
A Checklist of the Mosses of Mount Apo Volcanic Complex

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Abstract: Linis, V.C.; Schwarz, U. (2023): A Checklist of the Mosses of Mount Apo Volcanic Complex. *Frahmia* 32:1-51.

A published (literature) and unpublished herbarium data-based checklist of Mount Apo Volcanic Complex (MAVC) mosses is presented. Geographic coverage includes Mount Apo, Mount Talomo and Mount Sibulan. The list is alphabetically organised by species and infraspecific taxon, with the accepted names appearing in bold italic type. Synonyms and misapplied names which are limited primarily to the names used for Philippine mosses in the latter part of the twentieth century, follow the accepted name in paragraph style. A systematic synopsis of genera and families for MAVC moss flora is presented. A bibliography of supporting references is included.

Introduction

The Mount Apo Volcanic Complex (MAVC), in Mindanao Island, Philippines, is a volcanic massif formed by Mount Apo, the country's highest mountain at 3,124 m asl, Mount Talomo a.k.a. Mount Calelan/ Mount Kolelan (2674 m asl), and Mount Sibulan a.k.a. Mount Dagatpan (1,292 m asl) (Lewis, 1988; Corpuz, 1992). With its last eruption recorded in 1640 (Kellman, 1970), Mt. Apo remains a potentially active stratovolcano emitting sulphurous gases, while Mt. Talomo and Mt. Sibulan are both extinct. Part of MAVC was declared a National Park in 1936, now covering an area of 54,974 ha. The United Nations placed it on its National Parks and Equivalent Reserves list in 1982, and the Association of Southeast Asian Nations (ASEAN) named it an ASEAN Heritage Site in 1984 (Aspe & James, 2017).

A chronological list of collectors and field workers spanning over 100 years of moss collecting in MAVC is presented below. Before 1900, the mosses described in MAVC were relatively few, representing random collections by Montano and Warburg. Rapid progress was made during the American regime after 1902. Merrill and his associates brought representative collections of mosses together in the Bureau of Science and Bureau of Forestry. These, along with the collections made by A. D. E. Elmer, were studied and published by Dr V. F. Brotherus under a series of papers providing the initial idea of the scope and richness of MAVC mosses (Brotherus, 1900a; 1900b; 1905; 1913a; 1913b; 1926). Afterwards, further additions to the bryological herbaria were

made by Copeland, Williams, Mearns, Weber, Hatchisuka, and Setogawa, culminating in the publication of the first Philippine moss flora by Bartram (1939). This flora includes 54 species in 41 genera of mosses known in MAVC. After the Second World War, moss collecting in the country, including MAVC, declined for several years. Between 1949 and 1982, moss collecting began to pick up pace due to the efforts of a few local botanists and visiting foreign bryologists such as Deguilla, Apolinario, Edaño, Celestino, Meijer, Veloira, Pancho, Robbins, Jumalon, Alvarez, van Zanten, Reynoso, Penecilla, Aguilla, and Tan, whose collecting activities have continued, although slowly, added considerably to our growing knowledge of MAVC mosses. This information, including discoveries and progress in moss systematics made during this period, led to the publication of a checklist of Philippine moss taxa (Tan & Iwatsuki, 1991). The checklist, representing an exhaustive review of Philippine moss literature up to the end of 1990, has increased the number of MAVC mosses to 138 species and 82 genera.

Collectors of Mosses and their dates of collecting activities on Mount Apo Volcanic Complex:

J. Montano – April 1881
 O. Warburg – before 1898
 E.B. Copeland – October 1904
 R.S. Williams – March/ April 1905
 E.A. Mearns – May 1905
 A.D.E. Elmer – September 1909
 C.M. Weber – before 1913
 M. Hatchisuka – 1921
 B. Setogawa – December 1939
 Deguilla & Apolinario – July 1946/ May 1949
 G.E. Edaño – October/ November 1946
 M. Celestino – February 1948
 W. Meijer – July 1953
 N. Veloira – 1956
 J.V. Pancho – July 1965
 R.G. Robbins – October 1965
 J. Jumalon – before 1980
 A. Alvarez – January 1980
 B.O. van Zanten – January 1981
 E. J. Reynoso – February 1981
 G. L. Penecilla – February 1981
 B.C. Tan & Aguila – 1982
 L. Valerio – November 1996
 U. Schwarz – March 1999
 F. Schumm & U. Schwarz – August 1999
 V. Linis – February 2011/ December 2022
 A.G. Azuelo – May 2013
 B.C. Tan, D.S. Penneys, J.R. Shevock, J. Mancera – May 2014
 A.G. Azuelo et al. – February 2015

No single publication is available that deals with mosses of MAVC, either taxonomically or bibliographically. References are scattered in many publications, such as those mentioned above, which are often challenging and time-consuming for beginners to access and even more difficult for

experienced persons outside the Musci. Therefore, constructing this checklist is essential as it attempts to bring together all references to and distribute information on mosses from MAVC.

