectotype H-BR).
 HS: *Pilopogon liebmannii* (C. Müll.) Broth., Nat. Pfl. 1(3):336 (1901).
 OU: *C. introflexus* (Hedw.) Brid. cf. Williams, N. Am. Fl. 15:144 (1913) = *C. pilifer* Brid.
- liliputanus* (C. Müll.) Broth., Rev. Bryol. 47:3 (1920).
 B: *Pilopogon liliputanus* C. Müll.
 T: Bolivia, prope Choquecamata, *Germain 1107* (NY).
 OU: *Pilopogon gracilis* (Hook.) Brid. cf. Frahm, Lindbergia 9:104 (1983).
 CU: *Pilopogon guadeloupensis*.
- limbatulus* Broth., Bull. Soc. Bot. Ital. 1904:15 (1904) nom. nud.
- lindavii* Broth. in Engl., Pflanzenw. Ostafrika C 68 (1895) nom. nud.
 T: Runssoro, Erica Wald 3000-3600 m, *Stuhlmann 3290* (isotype B).
 CU: *C. dicranoides* Thér. & Nav. cf. Frahm, Bryoph. Bibl. 31:64 (1985).
- lonchochaete* C. Müll., Abh. Naturw. Ver. Bremen 16:495 (1900).
 T: New Zealand, Waiotapu, n.164 (lectotype H-BR, 172, 224, syntypes H-BR).
 OU: *C. holomitrius* auct. non *C. capillaceus* Hook.f. & Wils. cf. Dixon, New Zealand Inst. Bull. 3(3):85 (1923).
- lonchocladus* C. Müll. in Geh. Rev. Bryol. 5:59 (1878).
 T: „Insula Mauritius, *Robillard leg. 1876*“ (B, holotype).
 CU: *C. aureo-nitens* (C. Müll.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:24 (1985).
- longescens* (C. Müll.) Par., Ind. Bryol. Suppl. 93 (1900).
 B: *Dicranum longescens* C. Müll. Hedwigia 38: 82 (1889).
 T: Südafrika, Knysna, *Rehmann 41* (holotype B, isotype L).
 OU: =? = *C. echinatus* Sim cf. Sim, Trans. R. Soc. S. Afr. 15:175 (1926); *C. introflexus* (Hedw.) Brid. cf. Dixon & Gepp, Bull. Misc. Inf. Kew 1923:198 (1923); *C. inchangae* (C. Müll.) Par. cf. Magill, Fl. S. Afr. Bryoph. 1(1):146 (1981).
 CU: *C. robillardae* Besch. cf. Frahm, Bryoph. Bibl. 31: 164 (1985).
- longicellularis* J.-P. Frahm, Cryptogamie Bryol. Lich. 7(4):443 (1986).
 T: Colombia, Meta, Páramo de Sumapaz, *Cleef 777a* (holotype U)
- longifolius* (Hedw.) Kindb., Bih. K. Svensk. Vet. Ak. Handl. 9(7):87 (1883) hom. illeg.
 B: *Dicranum longifolium* Ehrh. ex Hedew., Spec. Musc. 130 (1801).
 CU: *Paraleucobryum longifolium* (Hedw.) Loeske.
- longifolius* Schimp. ex Besch., Ann. Sc. Nat. Bot. ser. 6,9:323 (1880).
 T: Reunion, Plaine des Chicots, *Bory* (BR).
 CU: ? *C. arcuatus* (Brid.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:20 (1985).
- longigemmatum* Gao in Gao, Zhang & Cao, Acta Bot. Yunn. 3:392 (1981).
 T: China, Xizang, Distr. Cona Xian, ad lignum cariosum 2900 m, *Chen Shu-kun 5152a* (holotype ISPH, Isotypus HKAS).
 CU: *Dicranodontium* spec. cf. Frahm, Nova Hedwigia 41:273 (1985).
- longipilus* Brid., Bryol. Univ. 1:477 (1826) nom. illeg.
 CU: *C. introflexus* (Hedw.) Brid. & *C.*

- atrovirens* De Not. cf. Grout, Moss Fl. N. Am. 1:93 (1937).
- longipilus* var. *elongatus* (C. Müll.) Schimp. in Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:437 (1872).
OU: *C. introflexus* (Hedw.) Brid. fo. el. Podp., Consp. 131 (1954).
CU: *C. pilifer* Brid.
- longipilus* var. *falcatus* (Braithw.) Par., Ind. Bryol. 254 (1894).
CU: *C. atrovirens* De Not. fo. falcatus Podp., Consp. 130 (1954).
- longipilus* var. *muticus* Milde, Bot. Zeit. 28:396 (1870).
CU: *C. atrovirens* De Not. fo. *muticus* Moenk, Laubm. Eur. 225 (1927).
- longirostris* (Web. & Mohr) Spruce, Musci Pyren. 202 (1847).
CU: *Dicranodontium denudatum* (Brid.) Britt. cf. Williams, N. Am. Fl. 15:151 (1913).
- longisubulatus* Thér., Rev. Bryol. Lich. 11: 49 (1939).
T: Bolivia, Tablas 1800 m, *Herzog 4566* (holotype PC; isotypes B, JE)
CU: *C. anderssonii* (C. Müll.) Jaeg. cf. Frahm, Bryol. Beitr. 7: 49, 1987.
- lorentzii* (Fleisch.) W. Schultze-Motel, Willdenowia 3: 407 (1963).
B: *Pilopogon lorentzii* Fleisch., Nov. Guinea 12(2): 13 81914).
T: Holländisch-Guinea, In den Gipfelwäldern des Hellwiggebirges.. v. *Römer 1261* (holotype FH, isotype S).
OU: *Thysanomitrion lorentzii* (Fleisch.) Fleisch., Hedwigia 50: 280 (1911).
CU: *C. exasperatus* var. *lorentzii* (Fleisch.) J.-P. Frahm et al., Acta bot. Fenn. 131: 80, 1985.
- lorentzii* C. Müll. ex Par., Ind. Bryol. 254 (1894) err. pro *Conostomum lorentzii* C. Müll.
- ludovicae* Broth. & Par., Oefv. Finsk. Vet. Soc. Foerh. 51A(17):3 (1909).
OU: *C. polyanthus* Besch. cf. Thér., Rev. Bryol. 48:58 (1921).
CU: *C. laxitextus* Lac.
- luetzelburgii* Herz. ex J.-P. Frahm, Cryptogamie Bryol. Lich. 2(4):442 (1981).
T: Brazil, Serra do Itatiaia, Agulhas Negras, *Dusén s. no.* (holotype, B).
CU: *C. fragilis* (Brid.) B.S.G. ssp. *fragiliformis* (J.-P. Frahm) J.-P. Frahm cf. Frahm, Fl. Neotrop. 54: 101 (1991).
- luluensis* Thér. & Nav., Rev. Bryol. Lich. 12:68 (1942).
T: Congo, *Auverlaet oct. 1923* (BR).
CU: *C. savannarum* (C. Müll.) Mitt. cf. ????
- luridus* Schimp. ex Besch., Mem. Soc. Sc. Nat. Cherbourg 16:168 (1872).
T: Mexico, Orizaba, *F. Müller s. n.* (not seen).
OU: *C. introflexus* (Hedw.) Brid. cf. Williams, N. Am. Fl. 15(2):144 (1913).
CU: *C. pilifer* Brid.
- lusciniialis* Dix in Christ., Res. Norw. Sci. Exp. Trista da Cunha 48:19 (1960).
T: Tristan da Cunha, *Nightingale, Christophersen 2127*, pp. (isotype FH).
CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryoph. Bibl. 31:160 (1985).
- lutescens* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:440 (1872).
B: *Dicranum lutescens* C. Müll., Syn. Musc. 2: 602 (1851).
T: Mexico, Orizaba, *Liebmann s.n.*
OU: *C. introflexus* (Hedw.) Brid. cf. Mitten, J. Linn. Soc. Bot. 12:84 (1869).
CU: *C. pilifer* Brid.
- luteus* (C. Müll.) Par., Ind. Bryol. 254 (1894).
B: *Thysanomitrion luteum* C. Müll., Linnaea 42: 470 (1879).
T: Venezuela, Tovar, *Fendler 39* (holotype destroyed at B; lectotype H-BR; isotype H-SOL).

M

- macgregorii* Broth. & Geh., Oefv. Finska Bet. Akad. Förh. 37: 155 (1895).
OU: *Thysanomitrion macgregorii* Broth., Nat. Pflanzenfam. Ed 2, 10: 189 (1924).
T: Papua New Guinea, Owen Stanley Range, 13000 ft., *Macgregor 335* (holotype H-BR, isotype PC).
- maclaudii* Par. & Broth., Rev. Bryol. 30:66 (1903).
T: Guinea, Fouta Djallon, rochers au bord du Bafing, *Maclaud s.n.* 1901 (B, PC).
HS: *maclaudii* Par. ex Broth., Nat. Pfl. 1(3):1186 (1909).
CU: *C. nanophyllus* C. Müll. ex Broth. cf. Frahm, Bryoph. Bibl. 31:122 (1985).
- macleanus* Rehm. in Thér., Rev. Bryol. n.ser. 2:75

- (1931) nom. invalid.
 T: Transvaal, in silvis monte Kwatlamba supra Pilgimsrest ad rupes, *MacLea* 447 (PC).
 HS: *macleani* Rehm. in Kindb., Enum. Bryin. Exot. 88 (1889) nom. nud.
 OU: *C. inerangae* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:173 (1926); *C. inchangae* (C. Müll.) Par. cf. Magill, Fl. S. Afr. Bryoph. 1(1):146 (1981).
 CU: *C. robillardei* Besch. cf. Frahm, Bryoph. Bibl. 31:164 (1985).
- macrogaster* (C. Müll.) Broth., Nat. Pfl. 1(3):334 (1901).
 B: *Dicranum macrogaster* C. Müll., Hedwigia 39: 252 (1900).
 T: Brazil. S. Catarina, Serra Geral, *Ule* 1123 (holotype destroyed at B; lectotype H-BR). OU: *C. controversus* (Hampe) Jaeg. cf. Frahm, Bryol. Beitr. 7: 50 (1987).
 CU: *C. thwaitesii*.
- macrophyllum* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12:80 (1869).
 T: *Dicranum macrophyllum* C. Müll., Syn. Musc. I: 402 (1848).
 T: Peru, Cuchero, *Poeppig* 213 (holotype destroyed at B; lectotype NY; isolectotype KIEL).
 OU: *C. filifolius* (Hornsch.) Mitt. cf. Frahm, Nova Hedwigia 28:132 (1976).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm.
- macrootis* C. Müll. ex Broth., Bot. Jahrb. 24:233 (1897).
 T: Kamerun, Wervoka 700 m alt., *Dusen* 699 (holotype B).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Lindbergia 8:48 (1982).
- madagassus* Dix., J. Bot. 80:43 (1942).
 T: Madagascar, circa 1814 *Thompson* 22 (holotype BM).
 CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *madecassus* (Besch.) J.-P. Frahm cf. Frahm, Bryoph. Bibl. 31:16 (1985).
- madecassus* Besch., Ann. Sc. Nat. Bot. ser. 6,9:321 (1880).
 T: Madagascar, *Bernier s.n.* (holotype PC, isotype B).
 CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *madecassus* (Besch.) J.-P. Frahm, Bryoph. Bibl. 31:16 (1985).
- madeirensis Geh. in Kindb., Enum. Bryin. Exot. 9 (1888) nom. nud.
 CU: *Ditrichum punctulatum* Mitt. cf. Seppelt in Frahm, Bryoph. Bibl. 31:197 (1985).
 CU: *C. brevopilus* B.S.G. var. *marginatulus* (Geh.) Thér. cf. Luisier, Broteria Cienc. Nat. 24:28 (1930).
- magniretis* (C. Müll.) Par., Ind. Bryol. Suppl. 94 (1900).
 B: *Dicranum magnirete* C. Müll., Bull. Herb. Boiss. 5: 186 (1897).
 T: Guatemala, Alta Vera Paz, in trunco, v. *Türckheim s.n.*
 OU: *Campylopodium pusillum* (Schimp.) Williams cf. Williams, N. Am. Fl. 15:91 (1913).
 OU: *Microcampylopus curvisetus* (Hampe) Giese & J.-P. Frahm.
- malagensis* Herz., Bibl. Bot. 87:23 (1916).
 T: Bolivien, Cerro de Malaga, *Herzog* 4367 (holotype JE, isotype B).
 CU: *Campylopoditiella malagensis* (Herz.) J.-P. Frahm, The Bryologist 87:250 (1984).
- mandoni* Schimp. in Par., Ind. Bryol. 254 (1894) nom. nud.
 M: Mandon, Pl. Boliv. 1610 (GOET)
 CU: = *C. nivalis* (Brid.) Brid. var. *multicapsularis* (C. Müll.) J.-P. Frahm cf. Frahm, Nova Hedwigia (1994).
- mangenotii* Biz. & Kilb., Rev. Bryol. Lich. 40:113 (1974) nom. invalid.
 T: Reunion, Piton des Neiges, *Cadet* 162 (hb. Bizot and Kilbertus).
 OU: *C. parisii* Ren. cf. Frahm, Bryoph. Bibl. 31:195 (1985).
 CU: *C. smaragdinus* (Brid.) Jaeg.
- manginii* Thér., Rec. Publ. Soc. Havraise Etud. Div. 89(2):113 (1922).
 T: Madagascar, massif d'Adringitra, *Perrier de la Bathie s.n.* (isotypes G, NY).
 OU: *C. stramineus* Mitt. cf. Bizot & Kilbertus, Rev. Bryol. Lich. 45:79 (1979).
 CU: *C. nivalis* (Brid.) Brid. cf. Frahm, Bryoph. Bibl. 31:124 (1985).
- marginatulus* Geh., Bibl. Bot. 73:12 (1910).
 T: Madeira, Fritze (1880) *s.n.* (isotype PC).
 CU: *Ditrichum puntulatum* Mitt. cf. Seppelt in Frahm, Bryoph. Bibl. 31:197 (1985).
 OU: *C. brevopilus* B.S.G. var. *marginatulus* (Geh.) Thér.

- marillacii Rehm. in Par., Ind. Bryol. 254 (1894) nom. nud.
T: Montagu Pass, *Rehmann 65* (B,L).
CU: *C. flaccidus* Ren. & Card. cf. Frahm, Bryoph. Bibl.31:71 (1985).
- marmellensis Broth., Hedwigia 45:262 (1906).
T: Brazil, Amazonas, Rio Madeira, *Ule 246* (lectotype H-BR; isolectotypes FH, JE, NY).
CU: *C. surinamensis* C. Müll. cf. Frahm, Revue Bryol. Lich. 45:163 (1979).
- martinae (martensi) Watts. & Whitel., Proc. Linn. Soc. N.S.Wales Suppl. 27:45 (1902) nom. nud.
- masafuerae Frahm, Bibl. Bot. 5:83 (1975) nom. nov. pro *C. laxiretis* Bartr. hom. illeg.
OU: *C. blindioides* Broth. in Skotts. cf. Robinson, Smiths. Contr. Bot. 27:26 (1975).
CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 51 (1987).
- matarensis Besch., Ann. Sc. Nat. Bot. ser. 6,9:323 (1880).
T: Reunion, Cilaos, *Valentin s.n.* (holotype PC).
CU: *C. arctocarpus* ssp. *madecassus* (Besch.) J.-P.Frahm cf. Frahm, Bryoph. Bibl. 31:16 (1985).
- mathieui Thér. Bull. Mens. Soc. Linn. Seine Marit. 12:239 (1925).
T: Kamerun, *Mathieu s.n.* (isotype BR).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryoph. Bibl. 31: 171 (1985).
- megalotus Besch. cf. Frahm, Bryoph. Bibl. 31:118 (1985).
T: Ile St. Paul, sterile, dans les touffes de Sphagnum, *G. de Isle 16* (holotype PC).
- melaphanus Stirt., Ann. Scott. Nat. Hist. 12:110 (1903).
CU: *C. flexuosus* (Hedw.) Brid. cf. Dixon, J. Bot. 61:15 (1923).
- merapicola C. Müll. Gen. Musc. Fr. 266 (1900) nom. nud.
OU: *C. aureus* Bosch & Lac. cf. Fleischer, Musci Fl. Buitenzorg 1:110 (1904).
CU: *C. schmidii* C. Müll.
- metzlerelloides (P. Varde & Thér.) Biz. in Biz. & Pocs, Acta Bot. Acad. Sci. Hung. 25:246 (1979).
B: *Bryohumbertia metzlerelloides* P. Varde & Thér., Bull. Soc. Bot. France 86: 422 (1939).
OU: *C. flavicoma* C. Müll. ex Broth. cf. De Sloover, Bull. Jard. Bot. Nat. Belg. 51:227 (1981).
CU: *Bryohumbertia flavicoma* (C. Müll.) J.-P.Frahm, Cryptogamie Bryol. Lich. 3:366 (1982)
- mexicanus Thér., Smiths. Misc. Coll. 78:7 (1926).
T: Mexico, Campanario, *Arséne 7576* (holotype PC).
CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, The Bryologist 80:120 (1979).
- micans Wulfsb., Forh. Vid. Selsk. Christiana 1876:349 (1876).
CU: *C. flexuosus* (Hedw.) Brid. var. *micans* (Wulfsb.) Hag.
- micholitzii C. Müll. ex Fleisch., Musci Fl. Buitenzorg 1:107 (1904).
T: Sumatra, Tindjoelaut 3000p., *Mieholtz 61* (B, BM, FH).
CU: *C. laxitextus* Lac. cf. Eddy, Malesian Mosses vol. 1 (1988).
- microcephalus (C. Müll.) Par., Ind. Bryol. Suppl. 94 (1900).
B: *Dicranum microcephalum* C. Müll., Flora 82: 443 (1896).
T: Hawaii, without locality, *Hillebrand s.n.* (not seen).
CU: *C. praemorsus* cf. Frahm, Nova Hedwigia 39:597 (1984).
OU: *C. exasperatus* cf. Bartr., Bishop Mus. Bull. 101:45 (1933).
- microjulaceus (C. Müll.) Par., Ind. Bryol. Suppl. 94 (1900).
B: *Dicranum micro-julaceum* C. Müll., Bull. Herb. Boiss. VI: 37 (1898).
T: Brazil, Serra do Itatiaia, *Ule 1796* (holotype destroyed at B; isotype H-BR).
CU: *C. julaceus* Jaeg. cf. Frahm, Bryol. Beitr. 7: 52 (1987).
- microrhodon C. Müll. in Par., Ind. Bryol. Suppl. 94 (1900) nom. nud.
M: Sikkim-Himalaya, prope Kurseong 1000m, *Bretaudeau 16931* (PC).
CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:600 (1984).
OU: *C. introflexus* (Hedw.) Brid. cf. P. Varde, Arch. Bot. 1:178 (1927).
- microstomus Mitt. in Spruce, Cat. Musc. Amaz. And. 2 (1867) nom. nud.
OU: *C. porphyreodictyon* (C. Müll.) Mitt. cf.

- Mitten, J. Linn. Soc. Bot. 12:75 (1869).
 OU: *C. filifolius* (Hornsch.) Mitt. = *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm
microtheca Herz., Beih. Bot. Centralbl. 26:55
 (1910).
 T: Bolivia, Cerro Amboro, *Herzog 271*
 (holotype JE; isotype B).
 CU: *C. arctocarpus* (Hornsch.) Mitt. cf.
 Frahm, Nova Hedwigia 30:845 (1970).
- mildei* Limpr., Laubm. Deutschl. 1:396 (1887).
 T: Italy, ad una ripa lungo la strada dalla
 Madonna di Santino a Bieno, in val Intrasca,
 Lago Maggiore, *De Notaris (1866)* (lectotype
 BP).
 CU: *C. oerstedianus* cf. Frahm, J. Bryol.
 11:216 (1980).
- milleri* Ren. & Card., Bull. Soc. R. Bot. Belg.
 41:17 (1905).
 minarum Par., Ind. Bryol. ed. 2,1: 318 (1904),
 nom. nud.
 M: the same as in the type of *Dicranum*
laxobasis C. Müll., Hedwigia 39: 252. 1900,
 Brazil, Minas Gerais, Serra de Caraca, *Ule*
1353 (holotype destroyed at B; lectotype H-
 BR)
 CU: *C. surinamensis* C. Müll. cf. Frahm,
 Cryptogamie Bryol. Lich. 2:444 (1981).
- minor Besch., Compt. Rend. Ac. Sc. Paris 81:723
 (1875).
 T: Ile Amsterdam, *G. del' Isle (1874-75) s.n.*
 (holotype PC).
 CU: *C. pyriformis* (Schultz) Brid. cf. Frahm,
 Bryoph. Bibl. 31:160 (1985).
- minutus Lindb. in Aongstr., Oefv. K. vet. Ak.
 Foerh. 33:5 (1876) nom. nud.
- mittenii* (C. Müll.) Jaeg., Ber. S. Gall. Naturw.
 Ges. 1870-71:433 (1872).
 B: *Dicranum mittenii* C. Müll., Syn. Musc.
 2: 600 (1851).
 T: Ecuador, prope Quito, *Jameson s.n.*
 (lectotype BM, isolectotypes FH, NY).
 CU: *Chorisodontium mittenii* (C. Müll.)
 Broth.
- modestus* Card., Bull. Herb. Boiss. ser.2,5:1000
 (1905).
 T: Falkland Isl., Port Standley, Skottsberg 218
 (isotype BM).
- molkenboeri* Lac. in Milde, Bryol. Siles. 79
 (1869) nom. nud.
 CU: *C. brevopilus* B.S.G. var. *molkenboeri*
- Milde
 mollis C. Müll. in Par., Ind. Bryol. 255 (1894)
 nom. nud.
 M: Natal, Inanda, *Rehmann 36* (PC, B).
 OU: *C. stenopelma* (C. Müll.) Rehm. ex Par.
 cf. Frahm, Bryoph. Bibl. 31:198 (1900).
 CU: *C. thwaitesii* (Mitt.) Jaeg.
- montagnei* De Not., Mem. R. Acc. Sc. Torino
 ser.2,18:452 (1895).
 T: Chili, Valparaiso, *Puccio s.n.* (isotype H-
 SOL).
 CU: *C. clavatus* (R. Brown) Wils. cf. Frahm,
 Revue Bryol. Lich. 42:604 (1976).
- montanus* Welw. & Duby, Mem. Soc. Phys. Hist.
 Nat. Geneve 21:221 (1870).
 T: Angola, Distr. Huilla, *Welwitsch 3*
 (lectotypus nov. G, isotypes BM, PC).
 CU: *savannarum* (C. Müll.) Mitt. cf. Frahm,
 Bryoph. Bibl. 31:171 (1985).
- morenoi* (C. Müll.) Par., Ind. Bryol. Suppl. 94
 (1900).
 B: *Dicranum morenoi* C. Müll., Hedwigia 36:
 97 (1897).
 T: Patagonia 50° 53', *Moreno (1880) s.n.*
 (holotype B)
 CU: *Dicranum spec.* cf. Frahm, Bryol. Beitr.
 7: 95 (1987).
- morobensis* Bartr., Bryologist 48:111 (1945).
 T: Papua New Guinea, Morobe Prov., Matap,
Clemens 11290 (holotype FH).
 OU: *Bryohumbertia walkeri* (Mitt.) J.-
 P. Frahm cf. Frahm et al., Acta Bot. Fennica
 131:68 (1985).
 CU: *Bryohumbertia subcomosa* (Dix.) J.-P.
 Frahm, Trop. Bryol. 1:9 (1989).
- mosenii* Broth., Bih. K. Svensk. Vet. Ak. Handl.
 21 Afd. 3(3):6 (1895).
 T: Brazil, Sao Paulo, Alto da Serra, *Mosén*
18 (holotype H-BR).
 OU: *C. controversus* cf. Frahm, Revue Bryol.
 Lich. 45:141 (1979).
 CU: *C. thwaitesii*.
- mouensis* Broth. & Par., Oefvers. Foerh. Finska
 Vetensk.-Soc. 53A: 6 (1910).
 T: Nouvelle-Caledonie, Mou 1100 m, *Le Rat*
1463 (H-BR).
 OU: *C. pallidus* cf. Frahm, Lindbergia 8:49
 (1982).
 CU: *C. pyriformis* (Schultz) Brid.
- mozambicus* P. Varde, Rev. Bryol. Lich. 26:3

- (1957).
 T: Mozambique near Gogogo Peak, Gorongosa Mtns. *Schelpa 5554* (holotype PC).
 CU: *C. cambouei* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:45 (1985).
- mucorinus* C. Müll., Gen. Musc. Fr. 265 (1900) nom. nud.
- muelleri* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:442 (1872) hom. illeg.
 B: *Thysanomitrium muelleri* Hampe, Ann. Sc. Nat. Bot. ser. 5,3: 363 (1865).
 T: Colombia, *Triana & Planchon s. no.* (not seen).
 CU: *C. richardii* Brid. cf. Mitten, J. Linn. Soc. Bot. 12:90 (1869).
- muelleri* Jur. in Rabenh., Bryoth. Eur. fasc.12 nr. 578 (1862).
 CU: *C. pyriformis* (Schultz) Brid. mod. *muelleri*
 OU: *C. fragilis* (Brid.) B.S.G. var. *muelleri* (Jur.) Wijk & Marg., *C. fragilis* (Brid.) B.S.G. fo. *muelleri* (Jur.) Smirnova.
- muelleri* Lor., Verh. Zool. Bot. Ges. Wien 17:678 (1867) hom. illeg.
 T: Type. Brazil, *Puiggari 176* (not seen).
 CU: *C. filifolius* (Hornsch.) Mitt. cf. Hampe, Vid. Medd. Naturh. For. Kjoebenh. ser.4,1:91 (1879).
- multicapsularis* (C. Müll.) Schimp. in Par., Ind. Bryol. Suppl. 94 (1900).
 B: *Dicranum multicapsulare* C. Müll., Prodr. Fl. Boliv. 34 (1897).
 T: Bolivia, Larecaja, *Mandon 1611* (holotype B; isotypes GOET, NY).
 CU: *C. nivalis* (Brid.) Brid. var. *multicapsularis* (C. Müll.) J.-P. Frahm.
- multisulcatus* Duby in Hampe, Vid. Medd. Naturh. For. Kjoebenh. ser.3,2:272 (1870) nom. invalid.
 CU: *C. lamellinervis* (C. Müll.) Mitt. cf. Hampe l.c.
- muricatus* Dix., K. Norsk. Vid. Selsk. Forh. 4:180 (1932).
 CU: *Chorisodontium aciphyllum* cf. Dixon, Det Kongl. Norske Vidensk. Selsk. Foerh. 7:1 (1934).
- N**
nadeaudianus Besch., Ann. Sc. Nat. Bot. ser. 7,20: 16 (1894).
 T: Tahiti, Mamano 200m, *Nadeaud 98* (isotype BM).
 CU: *C. laxitextus* Lac. cf. Frahm, Bryol. Beitr. 7: 54 (1987).
- nagasakinus* Broth. in Par., Ind. Bryol. 94 (1900) nom. nud.
 M: Japan, Nagasaki, Faurié207 (PC).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39: 601 (1984).
- nakamurae* Sak., Bot. Mag. Tokyo 55:212 (1941) (*).
- nanocaudatus* C. Müll., Gen. Musc. Fr. 274 (1900) nom. nud.
 M: „Südgeorgien, Dr. Wilken 1883“ (GOET)
 CU: = *Chorisodontium* sp. cf. Frahm, Nova Hedwigia 59: 150, 1994.
- nano-exasperatus* C. Müll., Gen. Musc. Fr. 271 (1900) nom. nud.
- nano-filifolius* (C. Müll.) Par., Ind. Bryol. Suppl. 94 (1900).
 B: *Dicranum nano-filifolium* C. Müll., Nuov. Giorn. Bot. Ital. N.S. 4: 35 (1897).
 T: Brazil, Sta. Catarina, *Ule 439* (lectotype, H-BR).
 OU: *C. filifolius* (Hornsch.) Mitt. cf. Frahm, Bryoph. Bibl. 5: 86 (1975).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm
- nanophyllus* C. Müll. ex Broth., Bot. Jahrb. 24: 235 (1897).
 T: „Ad victoriam emporium in saxis die 26 m. julii a. 1891“ *Dusen 305* (holotype B, isotype PC).
- nano-tenax* (C. Müll.) Par., Ind. Bryol. Suppl. 94 (1900).
 B: *Dicranum nano-tenax* C. Müll. Hedwigia 38: 82 (1899I).
 T: Natal, Umpumulo, *Borgen 80* (PC, L).
 CU: *C. hildebrandtii* (C. Müll.) Jaeg. cf. Frahm, Bryoph. Bibl. 31: 91 (1985).
 OU: *C. atroluteus* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15: 178 (1926); *C. inchangae* (C. Müll.) Par. cf. Magill, Fl. S. Afr. Bryoph. 1(1): 146 (1981).
- nanus* C. Müll., Bot. Zeitschr. 5: 804 (1847).
 CU: *Dicranella subsubulata* (C. Müll.) Jaeg. cf. Magill, Fl. S. Afr. Bryoph. 1(1): 121 (1981).
 OU: *Microcampylopus nanus* (C. Müll.)

- Broth.
natalensis Rehm. in Par., Ind. Bryol. 255 (1894)
nom. nud.
M: Natal, Van Reenen Pass, *Rehmann 51*
(L,G).
CU: *C. hildebrandtii* (C. Müll.) Jaeg. cf.
Frahm, Bryoph. Bibl. 31: 91 (1985).
OU: *C. atroluteus* (C. Müll.) Par. cf. Sim,
Trans. R. Soc. S. Afr. 15: 178 (1926).
naumannii (C. Müll.) Kindb., Enum. Bryin. Exot.
89 (1889)
B: *Dicranum naumannii* C.Müll. Bot. Jahrb.
5:84 (1883).
T: Insula Ascension, Green Mount 2000 ft.,
Dr. Naumann (1874) *s.n.* (holotype B).
CU: *C. aureonitens* (C. Müll.) Jaeg. cf. Frahm,
Bryoph. Bibl. 31: 24 (1985).
nematophyllus Ren. & Card., Bull. Soc. R. Bot.
Belg. 31: 148 (1893) nom. invalid.
T: Costa Rica, Forêt de Barba, 6.2.1890
(holotype PC).
OU: *C. hoffmannii* (C. Müll.) Ren. & Card.
cf. Renauld & Cardot l.c.
CU: *C. cuspidatus* cf. *Frahm, J. Hattori Bot.*
Lab. 44: 485 (1978).
nepalensis (Brid.) Jaeg., Ber. S. Gall. Naturw.
Ges. 1870-71:416 (1872) (*)
nietneri (C. Müll.) Jaeg., Ber. S. Gall. Naturw.
Ges. 1870-71: 432 (1872).
T: „Ceylon, Nietner“ (lectotype GOET)
OU: ?*C. involutus* cf. Frahm, J. Bryol. 13:
176 (1984).
CU: *C. fragilis* (Brid.) B.S.G. ssp. *goughii*
(Mitt.) J.-P. Frahm
nigerrimus (C. Müll.) Par., Ind. Bryol. Suppl. 94
(1900).
B: *Thysanomitrium nigerrimum* C. Müll., Bull.
Herb. Boiss. 6: 39 (1898).
T: Brazil, Rio de Janeiro, Tijuca, *Ule 1081*
(holotype destroyed at B; lectotype H-BR).
CU: *C. richardii* Brid. cf. Frahm, Nova
Hedwigia 28: 133 (1976).
nigrescens (Mitt.) Jaeg., Ber. S. Gall. Naturw.
Ges. 1870-71: 417 (1872) hom. illeg.
B: *Dicranum nigrescens* Mitt., J. Linn.
Soc.Bot. Suppl. 1: 19 (1859).
T: Sikkim, *Hooker 73, 78, 82* (isosyntypes
PC).
HS: *Thysanomitrium nigrescens* (Mitt.) P.
Varde, Rev. Bryol. 49: 40 (1922).
CU: *C. umbellatus* (Arn.) Par., cf. Frahm,
Nova Hedwigia 39: 601 (1984).
OU: *C. richardii* Brid. cf. Dixon, J. Bot. 60:
290 (1922).
nigrescens Duby, Mem. Soc. Phys. Hist. Nat.
Geneve 19: 292 (1867).
CU: *C. richardii* Brid. cf. Mitten, J. Linn. Soc.
Bot. 12: 90 (1869).
nigro-flavus (C. Müll.) Par., Ind. Bryol. Suppl.
94 (1900).
T: Australia occ., Mt. Kindsay, *Webb s.n.*
(isotype S).
CU: *C. kirkii* Mitt. cf. Frahm, Cryptogamie
Bryol. Lichénol. 3: 64 (1982).
nilghiriensis (Mitt.) Jaeg., Ber. S. Gall. Naturw.
Ges. 1870-71: 426 (1872).
B: *Dicranum nilghiriense* Mitt., J. Linn. Soc.
Bot. Suppl. 1: 16 (1859).
T: India, In mont. Nilghiri, *Perrottet, Gardner*
(isotype H-BR).
CU: *C. goughii* p. pte. cf. Frahm, J. Bryol.
13: 172 (1984) = *C. fragilis* (Brid.) B.S.G.
ssp. *goughii* (Mitt.) J.-P. Frahm, Trop. Bryol.
4: 61, 1991.
nitidus Dozy & Molk., Musci Fr. Ined. Arch.
Indici 5: 139 (1847).
OU: *Dicranodontium nitidum* (Dozy &
Molk.) Fleisch., hom. illeg.
nitidus Thér. in Felipp., Rev. Bryol. n.ser. 2: 212
hom illeg.
T: Uruguay, Maldonado, *Felippone 1214*
(isotypes B, H-BR).
OU: *C. uruguensis* J.-P. Frahm, Bryoph. Bibl.
5: 127 (1975).
CU: *C. pyriformis* (Schultz) Brid. cf. Frahm,
Bryol. Beitr. 7: 55 (1987).
nitidus Wils. in Mitt., Kew J. Bot. 3: 52 (1851)
nom. nud.
CU: *C. areodictyon* (C. Müll.) Mitt. cf. Mit-
ten l.c.
nivalis (Brid.) Brid., Bryol. Univ. 1: 477 (1926).
B: *Weisia nivalis* Brid., Spec. Musc. 1:123
(1806).
T: Ile Bourbon, *Bory St. Vincent s.n.* (holotype
B).
OU: *Thysanomitrium nivale* (Brid) Arnot,
Mem. Soc. linn. Paris 5: 263 (1827).
nivalis var. *multicapsularis* (C. Müll.) Flora
Neotropica 54: 139 (1991).
B: *Dicranum multicapsulare* C. Müll., Nuov.

- Giorn. Bot. Ital. n. ser. 4: 34 (1897).
nodiflorus (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71: 440 (1872).
 B: *Dicranum nodiflorum* C. Müll., Bot. Zeit. 11: 38 (1853).
 T: India orientalis, *Perrottet* (GOET).
 OU: *C. aureus* Bosch & Lac. cf. Frahm, J. Bryol. 13: 165 (1984).
 CU: *C. schmidii* C. Müll.
- novae-guineae* Dix. & Thér., Farlowia 1: 28 (1943).
 T: Indonesia, West Irian, Paniai, Dajakweide, ca. 4000 m, Mt. Carstenz. *Wissel 128* (BZ,NY).
 CU: *C. austro-subulatus* Broth. & Geh. cf. Frahm et al., Acta Bot. Fenn. 131: 72 (1985).
- novae-vaesiae* Broth., Oefv. Finsk. Vet. Soc. Foerh. 40: 163 (1898).
 T: Australia, Bulli Pass, N.S.W., *Watts s.n.* (isotype S).
 OU: *C. pallidus* cf. Frahm, Cryptogamie Bryol. Lichénol. 3: 64 (1982).
 CU: *C. pyriformis* (Schultz) Brid.
- novae-zealandiae* Bartr. & Dix., Bot. Not. 1937: 72 (1937).
 T: Insula austr. Novae Zelandiae, Bluff, *Berggren 697* (BM).
 CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 55 (1987).
- nudicaulis* Besch., Bull. Soc. Bot. France 45: 55 (1898).
 T: Tahiti, *Nadeaud 208* (isotype BM).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Bryol. Beitr. 7: 55 (1987).
- nudus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71: 421 (1872).
 CU: *Dicranoloma menziesii* (Tayl.) Par. cf. Dixon, New Zealand Inst. Bull. 3: 364 (1929).
- O**
- oblongus* Thér., Rev. Bryol. Lich. 11:62 (1939).
 T: Colombia, above Bogotá 3000 - 3200 m, *Troll 2082* (holotype, PC)
- obrutus* Thér. & P. Varde Rev. Bryol. n. ser. 1: 90 (1930).
 T: Gabun, Ngwasse, Mobounga, *Le Testu 2940* (holotype PC).
- obscurus* Aongstr., Oefv. K. Svensk. Vet. Ak. Foerh. 30(5):119 (1873).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:601 (1980).
- obtectus* Stirt., Trans. Bot. Soc. Edinburgh 26:426 (1915).
 CU: *C. flexuosus* (Hedw.) Brid. „var. paradoxus (Wils.) Husn.“ cf. Dixon, J. Bot. 61:16 (1923).
- occultoviridis* Dus., Rep. Princeton Univ. Exp. Patag. 8:121 (1903) nom. nud.
- occultus* Mitt., J. Linn. Soc. Bot. 12: 86 (1869).
 T: Brazil, Paraná, *Weir 66* (holotype,NY; isotypes F, H-BR).
- ochrodictyon* Aongstr., Oefv. K. Svensk. Vet. Ak. Foerh. 30(5):146 (1873).
 T: St. Helena, *Andersson s.n.* (B, G).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Bryoph. Bibl. 31:97 (1985).
- oedicaulis* C. Müll. in Par., Ind. Bryol. Suppl. 95 (1900) nom. nud.
 M: N.W. Himalaya, Dehra-Dun, *Gollan 1760* (PC).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:601 (1980).
- oerstedianus* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12:81 (1869).
 B: *Dicranum oerstedianum* C. Müll., Bot. Zeit. 9(14): 259 (1851).
 T: Costa Rica, „in regione alpina de Irasu 11000“, *Oersted s. n.* (holotype destroyed at B; lectotype NY; isolectotypes FH, H-BR).
- ohingaitii* R. Brown ter., Trans. New Zealand Inst. 29:470 (1897).
 OU: *C. pallidus* Hook.f. & Wils. cf. Dixon, New Zealand Inst. Bull. 3:86 (1923).
 CU: *C. pyriformis* (Schultz) Brid.
- olivaceo-nigricans* (C. Müll.) Par., Ind. Bryol. Suppl. 95 (1900).
 B: *Dicranum olivaceo-nigricans* C. Müll., Hedwigia 38: 81 (1899).
 T: Transvaal, *Wilms s.n.* (PC, G).
 OU: *C. lepidophyllus* (C. Müll.) Jaeg. cf. Sim, Trans. R. Soc. S. Afr. 15:171 (1926).
 CU: *C. flaccidus* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:71 (1985).
- orizabae* C. Müll., Gen. Musc. Fr. 266 (1900) nom. nud.
- orthocomus* (C. Müll.) Besch., Bull. Soc. Bot. France 32:LVII (1885).
 CU: *Chorisodontium aciphyllum* (Hook.f. & Wils.) Broth. cf. Broth, Nat. Pfl. 1(3):1183 (1909).

- orthopelma* (C. Müll.) Par., Ind. Bryol. ed.2,1:320 (1904).
 B: *Dicranum orthopelma* C. Müll., Hedwigia 39: 257 (1900).
 T: Brazil, S. Catarina, Serra Geral, *Ule 1128* (holotype destroyed at B; lectotypus H-BR).
 OU: *C. controversus* cf. Frahm, Revue Bryol. Lich. 45:141 (1979).
 CU: *C. thwaitesii*.
- orthopodius* (C. Müll.) Broth., Nat. Pfl. 1(3): 334 (1901). (*)
 B: *Dicranum orthopodium* C. Müll., Hedwigia 39: 249 (1900).
- orzeszkoanus* Ren. & Card., Bull. Soc. R. Bot. Belg. 41:20 (1905).
 T: Gr. Comore, Kortala 2000 m, *Mace s.n.* (holotype PC, isotype NY).
 CU: *C. crateris* cf. Frahm, Bryoph. Bibl. 31:60 (1985).
- otaramaii* R. Brown ter., Trans. New Zealand Inst. 29:474 (1897).
 OU: *C. appressifolius* Mitt. cf. Dixon, New Zealand Bull. 3:89 (1923).
 CU: *C. clavatus* (R. Brown) Wils. cf. Sainsb., Trans. New Zealand Inst. 59:506 (1928).
- ouro-pretensis* Par. in Broth., Nat. Pfl. 1(3):334 (1901) nom. nud.
 OU: *C. controversus* (Hampe) Jaeg. cf. Frahm, Fl. Neotr. 54: 75 (1991).
 CU: *C. thwaitesii*.
- ovalis* (Hedw.) Wahlenb., Fl. Suec. 2:748 (1926).
 CU: *Grimmia ovalis* (Hedw.) Lindb.
- ovatus* Brid., Mant. Musc. 76 (1819) nom. illeg.
 CU: *Grimmia ovalis* (Hedw.) Lindb.
- ## P
- pachycomus* Besch. in Par., Ind. Bryol. 256 (1894) nom. nud..
 OU: *C. introflexus* (Hedw.) Brid. cf. Williams, N. Am. Fl. 15:144 (1913).
 CU: *C. pilifer* Brid.
- pachyneuros* (Mol.) Walth. & Mol., Laubm. Oberfrank. 106 (1868).
 B: *Campylopus flexuosus* var. *pachyneuros* Mol.
 OU: *Dicranum pachyneuron* (Mol.) Kindb., Eur. N. Am. Bryin. 190 (1897).
 CU: *Dicranodontium denudatum* (Brid.) Britt. ssp. *alpinum* (Schimp.) Giac. cf. Milde, Bot. Zeit. 28:416 (1870).
- pallescens* Besch., Ann. Sc. Nat. Bot. ser. 6,9:320 (1880).
 T: La Reunion, *de l'Isle 200* (isotype G).
 CU: *C. hildebrandtii* cf. Frahm, Bryoph. Bibl. 31:91 (1985).
- pallidisetus* Thér., Rec. Publ. Soc. Havraise Etud. Div. 1925:130 (1926).
 T: Madagascar, Mt. Tsaratanara 1200 - 2000 m, *Perrier de la Bathie s.n.* (PC).
 CU: *Bryohumbertia* spec. cf. Frahm, Bryoph. Bibl. 31:197 (1985).
- pallido-nitens* Thér., Rec. Soc. Havraise Etud. Div. 1932:134 (1932).
 T: Madagascar, *Sikora s.n.* (holotype PC).
 CU: *C. robillardae* Besch. cf. Frahm, Bryoph. Bibl. 31:164 (1985).
- pallidus* Hook.f. & Wils., Fl. Nov. Zel. 2:68 (1854).
 T: Campbell Island, *F.D. Hooker*, antarctic voyage of Erebus and Terror (holotype BM).
 CU: *C. pyriformis* (Schultz) Brid. cf. Corley & Frahm, J. Bryol. 12:190 (1982).
- paludicola* Broth. in Mildbr., Wiss. Erg. Deutsch. Zentr. Afr. Exp. 2:140 (1910).
 T: Ruanda, Rugege Wald, Rukarara Moor zw. Carex-Bülten 1800 m, *Mildbraed 985a* (holotype B-BR). CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Nova Hedwigia 59: 150 (1994).
- paludosus* J.-P. Frahm & J.K. Bartlett, Journ. Bryol. 12:376 (1983).
 T: New Zealand, South Island, bog near Jacksons 42°S, *Barthlett 18* (holotype WELL, isotypes BM, NICH, NY).
 CU: *C. vesticaulis* Mitt. cf. Frahm, Bryol. Beitr. 7: 57 (1987).
- papuensis* Bartr., Brittonia 9:33 (1957).
 T: Papua New Guinea, Milne Bay District, N-slopes of Mt. Dayman, Maneau Range, *Brass 22966* (holotype FH).
 CU: *C. exasperatus* (Nees & Blum) Brid. var. *lorentzii* (Fleisch.) J.-P. Frahm cf. Frahm et al., Acta Bot. Fennica 131:80 (1985).
- paradoxus* Wils. in Hardy, Berwickshire Nat. Hist. Cl. 1868:48 (1868).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Hagen, Norsk. Vid. Selsk. Skrift. 1914:75 (1915).
- paraguayensis* Broth., Nat. Pfl. 1(3):332 (1901) nom. nud.
- parallelus* Thér. in Broth., Nat. Pfl. ed.2,10:188

- (1909).
 T: „Ile Bourbon, hb. Despreaux“
 CU: *C. arcuatus* cf. Frahm, Bryoph. Bibl. 31:20 81985).
- paramoensis* F.Bowers, Bryologist 77:152 (1974) nom. nov. pro *C. atratus* Bartr. hom. illeg.
 CU: *C. subcuspidatus* (Hampe) Jaeg. f. Frahm, Fl. Neotr. 54: 176 (1991).
- parisii* Ren., Prodr. Fl. Bryol. Madag. Suppl. 25 (1909).
 T: Madagaskar prov. d' Ambositra *Salvan s.n.* (holotype PC).
 CU: *C. smaragdinus* (Brid.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:177 (1985).
- parvicaespitosus* (C. Müll.) Par., Ind. Bryol. ed.2,1:321 (1904).
 B: *Dicranum parvicaespitosum* C. Müll., Hedwigia 39: 259 (1900).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Revue Bryol. Lich. 45:151 (1979).
- parvulus* Schimp. in Besch., Mem. Sc. Nat. Cherbourg 16:165 (1872) nom. nud.
- pascuanus* J.-P.Frahm, Bryoph. Bibl. 5:91 (1975) nom. nov. pro *C. saxicola* Broth. in Skotts. hom. illeg.
 OU: *C. hygrophilus* Broth. cf. Frahm, Nova Hedwigia 34:392 (1981).
 CU: *C. vesticaulis* Mitt. cf. Frahm, Bryol. Beitr. 7: 58 (1987).
- patagonicus* Broth. ex Dus., Ark. Bot. 4(13):14 (1905).
 CU: *C. chilensis* cf. Frahm, Nova Hedwigia 29:244 (1978).
- patens* (Hedw.) Brid., Mant. Musc. 73 (1819).
 CU: *Racomitrium patens* (Hedw.) Hüb.
- pauper*** (Hampe) Mitt., J. Linn. Soc. Bot. 12: 74 (1869).
 B: *Dicranum pauper* Hampe, Linnaea 32: 137 (1863).
 T: Colombia. Manzanos, *Lindig 2013* (holotype not seen; isotypes H-BR, H-SOL, GOET, JE, NY).
- pauper*** (Hampe) J.-P. Frahm var. ***lamprodictyon*** (Hampe) Frahm, Bryol. Beitr. 7: 58 (1987).
 B: *Dicranum lamprodictyon* Hampe, Prodr. Fl. Nov. Granat. 339 (1866).
 OU: *Campylopus lamprodictyon* (Hampe) Mitt., J. Linn. Soc. Bot. 12: 78 (1869).
- pelichucensis* Williams, Bull. New York Bot. Gard. 3:110 (1903).
 T: Bolivia, Pelichuco River, *Williams 2835* (holotype NY).
 CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Nova Hedwigia 30:845 (1978).
- pelidnus* (Stirt.) Stirt., Ann. Scott. Nat. Hist. 9(38):113 (18901).
 CU: *C. brevopilus* B.S.G. cf. Dixon, J. Bot. 61:16 (1923).
- penicillatus* (Hornsch.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:442 (1872) hom. illeg..
 B: *Dicranum penicillatum* Hornsch., Fl. Bras. 1(2): 13 (1840).
 T: Brazil, Serra dos Orgaos, *Gardner 25* (holotype destroyed at B; lectotype B; isolectotypes GOET, JE).
 CU: *C. lamellinervis* (C. Müll.) Mitt. cf. Hampe, Vid. Medd. Naturh. For. Kjoebenh. ser.3,2:272 (1870).
- penicillatus* var. *exaltatus* (C. Müll.) Thér., Mem. Soc. Cubana Hist. Nat. 13:217 (1939).
 CU: *C. lamellinervis* (C. Müll.) Mitt. var. *exaltatus* (C. Müll.) J.-P. Frahm cf. Frahm, Fl. Neotr. 54: 129 (1991).
 OU: *C. cubensis* Sull. var. *exaltatus* (C. Müll.) J.-P. Frahm, Nova Hedwigia 41:275 (1985).
- penicillatus* Brid., Mant. Musc. 73 (1819).
 CU: *C. fragilis* (Brid.) B.S.G. cf. C. Mueller, Syn. Musc. 1:393 (1848).
- perangustifolius* C. Müll. Flora 82:479 (1869).
 T: „Sandwich, am Mastigobryo Remyano“ *Remy 712* (BM, FH).
 OU: *C. hawaiiico-flexuosus* (C. Müll.) Par. cf. Bartram, Bishop Mus. Bull. 101:40 (1933); *C. purpureo-flavescens* (C. Müll.) Par.
 CU: *hawaiiicus* (C. Müll.) Jaeg. var. *hawaiiico-flexuosus* (C. Müll.) J.-P. Frahm cf. Frahm, The Bryologist 94: 62 (1991).
- perauriculatus* Broth., Oefv. Finsk. Vet. Ak. Foerh. 42:93 (1896).
 T: Australia, N.S.W., Richmond R., *Watts 2100* (holotype H-BR).
 CU: *C. robillardei* var. *perauriculatus* (Broth.) J.-P. Frahm, Bryol. Beitr. 7: 89 (1987).
- percristatus* Thér., Bull. Soc. Bot. Geneve 26:80 (1936).
 T: Iles Philippines, *Cumingham 2217* (holotype PC).

- CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:601 (1980).
- percurvatus* C. Müll. Flora 83:331 (1897). (*)
- perexilis*** (C. Müll.) Par., Ind. Bryol. Suppl. 95 (1900).
B: *Dicranum perexile* C. Müll., Nuov. Giorn. Bot. Ital. n. ser. 4: 34 (1897).
T: Bolivia, Cochabamba, *Germain 1006* (holotype destroyed at B; lectotype H-BR; isotypes JE, NY).
- perfalcatum* (C. Müll.) Broth., Nat. Pfl. 1(3): 334 (1901).
B: *Dicranum perfalcatum* C. Müll., Hedwigia 39: 250 (1900).
T: Brazil, Sta. Catarina, *Ule 1124* (holotype destroyed at B; lectotype, H-BR).
OU: *C. crispatus* Broth. cf. Frahm, Bryoph. Bibl. 5:93 (1973).
CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *caldensis* (Aongstr.) J.-P. Frahm.
- pergracilis* Stirt., Ann. Scott. Nat. Hist. 14:105 (1905).
CU: *C. pyriformis* cf. Dixon, J. Bot. 61:16 (1923).
- perhorridus* Dus., Ark. Bot. 4(13):16 (1905).
T: Patagonia occ., Rio Aysen, *Dusén s.n.* (B);
CU: *Chorisodontium* cf. *fulvastrum* (Besch.) Broth..
- perichaetialis*** P. Varde & Thér., Bull. Soc. Bot. France 87: 352 (1940).
T: Zaire, massif du Kahuzi 3000 m, *Humbert s.n.* (holotype PC).
- perincanus* (C. Müll.) Kindb., Enum. Bryin. Exot. 51 (1889).
B: *Dicranum perincanum* C. Müll., Flora 68: 410 (1885).
OU: *C. canescens* fo. *perincanus* (C. Müll.) J.-P. Frahm, Revue Bryol. Lich. 42:903 (1976).
CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Nova Hedwigia 30:847 (1978).
- perinvolutus* Thér. in Froehl., Arch Hydrobiol. Suppl. 21:307 (1955).
T: Sumatra, Fort de Koek supra Padäng, *Ruttner (1929) s.n.* (holotype PC).
CU: *C. macgregorii* cf. Frahm, Nova Hedwigia 39: 595 (1984).
- permollis* Thér., Rev. Chil. Hist. Nat. 30: 341 (1926).
T: Chile, Santiago, *Jaffuel s.n.* (FH, W).
- CU: *C. modestus* Card. cf. Frahm, Bryol. Beitr. 7: 59 (1987).
- perplexans* Stirt., Trans. Bot. Soc. Edinburgh 26: 247 (1914).
CU: *C. atrovirens* De Not. cf. J. Bot. 61: 16 (1923).
- perporosus* Broth., Denkschr. Ak. Wiss. Wien Math. Nat. Kl. 83: 263 (1926).
CU: *C. arctocarpus* ssp. *caldensis* cf. Frahm, Revue Bryol. Lichénol. 45: 131 (1979).
- perpusillus*** Mitt., J. Linn. Soc. Bot. 22: 301 (1886).
T: Zentr. Afr., Ugogo, *Bishop Hannington s.n.* (holotype NY).
- perreduncus* (C. Müll.) Par., Ind. Bryol. Suppl. 95 (1900).
CU: *Chorisodontium speciosum* cf. Frahm, J. Hattori Bot. Lab. 44:484 (1978).
- perrieri* Thér., Rec. Publ. Soc. Havraise Etud. Div. 89:117 (1922).
T: Madagascar, *Perrier de la Bathie s.n.* (holotype PC).
CU: *C. flaccidus* Ren. & Card. cf. Frahm, Nova Hedwigia 39:592 (1984).
- perrottetii* (Mont.) Fleisch., Musci Fl. Buitenzorg 1:102 (1904).
CU: *Dicranella perrottetii* (Mont.) Mitt.
- persimplex* C. Müll., Abh. Naturw. Ver. Bremen 16(3):496 (1900).
OU: *C. insititius* Hook.f. & Wils. cf. Dixon, New Zealand Inst. Bull. 3(3):88 (1923).
CU: *C. clavatus* (R. Brown) Wils. cf. Sainsb., Trans. New Zealand Inst. 59:507 (1928).
- pertristis* (C. Müll.) Par., Ind. Bryol. Suppl. 95 (1900).
B: *Dicranum pertriste* C. Müll., Flora 82: 444 (1896).
T: Hawaii, Oahu, ad rupes, *Clakre s.n.* (could not be located).
CU: *C. umbellatus* (Arn.) Par. cf. Bartram, Bishop Mus. Bull. 101:44 (1933).
OU: *C. richardii* Brid. cf. Dixon, J. Bot. 60:287 (1922).
- peruvianus* Williams, Bull. Torr. Bot. Cl. 42:393 (1915).

- T: Peru, near Molendo, *Rose & Rose* 18997 (holotype NY).
 CU: *Pilopogon peruvianus* (Williams) J.-P. Frahm, *Lindbergia* 9:104 (1983).
 OU: *Pilopogon laevis* (Tayl.) Thér. cf. Hegewald & Hegewald, *Journ. Hattori Bot. Lab.* 43:73-80 (1977).
- pes funariae* (C. Müll.) Par., *Ind. Bryol.* 257 (1894).
 T: Philippines, without locality, *Wallis s.n.* (BM, H-BR).
 CU: *C. laxitextus* Lac. cf. Frahm, *Bryol. Beitr.* 7: 60 (1987).
- pilifer* Brid. *Mant. Musc.* 72 (1819).
 T: Italien, „in insula Ischia ad rupes, Auguste 1806“ (holotype B).
- pilifer* ssp. *galapagensis* (J.P. Frahm & Sipman) *Bryol. Beitr.* 7: 60 (1987).
 B: *galapagensis* J.-P. Frahm & Sipman, *J. Bryol.* 10:61 (1978).
 T: Ecuador, Galapagos Islands: Santa Cruz, base of Mt. Crocker, *Gradstein & Weber 17* (U CDRS, COLO, QCA).
- pilifer* var. *lamellatus* (Montagne) Grad. & Sip., *Bryologist* 81: 119 (1978).
 B: *Campylopus lamellatus* Mont., *Ann. Sc. Nat. Bot. ser.* 2,9: 52 (1838).
 OU: *Dicranum lamellatum* (Mont.) C. Müll., *Syn. Musc.* 1: 411 (1848).
 T: Bolivia (holotype PC; isotype BM).
- pilopogon* C. Müll., *Gen. Musc. Fr.* 270 (1900) nom. nud.
- pilosissimus* Schimp. ex Besch., *Mem. Soc. Sc. Nat. Cherbourg* 16:168 (1872).
 T: Mexico, Mirador, *Sartorius s. n.* (not seen).
 OU: *C. introflexus* (Hedw.) Brid. cf. Williams, *N. Am. Fl.* 15(2):144 (1913).
 CU: *C. pilifer* Brid.
- pinangensis* Thér. in Henry, *Rev. Bryol.* n.ser. 1:42 (1928).
 T: Pinang. Montagne, *Deschamp s.n.* (isotype BM).
 CU: *C. serratus* Lac. cf. Frahm, *Bryol. Beitr.* 7: 60 (1987).
- pinfaensis* Thér., *Bull. Ac. Int. Geogr. Bot.* 19:18 (1909).
 T: China „Prov. Kouy, Tcheou, Pinfa, leg. Cavalerie no. 1941“ (Isotype S).
 CU: *C. fragilis* ssp. *fragilis* cf. Frahm, *Trop. Bryol.* 15 (in press).
- pintasi* Broth. in C. Müll., *Gen. Musc. Fr.* 275 (1900) nom. nud.
- pittieri* Williams, *Bull. Torrey Bot. Club* 34: 56 (1908).
 T: Colombia, Rio Lopez, *Pittier 1088* (holotype NY).
- pittieri* var. *congestus* (Thér.) Florsch.-de Waard & Florsch., *Bryologist* 82:223 (1979).
- pittieri* var. *latilimbatus* (Thér.) Florsch.-de Waard & Florsch., *Bryologist* 82:223 (1979).
- platyneuron* (Hampe) Jaeg., *Ber. S. Gall. Naturw. Ges.* 1877-78: 382 (1880).
 B: *Dicranum platyneuron* Hampe, *Vid. Medd. Naturh. Foer. Kjoebenh. ser.* 3,6: 139 (1875).
 OU: *Thysanomitrium platyneuron* (Hampe) C. Müll., *Gen. Musc. Fr.* 260 (1900).
 T: Brazil, Rio de Janeiro, *Glaziou 705* (isotype, NY).
 CU: *C. occultus* Mitt. cf. Frahm, *Revue Bryol. Lich.* 45:156 (1979).
- pleurocarpus* (C. Müll.) Par., *Ind. Bryol. Suppl.* 95 (1900).
 B: *Dicranum pleurocarpum* C. Müll., *Bull. Herb. Boiss.* VI: 35 (1898).
 T: Brazil, Serra do Itatiaia, *Ule 1798* (holotype destroyed at B; lectotype H-BR).
 OU: *C. controversus* (Hampe) Jaeg. cf. Frahm, *Fl. Neotr.* 54: 75 (1991).
 CU: *C. thwaitesii*.
- plumosus* Sull. ex Par., *Ind. Bryol.* ed.2,1:305 (1904) nom. nud.
 OU: *C. densifolius* Aongstr. cf. Paris l.c.
 CU: *C. hawaiiicus* (C. Müll.) Jaeg. var. *densifolius* (Aongstr.) J.-P. Frahm cf. Frahm, *The Bryologist* 94: 62 (1991).
- poasensis* Ren. & Card., *Bull. Soc. R. Bot. Belg.* 31(1): 148 (1893).
 T: Costa Rica, Volcán de Poás, *Pittier s. n.* (not seen).
 OU: *C. chrismarii* (C. Müll.) Mitt. cf. Williams, *N. Am. Fl.* 15:136 (1913).
 CU: *C. nivalis* (Brid.) Brid.
- pobeguinii* Par. & Broth. *Rev. Bryol.* 31:84 (1904).

- T: „Guinea gall., *Pobequin*“ s.n. (BM, NY, PC, L, B) .
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryoph. Bibl. 31:171 (1985).
- poicilophyllus* Nav. Bull. Soc. R. Bot. Belg. 60: 19 (1928).
 T: Zaire, entre Angia et Tango, *Bequaert 6194* (isotype L).
 OU: *C. introflexus* (Hedw.) Brid. cf. Naveau l.c.
 CU: *C. pilifer* Brid.
- polyanthos* Besch. Ann. Sci. Nat. Bot. ser. 5, 18: 199 (1873).
 T: „in sylvis, prope sinum dictum du Pony, ad terram humidam“ *Balansa 748* (lectotype PC).
 CU: *C. laxitextus* Lac.
- polytrichoides* De Not., Syll. Musc. 222 (1838).
 CU: *C. pilifer* Brid. cf. Gradstein & Sipman, The Bryologist 81:116 (1978).
- porophorus* Stirt., Ann. Scott. Nat. Hist. 10:113 81901).
 CU: *C. setifolius* Wils. cf. Dixon, J. Bot. 61:16 (1923).
- porphyreocaulis* (C. Müll.) Kindb., Enum. Bryin. Exot. 89 (1889).
 B: *Dicranum porphyreocaulis* C. Müll., Linnaea 42: 472 (1879).
 T: Venezuela, *Fendler 34* (holotype destroyed at B; lectotype BM; isoelectotypes MICH, NY, PC, S).
 CU: *C. heterostachys* cf. Frahm, J. Hattori Bot. Lab. 44:485 (1978).
- porphyrodictyon* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12:75 (1869)
 T: Brasilia, Caldas, *Widgren* (GOET).
 B: *Dicranum porphyrodictyon* C. Müll., Syn. Musc. I: 395 (1848).
 OU: *Campylopus filifolius* (Hornsch.) Mitt. cf. Frahm, Bryoph. Bibl. 5:99 (1975).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm.
- powellii* (C. Müll.) Par., Ind. Bryol. Suppl. 95 (1900).
 B: *Thysanomitrium powellii* C. Müll., Bot. Jahrb. 23: 230 (1836).
 T: Samoa, *Powell* (H-BR).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:601 (1984).
 OU: *C. richardii* cf. Dixon, J. Bot. 60:290 (1922).
- praealtus* (C. Müll.) Par., Ind. Bryol. Suppl. 96 (1900).
 B: *Dicranum praealtum* C. Müll., Hedwigia 37: 227 (1898).
 T: Puerto Rico, Sierra de Luquillo, *Sintensis s. n.* (holotype destroyed at B; lectotype NY; isoelectotypes H-BR; MO).
 CU: *C. subcuspidatus* (Hampe) Jaeg. cf. Frahm, Cryptogamie Bryol. Lich. 2(4):445 (1981).
- praealtus* var. *damazii* (Broth.) J.-P. Frahm, Bryol. Beitr. 7: 90, 1987.
 B: *C. damazii* Broth.
- praemorsus* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:437 (1872).
 B: *Dicranum praemorsum* C. Müll. Bot. Zeit. 20: 337 (1862).
 OU: *Thysanomitrium praemorsum* (C. Müll.) Broth., Bishop Mus. Bull. 40: 7 (1927).
 T: Ins. Sandvicensis (Hawaii), *Ditrichsen in exped. transatl. danica* (C).
- praetermissus* J.-P. Frahm, Bryoph. Bibl. 31: 152 (1985).
 T: Gabun, Mocambo, *Le Testu 4753* (holotype PC).
- prasino-rufus* Stirt., Ann. Scott. Nat. Hist. 15:108 (1906).
 CU: *C. atrovirens* De Not. var. *muticus* Milde cf. Dixon, J. Bot. 61:16 (1923).
- preussii* Broth. in Par., Ind. Bryol. Suppl. 96 (1900) nom. nud.
 M: Kamerun, Buea, *Preuss s.n.* (isotype B).
 CU: *C. johannis-meyeri* (C. Müll.) Par. cf. Frahm, Bryoph. Bibl. 31:106 (1985).
- procerus* (C. Müll.) Par., Ind. Bryol. 258 (1894).
 B: *Dicranum procerum* C. Müll., Flora 73: 472 (1890).
 CU: *C. jamesonii* cf. Frahm, J. Bryol. 11:217 (1980).
- procerus* Broth. in Par., Ind. Bryol. Suppl. 89 (1900).
 T: Brazil, Rio de Janeiro, Pico de Papageio, *Ule Bryothec. bras. 110* (holotype, H-BR)
 HS: *C. procerus* Broth., Hedwigia 38 (Beibl.): 58 (1899) nom. nud.
 OU: *C. praealtus* (C. Müll.) Par. cf. Broth., Denkschr. Ak. Wiss. Wien, Math. Nat. Kl. 83:260 (1926).
 CU: *C. subcuspidatus* (C. Müll.) Par.

- proliferus* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12:85 (1869).
 B: *Dicranum proliferum* C. Müll., Syn. Musc. 2: 602 (1851).
 T: Venezuela, Tovar, *Wagner s. n.* (not seen).
 OU: *C. introflexus* (Hedw.) Brid. cf. Williams, N. Am. Fl. 15:144 (1913).
 OU: *C. pilifer* Brid.
- propinquus* (Hampe) Mitt., J. Linn. Soc. Bot. 12:75 (1869).
 B: *Dicranum propinquum* Hampe, Ann. Sc. Nat. Bot. ser. 5,3: 367 (1865).
 T: Colombia, Manzanos 2700 m, *Lindig 2119* (holotype not seen; isotypes, H-BR, H-SOL, GOET, JE, NY)
 CU: *C. pauper* cf. Frahm, Bryol. Beitr. 7: 61 (1987).
- pseudobicolor* C. Müll. ex Ren. & Card., Bull. Soc. R. Bot. Belg. 34: 59 (1896).
 T: Madagascar, *Boswell s.n.* (holotype PC).
 OU: *C. bicolor* (C. Müll.) Wils. cf. Dixon in Sim, Trans. R. Soc. S. Afr. 15:180 (1926).
- pseudobrachymitrius* (C. Müll.) Par., Ind. Bryol. ed.2,1:324 (1904).
 B: *Dicranum pseudobrachymitrium* C. Müll., Hedwigia 39: 249 (1900).
 T: Brazil, Minas Gerais, Serra do Itatiaia, *Ule 1803* (lectotype H-BR).
 CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 45:156 (1979).
- pseudoclavatus* Par., Ind. Bryol. 243 (1894) nom. nud.
 CU: *C. introflexus* (Hedw.) Brid. cf. Sim, Trans. R. Soc. S. Afr. 15:171 (1926).
- pseudodichrostis* Broth., Denkschr. Ak. Wiss. Wien, Math. Nat. Kl. 83:263 (1926).
 T: Brazil, Sao Paulo, *Schiffner 402* (lectotype, H-BR).
 CU: *C. viridatus* cf. Frahm, Revue Bryol. Lich. 45:166 (1979).
- pseudodicranum* Herz., Beih. Bot. Centralbl. 26(2):53 (1910).
 T: Bolivia, Cerro Amboro, *Herzog s. n.* (holotype, JE; isotypes B, H-BR).
 CU: *C. lamelinervis* cf. Frahm, Bryoph. Bibl. 5:100 (1975).
- pseudofilifolius* (C. Müll.) Par., Ind. Bryol. 258 (1894).
 B: *Dicranum pseudofilifolium* C. Müll., Linnaea 42: 471 (1879).
 T: Venezuela, *Fendler 40a* (holotype destroyed at B; lectotype H-BR; isolectotype JE).
 CU: *C. filifolius* (Hornsch.) Mitt. cf. Frahm, Bryoph. Bibl. 5:100 (1975).
- pseudogracilis* Card. & Dix., Rec. Bot. Surv. India 6:76 (1914).
 T: Ceylon, Unasgiriya (H-BR).
 CU: *C. goughii* cf. Frahm, J. Bryol. 13:172 (1984); *C. fragilis* (Brid.) B.S.G. ssp. *goughii* (Mitt.) J.-P. Frahm, Trop. Bryol. 4: 61, 1991.
- pseudogriseus* C. Müll., Gen. Musc. Fr. 265 (1900) nom. nud.
- pseudojulaceus* Sim, Trans. R. Soc. S. Afr. 15:169 (1926) hom. illeg.
 OU: *C. simii* Schelpe in Magill & Schelpe, Mem. Bot. Surv. S. Afr. 43:5 (1979).
 CU: *C. julaceus* Jaeg. ssp. *arbogastii* (Ren. & Card.) J.-P. Frahm, Bryoph. Bibl. 31:109 (1985).
- pseudojulaceus* C. Müll., Bull. Herb. Boiss. 6:38 (1898).
 T: Orange Free State, Kadziberg, *Rehmann 58* (holotype B, isotypes PRE, L).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Revue Bryol. Lich. 45:151 (1979).
- pseudolongipilus* C. Müll., Gen. Musc. Fr. 266 (1900) nom. nud.
- pseudomuelleri* Card., Bull. Herb. Boiss. ser.2,7:715 (1907)
 T: Japon, Futatabisan, à terre 500m, n. 2247 (holotype PC).
 CU: *C. japonicus* Broth. cf. Takaki, J. Hatt. Bot. Lab. 30:240 (1967).
- pseudo-nanus* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:416 (1872).
 B: *Dicranum pseudo-nanum* C. Müll., Bot. Zeit. 17: 190 (1859).
 T: Java, *Blume s.n.*
 OU: *Campylopodium euphorocladum* (C. Müll.) Besch. cf. Fleischer, Musci Fl. Buitenzorg 1:62 (1904).
 CU: *Campylopodium medium* (Duby) Giese & J.-P. Frahm cf. Giese & Frahm, Lindbergia 11: 126 (1985).
- pseudonigrescens* Thér., Rec. Publ. Soc. Havraise Etud. Div. 1922:119 (1922).
 T: Madagascar, Massif d' Andringika, 2500 m, *Perrier de la Bathie s.n.* (isotype H-BR).
 CU: *C. flaccidus* Ren. & Card. cf. Frahm,

- Nova Hedwigia 39:592 (1984).
pseudovirescens Ren. & Card., Bull. Soc. R. Bot. Belg. 41:19 (1905).
 T: Madagascar, Maroantsetra, sur un arbre pourré, *Mathieu s.n.* (holotype PC).
 CU: ? *C. arcuatus* (Brid.) Jaeg. cf. Frahm, Bryol. Beitr. 7: 63 (1987).
- pterotoneuron* (C. Müll.) Jaeg., Ber. S. Gall. Naturw., Ges. 1870-71:417 (1872).
 B: *Dicranum pterotoneuron* C. Müll., Linnaea 36: 34 (1869).
 T: Insula Ceylon prope Punduloya, *Nietner s.n.* (H-BR).
 OU: *Thysanomitrium pterotoneuron* (C. Müll.) C. Müll., Gen. Musc. Fr. 260 (1900).
 CU: *C. umbellatus* (Arn.) Par. var. *pterotoneuron* (C. Müll.) J.-P. Frahm, Nova Hedwigia 39:602 (1994).
- ptychotheca* Herz., Beih. Bot. Centralbl. 26:49 (1910).
 T: Bolivia, Cochabamba, Incacorral, *Herzog 284* (holotype JE; isotype B).
 CU: *C. reflexisetus* (C. Müll.) Broth. cf. Frahm, Bryol. Beitr. 7: 63 (1987).
- pudicus* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:435 (1872).
 B: *Dicranum pudicum* Hornsch. ex C. Müll., Syn. Musc. 1: 407 (1848).
 T: Nova Hollandia, *Sieber 24* (JE).
 CU: *C. introflexus* (Hedw.) Brid. cf. Sainsb., Pap. Proc. R. Soc. Tasmania 89:70 (1955).
 OU: *Campylopus introflexus* (C. Müll.) Brid. ssp. *pudicus* (C. Müll.) Dix.
- puiggarii* (Geh. & Hampe) Par., Ind. Bryol. 258 (1894).
 B: *Thysanomitrium puiggarii* Geheeb & Hampe, Flora 64: 346 (1881).
 T: Brazil, Sao Paulo, *Puiggarii s. n.* (isotype JE).
 CU: *C. richardii* Brid. cf. Frahm, Revue Bryol. Lich. 41:323 (1975).
- pulvinaris* Broth., Nat. Pfl. 1(3):334 (1901) nom. nud.
- pulvinatus* (C. Müll.) Rehm. in Par., Ind. Bryol. 96 (1900) hom. illeg.
 B: *Dicranum pulvinatum* Rehm. ex Müll., Hedwigia 38: 80, (1899).
 T: South Africa, Stinkwater, *Rehmann 62* (L, NY).
 OU: *C. pallidus* Hook. f. & Wils. cf. Magill, Fl. S. Afr. Bryoph. 1(1):147 (1981).
 CU: *C. catarractilis* (C. Müll.) Par. cf. Frahm, Bryoph. Bibl. 31:51 (1985).
- pulvinatus* (Hedw.) Brid., Mant. Musc. 75 (1819).
 CU: *Grimmia pulvinata* (Hedw.) Sm.
- purpurascens* Lor. Moosstud. 159 (1864).
 T: Cape, Table Mountain, *Ecklon s.n.* (isotype NY).
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:143 (1985).
- purpurascens* Stirt., Ann. Scott. Nat. Hist. 10:109 (1901) hom. illeg.
 CU: *C. schwarzii* Schimp. cf. Dixon, J. Bot. 61:17 (1923).
- purpureo-alaris* Broth., Bull. Soc. Bot. Ital. 1904:15 (1904) nom. nud.
 CU: *C. wheeleri* (Hampe ex C. Müll.) Par. cf. Frahm, The Bryologist 94: 66, 1991.
- purpureo-aureus* (C. Müll.) Par., Ind. Bryol. Suppl. 96 (1900)
 B: *Dicranum purpureo-aureum* C. Müll., Hedwigia 38: 82 (1899).
 T: Transvaal, Duivels Krackler bei Lydenburg, *Wilms* (1884) *s.n.* (holotype B, isotype G).
 CU: *C. aureo-nitens* cf. Frahm, Bryoph. Bibl. 31:24 (1985).
 OU: *C. purpurascens* Lor. cf. Sim, Trans. R. Soc. S. Afr. 15:176 (1926), *C. pilifer* Brid. cf. Magill, Fl. S. Afr. Bryoph. 1(1):152 (1981).
- purpureoflavescens* (C. Müll.) Par., Ind. Bryol. Suppl. 96 (1900).
 B: *Dicranum purpureo-flavescens* C. Müll., Flora 82: 442 (1896).
 T: Hawaii, without locality, *Wheeler s.n.* (lectotype B).
 OU: *C. densifolius* Aongstr. var. *purpureo-flavescens* (Hampe ex C. Müller) H. Miller, J. Hattori Bot. Lab. 30: 271 (1967).
 CU: *C. hawaiiicus* (C. Müll.) Jaeg. cf. Frahm, Revue Bryol. Lichénol. 44: 50, 1978.
- purpureocaulis* Dus., Ark. Bot. 4(13): 11 (1905).
 T: Chile aus. in litore lacus Llanquihue, *Dusen 157* (H-BR).
- purpureocaulis* Dus. ssp. *aberrans* (Broth.) J.-P. Frahm. Bryol. Beitr. 7: 63 (1987) comb. inval.
 B: *Campylopus aberrans* Broth.
- pusillus* Schimp. ex C. Müll., Hedwigia 38:78

- (1899) hom. illeg.
 OU: *Microcampylopus nanus* (C. Müll.) Par.
 cf. Dixon, Trans. R. Soc. S. Afr. 8:187 (1920).
 CU: *Dicranella subsubulata* cf. Magill, F. S.
 Afr. Bryoph. 1(1):121 (1981).
- pusillus* Schimp. in Besch., Mem. Sc. Nat. Cher-
 bourg 16:165 (1872).
 CU: *Microcampylopus curvisetus* (Hampe)
 Giese & J.-P.Frahm cf. Giese & Frahm,
 Lindbergia.....
 OU: *Campylopodium pusillum* (Schimp.)
 Williams.
- pycnangius* C. Müll. in Kindb., Enum. Bryin.
 Exot. 106 (1891) nom. nud.
 CU: *C. clavatus* (R. Brown) Wils. in Hook.
 cf. Frahm, Bryol. Beitr. 7: 87 (1987).
- pygmaeo-filifolius* C. Müll., Gen. Musc. Fr. 269
 (1900) nom. nud.
 M: Madagaskar, Andrangokaha, *Sikora 188*
 (B).
 CU: *Bryohumbertia cf. flavicoma* cf. Frahm,
 Bryoph. Bibl. 31:198 (1985).
- pyriformis* (Schultz) Brid., Bryol. Univ. 1: 469
 (1826).
 B: *Dicranum pyriforme* Schultz, Prodr. Fl.
 Starg. Suppl. 73 (1819).
 T: „ad pagum Ballin in dem Holz hinter dem
 Hofgarten“ *Schultz s.n.* (B).
 OU: *C. fragilis* (Brid.) B.S.G. var. *pyriformis*
 (Schultz) Agst. cf. Index Muscorum.
- pyriformis* var. *azoricus* (Mitt.) Corley, Journ.
 Bryol. 9:201 (1976).
 B: *Campylopus azoricus* Mitt.
- pyriformis* var. *fallaciosus* (Thér.) Corley, Journ.
 Bryol. 9:201 (1976).
- pyriformis* var. *fragilis* Corb., Mem. Soc. Nat.
 Cherbourg 26:223 (1889).
 CU: *C. pyriformis* var. *fragilis* Husn. cf.
 Frahm, Nova Hedwigia 34:406 (1981).
- pyriformis* var. *fragilis* Husn., Muscol. Gall. 43
 (1882).
 CU: *C. pyriformis* mod. *fragilis* cf. Frahm,
 Nova Hedwigia 34:406 (1981).
- pyriformis* var. *hamatus* J.-P.Frahm &
 J.K.Bartlett, Journ. Bryol. 12:378 (1983).
 T: New Zealand, South Island, Denniston
 Plateau near Westfort, in bog, *Bartlett 26*
 (holotype WELL, isotype bb. Frahm).
- pyriformis* var. *muelleri* (Jur.) Braithw., J. Bot.
 8:33 (1870) = *C. pyriformis* stat. *muelleri*

cf. Frahm, Nova Hedwigia 34:405 (1981).

Q

- queszelii* Desplanques & Hebrard, Riviera
 scientif. 8:61 (1972).
 OU: Ditrichaceae cf. Frahm, Bryoph. Bibl.
 31:197 (1985).
 CU: *Verrucidens spec. vel Dicranoweisia*
spec. cf. Vitt (in litt.)
- quintasii* Broth., Bol. Soc. Broter. 8:175 (1890).
 T: „Afr. occ. trop., Ins. S. Thome, leg. Fr.
 Quintas“ (isotypes PC, S).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm,
 Cryptogamie Bryol. Lich. 3(1):63 (1982).

R

- rabenii* Lor., Moosstud. 158 (1864).
 T: Brasilia, com. Raben (B).
 CU: *C. filifolius* var. *humilis* cf. Frahm,
 Cryptogamie Bryol. Lich. 2:444 (1981) =
Bryohumbertia filifolia (Hornsch.) J.-P.Frahm
 var. *humilis* (Mont.) J.-P.Frahm.
- rallieri* Card., Bull. Mus. Hist. Nat. Paris 22:337
 (1916).
 T: Kerguelen Expedition, *Rallier de Baty*
 (1913-14) 30,31 (syntypes PC).
 CU: *C. eximius* Reichdt. cf. Frahm, Bryoph.
 Bibl. 31:67 (1985).
- ramuliger* Broth., Denkschr. Ak. Wiss. Wien
 Math. Nat. Kl. 83:262 (1926).
 T: Type. Brazil, Sao Paulo, Apiahy, *Schiffner*
110 (holotype not present in H-BR; isotypes
 BM, PC).
 CU: *C. cryptopodioides* Broth. cf. Frahm, Fl.
 Neotr. 54: 77 (1991).
- rarus* R.Brown ter., Trans. New Zealand Inst.
 29:470 (1897).
 OU: *C. appressifolius* Mitt. cf. Dixon, New
 Zealand Inst. Bull. 3(3):89 (1923).
 CU: *C. clavatus* (R.Brown) Wils. cf. Sainsb.,
 Trans. New Zealand Inst. 59(3):506 (1928).
- raspannae* C. Müll. in Bruehl., Rec. Bot. Surv.
 India 13(1):123 (1931) nom. nud.
- rauei* (Aust.) Par., Ind. Bryol. 259 (1894).
 CU: *Dicranum muehlenbeckii* B.S.G. cf. Par.
 l.c.
- reconditus* (Thwait. & Mitt.) Jaeg., Ber. S. Gall.

- Naturw. Ges. 1877-78:384 (1880).
 B: *Sphaerothecium reconditum* Thwait. & Mitt., J. Linn. Soc. Bot. 13: 294 (1873).
 T: Ceylon, Central Province, *Thwaites 11* (FH).
 CU: *Sphaerothecium reconditum* Thwait. & Mitt.
- rectipes* C. Müll., Gen. Musc. Fr. 270 (1900) nom. nud.
 OU: *C. pleurocarpus* cf. Frahm, Revue Bryol. Lich. 42:609 (1976) = *C. controversus* (Hampe) Jaeg.
 CU: *C. thwaitesii*
- rectipilis* C. Müll. in Kindb., Enum. Bryin. Exot. 106 (1891) nom. nud.
 OU: *C. xanthophyllus* Mont. cf. Theriot, Rev. Chil. Hist. Nat. 22:82 (1918).
 CU: *C. introflexus* (Hedw.) Brid. cf. Mitten, J. Linn. Soc. Bot. 12:84 (1869).
- rectisetus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:385 (1880).
 B: *Dicranum rectisetum* Hampe, Vidd. Med. Naturh. Foer. Kjoebenh. ser. 3, 6: 137 (1875).
 T: Brazil, Rio de Janeiro, *Glaziou 6364* (isotype PC).
 CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 2:447 (1981).
- recurvifolius* Dus., Ark. Bot. 4:9 (1905).
 CU: *C. aureo-nitens* ssp. *recurvifolius* (Dus.) J.-P. Frahm cf. Frahm, Bryol. Beitr. 7: 95 (1987)..
- recurvipilus* (C. Müll.) Par., Ind. Bryol. ed.2,1:325 (1904).
 B: *Dicranum recurvipilum* C. Müll., Hedwigia 39: 259 (1900).
 T: Brazil, S. Catarina, Novo Friburgo, *Peters 1871* (not seen).
 CU: *C. griseus* cf. Frahm, Revue Bryol. Lich. 42:606 (1976).
- recurvus* (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:418 (1872).
 B: *Dicranum recurvum* Mitt., J. Linn. Soc. Bot. Suppl. 1: 20 (1859).
 T: India, Nilghiri Mtns., *Gardner 16* (holotype NY).
- recurvus* ssp. *cataractarum* Fleisch., Musci Fl. Buitenzorg 1:109 (1904).
 OU: *C. cataractarum* (Fleisch.) Fleisch., *C. hemitrichius* (C. Müll.) Jaeg. cf. Eddy, Malesian Mosses vol. 1 (1988).
 CU: *C. recurvus* (Mitt.) Jaeg. cf. Frahm, Bryol. Beitr. 7: 22 (1987),
reduncus (Reinw. & Hornsch.) Bosch & Lac., Bryol. Jav. 1:75 (1858) .
 B: *Dicranum reduncum* Reinw. & Hornsch., Nov. Act. Leop. Car. 14: 703 (1829).
 T: Java, Gedeh, *Junghuhn* (H-BR).
 CU: *C. comosus* cf. Frahm, J. Bryol. 13:166 (1894).
- reflexisetus* (C. Müll.) Broth., Nat. Pfl. 1(3): 332 (1901).
 B: *Dicranum reflexisetum* C. Müll., Linnaea 38: 586 (1874).
 T: Colombia, Antioquia, Páramo de Sonsón, *Wallis s. n.* (holotype destroyed at B; lectotype H-BR)
- reflexus* Broth. in Herz., Biblioth. Bot. 87:23 (1916).
 T: Bolivia, Incacorrall, *Herzog 4988* (holotype JE, isotypes B, FH, H-BR).
 CU: *C. incacorrallis* Herz. cf. Frahm, J. Hattori Bot. Lab. 44:485 (1978) = *C. flexuosus* (Hedw.) Brid. var. *incacorrallis* (Herz.) J.-P. Frahm.
- refractus* J.-P. Frahm, Nova Hedwigia 59: 147, 1994.
 T: New Caledonia, Mt. Panie, low, mostly mossy forest 1300-1640m, *H.M. Moore jr. 10051*, 30.9.72 (holotype MO, isotype hb. Frahm).
- renneri* Herz., Bibl. Bot. 88: 5 (1920).
 T: Bolivia, Moräental Torreni, *Herzog 3738* (holotype JE; isotype B).
 CU: *C. pittieri* Williams cf. Frahm, Fl. Neotr. 54: 159 (1991).
- renneri* Herz. var. *latelimbata* Thér., Rev. Bryol. Lichenol. Ind. 1-22: 18 (1954).
 T: Bolivia, *Herzog 4318b, pp.* (holotype JE).
 CU: *C. pittieri* cf.
- restingae* C. Müll. ex Broth., Denkschr. Ak. Wiss. Wien Math. Nat. Kl. 83:260 (1926).
 T: Brazil, Rio de Janeiro, Mauá, *Ule 212* (holotype H-BR; isotypes JE, KIEL, NY).
 CU: *C. acervatus* Mitt. cf. Frahm, Revue Bryol. Lich. 45:135 (1979).
 CU: *occultus* cf. ???
- reticulatus* Par. & Broth., Rev. Bryol. 29:63 (1902).
 T: Guinée française, Iles de Los, ile Kassa,

- Pobeguina* 1 (PC).
CU: Bryaceae cf. Frahm, Bryoph. Bibl. 31:197 (1985).
- retinervis* (C. Müll.) Par., Ind. Bryol. Suppl. 96 (1900).
B: *Dicranum retinerve* C. Müll., Bull. Herb. Boiss. 5: 552. 1897.
T: Jamaica, Cinchona, *Harris 11025* (holotype destroyed at B; isotype, NY).
CU: *C. fragilis* (Brid.) B.S.G. cf. Frahm, *Lindbergia* 7:31 (1981).
- revolvens* Herz. in Thér., Rev. Bryol. Lich. 11:59 (1939).
T: Colombia, Florencia, *Woronow 317/318* (JE, B).
CU: no *Campylopus* cf. Frahm, Bryol. Beitr. 7: 66 (1987).
- richardii* Brid., Mant. Musc. 73. (1819).
T: Guadelupe, *Parker s. n.* (holotype, B).
OU: *Thysanomitrium richardii* (Brid.) Schwaegr., Spec. Musc. Suppl. 1(2): 61 (1823).
- ridleyi* (Dix.) Manuel, Fed. Mus. Journ. 26:161 (1981).
B: *Thysanomitrium ridleyi* Dix., Bull. Torr. Bot. Cl. 51: 227 (1924).
T: Malay Peninsula, Pahang, Gunong Jahan, *Ridley s.n.* (PC).
CU: *C. lorentzii* cf. Frahm, *Nova Hedwigia* 39:595 (1984) = *C. exasperatus* var. *lorentzii* cf. Frahm et al., Acta Bot. Fenn. 131:80 (1985).
- rigens* Ren. & Card., Bull. Soc. R. Bot. Belg. 35:300 (1897).
T: Madagascar, *Perrot s.n.* (holotype PC).
CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *madecassus* (Besch.) J.-P. Frahm cf. Frahm, Bryoph. Bibl. 31:16 81985).
OU: *C. inerangae* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:174 (1926).
- rigescens* Kindb., Enum. Bryin. Exot. 89 (1889) nom. nud.
- rigidiusculus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:432 (1872).
B: *Dicranum rigidiusculum* Hampe, Vid. Medd. Naturh. Foer. Kjoebenh. ser. 3, 2: 272 (1870).
T: Brazil, Sierra de Piedade, *Warming s.n.* (isotype PC).
CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Revue Bryol. Lich. 45:137 (1979).
- rigidus* (Hornsch.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:443 (1872).
B: *Thysanomitrium rigidum* Hornsch., Fl. Bras. 1(2): 15 (1840).
T: Brazil, Ouro Preto, *Martius s. n.* (not seen).
CU: *C. richardii* Brid. cf. Frahm, Revue Bryol. Lich. 45:160 (1979).
- ripicola* Besch., Ann. Sc. Nat. Bot. ser. 6,9:326 (1880).
T: Bourbon, *Laperranche 23* (holotype PC).
CU: *C. aureus* Bosch & Lac. cf. Frahm, Bryoph. Bibl. 31:30 (1985) = *C. schmidii* (C. Müll.) Jaeg.
- robbinsii* Bartr., Rev. Bryol. Lich. 30:187 (1962).
T: Papua N.G., Western Highlands, Wabag area, near Tabanaka Wage Valley.... *Robbins 3304* (holotype FH).
CU: *C. aureus* Bosch & Lac. cf. Frahm et al., Acta Bot. Fenn. 131:70 (1985) = *C. schmidii* (C. Müll.) Jaeg.
- roberti* Par., Ind. Bryol. Suppl. 96 (1900).
OU: *C. appressifolius* Mitt. cf. Dixon, New Zealand Inst. Bull. 3(3):89 (1923).
CU: *C. clavatus* (R. Brown) Wils. cf. Sainsb., Trans. New Zealand Inst. 59(3):506 (1928).
- robillardii* Besch., Ann. Sc. Nat. Bot. ser. 6, 9: 323 (1880).
T: Maurice, *Robillard s.n.* (holotype PC).
robillardii var. *perauriculatus* (Broth.) J.-P. Frahm, Bryol. Beitr. 7: 89 (1987).
- rodwayi* Broth. in Rodw., Pap. Proc. R. Soc. Tasmania 1913:260 (1914).
CU: *C. clavatus* (R. Brown) Wils. cf. Sainsb.,
- roellii* Ren. & Card., Bull. Soc. R. Bot. Belg. 38:9 (1900).
T: Costa Rica, Juan Vinas 3400 ped., *Sarg s.n.* (not seen).
OU: *C. flexuosus* (Hedw.) Brid. cf. Hagen, K. Norsk. Vid. Selsk. Skrift. 1914(1):75 (1915).
CU: *C. tallulensis* Sull. & Lesq. cf. Allen, Trop. Bryol. 1: 78 (1987).
- roinei* Card. & P. Varde, Rev. Bryol. 49:37 (1922).
T: India, Kodaikanal, Foreau & Roiné, Musci Madurenses 51 (holotype PC, isotype BR).
CU: *C. involutus* (C. Müll.) Jaeg. cf. Frahm, Bryol. Beitr. 7: 67 (1987) = *C. ericoides* (Griff.) Jaeg.

- roraimae* Broth., Trans. Linn. Soc. Bot. ser. 2,6:89 (1901).
T: Venezuela. *McConnell & Quelch 527* (holotype H-BR).
CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Flor-schütz, Mosses of Suriname 73 (1964).
- rosulatus* (Hampe) Mitt., J. Linn. Soc. Bot. 12:79 (1869).
B: *Dicranum rosulatum* Hampe, Linnaea 32: 139 (1863).
T: Colombia, Bogotá la Penna et Pacho, *Lindig 2012* (holotype not seen; isotypes H-BR, GOET, NY).
CU: *C. pauper* (Hampe) Mitt. cf. Frahm, Fl. Neotr. 54: 148 (1991).
- rubiginosus* Stirt., Ann. Scott. Nat. Hist. 15:109 (1906).
CU: *C. flexuosus* (Hedw.) Brid. cf. Hagen, K. Norsk Vid. Selsk. Skrift. 1914(1):75 (1915).
- rubricaulis* Broth. & Par., Oefv. Finsk. Vet. Soc. Foerh. 51A:4 (1909).
T: Nouvelle Calédonie, Baie du Sud, *Le Rat s.n.* (isotypes B, FH, L).
CU: *C. purpureo-flavescens* (C. Müll.) Par. cf. Frahm, Bryol. Beitr. 7: 94 (1987) = *C. hawaiiicus* (C. Müll.) Jaeg. cf. Frahm, The Bryologist 94: 62 (1991).
- rubricaulis* Lindb. in C. Müll., Gen. Musc. Fr. 169 (1900) nom. nud.
M: Brazil, Caldas, *Lindberg s.n.*(B).
CU: *C. filifolius* (Hornsch.) Mitt. var. *humilis* (Mont.) J.-P. Frahm cf. Frahm, Cryptogamie Bryol. Lich. 2(4):445 (1981) = *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm var. *humilis* (Mont.) J.-P. Frahm.
- rubricaulis* Lindberg in C. Müll., Gen. Musc. Fr. 169. 1900, nom. nud.
- rufescens* Broth. in Par., Ind. Bryol. Suppl. 96 (1900).
B: *Dicranum rufescens* C. Müll., Bull. Herb. Boiss. VI:34 (1898).
T: Brazil, Minas Gerais, Serra do Ouro Preto, *Ule 1348* (lectotype, H-BR).
CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 45:156 (1979).
- rugosus* Besch., Ann. Sc. Nat. Bot. ser. 5,18:198 (1873).
T: „in monte Cougui, *Balansa 2560* cum *C. Balansaeano socius*“ (holotype PC).
CU: *C. laxitextus* Lac.
- ruttneri* Thér. in Froehl., Arch. Hydrobiol. Suppl. 21:307 (1955).
T: Sumatra, Fort de Koek supra Padäng, *Ruttner s.n.* (PC).
CU: *C. macgregorii* cf. Frahm, Nova Hedwigia 39:595 (1984).
- ruwenzoriensis* Demar. & P. Varde. Bull. Jard. Bot. Bruxelles 26:265 (1956).
T: Zaire, entre Kalonge et Mahanga, *Demaret 516p* (holotype BR).
CU: *C. fragilis* (Brid.) B.S.G. cf. Frahm, Bryoph. Bibl.31:81 (1985).
- ryparochlorus* C. Müll., Gen. Musc. Fr. 276 (1900) nom. nud.
CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Bryoph. Bibl. 31:196 (1985).
- ## S
- saddleanus* (C. Müll.) Besch., Bull. Soc. Bot. France 32: LVIII (1885).
T: Saddle-Inseln, Wollaston, *Hariot 163* (H).
CU: *C. vesticaulis* Mitt. cf. Dixon in Christ., Res. Norw. Sc. Exp. Tristan da Cunha 48:18 (1960).
- saint-pierrei* Thér., Smiths. Misc. Coll. 85(4):3,2 (1931).
T: Mexico, Hidalgo, El Chico *Saint Pierre 1589* (PC).
CU: *C. japonicus* Broth.
- sallesseanus* Par. & Broth., Rev. Bryol. 29:64 (1902).
T: Guinea, Fouta Djallon, *Normand s.n.* (isotype B, holotype PC).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Lindbergia 8(1):48 (1982).
- samoanus* Broth. in Rech., Denkschr. Ak. Wiss. Wien Math. Nat. Kl. 84:387 (1908).
T: Samoa, Berg Launtre, *Rechinger 355* (lectotypus H-BR).
CU: *C. laxitextus* Lac. cf. Frahm, Bryol. Beitr. 7: 68 (1987)..
- sancti-caroli* Besch., J. de Bot. 5:147 (1891).
T: Chili, San Carlos, *Gay s.n.* (BM).
CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 68 (1987).
- sandwicensis* Par., Ind. Bryol. 97 (1900).
T: Insulae Hawaiiicae, sine loco speciali, *Hillebrand s.n.* (could not be located).
CU: *C. umbellatus* (Arn.) Par. cf. Bartr.,

- Bishop Mus. Bull. 101:44 (1933).
 OU: *C. richardii* Brid. cf. Dixon. J. Bot. 60:287 (1922).
- santae-helena* Schimp. in Par., Ind. Bryol. ed.2,1:326 (1904) nom. nud.
 OU: *C. helenicus* (C. Müll.) Jaeg. cf. Paris l.c.
 CU: *C. arcuatus* (Brid.) Jaeg.
- sargii* Roell ex Ren. & Card., Bull. Soc. R. Bot. Belg. 38(1):8 (1900) .
 T: Costa Rica, *Sarg s. n.* (isotype H-BR).
 OU: *C. flexuosus* (Hedw.) Brid. cf. Bartr., Fieldiana Bot. 25:43 (1949).
 CU: *C. zygodonticarpus* (C. Müll.) Par. cf. Allen, Trop. Bryol. 1: 92 (1987).
- sauteri* (B.S.G.) Par., Ind. Bryol. ed.2,1:236 (1904).
 CU: *Paraleucobryum sauteri* B.S.G.
- savannarum* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12:85 (1869).
 B: *Dicranum savannarum* C. Müll., Syn. Musc. 2: 596 (1851).
 T: Type. Suriname, *Kegel s. n.* (holotype destroyed at B; lectotype BM; isolectotypes H-BR, JE, L).
- savannarum* ssp. *bartlettii* (Bartr.) Florsch., Mosses Suriname 79 (1964).
 B: *Campylopus bartlettii* Bartr.
 CU: *C. savannarum* mod. *bartlettii*.
- saxatilis* Williams, N. Am. Fl. 15:137 (1913).
 T: Jamaica, Cinchona, *Harris 11143* (holotype NY, isotypes DUKE, F).
 CU: *C. cygneus* cf. Frahm, Nova Hedwigia 41:277 (1985).
- saxicola* (Web. & Mohr) Brid., Mant. Musc. 72 (1819).
 CU: *Campylostelium saxicola* (Web. & Mohr) B.S.G.
- saxicola* Broth. in Skotts., Nat. Hist. Juan Fernandez 2(3):243 (1924) hom. illeg.
 OU: *C. pascuanus* Frahm nom. nov.
 CU: *C. hygrophilus* Broth. cf. Frahm, Nova Hedwigia 34:392 (1981) = *C. vesticaulis* Mitt. cf. Frahm, Bryol. Beitr. 7: 68 (1987).
- scaberrimus* Broth. in Dus., Rep. Princeton Univ. Exp. Patag. 8:72 (1903) nom. nud.
 CU: *Chorisodontium aciphyllum* (Hook.f. & Wils.) Broth. cf. Card. in Broth., Nat. Pfl. 1(3):1183 (1909).
- scabrellus* Mitt., J. Linn. Soc. Bot. 12:86 (1869).
 T: Brazil, without locality, Lobb s. n. (holotype NY).
 CU: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lichen. 45:156 (1979).
- scabridorsus* Dix., Hong Kong Natural. Suppl. 2:5 (1933).
 T: Hong Kong, repusle Bay, *Ah. Nin H22A* (isotypes BR, L).
 CU: *C. serratus* Lac. cf. Frahm, Bryol. Beitr. 7: 91 (1987).
- scabridii* Bealey in Dix., New Zeal. Inst. Bull. 3(3):88 (1923) nom. nud.
 CU: *C. clavatus* (R.Brown) Wils. cf. Dixon l.c.
- scabricuspis* Mitt. in Mell., S. Helena 358 (1875).
 T: St. Helena, *Mellis 9* (holotype NY).
 CU: *C. flexuosus* cf. Frahm, Bryol. Beitr. 7: 90 (1987).
- scabridorsus* Dix., Hong Kong Natural. Suppl. 2:5 (1933).
 CU: *C. serratus* Lac. cf. Frahm, Bryol. Beitr. 7: 68 (1987).
- scabripilus* Warnst., Hedwigia 57:80 (1915) .
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Revue Bryol. Lich. 42:905 (1976).
 OU: *C. richardii* cf. Takaki, J. Hatt. Bot. Lab. 30:236 (1967).
- scabrophyllus* (C. Müll.) Par., Ind. Bryol. Suppl. 97 (1900).
 B: *Dicranum scabrophyllum* C. Müll., Hedwigia 37: 98 (1898).
 T: Uruguay, Montevideo, *Arechavaleta 232* (holotype destroyed at B, lectotypus nov., NY).
 CU: *C. griseus* (Hornsch.) Mitt. cf. Frahm, Revue Bryol. Lich. 45:150 (1979).
- schenkei* C. Müll. in Par., Ind. Bryol. ed.2,1:326 (1904) nom. nud.
 HS: *C. schenkei* Par., Ind. Bryol. 260, (1894).
 OU: *C. bicolor* ssp. *atroluteus* cf. Frahm, Bryol. Beitr. 7: 90 (1987).
 CU: *C. bicolor* (C. Müll.) Wils.
- schiffneri* (Broth.) J.-P.Frahm, J. Bryol. 8:260 (1974).
 B: *Thysanomitrium schiffneri* Broth., Denkschr. Akad. Wiss. Wien math.-nat. Kl. 83: 265 (1926).
 T: Brazil, Sao Paulo, Campo Grande, *Schiffner 560* (holotype H-BR).
 CU: *C. savannarum* (C. Müll.) Mitt. cf.

- Frahm, Revue Bryol. Lich. 45:161 (1979).
- schimperi* Milde, Bot. Zeit. 22 Beil.:13 (1864).
T: Italien: Am Fuß der Zielalpe bei Partschins bei Meran 1600' am Wasser einer Wasserleitung. Milde (20.10.1863) *Bryoth. europ. 658* (FB, FR, GOET, JE, U).
- schmidii* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:439 (1872) (39).
B: *Dicranum schmidii* C. Müll., Bot. Zeit. 11:37 (1853).
T: „Ost-Ind., Neilgheries, *Schmid s.n.* (BM, L).
- schroederi* Broth., Hedwigia 52:307 (1912).
T: Kilimandscharo, *Schroeder (9/1910) s.n.* (isotype PC).
CU: *Campylopus filifolius* cf. Frahm, Lindbergia 8:51 (1982) = *Bryohumbertia* spec. cf. Frahm, Bryoph. Bibl. 31:197 (1985).
- schunkei* Rehm. in Dix. & Gepp, Bull. Misc. Inf. Kew 1923:197 (1923) nom. nud.
OU: *C. schenkei* C. Müll.
CU: *C. bicolor* ssp. *atroluteus* cf. Frahm, Bryoph. Bibl. 31:191 (1985).
- schwaegrichenii* Duby, Mem. Soc. Phys. Hist. Nat. Geneve 20:360 (1870).
T: Brazil, Porto de Estrelle, *Beyrich s. no.* (holotype, G).
CU: *C. trachyblepharon* cf. Frahm, Revue Bryol. Lich. 45:164 (1979).
- schwarzii* Schimp., Musci Eur. Nov. Bryol. Eur. Suppl. fasc.1-2, Campylop. 1 (1864).
T: Österreich, Velbertauern, *Dr. Schwarz (16.8.1858) s.n.* (JE).
CU: *C. gracilis* (Mitt.) Jaeg. cf. Frahm, Nova Hedwigia 59: 152 (1994).
- sciuroides* Welw. & Duby, Mem. Phys. Hist. Nat. Geneve 21:220 (1870).
T: Angola, Distr. Pungo Adongo, Welwitsch 10 (G, lectotype).
CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryoph. Bibl. 31:171 (1985).
- sclerodictyum* Card., Annuair. Cons. Jard. Bot. Geneve 15-16:160 (1912).
T: Java, M. Gedeh 2700-2800 m, *Hochreuter 278 p. pte* (isotypes FH, L).
CU: *C. exasperatus* cf. Frahm, Bryol. Beitr. 7: 70 (1987).
- scopelliformis* (C. Müll.) Broth., Nat. Pfl. 1(3):334 (1901).
B: *Dicranum scopelliforme* C. Müll., Hedwigia 39: 248 (1900).
T: Sta. Catarina, Serra do Oratorio, *Ule 706* (holotype destroyed at B; lectotype, H-BR).
CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *caldensis* (Aongstr.) J.-P.Frahm cf. Frahm, Revue Bryol. Lich. 45:138 (1979).
- scoposum* Hampe ex C. Müll., Gen. Musc. Fr. 265 (1900). (*)
- scottianus* (Turn.) Brid., Mant. Musc. 72(1819), *C. scoltianus* Brid. l.c.
CU: *Dicranum scottianum* Turn.
- scrabricuspis* Mitt. in Mell., S. Helena 358 (1875).
CU: *C. flexuosus* (Hedw.)Brid. cf. Frahm, Bryol. Beitr. 7: 68 (1987).
- searellii* R.Brown ter., Trans. New Zealand Inst. 29:468 (1897).(*)
- sedgwickii* Dix., J. Bot. 48:303 (1910).
T: India, Western Ghats, Mahableshevar, on earth, *Sedgwick s.n.* (isotype H-BR).
CU: *C. recurvus* (Mitt.) Jaeg. cf. Frahm, Trop. Bryol. 4: 60 (1991).
- sehnemii* Bartr., J. Wash. Ac. Soc. 42(6): 179. 1952.
T: Brazil, Rio Grande do Sul, Campestre Montenegro, *Sehnem 2310* (holotype FH).
CU: *C. julicaulis* Broth. cf. Frahm, Nova Hedwigia 59: 152 (1994).
- sellowianus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:385 (1880).
HS: *C. sellowii* C. Müll. ex Kindb., Enum. Bryin. Exot. 51 (1888).
B: *Dicranum sellowianum* Hampe, Vidensk. Medd. Naturh. For. Kjoebenh. ser. 3,4: 43 (1872), nom. illeg. pro *Thysanomitrium scabrisetum* Hampe.
T: Brazil. *Sellow s. n.* (not seen).
CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Mitten, J. Linn. Soc. Bot. 12:8 (1869).
- semidorsum* Rehm. ex Par., Ind. Bryol. 260 (1894) nom. nud.
CU: *C. catarractilis* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:179 (1926).
OU: *C. atroluteus* (C. Müll.) Par. cf. Magill, Fl. S. Afr. Bryoph. 1(1):148 (1981).
- senex* (C. Müll.) Par., Ind. Bryol. Suppl. 97 (1900).
B: *Dicranum senex* C. Müll. Hedwigia 36: 351 (1897).
T: Australia, Victoria, *Luehmann s.n.*; Hume

- River, *Campbell s.n.* (syntypes, not seen).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, J. Bryol. 13:359 (1985).
- senilis* Lor. in C. Müll., Gen. Musc. Fr. 265 (1900) nom. nud.
- sericeoides* Dix., J. Linn. Soc. Bot. 50:71 (1935).
 T: N-Borneo (Mt. Kinabalu), Pakka (Cave) 10200', *Holthum 25/89* (holotype BM).
- sericeus* Fleisch., Musci Fl. Buitenzorg 1:99 (1904).
 T: Java, Pangerango, *Fleischer (1898) s.n.* (holotype FH, isotype L).
 CU: *C. austro-subulatus* Broth. & Geh. cf. Frahm, Bryol. Beitr. 7: 69 (1987).
- sericeus* Negri, Annali Bot. 7:162 (1908) hom. illeg.
 T: M. Ruwenzori prope Bujongolo ca. 3800 m ad cortices.
 CU: *C. stramineus* (Mitt.) Jaeg. cf. Dixon, Smiths. Misc. Coll. 69(2):10 (1918) = *C. nivalis* (Brid.) Brid.
- serratus* Lac., Natuurk. K. Ak. Wet. Amsterdam 13:11 (1872).
 T: Banca VII/58 leg. *Kurz* ex hb. Sande Lacoste (isotype H-BR).
- serricuspes* Thér. & P. Varde Rev. Bryol. Lich. 6:135 (1934).
 T: "Africa trop. occ., Gabon" *Le Testu*, Musci selecti et critici 12 (isotypes NY, L, U, B).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Cryptogamie Bryol. Lich. 6:207 (1985).
- serridorsus* (C. Müll.) Par., Ind. Bryol. Suppl. 97 (1900).
 B: *Dicranum serridorsum* C. Müll., Hedwigia 38: 84 (1899).
 T: Cape, Table Mountain, *Rehmann 45*.
 CU: *C. inchangae* cf. Magill, Bryoph. S. Afr. 1(1):146 (1981) = *C. robillardae* Besch.
 OU: *C. catarractilis* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:179 (1926).
- serrifolius* (Broth. & Par.) Frahm,
 B: *Pilopogon serrifolius* Broth. & Par., Oefv. Finsk. Vet. Akad. Soc. Foerh. 53A(11): 7 (1911).
 T: Neukaledonien, *Le rat (7/1909) s.n.* (H-BR, S).
 OU: *Thysanomitrium serrifolium* (Broth. & Par.) Broth., Nat. Pfl. ed. 2,10: 189 (1924).
- serripilus* C. Müll., Gen. Musc. Fr. 265 (1900) nom. nud.
- setaceo-rigidus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:496 (1880).
 B: *Dicranum setaceo-rigidum* Hampe, Vid. Medd. Naturh. Foer. Kjoebenhavn ser. 3,9-10:257 (1878). T: Brazil, „ad Rio Preto“, *Glaziou 9077* (isotypes NY, PC).
 CU: *C. aemulans* cf. Frahm, Revue Bryol. Lich. 45:135 (1979).
- setaceus* Card., Ann. Missouri Bot. Garden 8:54 (1897).
 T: Azores, Fayal, *C.S. Brown (1894) s.n.* (isotype BM).
 CU: *C. cygneus* cf. Frahm, Nova Hedwigia 41:277 (1985).
- setifolius* Wils., Bryol. Brit. 89 (1855).
 T: In rocky places on mountains. On Carrig Mountain near Dunkerron, Ireland, *Dr. Taylor* (holotype BM).
- seuberti* C. Müll., Gen. Musc. fr. 271 (1900) nom. nud.
- sharpii* J.P. Frahm, Horton & Vitt Bryologist 82: 623 (1979).
 T: Mexico, Oaxaca: Near S. Pedro Yolox, 17°36' N, 96°24' W, *Vitt 17715* (ALTA TENN).
- shawii* Wilson in Hunt, Mem. Lit. Phil. Soc. Manchester ser. 3,3: 234 (1868).
 T: Outer Hebrides, *Shaw s. no.* (holotype BM).
- siamensis* Dix. & Thér., J. Siam Soc. Nat. Hist. Suppl. 9(1):8 (1932).
 T: Siam, Udawu Loi, Kao Krading 1200 m, *Kerr 85* (BM).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryol. Beitr. 7: 71 (1987).
- siamensis* var. *subsiamensis* Dix. & Thér. l.c.
 T: Rangala, Ceylon, *Alston 1502* (BM).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryol. Beitr. 7: 71 (1987).
- silvaticus* Rehm. in Par., Ind. Bryol. ed.2,1:327 (1904) nom. nud.
 M: Südafrika, *Rehmann 50* (PC).
 CU: *C. praetermissus* J.-P. Frahm cf. Frahm, Bryoph. Bibl. 31:152 (1985).
- simii* Schelpe, Mem. bot. Surv. S. Afr. 43:5 (1979) nom. nov. pro *C. pseudojulaceus* Sim hom. illeg.
 T: as in *C. pseudojulaceus*.
 CU: *C. julaceus* ssp. *arbogastii* cf. Frahm,

- Bryoph. Bibl. 31:109 (1985).
sinensis (C. Müll.) J.-P. Frahm, Ann. Bot. Fenn. 34: 202, 1997.
 B: *Dicranum sinense* C. Müll., Nuov. Giorn. Bot. Ital. n. ser. 4: 249, 1897
 OU: *Dicranodontium sinense* (C. Müll.) Par., Ind. Bryol. Suppl. 119, 1900
 T: China, „China interior, provincia Schensi sept., in monte Ki-san“, *Goraldi 1490* (Lectotypus H-BR, cf. Frahm 1997)
singaporensis Fleisch. ex Par., Rev. Bryol. 33:25 (1906).
 T: Singapore, im botan. Garten auf Wiesen zwischen Gras wachsend, *Fleischer Musci Fr. Arch. Ind.* 403 (NY, PC).
 CU: *C. serratus* Lac. cf. Dixon, Gard. Bull. Straits. Settl. 4:5 (1926).
skottsbergii Broth., Bishop Mus. Bull. 40:6 (1927).
 T: Hawaii, summit of Puu Kukui, *Skottsberg 1740* (lectotype H-BR).
 CU: *C. schmidii* ssp. *hemitrichius* (C. Müll.) J.-P. Frahm cf. Frahm, The Bryologist 94: 64 (1991).
smaragdinus (Brid.) Jaeg., Ber. S. Gall. Naturwiss. Ges. 1870-71: 432 (1872).
 B: *Didymodon smaragdinus* Brid.
 T: Ascension, *Lesson s.n.* (isotypes BM, PC).
 OU: *Dicranum smaragdinum* (Brid.). C. Müll., Syn. Musc. 1: 401 (1848).
sommieri Bott. in Giac., Atti Ist. Univ. Lab. Critt. Pavia ser.5,13:63 (1955) nom. nud.
 OU: *C. introflexus* (Hedw.) Brid. var. *vaporarius* (De Not.) Moenk. cf. Giacomini l.c.
 CU: *C. pilifer* Brid.
sordidus (Mitt.) Jaeg., Ber. S. Gall. Naturw. ges. 1870-71:434 (1872).
 CU: *Blindia sordida* (Mitt.) C. Müll.
sparksii R. Brown ter., Trans. New Zealand Inst. 29:467 (1897).
 CU: *C. pallidus* Hook.f. & Wils. cf. Dixon, New Zealand Inst. Bull. 3(3):86 (1923) = *C. pyriformis* (Schultz) Brid.
spgazzinii (C. Müll.) Par., Ind. Bryol. 261 (1894).
 CU: *Chorisodontium spgazzinii* (C. Müll.) Roiv.
sphagnicola Herz., Rep. Spec. Nov. Regn. Veg. 21:28 (1925).
 T: Brazil, Serra dos Orgaos, Morro Assu, v. *Lützelburg 6760b* (holotype, JE).
 CU: *C. fragilis* (Brid.) B.S.G. ssp. *fragiliformis* (J.-P. Frahm) J.-P. Frahm .
spiralis Dus., Ark. Bot. 4(13):4 (1905).
spirifolius Herz., Beih. Bot. Centralbl. 26(2):55 (1909).
 CU: *Ditrichum bogotense* (Hampe) Broth. spirothecius C. Müll. in Polak., Verh. Bot. Ver. Brandenburg 19:68 (1878) nom. nud.
sprucei Mitt., J. Linn. Soc. Bot. 12:81 (1869).
 T: Brazil, Rio Negro, *Spruce 59* (holotype NY; isotypes F, FH, H-BR, H-SOL).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, J. Bryol. 11:213 (1980).
spurio-concolor (C. Müll.) Par., Ind. Bryol. Suppl. 97 (1900).
 B: *Dicranum spurio-concolor* C. Müll., Nuov. Giorn. Bot. Ital., n. ser. 4:34 (1897).
 T: Bolivia, Yungas, *Rusby 3115* (holotype destroyed at B; lectotype H-BR).
 CU: *C. densicoma* cf. Frahm, Nova Hedwigia 39:155 (1984).
squalidus Brid., Mant. Musc. 77 (1819).
 CU: *Racomitrium lanuginosum* (Hedw.) Brid. var. *squalidum* (Brid.) Brid.
standaertii Broth. & Par., Nat. Pfl. 1(3):1185 (1909) nom. nud.
 CU: *Pilopogon laevis* (Tayl.) Thér. cf. Frahm, J. Hattori Bot. Lab. 44:484 (1978).
standleyi Bartr., Contr. U.S. Nat. Herb. 26:59 (1928).
 T: Costa Rica, Cerro de las Vueltas, *Standley & Valerio 43939* (holotype FH; isotypes JE, NY).
 CU: *C. jamesonii* (Hook.) Jaeg. cf. Bartr., Fieldiana Bot. 25:40 (1949).
 OU: *C. standleyi* cf. Allen, Trop. Bryol. 1: 90 (1989).
stenocarpus (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1871-72:434 (1872).
 B: *Thysanomitrium stenocarpum* Hampe
 T: Brasilia, Joinville (GOET).
 CU: *Dicranum stenocarpum* (Hampe) C. Müll. Syn. Musc. 2: 600 (1851).
stenopelma (C. Müll.) Rehm. ex Par., Ind. Bryol. Suppl. 97 (1900).
 B: *Dicranum stenopelma* C. Müll. Hedwigia 38: 83 (1899).
 T: Cape, Knysna, near Esternek, *Rehmann 52*

- (G, PC).
 CU: *C. controversus* (Hampe) Jaeg. cf. Frahm, *Hikobia* 11 (1994) = *C. thwaitesii*.
- stewartii* R. Brown ter., *Trans. New Zeal. Inst.* 29:472 (1897).
 CU: *C. bicolor* (C. Müll.) Wils. cf. Dixon, *New Zealand Inst. Bull.* 3(3):86 (1923).
- steyermarkii* Bartr., *Bot. Soc. Venez. Cienc. Nat.* 106:35 (1963).
 T: Venezuela. Cabeceras de Rio Chicanán, *Steyermark 89600* (holotype FH; isotype VEN).
 CU: *C. richardii* Brid. cf. Frahm, *Bryol. Beitr.* 7: 97 (1987).
- stramineolus* C. Müll., *Gen. Musc. Fr.* 270 (1900) nom. nud.
 CU: *C. pleurocarpus* cf. Frahm, *Revue Bryol. Lich.* 42:609 (1976) = *C. controversus* (Hampe) Jaeg. = *C. thwaitesii*.
- stramineus* (Mitt.) Jaeg., *Ber. S. Gall. Naturw. Ges.* 1877-78:382 (1880).
 T: *Dicranum stramineum* Mitt. *J. Linn. Soc. Bot.* 7: 148 (1864).
 T: Mount Cameroon 9000 ft., *Mann s.n.* (FH, NY).
 CU: *C. chrismarii* (C. Müll.) Mitt. cf. Frahm, *Lindbergia* 8:46 (1982) = *C. nivalis* (Brid.) Brid.
- straminifolius* Bartr., *Contr. U.S. Nat. Herb.* 26(3):63 (1928).
 T: Costa Rica, *Standley 51212* (holotype FH).
 OU: *C. flexuosus* (Hedw.) Brid. cf. Bartr., *Fieldiana Bot.* 25:43 (1949).
 CU: *C. densicoma* (C. Müll.) Par. cf. Allen, *Trop. Bryol.* 1: 82 (1989).
- stricticaulis* (C. Müll.) Par., *Ind. Bryol. Suppl.* 97 (1900).
 B: *Dicranum stricticaule* C. Müll., *Bull. Herb. Boiss.* 6:38. 1898.
 T: Brazil, Serra do Itatiaia, *Ule 1795* (holotype destroyed at B; lectotype, H-BR, isotype S).
 CU: *C. aemulans* cf. Frahm, *Revue Bryol. Lich.* 45:135 (1979).
- strictifolius* Broth., *Act. Soc. Sc. Fenn.* 19(5):9 (1891).
 T: Brazil Minas Gerais: Caraca, *Waino s.n.* (holotype H-BR).
 CU: *C. arctocarpus* (Hornsch.) Mitt. fo. *strictifolius* (Broth.) J.-P. Frahm, *Revue Bryol. Lich.* 45:138 (1979).
- strictisetus* (C. Müll.) Broth., *Nat. Pfl.* 1(3):334 (1901).
 B: *Dicranum strictisetum* C. Müll., *Hedwigia* 39: 253 (1900).
 T: Brazil, Minas Gerais, Caraca, *Ule 1357* (holotype destroyed at B; lectotype H-BR).
 CU: *Campylopus filifolius* (Hornsch.) Mitt. var. *humilis* (Mont.) J.-P. Frahm cf. Frahm, *Revue Bryol. Lich.* 45:146 (1979) = *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm var. *humilis* (Mont.) J.-P. Frahm.
- strictissimus* C. Müll., *Gen. Musc. Fr.* 273 (1900) nom. nud.
 CU: *C. appressifolius* Mitt. cf. Dixon, *New Zealand Inst. Bull.* 3(3):89 (1923) = *C. clavatus* (R. Brown) Wils. cf. Sainsb., *Trans. New Zealand Inst.* 59:506 (1928).
- strictulus* (C. Müll.) Robinson, *The Bryologist* 70:20 (1967).
 B: *Dicranum strictulum* C. Müll., *Linnaea* 38: 587 (1874).
 T: Mexico, Rio de Orizaba, *F. Müll. s.n.* (not seen).
 OU: *Atractylocarpus strictulus* (C. Müll.) J.-P. Frahm, *Journ. Hattori Bot. Lab.* 44:484 (1978).
 CU: *A. longisetus* (Hook.) Bartr. cf. Padberg & Frahm, *Cryptogamie Bryol. Lich.* 6:326 (1985).
- strictus* C. Müll., *Linnaea* 19:207 (1846).
 T: Colombia, *Moritz s.n.* (BM).
 CU: *C. pilifer* Brid. cf. Frahm, *Bryol. Beitr.* 7: 73 (1987).
- strictus* Schimp. ex Besch., *Mem. Soc. Sc. Nat. Cherbourg* 16:167 (1872) hom. illeg.
 T: as in *C. strictus* C. Müll.
 OU: *C. introflexus* (Hedw.) Brid. cf. Williams, *N. Am. Fl.* 15(2):144 (1913).
 CU: *C. pilifer* Brid.
- strictus* Tayl. in Hook. f., *Fl. Nov. Zel.* 2:68 (1854) nom. nud.
 OU: *C. xanthophyllus* Mont. cf. Hooker f. l.c.
 CU: *C. introflexus* (Hedw.) Brid. cf. Mitten, *J. Linn. Soc. Bot.* 12:84 (1869).
- stygius* Schimp. in C. Müll., *Gen. Musc. Fr.* 270 (1900) nom. nud.
- subambiguus* Thér., *Rec. Publ. Soc. Havraise Etud. Div.* 1925:127 (1926).
 T: Madagascar, Mt. Tsarantanana 1200 m,

- Perrier de la Bathie s.n.* (holotype PC).
CU: *C. nanophyllus* C. Müll. ex Broth. cf. Frahm, Bryoph. Bibl. 31:122 (1985).
- subannotinus* Thér. & P. Varde, Rev. Bryol. Lich. 11:48 (1939).
T: Bolivia, Comarapa, Laguna Verde, *Herzog 4301* (holotype PC; isotype JE).
CU: *C. multicapsularis* cf. Frahm, Journ. Hattori Bot. Lab. 48:209 (1980) = *C. nivalis* (Brid.) Brid. var. *multicapsularis* (C. Müll.) J.-P. Frahm.
- subappressifolius* Broth. & Geh. in Rodw., Pap. Proc. R. Soc. Tasmania 1912:97 (1913).
T: Tasmania, Jones Track 700 ft., *Moore 59* (lectotype H-BR).
CU: *C. flavonigrinus* cf. Catcheside & Frahm, J. Bryol. 13:365 (1985).
- subarctocarpus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:496 (1880).
B: *Dicranum subarctocarpum* Hampe, Vidensk. Medd. Naturh. For. Kjöbenhavn. ser. 3, 9-10: 255 (1878). T: Brazil. Rio de Janeiro, Rio Preto, *Glaziou 9078* (lectotype, BM; isolectotypes H-BR, NY).
CU: *C. filifolius* (Hornsch.) Mitt. var. *humilis* (Mont.) J.-P. Frahm cf. Frahm, Revue Bryol. Lich. 45:146 (1979) = *Bryohumbertia filifolia* var. *humilis*.
- subarenicola* C. Müll. ex Broth., Bih. K. Svensk. Vet. Ak. Foerh. 21 Afd. 3(3):7 (1895).
T: Brazil, Santos, *Mosén 94* (holotype destroyed at B; lectotype H-BR).
CU: *C. trachylepharon* cf. Frahm, Revue Bryol. Lich. 45:164 (1979).
- subareodictyon* Broth. in Skotts., Nat. Hist. Juan Fernandez 2(3):415 (1924).
CU: *C. blindioides* Broth. in Skotts. cf. Robinson, Smiths. Contr. Bot. 27:26 (1975) = *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 88 (1987).
- subbartramiaceus* C. Müll. in Geh., Rev. Bryol. 5:69 (1878).
M: Cape Town, *Rehmann 55* (lectotypus L, isolectotypes NY, PC).
OU: *C. leucobasis* Par. var. *bartramiaceus* (C. Müll.) Par., *C. introflexus* (Hedw.) Brid. cf. Sim, Trans. R. Soc. S. Afr. 15:171 (1926).
CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:143 (1985).
- subbicolor Geh. & Broth. in C. Müll., Gen. Musc. Fr. 275 (1900) nom. nud.
CU: *C. bicolor* cf. herb. mat. in NSW.
- subbrachymitrius C. Müll., Hedwigia 38 Beibl.:57 (1899) nom. nud.
M: Brazil, *Ule 289, 433, 636* (H-BR).
CU: *C. brachymitrius* = *C. occultus*.
- subbrachyphyllus Par., Ind. Bryol. 261 (1894) nom. nud.
M: Cameroun, Mt. Rumpi, 1800 m, *Dusén s.n.* (BR).
CU: *C. nanophyllus* C. Müll. ex Broth. cf. Frahm, Brol. Beitr. 7: 90 (1987)..
- subcapillatus Watts. & Whitel., Proc. Linn. Soc. N.S. Wales Suppl. 27:45 (1902) nom. nud.
- subcaudatus* Herz., Hedwigia 66:343 (1926).
T: Sumatra, Sibaganding, Tobasee, *Heusser s.n.* (holotype JE, isotype H-BR).
OU: ? *Campylopus walkeri* cf. Frahm, J. Bryol. 13:185 (1984); ? *Bryohumbertia walkeri* (Mitt.) J.-P. Frahm.
CU: *Bryohumbertia subcomosa* (Dix.) J.-P. Frahm, Trop. Bryol. 1:9 (1989).
- subchlorophyllosus* C. Müll. ex Rabenh., Bryoth. Eur. 28 nr. 1362 (1884).
T: Cape, Somerset-East, Boschberg, *MacOwan s.n.* (BM, L).
CU: *Sphaerothecium subchlorophyllosum* (C. Müll. ex Rabenh.) J.-P. Frahm.
- subcinereus* Stirt., Ann. Scott. Nat. Hist. 8:105 (1899).
CU: *C. flexuosus* (Hedw.) Brid. cf. Dixon, Stud. Handb. Brit. Moss. ed 3:95 (1924).
- subclavatus Kindb., Enum. Bryin. Exot. 89 (1889) nom. nud.
CU: *C. introflexus* cf. Sim, Trans. R. Soc. S. Afr. 15:171 (1926).
- subcomatus* (Ren. & Card.) Thér. Bull. Soc. R. Bot. Belg. 35 (1): 302 (1897).
T: Madagascar, Andevorante, *Perrot s.n.* (holotype PC).
CU: *C. trachylepharon* (C. Müll.) Mitt. ssp. *comatus* (Ren. & Card.) J.-P. Frahm, Bryoph. Bibl. 31:187 (1985).
- subcomosus* Dix., J. Linn. Soc. Bot. 45:498 (1922).
T: New Guinea, Port Moresby Distr., Mt. Darigolo, *Clark 1* (holotype BM).
OU: *Bryohumbertia walkeri* (Mitt.) J.-P. Frahm cf. Frahm, Bryol. Beitr. 7: 74, 1987, *Campylopus comosus* cf. Eddy, Malesian

- Mosses vol. 1 (1988).
 CU: *Bryohumbertia subcomosa* (Dix.) J.-P. Frahm, Trop. Bryol. 1:9 (1989).
- subconcolor* (Hampe) Mitt., J. Linn. Soc. Bot. 12: 86 (1869).
 B: *Dicranum subconcolor* Hampe, Linnaea 32: 138 (1863).
 T: Colombia, Andes Bogotenses, La Penna, „in sylvis ad latera Barrancas 2900 m“, *Lindig 213b* (isotype FH).
 CU: *C. leucognodes* (C. Müll.) Par. cf. Florschütz-de Waard & Worrell-Schets, Proc. Kon. Nederl. Akad. Wetensch. ser C vol. 83 (1):42 (1980) = *C. areodictyon* (C. Müll.) Mitt. cf. Frahm, Bryol. Beitr. 7: 75 (1987).
- subcubitus* Williams, Bull. New York Bot. Garden 3(9):111 (1903).
 T: Bolivia, lower Sorata River, *Williams 1749* (holotype NY; isotypes FH JE, H-BR).
 CU: *C. arctocarpus* ssp. *caldensis* cf. Frahm, Nova Hedwigia 31:431 (1979).
- subcuspidatus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71: 441 (1872).
 B: *Dicranum subcuspidatum* Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjobenhavn 1870: 273.
 T: Brazil, Rio de Janeiro, Tijuca, *Glaziou 7096* (holotype BM; isotypes NY,PC).
- subcuspidatus* (Hampe) Jaeg. var. *damazii* (Broth.) J.P.Frahm, Bryol. Beitr. 7: 75 (1987).
 B: *C. damazii* Broth.
- subericoides* Williams, Bull. New York Bot. Garden 8:336 (1914).
 T: Philippines, Mt. Santo Tomas, leg. ? 1857 (NY).
 CU: *C. austro-subulatus* Broth. & Geh. cf. Frahm, Bryol. Beitr. 7: 75 (1987).
- suberythrocaulon* Broth. in Mildbr., Deutsch. Zentral Afr. Exp. 2:141 (1910).
 T: Bukoba, Totensinsel im Viktoria-See, *Mildbraed 38* (B).
 CU: *C. hensii* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:87 (1985).
- subexasperatus* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:384 (1880).
 B: *Dicranum subexasperatum* C. Müll., Linnaea 37: 169 (1872).
 CU: *C. umbellatus* (Arn.) Par. cf. Bartr., Philip. J. Sc. 68:44 (1939).
 OU: *Thysanomitrion subexasperatum* (C. Müll.) Broth., Nat. Pfl. ed. 2,10: 189 (1924); *C. richardii* Brid. cf. Dixon, J. Bot. 60:287 (1922).
- subfalcatatus* (Hornsch.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:442 (1872). (*)
- subfimbriatus* Thér., Rev. Bryol. Lich. 11:44 (1939).
 T: Bolivia, Illampu, Troll 69 (lectotype, PC).
 CU: *C. chrismarii* (C. Müll.) Mitt. cf. Frahm, J. Hattori Bot. Lab. 48:209 (1980) = *C. nivalis* (Brid.) Brid.
- subflexuosus* Par., Ind. Bryol. 262 (1894) nom. nud., nom. nov. pro *C. abyssinicus* Schimp. nom. nud.
 CU: *C. fragilis* (Brid.) B.S.G. cf. Frahm, Bryoph. Bibl. 31:187 (1985).
- subfragilis* Ren. & Card., Bull. Soc. R. Bot. Belg. 34(2):59 (1896).
 CU: *C. fragilis* (Brid.) B.S.G. cf. Frahm, Bryol. Beitr. 7: 95 (1987).
- subfulvus* Thér., Rev. Bryol. Lich. 11:45 (1939).
 T: Bolivia, Yungas of La Paz, *Troll 38a* (holotype, PC).
 CU: *C. luteus* cf. Frahm, Bryol. Beitr. 7: 75 (1987).
- subgiganteus* Broth., Bull. Soc. Bot. Ital. 1904:15 (1904) nom. nud.
- subgracilis* Ren. & Card. ex Gang., Bull. Soc. Bot. Bengal. 14:26 (1960).
 T: „Sikkim, Gollan 3222“.
 OU: *C. zollingerianus* Mitt. cf. Frahm, Bryol. Beitr. 7: 75 (1991).
 CU: *C. fragilis* (Brid.) B.S.G. ssp. *goughii* (Mitt.) J.-P. Frahm, Trop. Bryol. 4: 61, 1991.
- subgriseus* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:384 (1880).
 B: *Dicranum subgriseum* Hampe, Vid. Medd. Naturh. For. Kjoebenh. ser. 3,4: 47 (1872).
 T: Brazil, Petropolis, *Glaziou 4543* (isotypes H-BR,NY, PC).
 CU: *C. griseus* cf. Frahm, Revue Bryol. Lich. 42:606 (1976).
- subincacorrallis* Thér., Rev. Bryol. Lich. 11:44 (1939).
 T: Bolivia, Tablas 3400 m, *Herzog 2799* (isotype B).
 CU: *C. longisubulatus* cf. Frahm, Nova Hedwigia 39:159 (1984) = *C. anderssonii* (C. Müll.) Jaeg.
- subincrassatus* (Hampe) Jaeg., Ber. S. Gall.

- Naturw. Ges. 1877-78:384 (1880).
 B: *Dicranum subincrassatum* Hampe, Vid. Medd. Naturh. Foer. Kjoebenh. ser. 3,4:47 (1872).
 T: „Brasilia australis“, *Glaziou 4507* (isotype H-BR).
 CU: *C. aemulans* cf. Frahm, Revue Bryol. Lich. 45:135 (1979).
- subintroflexus* Kindb. Rev. Bryol. 25:91 (1898).
 T: Azoren, S. Miguel, *Machado s.n.* (S).
 CU: *C. polytrichoides* De Not. cf. Frahm, Revue Bryol. Lich. 41:331 (1975) = *C. pilifer* Brid.
- subjugorum* Broth., Bot. Jahrb. 49:174 (1912).
 T: Bolivia, Cordillera Real, *Knoche 60a* (holotype H-BR)
- subleptodrepanium* Broth. & Thér., Bull. Mus. Hist. Nat. Paris 18:476 (1912).
 T: Cote d'Ivoire, *Chevalier s.n.* (BM).
 CU: *C. nivalis* cf. descr. in Bizot & Kilbertus, Revue Bryol. Lich. 45:81-85 (1979).
- subleucogaster* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:381 (1880).
 B: *Dicranum subleucogaster* C. Müll., Bull. Torrey Bot. Club 5: 49 (1879).
 T: Alabama, Mobile, *Mohr 1868* (holotype destroyed at B; lectotype NY).
 CU: *C. surinamensis* cf. Frahm, Bryologist 83:581 (1980).
- subluteus* (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:417 (1872).
 B: *Dicranum subluteum* Mitt., Kew J. Bot. 8: 353 (1856).
 T: Birma, Moulmein, *Rev. Parish* (BM).
- subnanus* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:415 (1872).
 B: *Dicranum subnanum* C. Müll., Bot. Zeit. 17: 190 (1859).
 OU: *Microcampylopus subnanus* (C. Müll.) Fleisch.
 CU: *Microcampylopus khasianus* (Griff.) Giese & J.-P. Frahm cf. Giese & J.-P. Frahm, *Lindbergia* 11: 119 (1985).
- subnitens* Kaal., Nyt Mag. Naturvid. 50: 100 (1912).
- suboblongus* Herz., Beih. Bot. Centralbl. 61B:585 (1942).
 T: Ecuador, without locality, *Espinoza 29* (holotype JE).
 CU: *C. chrismarii* var. *suboblongus* (Herz.) J.-P. Frahm, Journ. Hattori Bot. Lab. 48:209 (1980) = *C. nivalis* (Brid.) Brid.
- subobrutus* Thér. & P. Varde, Rev. Bryol. n. ser. 4:66 (1931).
 T: Gabun, Issele, *Le Testu 3882* (holotype PC).
 CU: *C. obrutus* cf. Frahm, *Nova Hedwigia* 39:595 (1984).
- subpenicillatus* (C. Müll.) Broth., Nat. Pfl. 1(3):333 (1901).
 B: *Dicranum subpenicillatum* C. Müll., *Hedwigia* 39: 257 (1900).
 T: Brazil, Sa. Catarina, Blumenau, *Ule s. n.* (holotype destroyed at B; isotype, H-BR).
 CU: *C. lamellinervis* cf. Frahm, Rev. Bryol. Lich. 45:154 (1979).
- subperichaetialis* Biz. & Kilb. in Biz., Rev. Bryol. Lich. 40:113 (1974) nom. invalid.
 T: Tanzania, Bondwa Peak 1950-2100 m, *Pocs & Gibbon 6052* (B, PC).
 OU: *C. subperichaetialis* Biz. & Kilb. ex Pocs, *Folia Hist. Nat. Mus. Matr.* 4:28 (1977).
 CU: *C. incacorrallis* Herz. cf. Frahm, *Lindbergia* 8(1):48 (1982) = *C. flexuosus* (Hedw.) Brid. ssp. *incacorrallis* (Herz.) J.-P. Frahm.
- subpolyanthus* Par., Ind. Bryol. 262 (1894) nom. nud.
- subproliferus* C. Müll. in Ren. & Card., Bull. Soc. R. Bot. Belg. 31(1):149 (1893).
 OU: *C. introflexus* (Hedw.) Brid. cf. Crum & Steere, *Sc. Surv. Portorico* 7:435 (1957).
 CU: *C. pilifer* Brid.
- subpulvinatus* P. Varde & Thér., Bull. Soc. Bot. France 87:353 (1940).
 T: massif du Ruwenzori, Ituri 4000-4400 m, *Humbert 7756* (PC).
 CU: *C. smaragdinus* cf. Frahm, *Bryoph. Bibl.* 31:177 (1985).
- subpusillus* Par., Ind. Bryol. Suppl. 98 (1900).
 OU: *Microcampylopus nanus* (C. Müll.) Par. cf. Dixon, *Trans. R. Soc. S. Afr.* 8:187 (1920).
 CU: *Dicranella subsubulata* cf. Magill, *Fl. S. Afr. Bryoph.* 1(1):121 (1981).
- subreconditus* (Geh. & Hampe) Kindb., Enum. Bryin. Exot. 89 (1889).
 B: *Dicranum subreconditum* Geh. & Hampe, *Flora* 64: 343 (1881).
 CU: *C. erythrodontius* cf. Frahm, *Revue Bryol. Lich.* 45:145 (1979) = *C. pyriformis*

- (Schultz) Brid.
subsecundus Lindb. in Aongstr., Oefv. K. Vet. Ak. Foerh. 33:5 (1876) nom. nud.
substramineus Broth. in Mildbr., Deutsch. Zentral Afr. Exp. 2:139 (1910).
 T: Africa occ, Karisimbi 4000 m, *Mildbraed 2088* (B).
 CU: *C. stramineus* (Mitt.) Jaeg. cf. P. Varde, Bull. Mus. Hist. Nat. Paris ser.2,14:363 (1943) = *C. nivalis* (Brid.) Brid.
substrictus Hampe in Fleisch., Musci Fl. Buitenzorg 1:87 (1904) nom. nud.
 CU: *Dicranodontium nitidum* (Dozy & Molk.) Fleisch. cf. Fleischer l.c.
substygius C. Müll. in Kindb., Enum. M. Exot. 9 (1888) nom. nud.
subtenuifolius Hampe in C. Müll., Gen. Musc. Fr. 274 (1900) nom. nud.
subtorquatus C. Müll., Rev. Bryol. 3:3 (1876) nom. nud.
 CU: *C. woolsii* (C. Müll.) Par. var. *cylindrica* (C. Müll.) Par. cf. Par., Ind. Bryol. ed.2,1:334 (1904) = *C. pyriformis*.
subtrachylepharus C. Müll., Gen. Musc. Fr. 270 (1900). (*)
subtricolor Lor., Moosstud. 159 (1864).
 T: India Orientalis no. 6 (M).
 CU: *C. aureus* cf. Frahm, Journ. Bryol. 13:165 (1984) = *C. schmidii*.
subturfaceous Card., Rev. Bryol. 37:119 (1910).
 T: Mexico, Chiapas, San Cristobal, *Münch s. n.* (holotype PC).
 CU: *C. fragilis* cf. Frahm, Bryologist 80:120 (1977).
subulatus Schimp. in Rabenh., Bryoth. Eur. 9:n.451 (1861).
 T: Italien: um Gratsch und Algund bei Meran (Tirol), *Milde s.n.* (lectotype S).
subulatus ssp. *schimperi* (Milde) Dix., Stud. Handb. Brit. Moss. 91 (1896).
 B: *Campylopus schimperi* Milde
 CU: *C. schimperi* Milde cf. Frahm & Vitt, Brittonia 30:365-373 (1978).
subulifolius Thwait. & Mitt., J. Linn. Soc. Bot. 13:297 (1873)
 CU: *C. controversus* (Hampe) Jaeg. cf. Frahm, Hikobia 11 (1994) = *C. thwaitesii* cf. Frahm, Crypt. Bryol. Lichèmol. 19: 32, 1998.
subulifolius Schimp. in C. Müll., Gen. Musc. Fr. 269 (1900) nom. nud.
subvirescens Ren. & Card., Bull. Soc. R. Bot. Belg. 33(2):109 (1895).
 T: Madagascar, Andevorante, *Camboué s.n.* (PC).
 CU: *C. arctocarpus* (Hornsch.) Mitt. ssp. *madecassus* (Besch.) J.-P.Frahm cf. Frahm, Bryoph. Bibl. 31:16 (1985).
sudabyanus Rehm. in Dix. & Ggepp., Misc. Inf. Kew 1923:197 (1923) nom. nud.
 CU: *C. robillardae* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:199 (1985).
sudeticus (Funck) Fuernr., Flora 12:595 (1829).
 CU: *Racomitrium heterostichum* (Hedw.) Brid. ssp. *sudeticum* (Funck) Dix.
sulfureo-flavus (C. Müll.) Par., Ind. Bryol. Suppl. 98 (1900).
 CU: *C. apressifolius* Mitt. cf. Dixon, New Zealand Inst. Bull. 3(3):89 (1923) = *C. clavatus* (R.Brown) Wils. cf. Sainsb., Trans. New Zealand Inst. 59(3):506 (1928).
sulfureo-nigritus Dus., Ark. Bot. 4(13):6 (1905).
 CU: *C. acuminatus* Mitt. cf. Frahm, Bryol. Beitr. 7: 78 (1987).
sulfureus Besch., Bull. Soc. Bot. France 45:55 (1898).
 T: Tahiti, *Nadeuad 207* (isotype BM).
 CU: *C. laxitextus* Lac. cf. Frahm, Bryol. Beitr. 7: 78 (1987).
surinamensis C. Müll., Linnaea 21: 186 (1848).
 T: Suriname, near Paramaibo, *Kegel 516* (holotype destroyed at B; lectotype H-BR; isolectotypes GOET, PC)
surinamensis var. *angustiretis* (Aust.) J.-P.Frahm, Bryologist 83:582 (1980).
 CU: *C. angustiretis* Aust. cf. Frahm, Nova Hedwigia 41:276 (1985).
symonsii Sim Trans. R. Soc. S. Afr. 15:167 (1926).
 T: S. Africa, Natal, Giant s Castle, top, 8000 ft., *Symons (1912) s.n.*, hb. Sim 9843 (lectotypus L).
 CU: *C. aureonitens* cf. Frahm, Bryoph. Bibl. 31: 24 (1985).
 OU: *C. bicolor* var. *ericeticola* cf. Frahm, Cryptogamie Bryol. Lich. 6:206 (1985).
symplectus Stirt., Scott. Natural. 11:234 (1886).
 CU: *C. schwarzii* Schimp. cf. Dixon, J. Bot. 61:17 (1923).

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- tablasensis* Thér., Rev. Bryol. Lich. 11: 152 (1939).
T: Bolivia, Rio Tablas, *Herzog 4534a* (holotype PC; isotype JE).
CU: *C. arctocarpus* ssp. *caldensis* cf. Frahm, J. Bryol. 11:215 (1980).
- tabularis* Thér. in Broth., Nat. Pfl. ed. 2,10:1888 (1924) nom. nud.
- taiwanensis* Sak., Bot. Mag. Tokyo 55:206 (1941). (*)
- tallulensis* Sullivant & Lesquereux, Musci bor.-amer. 17 (1865).
T: U.S.A. Georgia: Tallulah Falls, *Small s.n.* (NY).
OU: *C. flexuosus* (Hedw.) Brid. cf. Bartram, Fieldiana Bot. 45: 43 (1949).
- tallulensis* var. *subleucogaster* (C. Müll.) Grout, Moss Fl. N. Am. 1:92 (1937).
CU: *C. surinamensis* C. Müll. cf. Frahm, The Bryologist 83:581 (1980).
OU: *C. flexuosus* cf. Bartram l.c.
- tasmanicus* Par., Ind. Bryol. Suppl. 98 (1900)
CU: *C. introflexus* (Hedw.) Brid. cf. Dixon, New Zealand Inst. Bull. 3(3):89 (1923).
- taylorii* Dix., J. Bot. 76:224 (1938).
T: Kenia, in burnt thicket 10.500 ft., Kinangop, Aberdare Mtns. *Taylor 1630* (holotype BM).
CU: *C. nivalis* (Brid.) Brid. cf. Frahm, Bryoph. Bibl. 31:124 (1985).
- tenax* (C. Müll.) Par., Ind. Bryol. Suppl. 98 (1900).
B: *Dicranum tenax* C. Müll. Hedwigia 38: 83 (1899).
T: Cape, ad Blanco, *Rehmann 54* (PC,G).
CU: *C. stenopelma* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:174 (1926) = *C. thwaitesii*.
- tenellus* Rehm. in Dix. & Gepp, Bull. Misc. Inf. Kew 1923:196 (1923) nom. nud.
CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:199 (1985).
- tener* Broth., Rev. Bryol. 47:2 (1920).
T: Ecuador prov. Azuay, Rio Gualaquiza, *Allioni s. n.* (lectotypus H-BR).
CU: *C. trivialis* cf. Frahm, Nova Hedwigia 39:163 (1984).
- tenuinervis* Fleisch., Musci Fl. Buitenzorg 1:120 (1920).
T: Indonesia Java, Gedeh 2400 m, *Fleischer 107* (isotype PC).
CU: *C. involutus* cf. Frahm, Nova Hedwigia 39:593 (1984) = *C. ericoides* (Griff.) Jaeg. tenuis Wils., Kew J. Bot. 9:296 (1857) nom. nud.
CU: *Campylopodium khasianum* (Griff.) Par. cf. Mitt., J. Linn. Soc. Bot. Suppl. 1:8 (1859).
- tenuissimus* Sull., Proc. Am. Ac. Arts Sc. 5:279 (1861).
T: Cuba, *Wright s.n.* (isotype GOET).
OU: *C. porphyreodictyon* (C. Müll.) Mitt. cf. Mitten, J. Linn. Soc. Bot. 12:75 (1869).
CU: *Campylopus filifolius* (Hornsch.) Mitt. cf. Frahm, Bryoph. Bibl. 5:98 (1975) = *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm
- tequendamensis* Thér., Rev. Bryol. Lich. 11:58 (1939).
T: Colombia, Tequendama, *Troll 2036* (holotype PC).
CU: *C. tallulensis* cf. Frahm, Nova Hedwigia 5:528 (1981).
- terebrifolius* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:385 (1880). (*)
- thwaitesii* (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:417 (1872).
B: *Dicranum thwaitesii* Mitt., J. Linn. Soc. Bot. Suppl. 1: 19 (1859).
T: Ceylon, *Thwaites s.n.* (holotype NY).
- thysanomitrioides* Thér., Rev. Bryol. Lich. 11:51 (1939).
T: Bolivia, Cerros de Malaga, *Herzog 4400* (holotype JE; isotype B).
CU: *C. harpophyllus* cf. Frahm, J. Bryol. 11:214 (1980) = *C. edithae* Broth.
- tijucacae* Broth. in Par., Ind. Bryol. Suppl. 98 (1900) nom. nud.
M: Brazil, Rio de Janeiro, „ad rupes prope Tijucacae“, Ule Bryotheca bras. 213 (GOET).
CU: *C. widgrenii* (C. Müll.) Mitt. cf. Frahm, Nova Hedwigia 59: 151 (1994).
OU: *C. erythrodontius* cf. Frahm, Rev. Bryol. Lich. 45:145 (1979).
- tisserantii* P. Varde, Rev. Bryol. Lich. 18: 108 1949
T: Oubangui, station de Boukoko, *Tisserant B 28,124* (PC)
CU: *C. nanophyllus* C. Müll. ex Broth., Bryoph. Bibl. 31:122 (1985).
- tolucensis* Bartr., Rev. Bryol. Lich. 15:21 (1946).

- T: Mexico, Nevado de Toluca, *Bartram 4114* (holotype FH).
 OU: *C. chrismarii* (C. Müll.) Mitt. var. *tolucensis* (Bartr.) J.-P.Frahm, Bryologist 80:120 (1977).
 CU: *C. nivalis* (Brid.) Brid. s.str. cf. Frahm, Fl. Neotrop. 54: 137 (1991).
- torfaceus* B.S.G., Bryol. Eur. 1:164 (1847).
 CU: *C. pyriformis* (Schultz) Brid.
- torquatus* Mitt. in Hook.f., Fl. Tasman. 2:173 (1859).
 T: New Zealand, E-Coast and Auckland, *Sinclair (1850) s.n.* (lectotype BM).
 CU: *C. pallidus* Hook.f. & Wils = *C. pyriformis* (Schultz) Brid.
- torrentis* Thér. & P. Varde, Rev. Bryol. Lich. 5: 202 (1933).
 T: Gabun, cascade du Mougoungoulou, *Le Testu s.n.* (holotype PC).
- tortilipilus* J.-P.Frahm, Cryptogamie Bryol. Lich. 2:446 (1981).
 T: Brazil, Piaui, Mc. de Corrente, *Vital 8232* (holotype SP).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Fl. Neotr. 54: 167 (1991).
- tortilisetus* Ule in C. Müll., Bull. Herb. Boiss. 6:34 (1898) nom. nud.
 OU: *C. rufescens* Broth. cf. Par. l.c.
 T: *C. occultus* Mitt. cf. Frahm, Revue Bryol. Lich. 45:156 (1979).
- tortorae* Herz., Beih. Bot. Centralbl. 26(2):52 (1910).
 CU: *Pilopogon* spec. cf. Frahm, Journ. Hattori Bot. Lab. 44:485 (1978).
- tortuosus* (Hampe) Par., Ind. Bryol. Suppl. 98 (1900).
 B: *Dicranum tortuosum* Hampe, Linnaea 25: 361 (1853).
 T: Puerto Rico (not seen).
 CU: *C. lamellinervis* cf. Frahm, Bryoph. Bibl. 5:124 (1975).
- trachyblepharon* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12: 80 (1869).
 B: *Dicranum trachyblepharon* C. Müll., Syn. Musc. 1: 389 (1848).
 T: Brazil, *Beyrich s.n.* (holotype destroyed at B; lectotype NY).
- trachyblepharon* ssp. *comatus* (Ren. & Card.) Frahm, Bryophytorum Bibliotheca 31: 187 (1985).
 B: *Campylopus comatus* Ren. & Card.
 T: St. Marie de Madagascar, *Rev. Arbogast s.n.* (isotype G, holotype PC).
- trachynotus* (C. Müll.) Par., Ind. Bryol. Suppl. 98 (1900) .
 B: *Dicranum trachynotum* C. Müll., Bull. Herb. Boiss. 6: 33 (1898).
 HS: *trachynotus* C. Müll., Gen. Musc. Fr. 276 (1900) nom. nud.
 CU: *C. beyrichianus* cf. Frahm, Revue Bryol. Lich. 45:140 (1979) = *C. pyriformis* (Schultz) Brid. cf. Frahm, Fl. Neotrop. 54: 145 (1991).
- trachythecius* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:423 (1872).
 B: *Dicranum trachythecium* (C. Müll., Linnaea 36: 33 (1869).
 T: Ceylon, Ounduloay, *Nietner s.n.* (H-BR; FH).
 CU: *C. comosus* cf. Frahm, J. Bryol. 13:166 (1984).
- trailii* R. Brown ter., Trans. New Zealand Inst. 29:468 (1897).
 CU: *C. clavatus* (R.Brown) Wils. cf. Dixon, New Zealand Inst. Bull. 3(3):88 (1923).
- transvaaliense* Herz. et Dix. in Sim, Trans. R. Soc. Afr. 15:166 (1926).
 CU: *C. flaccidus* Ren. & Card. cf. Frahm, Bryoph. Bibl. 31:71 (1985).
- transvaaliensis* Rehm. in Par. Ind. Bryol. 254 (1894).
 T: Transvaal, in monte Kwatlamba, *MacLea s.n.* (L).
 HS: *C. transvaaliensis* Rehm. in Kindb., Enum. Bryin. Exot.89 (1889) nom. nud.
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:145 (1985).
 OU: *C. stenopelma* (C. Müll.) Par. cf. Sim, Trans. R. Soc. S. Afr. 15:174 (1926).
- trichodes* Lor., Moosstud. 159 (1864).
 T: Cape, Table Mountain, *Ecklon s.n.* (H-BR).
 CU: *C. pilifer* Brid. cf. Frahm, Revue Bryol. Lich. 42:607 (1976).
- trichophorus* Hampe ex Herz., Biblioth. Bot. 87:20 (1916).
 T: Ecuador Prov. Loja, *Krause s.n.* (not seen).
 CU: *C. asperifolius* cf. Frahm, Lindbergia 7:29 (1981).
- trichophylloides* Thér. in Herzog, Rep. Spec. Novi Regni Veget. 95 (1938).
 T: Peru, Cordillera Blanca, *Kinzl s. n.*

- (holotype JE; isotype, B).
tricolor (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:437 (1872).
 B: *Dicranum tricolor* C. Müll., Bot. Zeit. 11: 36 (1853).
 CU: *C. pilifer* Brid. cf. Frahm, J. Bryol. 13:179 (1984).
- trivialis* C. Müll. ex Britton, Bull. Torrey Bot. Club 23: 476 (1896).
 T: Bolivia, Mapiro, *Rusby s. n.* (holotype, NY).
trollii Thér., Rev. Bryol. Lich. 11:46 (1939).
 T: Bolivia, Yungas von La Paz, *Troll 111* (holotype PC; isotype, B).
 CU: *C. pauper* (Hampe) Mitt. var. *lamprodictyon* (Hampe) J.-P. Frahm cf. Frahm, Fl. Neotr. 54: 150 (1987).
- truncatus* C. Müll., Linnaea 18:685 (1845).
 CU: *C. introflexus* (Hedw.) Brid. cf. Mitten, J. Linn. Soc. 12:84 (1869).
- tsaratananae* Thér., Rec. Publ. Soc. havraise Etud. Div. 1925:128 (1926).
 T: Madagascar, Mt. Tsaratanana alt. 1200-2400 m, *Perrier de la Bathie s.n.* (holotype PC, isotype G). CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Bryoph. Bibl. 31:76 (1985).
- tubulosus* Bartr., Bishop Mis. Occ. Pap. 16:324 (1942).
 T: Hawaii, Kauai, summit of Waialeale, *Skottsberg et al. 4033* (holotype FH).
 OU: *C. skottsbergii* cf. Frahm, Revue Bryol. Lich. 44:51 (1978).
 CU: *C. schmidii* (C. Müll.) Jaeg. ssp. *hemitrichius* (C. Müll.) J.-P. Frahm, The Bryologist 94: 64, 1991.
- tuerckheimii* (C. Müll.) Par., Ind. Bryol. Suppl. 98 (1900).
 B: *Dicranella tuerckheimii* C. Müll., Bull. Herb. Boissier 5: 186 (1897).
 T: Guatemala, Alta Vera Paz: Coban, *Tuerckheim 6652* (NY BM).
 OU: *Campylopodium pusillum* (Schimp.) Williams cf. Williams, N. Am. Fl. 15:94 (1913), *Microcampylopus curvisetus* (Hampe) Giese & J.-P. Frahm cf. Giese & Frahm, Lindbergia,
 CU: *Campylopus zygodontocarpus* (C. Müll.) Par. cf. Allen, Trop. Bryol. 1: 92 (1989).
- tullgrenii* Ren. & Card., Bull. Herb. Boiss. ser. 2,2:435 (1902).
 T: Teneriffe, Guarranato, *Tullgren 101* (PC).
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:145 (1985).
- tunariensis* Herz., Bibl. Bot. 87:19 (1916).
 T: Bolivia, Tunarisee, *Herzog 3430* (lectotype JE; isolectotypes B, H-BR).
 CU: *C. fragilis* (Brid.) B.S.G. cf. Frahm, Nova Hedwigia 39:158 (1984).
- turficola* Broth. in Skottsbr., Nat. Hist. Juan Fernandez 2(3):241 (1924).
 OU: *C. hygrophilus* Broth. cf. Frahm, Nova Hedwigia 34:392 (1981).
 CU: *C. vesticaulis* Mitt. cf. Frahm, Bryol. Beitr. 7: 81 (1987).
- turgidus* Rehm. in Dix. & Gepp, Bull. Misc. Inf. Kew 1923:197 (1923) nom. nud.
 M: Orange Free State, Kadziberg, *Rehmann 57* (PC).
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:199 (1985).

U

- uii* Broth., Oefv. Finsk. Vet. Soc. Foerh. 62A: 3 (1921).
 T: Japan, Kii, *Ui 1103* (holotype H-BR).
 CU: *C. japonicus* Broth. cf. Takaki, J. Hatt. Bot. Lab. 30:240 (1967).
- uleanus* (C. Müll.) Broth., Nat. Pfl. 1(3): 333 (1901).
 B: *Dicranum uleanum* C. Müll., Hedwigia 39: 258 (1900).
 T: Brazil, S. Catarina, Flaggenberg, *Ule 148* (holotype destroyed at B; lectotypus nov. H-BR).
- umbellatus* (Arn.) Par., Ind. Bryol.: 264 (1894).
 B: *Thysanomitrium umbellatum* Arnott, Nouv. Dispos. Meth. Espèces Mousses 34 (1825).
 T: USA, „Ins. Sandwich“ (Hawaii) *Gaudichaud s.n.* (holotype PC).
 OU: *C. richardii* cf. Dixon, J. Bot. 60:287 (1922).
- umbellatus* (Arn.) Par., Ind. Bryol.: 264 (1894) var. *pterotoneuron* (C. Müll.) J.-P. Frahm, Nova Hedwigia 39: 602, 1984.
 B: *Campylopus pterotoneuron* (C. Müll.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:417 (1872), *Dicranum pterotoneuron* C. Müll., Linnaea 36: 34, 1869.
- uncinatus* (Harv.) Dozy & Molk., Bryol. Jav. 1:78 (1858).

- CU: *Dicranodontium uncinatum* (Harv.) Jaeg.
underwoodii Williams N. Amer. Fl. 15(2): 142 (1913).
 T: Jamaica, Summit of Blue Mt. Peak, *Underwood 2539* (holotype NY, isotypes F, H-BR).
 OU: *C. brittonae* (non setaceus cf. Frahm, Cryptogamie 3(1):62, 1982) cf. Frahm, Nova Hedwigia 41:277 (1985).
 CU: *C. shawii* cf. Frahm, J. Bryol. 13:329 (1985).
uruguensis Frahm, Bryoph. Bibl. 5:127 (1975) nom. nov. pro *C. nitidus* Thér. in Felipp. hom. illeg.
 T: Uruguay, Maldonado, *Felippone 1214* (B, H-BR).
 CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 82 (1987).
usambaricus P. Varde, Ark. Bot. ser.2,3:135 (1955).
 T: Tanganyika, Usambara Mt. near Amani 950 m, Hedberg 2037h (holotype PC).
 CU: *C. obrutus* cf. Frahm, Bryol. Beitr. 7:82 (1987).
- V**
valentinii Besch. Ann. Sci. Nat. Bot. ser. 6,9:325 (1880).
 T: Bourbon, *Valentin s.nr.* (holotype PC).
 CU: *C. aureo-nitens* (C. Müll.) Jaeg. cf. Frahm, Bryoph. Bibl. 31:24 (1985).
valerioi Allen, Trop. Bryol. 1:68 (1989) nom. nov. pro *Dicranum costaricense* Bartr., J. Wasj Acad. Sci 19:13 (1929) hom. illeg. pro *Campylopus costaricensis* Bartr., Contr. U.S. Nat. Herb. 26: 62 (1928).
 T: Costa Rica, la Palma 1500m, *Valerio 148* (holotype FH, isotype US).
validinervis (Dix.) B.C. Tan, Willdenowia 18: 510, 1989.
vallis-gratiae Hampe in Breutel, Musci Capenses, nom. invalid.
 OU: *C. leucobasis* (C. Müll.) Par., var. *longescens* (C. Müll.) Par. cf. C. Müll., Hedwigia 38: 19, 1899; *C. echinatus* Sim cf. Sim, Trans. R. Soc. S. Afr. 15: 175, 1926.
 CU: *C. introflexus* (Hedw.) Brid.
vaporarius Bolle, Verh. Bot. Ver. Brandenburg 7:20 (1865) nom. nud.
 OU: *C. introflexus* (Hedw.) Brid. var. *vaporarius* (De Not.) Mönk.
 CU: *C. pilifer* Brid.
variegatus Dix. & Wagn. in Sim, Trans. R. Soc. S. Afr. 15:174 (1926) nom. invalid.
 T: Transvaal, Kaapsche Hoek, *Wager 209* (isotypes PC, L).
 OU: *C. inerangae* (C. Müll.) Par. cf. Sim l.c., *C. inchangae* (C. Müll.) Par. cf. Magill, Fl. S. Afr. Bryoph. 1(1):146 (1981).
 CU: *C. robillardae* Besch. cf. Frahm, Bryol. Beitr. 7: 82, 1987.
ventanus C. Müll., Gen. Musc. Fr. 265 (1900) nom. nud.
 M: Argentinien, Felsen in einem Thale der Sierra Ventana, *Lorentz* (1881) (JE).
ventri-alaris (C. Müll.) Broth., Nat. Pfl. 1(3):334 (1901).
 B: *Dicranum ventri-alaris* C. Müll., Hedwigia 39: 251 (1900).
 T: Brazil, Minas Gerais, *Ule 1347* (holotype destroyed at B; lectotype, H-BR).
 CU: *C. arctocarpus* (Hornsch.) Mitt. cf. Frahm, Revue Bryol. Lich. 45:137 (1979).
ventrialaris Herz. in Broth., Nat. Pfl. ed.2,10:188 (1924) nom. nud.
verdolinii Par. & Ren. („verdillonii“), Rev. Bryol. 29:3 (1902).
 T: Madagascar, vallée de l'Ofika près Anaribe, *Verdillon 12* (holotype PC).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Bryoph. Bibl. 31:76 (1985).
vernieri Duby, Flora 58: 283 (1875).
 T: Tahiti, *Vernier s.n.* (PC).
 OU: *C. obscurus* Aongstr. cf. Besch., Ann. Sc. Nat. ser. 7,20:17 (1895).
 CU: *C. umbellatus* (Arn.) Par. cf. Frahm, Nova Hedwigia 39:601 (1980).
verrucosus Besch., Ann. Sc. Nat. Bot. ser. 5,18:200 (1873).
 T: Nouvelle- Caledonie, Mt. Mie 1000 m, *Balansa 914* (isotypes BM, L).
 CU: *C. introflexus* (Hedw.) Brid. cf. Frahm, Bryol. Beitr. 7: 91 (1987).
verticillatus (Hampe) Kindb., Enum. Bryin. Exot. 89 (1889).
 B: *Dicranum verticillatum* Hampe, Vid. Medd. Naturh. For. Kjöbenhavn. ser. 3, 4: 44 (1872).

- OU: *C. filifolius* (Hornsch.) Mitt. cf. Frahm, Nova Hedwigia 29:247 (1978).
 CU: *Bryohumbertia filifolia* (Hornsch.) J.-P. Frahm.
- vesticaulis* Mitt. in Mell. S. Helena 359 (1875).
 T: Tristan d'Acunha, *Milne s.n.* (holotype NY, isotype B).
- villicaulis* (Hampe) Jaeg., Ber. S. Gall. Naturw. Ges. 1877-78:381 (1880).
 B: *Dicranum villicaule* Hampe, Vidensk. Medd. Naturh. For. Kjoebenh. er. 3,4: 44. 1872.
 T: Brazil, Rio de Janeiro, Glaziou 4680 (isotype, H-BR).
 CU: *C. trachyblepharon* cf. Frahm, Revue Bryol. Lich. 45:165 (1979).
- virescens* Besch., Ann. Sc. Nat. Bot. ser. 6,9:325 (1880).
 T: La Reunion, *Valentin s.n.* (holotype PC).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Bryoph. Bibl. 31:76 (1985).
- virginicus* (Aust.) Lesq. & Jam., Man. Moss. N. Am. 80 (1884).
 CU: *Dicranodontium asperulum* (Mitt.) Broth. cf. Williams, N. Am. Fl. 15:152 (1913).
- viridatulus* C. Müll. ex Broth. Bot. Jahrb. 24:234 (1897).
 T: „Guinea gall. Kouroussa prope pagum Diendien“, *Pobeguin s.n.* (isotype PC, lectotypus nov. L).
 CU: *C. savannarum* (C. Müll.) Mitt. cf. Frahm, Bryoph. Bibl. 31:171 (1985).
- viridatus* (C. Müll.) Broth., Nat. Pfl. 1(3): 333 (1901).
 B: *Dicranum viridatum* C. Müll., Hedwigia 39: 257 (1900).
 T: Brazil, Sao Francisco, Rio Passuca, *Ule 31* (holotype destroyed at B; lectotypus nov. H-BR).
 CU: *C. controversus* (Hampe) Jaeg. cf. Frahm, Hikobia 11 (1994) = *C. thwaitesii*.
- viridicatus* (C. Müll.) Par., Ind. Bryol. Suppl. 99 (1900).
 B: *Dicranum viridicatum* C. Müll., Hedwigia 36: 352, 1897.
 T: Australia, Waterloo Marsches, *Whitelegge 3369*; Northwood, *Whitelegge 21*; Sidney, *Whitelegge s.n.* (syntypes).
 CU: *C. pyriformis* (Schultz) Brid. cf. Catcheside in litt.
- viridis* Sull. & Lesq., Musci Bor. Am. 18 (1856).
 CU: *Dicranum viride*.
- viridulus* Card., Bull. Herb. Boiss. ser. 2,7:715 (1907).
 T: Japan, „Arita, rochers, n. 2439“ (holotype PC).
 CU: =? = *C. umbellatus* (Arn.) Par. cf. Frahm, Revue Bryol. Lich. 42:907 (1976), Takaki, J. Hatt. Bot. Lab. 30:236 (1967) sub *C. richardii*.
- vitzliputzli* Lor., Moosstud. 158 (1864).
 OU: *C. introflexus* (Hedw.) Brid. cf. Williams, N. Am. Fl. 15:144 (1913).
 CU: *C. pilifer* Brid.
- voeltzkowii* Broth. in Voeltzkow, Reise Ostaf. 3:52 (1908).
 T: Madagascar, St. Marie, *Voeltzkow s.n.* (isotype PC).
 OU: *C. cailleae* Ren. & Card. cf. Broth., Nat. Pfl. ed.2,10:187 (1924).
 CU: *C. perpusillus* Mitt. cf. Frahm, Bryoph. Bibl. 31:139 (1985).
- W**
- wabagensis* Bartr., Rev. Bryol. Lich. 30: 187 (1962).
 T: Papua N.G., Western Highlands, along track to Marimuni...10.000 ft. *Robbins 3025* (holotype FH).
 CU: *C. comosus* (Schwaegr.) Bosch & Lac. cf. Frahm et al., Acta Not. Fennica 131:76 (1985).
- walkeri* (Mitt.) Jaeg., Ber. S. Gall. Naturw. Ges. 1870-71:429 (1872).
 B: *Dicranum walkeri* Mitt., J. Linn. Soc. Bot. Suppl. 1: 18, 1859.
 T: Ceylon, *Walker, Thwaites 21* (isosyntypes H-BR).
 OU: *Bryohumbertia walkeri* (Mitt.) J.-P. Frahm et al., Acta Bot. Fennica 131:68 (1985).
 CU: *Bryohumbertia subcomosa* (Dix.) J.-P. Frahm, Trop. Bryol. 1: 9 (1989).
- walkeri* R. Brown ter., Trans. New Zealand Inst. 29:469 (1897) hom. illeg.
 OU: *C. appressifolius* Mitt. cf. Dixon. New Zealand Inst. Bull. 3(3):89 (1923).
 CU: *C. clavatus* (R. Brown) Wils. cf. Sainsb., Trans. New Zealand Inst. 59(3):506 (1928).
- wallisii* Sauerb. in Jaeg., Ber. S. Gall. Naturw.

- Ges. 1877-78:382 (1880).
 OU: *Dicranum hemitrichius* (C. Müll.) Jaeg. cf. Bartr., Philipp. J. Sc. 68:41 (1939) =?= *C. hemitrichius* (C. Müll.) Jaeg. = *C. schmidii* (C. Müll.) Jaeg. ssp. *hemitrichius* (C. Müll.) J.-P. Frahm, The Bryologist 94: 64, 1991.
- wattsii* Broth., Proc. Linn. Soc. N.S.Wales 43:547 (1918).
 T: Australia, Queensland, *Watts 366* (holotype H-BR).
 CU: *C. flexuosus* (Hedw.) Brid. cf. Frahm, Bryol. Beitr. 7: 84 (1987).
- wawraeanus* Reichdt., Sitzungsber. Ak. Wiss. Wien 75:565 (1877).
 OU: *C. densifolius* Aongstr. cf. Bartram, Bishop Mus. Bull. 101:38 (1933).
 CU: *C. hawaiiicus* (C. Müll.) Jaeg. var. *densifolius* (Aongstr.) J.-P. Frahm cf. Frahm, The Bryologist 94: 62 (1991).
- weberbaueri* Broth., Bot. Jahrb. 56 Beibl. 123:5 (1920).
 T: Type. Peru, Loreto, E of Moyobamba, *Weberbauer 4718* (holotype, H-BR).
 CU: *C. huallagensis* Broth. var. *weberbaueri* (Broth.) J.-P. Frahm, Fl. Neotr. 54: 114 (1991).
- weddelii* Besch., J. de Bot. 5:147 (1891).
 T: Peru, Carabaya: *Weddel s s.n.* (isotype BM).
 CU: *C. asperifolius* Mitt. cf. Frahm, Bryol. Beitr. 7: 84, 1987.
- weisiopsis* (C. Müll.) Par., Ind. Bryol. Suppl. 99 (1900).
 B: *Dicranum w.* C. Müll., Hedwigia 38: 78 (1899).
 T: Cape Town, *Rehmann 61* (lectotype PC).
 OU: *C. lepidophyllus* (C. Müll.) Jaeg. cf. Dixon in Sim, Trans. R. Soc. S. Afr. 15:170 (1926), *C. introflexus* (Hedw.) Brid. cf. Magill, Fl. S. Afr. Bryoph. 1(1):150 (1981).
 CU: *C. pilifer* Brid. cf. Frahm, Bryoph. Bibl. 31:143 (1985).
- wheeleri* (C. Müll.) Hampe ex Par., Ind. Bryol. Suppl. 99 (1900).
 B: *Dicranum wheeleri* Hampe ex C. Müll., Flora 82: 441 (1896).
 T: Hawaii, without locality, *Wheeler s.n.*, *Boswell s.n.* (syntypes, not available).
 OU: *Dicranoloma wheeleri* (C. Müll.) Par. Ind. Bryol. ed. 2,31 (1904).
- whiteleggei* C. Müll. in Geh., Rev. Bryol. 24:67 (1897) nom. nud.
 CU: *Dicranoloma argutum* (Hampe) Par. cf. Dixon, New Zealand Inst. Bull. 3(1):14 (1913).
- wichurae* Broth. in Fleisch., Musci Fl. Buitenzorg 1:110 (1904) nom. nud.
 CU: *C. recurvus* (Mitt.) Jaeg. cf. Fleischer l.c.
- widgrenii* (C. Müll.) Mitt., J. Linn. Soc. Bot. 12: 88 (1869).
 B: *Dicranum widgrenii* C. Müll., Bot. Zeit. 14: 418 (1856).
 T: Brazil, Minas Gerais, Caldas, Widgren s. no. (holotype destroyed at B; lectotype NY; isotypes H-BR, H-SOL).
- wilhelmensis* Bartr. Contr. U.S. Nat. Herb. 37 (1965).
 T: Papua New Guinea, Simbu, east slopes of Mt. Wilhelm, 2740 m. *Brass 30237* (holotype FH).
 CU: *C. comosus* cf. Frahm et al., Acta Bot. Fenn. 131:76 (1985).
- woolsii* (C. Müll.) Par., Ind. Bryol. Suppl. 99 (1900).
 B: *Dicranum woolsii* C. Müll., Hedwigia 36: 348 (1897).
 T: Australia, Queensland, Brisbane, *Bailey 5* (holotype B).
 HS: *Campylopus woolsianus* Broth., Nat. Pfl. 1(3): 332 (1901).
 CU: *C. pyriformis* (Schultz) Brid. cf. Frahm, Bryol. Beitr. 7: 94(1987)..
- wurdackii* Robins. The Bryologist 70:319 (1967).
 T: Peru, Amazonas: Rio Ventilla, *Wurdack 1524* (holotype US).
 CU: *C. weberbaueri* cf. Frahm, J. Hattori Bot. Lab. 44:485 (1978) = *C. huallagensis* Broth. var. *weberbaueri* (Broth.) J.-P. Frahm, Fl. Neotr. 54: 114 (1991).

X

- xanthophyllus* Mont., Ann. Sc. Nat. Bot. ser. 3,4:111 (1845)
 T: Chili, Vooyage Gay, hb. Montagne (holotype PC).
 OU: *C. introflexus* (Hedw.) Brid. cf. Mitten, J. Linn. Soc. Bot. 12:84 (1869).
 CU: *C. clavatus* cf. Thér., Rev. Bryol. Lich. 7:172 (1935), Frahm, Nova Hedwigia 34:394

(1981).

Y

- yakushimensis* Sak., Bot. Mag. Tokyo 47:332 (1933)
CU: *C. atrovirens* De Not. cf. Frahm, J. Hattori Bot. Laboratory 71: 146, 1992.
- yungarum* Herzog, Beih. Bot. Centralbl. 26(2): 51. 1910.
T: Bolivia, Incacorral 2200 m, *Herzog* 1908 (holotype JE, isotype B).
CU: *C. densicoma* var. *yungarum* (Herz.) J.-P. Frahm, Nova Hedwigia 39:156 (1984).
- yunqueanus* (C. Müll.) Par., Ind. Bryol. Suppl. 99. 1900.
B: *Thysanomitrium yunqueanum* C. Müll., Hedwigia 37: 225. 1898.
T: Puerto Rico, Sierra Luquillo, *Sintenius F* 29 (holotype destroyed at B; lectotype H-BR)
CU: *C. richardii* Brid. cf. Williams, N. Am. Fl. 15:149 (1913).

Z

- zollingerianus* (C. Müll.) Bosch & Lac., Bryol. Jav. 1:77 (1858).
B: *Dicranum zollingerianum* C. Müll., Syn. Musc. 2: 599 (1851).
HS: *C. zollingeri* C. Müll. ex Kindb., Enum. Bryin. Exot. 51 (1888)
T: Insula Zumbawa, ad rupes altitud., 4000', *Zollinger 1184* (holotype L).
CU: *C. fragilis* (Brid.) B.S.G. ssp. *zollingerianus* (C. Müll.) J.-P. Frahm, Trop. Bryol. 4: 61, 1991.
- zonatus* Mol., Ber. Naturh. Ver. Passau 10:53 (1875)
CU: *C. flexuosus* (Hedw.) Brid.
- zygodonticarpus* (C. Müll.) Par., Ind. Bryol. 265 (1894).
B: *Dicranum zygodonticarpum* C. Müll., Linnaea 42: 471 (1879).
T: Venezuela, Tovar, *Fendler 35* (holotype destroyed at B; lectotype NY).
OU: *C. tallulensis* Sull. & Lesq. var. *subleucogaster* (C. Müll.) Grout, Moss Fl. N. Am. 1:92 (1937), *C. flexuosus* (Hedw.) Brid. cf. Bartram, Fieldiana Bot. 25:43 (1949)

APPENDIX: LIST OF LEGITIMATE SPECIES WITH SYNONYMS

Unrevised taxa, of which the type material is not available, in brackets.

- (abyssinicus) De Not.
acuminatus Mitt.
birgeri Card.
crassissimus Besch.
curvatifolius Card.
fuegianus Dus.
kirkii Mitt. in Beck var. pilosus J.-P. Frahm
sulfureo-nigrinus Dus.
var. kirkii (Mitt.) J.-P. Frahm
denticuspis Broth.
nigroflavus (C. Müll.) Par.
aemulans (Hampe) Jaeg.
auribrunneus (C. Müll.) Broth.
brunneo-bolax (C. Müll.) Broth.
filicaudatus (C. Müll.) Broth.
setaceo-rigidus (Hampe) Jaeg.
stricticaulis (C. Müll.) Par.
subincrassatus (Hampe) Jaeg.
albidovirens Herz.
angusti-alatus Thér.
guatemalensis Bartr.
(ambiguus) Thér.
amboroensis Thér.
anderssonii (C. Müll.) Jaeg.
fulvus Herz. hom. illeg.
insularis Bartr.
longisubulatus Thér.
subincacorralsis Thér.
(andreanus) Card. & P. Varde
angustiretis (Aust.) Lesq. & Jam.
delicatulus Williams
ditrichoides Broth.
leptodictyon Broth.
arctocarpus (Hornsch.) Mitt.
buchtienii Thér.
discriminatus (Hampe) Jaeg.
crispicoma (C. Müll.) Jaeg.
glaziovii (Hampe) Jaeg.
microtheca Herz.
pelichucensis Williams
rectisetus (Hampe) Jaeg.
rigidiusculus (Hampe) Jaeg.
roraimae Broth.

- sellowianus (Hampe) Jaeg.
 strictifolius Broth.
 ventri-alaris (C. Müll.) Broth.
 ssp. caldensis (Aongstr.) J.-P. Frahm
 catharinensis Par.
 crispatus (C. Müll.) Broth.
 falcatus Bartr.
 perfalcatus Broth.
 perporosus Broth.
 scopelliformis (C. Müll.) Broth.
 subcubitus Williams
 tablasensis Thér.
 ssp. madecassus (Besch.) J.-P. Frahm
 madagassus Dix.
 matarensis Besch.
 rigens Ren. & Card.
 subvirescens Ren. & Card.
 areodictyon (C. Müll.) Mitt.
 breweri Bartr.
 nitidus Wils. in Mitt.
 subconcolor (Hampe) Mitt.
 arcuatus (Brid.) Jaeg.
 capitiflorus Mont.
 helenicus (C. Müll.) Jaeg.
 longifolius Schimp. ex Besch.
 parallelus Thér. in Broth.
 pseudovirescens Ren. & Card.
 santae-helenae Schimp. in Par.
 argyrocaulon (C. Müll.) Broth.
 leucognodes (C. Müll.) Par.
 areodictyon Schimp. in Mandon
 asperifolius Mitt.
 trichophorus Hampe ex Herz.
 weddelii Besch.
 atlanticus B.H. Allen
 atro-virens De Not.
 adustus De Not.
 falcatus Ferg. in Par.
 fergussonii Stirt.
 fusco-viridis (Card.) Dix. & Thér.
 perplexans Stirt.
 prasino-rufus Stirt.
 yakushimensis Sak.
 aureonitens (C. Müll.) Jaeg.
 aethiops Welw. & Duby
 aongstroemii C. Müll. in Aongstr.
 drouhardii Card. & Coop.
 hygrometricus Rehm. in Geh.
 lonchocladus C. Müll. in Geh.
 naumannii (C. Müll.) Kindb.
 purpureo-aureus (C. Müll.) Par.
 symonsii Sim
 valentinii Besch.
 ssp. recurvifolius (Dus.) J.-P. Frahm
 australis Catcheside & J.-P. Frahm
 angustilimbatus Bartr. hom. illeg.
 (austro-alpinus) (C. Müll.) Kindb.
 (austro-stramineus) Thér.
 austro-subulatus Broth. & Geh.
 novae-guineae Dix. & Thér.
 sericeus Fleisch.
 subericoides Williams
 bartramiaceus (C. Müll.) Par.
 bartramiaceus (C. Müll.) Dix. & Gepp
 (beauverdianus) Thér.
 (belangeri) Thér.
 bicolor (C. Müll.) Wils. in Hook.f.
 ssp. bicolor
 bartramiaceus (C. Müll.) Par.
 basalticolus (C. Müll.) Par.
 caducipilus Besch. in Par.
 stewartii R. Brown ter.
 subbicolor Geh. & Broth.
 var. ericeticola (C. Müll.) Dix.
 davallianus Watts. in Dix.
 ssp. atroluteus (C. Müll.) J.-P. Frahm
 brevis Rehm. in Geh.
 chlorophyllosus (C. Müll.) Jaeg.
 schenkei C. Müll. in Par.
 schunkei Rehm. in Dix. & Gepp
 brevipilus B.S.G.
 attenuatus (Stirt.) Dix.
 aurescens Stirt.
 decipiens Lac.
 fulvoviridis Stirt.
 molkenboeri Lac.
 (brunneus) (C. Müll.) Par.
 bryotropii J.-P. Frahm
 cambouei Ren. & Card.
 amblyacron (Ren.) Ren. & Card.
 labeensis Broth. & Par.
 lavardei Thér. in P. Varde
 laxobasis Ren. & Card.
 mozambicus P. Varde
 capitulatus Bartr.
 carolinae Grout

- cerradensis Vital
 catarractilis (C. Müll.) Par.
 cataractitis Par.
 pulvinatus (C. Müll.) Rehm. in Par.
 semidorsum Rehm. ex Par.
 cavifolius Mitt.
 apollinairei Thér.
 (chalarobasens) C. Müll. in Par.
 chevalieri Broth. & Par.
 chilensis De Not.
 flavo-nigritus Dus.
 subappressifolius Broth. & Geh. in Rodw.
 circinatus J.-P. Frahm
 clavatus (R. Brown) Wils. in Hook.f.
 appressifolius Mitt. in Hook.f.
 arcuatus R. Brown ter.
 arenarius R. Brown ter.
 brownii Par.
 corralensis Broth. in Par.
 cylindrothecium R. Brown ter.
 elliptothecium R. Brown ter.
 insistitius Hook.f. & Wils.
 insidiosus Hook.f. & Wils.
 leptocarpus Wils. in Hook.f.
 leptodus Mont.
 montagnei De Not.
 otaramaii R. Brown ter.
 persimplex C. Müll.
 pycnangius C. Müll. in Kindb.
 rarus R. Brown ter.
 robertii Par.
 rodwayi Broth.
 scabridii Bealey in Dix.
 strictissimus C. Müll.
 subclavatus Kindb.
 sulfureo-flavus (C. Müll.) Par.
 trailii R. Brown ter.
 walkeri R. Brown ter.
 xanthophyllus Mont.
 clemensiae Bartr.
 cleefii J.-P. Frahm
 (cockyanii) R. Brown ter.
 comosus (Reinw. & Hornsch.) Bosch & Lac.
 caudatus (C. Müll.) Mont. in Dozy & Molk.
 flexifolius Bosch. & Lac.
 reduncus (Reinw. & Hornsch.) Bosch. & Lac.
 trachythecium (C. Müll.) Jaeg.
 wabagensis Bartr.
 walkeri (Mitt.) Jaeg.
 wilhelmensis Bartr.
 concolor (Hook.) Brid.
 crateris Besch.
 orzeszkoanus Ren. & Card.
 (crispatulus) Thér.
 cryptopodioides Broth.
 ramuliger Broth.
 (cruegeri) (C. Müll.) Par.
 cubensis Sull.
 harrisii (C. Müll.) Par.
 cuspidatus (Hornsch.) Mitt.
 bolivarensis Bartr.
 carassensis (Broth.) Par.
 hoffmannii (C. Müll.) Ren. & Card.
 nematophyllum Ren. & Card.
 var. dicnemioides (C. Müll.) J.-P. Frahm
 cucullatifolius Herz.
 cygneus (Hedw.) Brid.
 cacuminis (C. Müll.) Par.
 ekmannii Thér.
 elliottii Bartr.
 jamaicensis Mitt.
 saxatilis Williams
 setaceus Card.
 decaryi Thér.
 densicoma (C. Müll.) Par.
 cavernosus J.-P. Frahm
 filicuspis Broth. in Herz.
 gertrudis Herz.
 spurio-concolor (C. Müll.) Par.
 var. yungarum (Herz.) J.-P. Frahm
 dichrostis (C. Müll.) Par.
 (dieckianus) Stirt.
 dicranoides Thér. & Nav.
 lindavii Broth. in Engl.
 (dietrichiae) (C. Müll.) Jaeg.
 edithae Broth.
 andicola Thér.
 harpophyllum Herz.
 thysanomitrioides Thér.
 ericoides (Griff.) Jaeg.
 erythrognaphalus (C. Müll.) Jaeg.
 involutus (C. Müll.) Jaeg.
 roinei Card. & P. Varde
 tenuinervis Fleisch.
 exasperatus (Nees & Blum) Brid.

abbreviatus (Dix.) Manuel
 archboldii (Bartr.) Bartr.
 sclerodictyum Card.
 var. lorentzii (Fleisch.) J.-P. Frahm
 papuensis Bartr.
 ridleyi (Dix.) Manuel
 (exfimbriatus) C. Müll.
 extinctus J.-P. Frahm

flaccidus Ren. & Card.
 ampliretis (C. Müll.) Par.
 chateauvertii Thér.
 consociatus Thér.
 edwardsii Sim
 heteroneuron Thér.
 latifolius Rehm. in Kindb.
 marillacii Rehm. in Par.
 olivaceo-nigricans (C. Müll.) Par.
 perrieri Thér.
 pseudonigrescens Thér.
 transvaaliense Herz. & Dix.
 var. cucullatifolius J.-P. Frahm
 flagelliferus (C. Müll.) Jaeg.
 flexuosus (Hedw.) Brid.
 alleizettii Thér. & P. Varde
 arduennae Lib.
 boivinianus Besch.
 brachymastix C. Müll. ex Besch.
 brachyphyllus Wils. ex Mitt.
 brevifolius Roell in Limpr.
 crenulatus Stirt.
 heterophyllus Mitt.
 homomallus Leroy & Thér.
 hondurensis Bartr.
 leucophaeus Stirt.
 melaphanus Stirt.
 mexicanus Thér.
 micans Wulfsb.
 obtectus Stirt.
 paradoxus Wils. in Harsy
 quintasii Broth.
 roellii Ren. & Card.
 rubiginosus Stirt.
 ryparochlorus C. Müll.
 sargii Roell ex Ren. & Card.
 scabricuspis Mitt. in Mell.
 straminifolius Bartr.
 subcinereus Stirt.
 tsaratananae Thér.

verdolinii Par. & Ren.
 virescens Besch.
 watsii Broth.
 zonatus Mol.
 var. incacorrals (Herz.) J.-P. Frahm
 reflexus Broth. in Herz.
 subperichaetialis Biz. & Kilb.
 flindersii Catcheside & J.-P. Frahm
 fragilis (Brid.) B.S.G.
 ssp. fragilis
 abyssinicus Schimp. in Par.
 akagiensis Broth. & Yas.
 alpicola (C. Müll.) Jaeg.
 citrescens Stirt.
 densus B.S.G.
 fimbriatus Mitt.
 laete-virens (C. Müll.) Jaeg.
 penicillatus Brid.
 pinfaensis Thér.
 retinervis (C. Müll.) Par.
 ruwenzoriensis Demar. & P. Varde
 subflexuosus Par.
 subturfaceous Card.
 tunariensis Herz.
 ssp. fragiliformis (J.-P. Frahm) J.-P. Frahm
 luetzelburgii Herz. ex J.-P. Frahm
 ? sphagnicola Herz.
 ssp. goughii (Mitt.) J.-P. Frahm
 goughii (Mitt.) Jaeg.
 albescens (C. Müll.) Jaeg.
 ceylonensis Broth. in Fleisch.
 compactus Wils.
 latinervis (Mitt.) Jaeg.
 nietneri (C. Müll.) Jaeg.
 nilghiriensis (Mitt.) Jaeg.
 pseudogracilis Card. & Dix.
 subgracilis Ren. & Card. ex Gang.
 ssp. zollingerianus (C. Müll.) J.-P. Frahm
 celebicus Card.
 zollingerianus (C. Müll.) Bosch. & Lac.
 boswellii (C. Müll.) Par.
 crispifolius Bartr.
 celebicus Card.
 fusco-lutescens Ren. & Card.
 gardneri (C. Müll.) Mitt.
 gastro-alaris (C. Müll.) Par.
 gemmatus (C. Müll.) Par.
 arachnoideus Herz.

- (geraense) Par.
gracilis (Mitt.) Jaeg.
 schwarzii Schimp.
 auriculatus Wils. in MacKinlay
 huntii Stirt.
 purpurascens Stirt.
 symplectus Stirt.
griseus (Hornsch.) Jaeg.
 lapidicola (C. Müll.) Par.
 recurvipilus (C. Müll.) Par.
 scabrophyllus (C. Müll.) Par.
 subgriseus (Hampe) Jaeg.
 ssp. *ingeniensis* (Williams) J.-P. Frahm
- hawaiiicus* (C. Müll.) Jaeg.
 var. *hawaiiicus*
 purpureo-flavescens (C. Müll.) Par.
 rubricaulis Broth. & Par.
 var. *hawaiiico-flexuosus* (C. Müll.) J.-P. Frahm
 perangustifolius C. Müll.
 var. *densifolius* (Aongstr.) J.-P. Frahm
 densiretis Broth.
 plumosus Sull. ex Par.
 wawreanus Reichdt.
hensii Ren. & Card.
 levieri Broth. in Par.
 suberythrocaulon Broth. in Mildbr.
heterostachys (Hampe) Jaeg.
 alopecurus (C. Müll.) Kindb.
 annotinus Mitt.
 hellerianus (Hampe) Jaeg.
 porphyreocaulis (C. Müll.) Kindb.
hildebrandtii (C. Müll.) Kindb.
 aubertii (Bel.) Thér. in Broth.
 cagnii Negri
 leucochlorus (C. Müll.) Par.
 nano-tenax (C. Müll.) Par.
 natalensis Rehm. in Par.
 pallescens Besch.
(homalobolax) (C. Müll.) Par.
huallagensis Broth.
 var. *weberbaueri* (Broth.) J.-P. Frahm
 wurdackii Robins.
- eximius* Reichdt.
dixonii Luis.
falcifolius Mitt.
flavoviridis Dus.
flavotextus Thér. in Broth.
rallieri Card.
incurvatus J.-P. Frahm & Hoe
introflexus (Hedw.) Brid.
 aurificus (C. Müll.) Kindb.
 australiensis Duby
 balanseanus Besch.
 bartramiaceus (C. Müll.) Thér. in Broth.
 berteroanus Duby
 canescens (C. Müll.) Jaeg.
 capensis Schimp. in Mitt.
 clavatus Rehm. in Sim
 collinus Par.
 cunningii Duby
 echinatus Sim
 erythropoma Duby
 exalaris (Hampe) Par.
 latipilis C. Müll. in Kindb.
 lechleri Schimp. in Lor.
 lepidophyllus (C. Müll.) Jaeg.
 leptocephalus (C. Müll.) Jaeg.
 liebmannii (C. Müll.) Schimp. in Besch.
 longescens (C. Müll.) Par.
 ochrodictyon Aongstr.
 parvicaespitosus (C. Müll.) Par.
 perincanus (C. Müll.) Kindb.
 pseudoclavatus Par.
 pseudojulaceus C. Müll.
 pudicus (C. Müll.) Jaeg.
 rectipilis C. Müll. in Kindb.
 senex (C. Müll.) Par.
 strictus Tayl.
 tasmanicus Par.
 truncatus C. Müll.
 verrucosus Besch.
 var. *cordobaensis* Thér.
 carinatus C. Müll.
 grimmioides (C. Müll.) Kindb.
- (itacolumitis)* (C. Müll.) Broth.
- incertus* Thér.
incrassatus C. Müll.
 alvarezianus Card.
 chalarobasis C. Müll. ex Thér.
- jamesonii* (Hook.) Jaeg.
 altissimus (Hook.) Jaeg.

- echernieri Besch.
 procerus (C. Müll.) Par.
 standleyi Bartr.
 johannis-meyeri (C. Müll.) Kindb.
 kivuensis P. Varde & Thér.
 preussii Broth. in Par.
 hoehnelii (C. Müll.) Kindb. var.
 subelamellatus Broth. in Mildbr.
 jugorum Herz.
 julaceus Jaeg.
 microjulaceus (C. Müll.) Par.
 ssp. arbogastii (Ren. & Card.) J.-P. Frahm
 julaceus Rehm. in Par.
 kunertii Par.
 pseudo-julaceus Sim
 simii Schelpe
 julicaulis Broth.
 sehnemii Bartr.
- lamellinervis (C. Müll.) Mitt.
 giganteus Sull.
 multisulcatus Duby in Hampe
 penicillatus (Hornsch.) Jaeg.
 pseudodicranum Herz.
 subpenicillatus (C. Müll.) Broth.
 tortuosus (Hampe) Par.
 var. exaltatus (C. Müll.) J.-P. Frahm
 laxitextus Lac.
 ? annamensis Par. & Broth.
 calodictyon Broth.
 ? celebesicus Card.
 eurydictyon Dix. ex Bartr.
 flexipilis Dix.
 fumarioli C. Müll.
 gracilentus Card.
 ludoviciae Broth. & Par.
 micholitzii C. Müll. ex Fleisch.
 nadeaudianus Besch.
 pes-funariae (C. Müll.) Par.
 polyanthus Besch.
 rugosus Besch.
 samoanus Broth. in Rech.
 sulfureus Besch.
 laxoventralis Herz. ex J.-P. Frahm
 laetevirens (Broth.) J.-P. Frahm hom. illeg.
- lonchochaete C. Müll.
 distractus C. Müll.
 holomitrius auct.
 longicellularis J.-P. Frahm
 luteus (C. Müll.) Par.
 subfulvus Thér.
- macgregorii Broth. & Geh.
 atrofuscescens Bartr.
 gedehensis Baumg. & Froehl.
 perinvolutus Thér. in Froehl.
 ruttneri Thér. in Froehl.
 megalotus Besch.
 comatulus Besch.
 milleri Ren. & Card.
 modestus Card.
 campoanus Thér.
 carbonicola Thér.
 permollis Thér.
- (nakamurae) Sak.
 nanophyllus C. Müll. ex Broth.
 brachyphyllus C. Müll. in Par.
 bryhnii Broth.
 letestui Thér. & P. Varde
 maclaudii Par. & Broth.
 subambiguus Thér.
 subbrachyphyllus Par.
 tisserantii P. Varde
 (nepalensis) (Brid.) C. Jaeg.
 nivalis (Brid.) Brid.
 anguste-limbatus Thér. & P. Varde
 arsenei Thér.
 boryanus Besch.
 chrismarii (C. Müll.) Mitt.
 commersonii Besch. in Ren.
 denticuspis Broth. in Mildbr.
 destructilis (C. Müll.) Jaeg.
 friabilis (Hampe) Jaeg.
 krauseanus (Hampe & Lor.) Jaeg.
 leptodrepanium (Broth.) Broth.
 mandonii Schimp. in Par.
 manginii Thér.
 poasensis Ren. & Card.
 sericeus Negri
 stramineus (Mitt.) Jaeg.
 subfimbriatus Thér.

- subleptodrepanium Broth. & Thér.
 suboblongus Herz.
 substramineus Broth. in Mildbr.
 taylorii Dix.
 tolucensis Bartr.
 var. multicapsularis (C. Müll.) J.-P. Frahm
 insignis Herz.
 subannotinus Thér. & P. Varde
 leucobasis Herz.
- oblongus Thér.
 bolivianus Thér. ex J.-P. Frahm
 obrutus Thér. & P. Varde
 diversifolius (Leroy & Thér.) Takaki
 guineensis Thér.
 subobrutus Thér. & P. Varde
 usambaricus P. Varde
- occultus Mitt.
 acervatus Mitt.
 brachymitrius (Geh. & Hampe) Kindb.
 brachythysanos (C. Müll.) Par.
 cacti (C. Müll.) Par.
 calymeridictyon (Geh. & Hampe) Kindb.
 dentato-acicularis C. Müll. nom. nud.
 dicksoniae C. Müll. nom. nud.
 divisus (Geh. & Hampe) Kindb.
 fuscatus Besch.
 glauco-pallidus C. Müll.
 humifugus (C. Müll.) Kindb.
 joinvilleanus (Hampe) Jaeg.
 platyneuron (Hampe) Jaeg.
 pseudo-brachymitrius (C. Müll.) Par.
 restingae C. Müll. ex Broth.
 rufescens Broth. in Par.
 scabrellus Mitt.
 subbrachymitrius C. Müll.
 tortillisetus Ule in C. Müll.
 oerstedianus (C. Müll.) Mitt.
 mildei Limpr.
- propinquus (Hampe) Mitt.
 rosulatus (Hampe) Mitt.
 var. lamprodictyon (Hampe) J.-P. Frahm
 trollii Thér.
- perexilis (C. Müll.) Par.
 perichaetialis P. Varde & Thér.
 perpusillus Mitt.
 angustinervis Dix.
 cailleae Ren. & Card.
 dicranelloides Ren. & Card.
 kouroussensis Ren. & Par.
 latifolius Card.
 voeltzkowii Broth. in Voeltzkow
- pilifer Brid.
 acrocaulon (C. Müll.) Kindb.
 angustifolius Warnst.
 atro-sordidus C. Müll. ex Broth.
 bessonii Ren. & Card.
 bewsii Sim
 calochlorus Broth. & Thér.
 cinchonae Par.
 civa Lor.
 crishna Lor.
 eckendorffii Thér. & P. Varde
 erectus (C. Müll.) Mitt.
 ericetorum (Mitt.) Jaeg.
 griseolus (C. Müll.) Par.
 hoehnelii (C. Müll.) Kindb.
 hispidus Ren. & Card.
 lamellicosta (C. Müll.) Schimp. in Besch.
 liebmannii (C. Müll.) Schimp. in Besch.
 leucobasis Par.
 leucotrichus Sull. & Lesq.
 longipilus Brid. p.pte.
 luridus Schimp. ex Besch.
 lutescens (C. Müll.) Jaeg.
 pachycomus Besch. in Par.
 pilosissimus Schimp. ex Besch.
 poicilophyllus Nav.
 polytrichoides De Not.
 proliferus (C. Müll.) Mitt.
 purpurascens Lor.
 sommieri Bott. in Giac.
 strictus Schimp. ex Besch.
 subbartramiaceus C. Müll. in Geh.
 subintroflexus Kindb.
 subproliferus C. Müll. in Ren. & Card.
 tenellus Rehm. in Dix. & Gepp
 transvaaliensis Rehm. in Kindb.
 tricolor (C. Müll.) Jaeg.
- pauper (Hampe) Mitt.
 chrysodictyon (Hampe) Mitt.
 fendleri (C. Müll.) Par.
 kingii Robins.

- trichodes Lor.
 tullgrenii Ren. & Card.
 turgidus Rehm. in Dix. & Gepp
 vaporarius Bolle
 vitzliputzli Lor.
 weisiopsis (C. Müll.) Par.
 var. lamellatus (Mont.) Gradstein & Sipman
 ssp. galapagensis (J.-P. Frahm & Sipman) J.-
 P. Frahm
 pittieri Williams
 latinervis Herz.
 renneri Herz.
 praemorsus (C. Müll.) Jaeg.
 microcephalus (C. Müll.) Par.
 praetermissus J.-P. Frahm
 silvaticus Rehm. in Par.
 pseudobicolor C. Müll. ex Ren. & Card.
 purpureocaulis Dus.
 aberrans Broth.
 arboricola Card. & Dix.
 pyriformis (Schultz) Brid.
 amabilis (C. Müll.) Par.
 aureo-viridis (C. Müll.) Schimp. ex Par.
 azoricus Mitt.
 bellii R. Brown ter.
 beyrichianus Duby
 blindioides Broth. in Skottsbr.
 calvatus Dix. in Luis.
 campiadelphus (C. Müll.) Par.
 canaliculatus (Geh. & Hampe) Kindb.
 capillatus Hook.f. & Wils.
 distractus (C. Müll.) C. Müll.
 erythrodontius Jaeg.
 glaucoviridis (C. Müll.) Par.
 fallaciosus (Thér.) Podp.
 fibrobasius Dus.
 flavescens Rehm. in Kindb.
 kunkelii Bartr.
 laxiretis Bartr.
 lenormandii Thér.
 leptotrichaceus (C. Müll.) Par.
 lonchochaete C. Müll.
 luscinalis Dix. in Christ.
 masafuerae J.-P. Frahm
 minor Besch.
 mouensis Broth. & Par.
 muelleri Jur. in Rabenh.
 nitidus Thér. in Felipp.
 novae-valesiae Broth.
 novae-zealandiae Bartr. & Dix.
 ohingaitii R. Brown ter.
 pallidus Hook.f. & Wils.
 paludicola Broth. in Mildbr.
 pergracilis Stirt.
 sancti-caroli Besch.
 sparksii R. Brown ter.
 subareodictyon Broth. in Skottsbr.
 subreconditus (Geh. & Hampe) Kindb.
 subtorquatus C. Müll.
 tijucae Broth. in Par.
 torfaceus B.S.G.
 torquatus Mitt. in Hook.f.
 trachynotus (C. Müll.) Par.
 uruguensis J.-P. Frahm
 viridicatus (C. Müll.) Par.
 woolsii (C. Müll.) Par.
 var. hamatus J.-P. Frahm & Bartlett
 recurvus (Mitt.) Jaeg.
 cataractarum (Fleisch.) Fleisch.
 wichurae Broth. in Fleisch.
 sedgwickii Dix.
 reflexisetus (C. Müll.) Broth.
 benedictii Herz.
 ptychotheca Herz.
 refractus J.-P. Frahm
 richardii Brid.
 atratus Broth.
 caracasanus (C. Müll.) Par.
 laevigatus (C. Müll.) Schimp. in Besch.
 muelleri (Hampe) Jaeg.
 nigerrimus (C. Müll.) Par.
 nigrescens Duby
 puiggarii (Geh. & Hampe) Par.
 rigidus (Hornsch.) Jaeg.
 steyermarkii Bartr.
 yunqueanus (C. Müll.) Par.
 robillardei Besch.
 alto-virescens (C. Müll.) Par.
 doliolidium C. Müll. in Par.
 heribaudii Ren. & Card.
 gallienii Par.
 inchangae (C. Müll.) Par.
 inerangae (C. Müll.) Par.
 jucrangae Par.
 longescens (C. Müll.) Par.
 macleanus Rehm. in Thér.
 pallido-nitens Thér.

- serridorsus* (C. Müll.) Par.
sudabyanus Rehm. in Dix. & Gepp
variegatus Dix. & Wagn. in Sim
 var. *perauriculatus* (Broth.) J.-P. Frahm
brassii Bartr.
- savannarum* (C. Müll.) Mitt.
afroconcolor C. Müll. ex Broth.
acutirameus Dix. & Thér. ex Bartr.
angolensis Mach. & Dix.
arenaceum (Broth.) J.-P. Frahm
argutidens Broth. & Par.
aspericuspis Thér. & P. Varde
assimilis Thér. & P. Varde
bartlettii Bartr.
bequaertii Thér. & Nav.
brachyphyllulus (C. Müll.) Broth.
cambodgensis Thér.
compactus Par. & Broth.
delagoae (C. Müll.) Par.
dissitus C. Müll. ex Broth.
divaricatus (Mitt.) Jaeg.
duzenii C. Müll. in Par.
erythrocaulon Broth.
gaudichaudii Besch.
horridus Welw. & Duby
inandae (C. Müll.) Par.
laetus (Mitt.) Jaeg.
latolaminatus C. Müll. in Broth.
luluensis Thér. & Nav.
macrotis C. Müll. ex Broth.
mathieui Thér.
montanus Welw. & Duby
pobeguini Par. & Broth.
salesseanus Par. & Broth.
serricuspis Thér. & P. Varde
schiffneri (Broth.) J.-P. Frahm
sciuroides Welw. & Duby
siamensis Dix. & Thér.
sprucei Mitt.
 ? *tortilipilus* J.-P. Frahm
viridatulus C. Müll. ex Broth.
- (scoposum)* Hampe ex C. Müll.
(searellii) R. Brown ter.
sericeoides Dix.
serratus Lac.
demangei Thér. & P. Varde
scabridorsus Dix.
- singaporensis* Fleisch. & Par.
pinangensis Thér. in Henry
schimperi Milde
alpigena Broth.
compactus Schimp. in Hunt.
handelii Broth.
schmidii (C. Müll.) Jaeg.
aureus Bosch & Lac.
calvus Ren. & Card.
chryseolus C. Müll. ex Besch.
deciduus Ren. & Card.
herzogii Broth.
merapicola C. Müll.
nodiflorus (C. Müll.) Jaeg.
ripicola Besch.
robbinsii Bartr.
subtricolor Lor.
ssp. hemitrichius (C. Müll.) J.-P. Frahm
copelandii Broth.
diversinervis Broth.
foxworthii Broth.
skottsbergii Broth.
tubulosus Bartr.
wallisii Sauerb. in Jaeg.
setifolius Wils.
porophorus Stirt.
sharpii J.-P. Frahm, Horton & Vitt
shawii Wils. in Hunt
brittonae Williams
carreiroanus Card.
underwoodii Williams
sinensis (C. Müll.) J.-P. Frahm
 ? *aoraiensis* H. Whittier
eberhardtii Par.
excurrens Dix.
fusco-viridis (Card.) Dix. & Thér.
irrigatus Thér.
japonicus Broth.
pseudomuelleri Card.
saint-pierrei Thér.
uii Broth.
smaragdinus (Brid.) Jaeg.
mangenotii Biz. & Kilb.
mollis C. Müll. in Par.
parisii Ren.
subpulvinatus P. Varde & Thér.
spiralis Dus.
subcuspidatus (Hampe) Jaeg.
atratus Bartr.
brotherianus Par.

paramoensis Bowers
 praealtus (C. Müll.) Par.
 procerus Broth.
 var. damazii (Broth.) J.-P. Frahm
 (subfalcatum) (Hornsch.) Jaeg.
 subfragilis Ren. & Card.
 subjugorum Broth.
 subluteus (Mitt.) Jaeg.
 subnitens Kaal.
 (subtrachyblepharum) C. Müll.
 subulatus Schimp. in Rabenh.
 barbuloides Broth. in Bruehl
 brevifolium Schimp.
 gracile (Mitt.) Jaeg.
 fusco-luteum Stirt.
 latinervis (Mitt.) Jaeg.
 surinamensis C. Müll.
 catumbensis Broth.
 costaricensis Bartr.
 donnellii (Aust.) Lesq. & Jam.
 gracilicaulis Mitt.
 marmellensis Broth.
 minarum Par.
 subleucogaster (C. Müll.) Jaeg.

 (taiwanensis) Sak.
 tallulensis Sull. & Lesq.
 tequendamensis Thér.
 terebrifolium (C. Müll.) Jaeg.
 thwaitesii (Mitt.) Jaeg.
 angusticosta J.-P. Frahm
 angustinervis Herz.
 capensis Broth.
 chlorotrichum (C. Müll.) Par.
 cardotii Thér.
 controversum (Hampe) Jaeg.
 flaccidum (C. Müll.) Broth.
 fusco-croceum (Hampe) Jaeg.
 hildebrandtianum Fleisch.
 humericola (C. Müll.) Par.
 macrogaster (C. Müll.) Broth.
 mosenii Broth.
 orthopelma (C. Müll.) Par.
 ouropretensis Par. in Broth.
 pleurocarpum (C. Müll.) Par.
 pseudodichrostis Broth.
 stenopelma (C. Müll.) Rehm. ex Par.
 stramineolum C. Müll.

subulifolium Thwait. & Mitt.
 tenax (C. Müll.) Par.
 viridatum (C. Müll.) Broth.
 torrentis Thér. & P. Varde
 trachyblepharum (C. Müll.) Mitt.
 arenicola (C. Müll.) Mitt.
 bermudianum Williams in Britt.
 detonsus (Hampe) Kindb.
 schwaegrichenii Duby
 subarenicola C. Müll. ex Broth.
 villicaulis (Hampe) Jaeg.
 ssp. comatum (Ren. & Card.) J.-P. Frahm
 subcomatum Ren. & Card.
 trichophylloides Thér. in Herz.
 trivialis C. Müll. ex Britt.
 tener Broth.
 cuatrecasii Robins.

 uleanum (C. Müll.) Broth.
 umbellatum (Arn.) Par.
 alatum (Broth. ex Ihs.) Iwats. & Nog.
 blumei (Dozy & Molk.) Bosch & Lac.
 coreensis Card.
 depallieri Card. & P. Varde
 didrichsenii (C. Müll.) Jaeg.
 dozyanum (C. Müll.) Jaeg.
 ferrieri Broth. in Par.
 foreauanum Card. & P. Varde
 gibboso-alaris (Broth. & Par.) Wijk & Marg.
 hawaiicum (C. Müll.) Jaeg.
 leptoneuron Broth. ex Ihs.
 microrhodon C. Müll. in Par.
 nagasakinum Broth. in Par.
 nigrescens (Mitt.) Jaeg.
 nudicaulis Besch.
 obscurum Aongstr.
 oedicaulis C. Müll. in Par.
 percristatum Thér.
 pertristis (C. Müll.) Par.
 powellii (C. Müll.) Par.
 ? sandwicensis Par.
 scabripilus Warnst.
 subexasperatum (C. Müll.) Jaeg.
 vernieri Duby
 viridulum Card.
 var. pterotoneuron (C. Müll.) J.-P. Frahm
 geniculatum Aongstr.

- valerioi B.H. Allen
 validinervis (Dix.) B.C. Tan
 vesticaulis Mitt. in Mell.
 dicranodontioides Broth. in Skottsb.
 guaitecae Dus.
 hygrophilus Broth. in Skottsb.
 paludosus J.-P. Frahm & Bartlett
 saddleanus (C. Müll.) Besch.
 saxicola Broth. in Skottsb.
 turficola Broth. in Skottsb.
- widgrenii (C. Müll.) Mitt.
 tijucae Broth. in Par.
 wheeleri (C. Müll.) Hampe ex Par.
- zygodonticarpus (C. Müll.) Par.

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