It must be emphasised that this checklist originates from both published (literature) data and unpublished herbarium data. Information compiled from the literature was published from as early as the 1900s until the present (2022). The reference point is the Philippine moss checklist published by Tan and Iwatsuki (1991), which summarised the literature and reconciled the scientific names for Philippine mosses in use up to that time. The present checklist attempts to account for all scientific names in use for MAVC mosses before Tan and Iwatsuki's moss checklist up to the latter decades of the twentieth century. To be clear, the checklist is not a comprehensive nomenclator for all names that have ever been published for or applied to MAVC mosses. No nomenclatural novelties or taxonomic changes are initiated in this checklist. In addition to literature data, many MAVC moss-vouchered specimens from selected herbaria that the authors have gathered but have never been published were also included in the checklist. Other data that have not been included or missed out will await inclusion in a future iteration of the MAVC moss checklist.

The past 31 years since 1991 have brought an explosion in research on bryophyte systematics. More collections and gatherings from Valerio, Schwarz, Schumm, Linis, Azuelo, Tan, Penneys, Shevock, Mancera, Yurong and others currently deposited in herbaria have further enriched our understanding of MAVC moss flora. Furthermore, many revisions, floristic accounts, and several monographs have been published, and a great deal of new information has been accrued, which led to many changes in moss classification that impacted MAVC moss nomenclature. These regional and global studies resulted in significant taxonomic changes, as well as reporting of several taxa newly recorded to MAVC. This checklist summarises all this information in a concise format, as follows.

A systematic synopsis of genera and families for MAVC moss flora is presented below. Although most genera are still placed in the same families recognised by Tan and Iwatsuki (1991), specific family classification has become increasingly problematic as new data provide insights into relationships between genera. Recent studies have erected several new families, while several genera have been reassigned. Two principal reference works were consulted for family assignments: first, *Bryophyte Biology* (Buck & Goffinet, 2000; Goffinet *et al.*, 2009), and in a few cases, the bryological nomenclator included in the W3MOST database of mosses (<http://mobot.mobot.org/W3T/Search/most.html>) on the TROPICOS website.

The main body of the checklist is alphabetically organised by species and infraspecific taxon, with the accepted names appearing in bold italic type. Data sources are delimited by “—”. The authors and literature citations are included for the species and infraspecific epithets for published data. Literature citations are mentioned with a page and, if available, information about the collector and the herbarium where it is deposited. Authors of each moss species have been standardised against the classification proposed in *Bryophyte Biology* (cited above). Authors for several species not found in that classification have been checked on the W3MOST database of mosses on the TROPICOS website (cited above). All author names are abbreviated according to Brummitt and Powell (1992). On the other hand, unpublished data consisted of the collector with collector number—if available – and the respective herbarium information. Herbarium abbreviations follow

international standards, while “Schwarz xxxx” refers to the second author's private herbarium with the respective number.

Synonyms and misapplied names (in italics) follow the accepted name in paragraph style. These are limited primarily to names used for Philippine mosses in the latter part of the twentieth century. However, a few names from other parts of the world that enter into the nomenclature for particular taxa have been included to track names through the literature.

Following the main body of the checklist is a bibliography of the references cited in the checklist. More than 70 bryological titles were consulted during the project, but only those providing taxonomic or distribution data pertinent to this checklist are included here. The checklist concludes with an index providing an alphabetical list of all synonyms and misapplied names. This list cross-references every synonym or misapplied name to the main entry found under the scientific name accepted in this checklist.

List of Families and Genera

Bartramiaceae	Daltoniaceae	Grimmiaceae	Hypopterygiaceae
<i>Breutelia</i>	<i>Actinodontium</i>	<i>Bucklandiella</i>	<i>Hypopterygium</i>
<i>Fleischerobryum</i>	<i>Cyathophorum</i>	<i>Codriophorus</i>	
<i>Philonotis</i>	<i>Daltonia</i>		Leskeaceae
		Hookeriaceae	<i>Duthiella</i>
Brachytheciaceae	Dicranaceae	<i>Achrophyllum</i>	Leucobryaceae
<i>Aerobryum</i>	<i>Atractyllocarpus</i>	<i>Calyptrochaeta</i>	<i>Leucobryum</i>
<i>Brachythecium</i>	<i>Braunfelsia</i>	<i>Chaetomitrium</i>	<i>Schistomitrium</i>
<i>Eurhynchium</i>	<i>Bryohumbertia</i>	<i>Distichophyllum</i>	
<i>Isothecium</i>	<i>Campylopodium</i>	<i>Ephemeropsis</i>	Meteoriaceae
<i>Oxyrrhynchium</i>	<i>Campylopus</i>	<i>Hookeria</i>	<i>Aerobryidium</i>
<i>Palamocladium</i>	<i>Dicranella</i>	<i>Hookeriopsis</i>	<i>Aerobryopsis</i>
<i>Platyhypnidium</i>	<i>Dicranodontium</i>	<i>Lopidium</i>	<i>Barbella</i>
<i>Rhynchostegiella</i>	<i>Dicranoloma</i>		<i>Barbellopsis</i>
<i>Rhynchostegium</i>	<i>Holomitrium</i>	Hylocomiaceae	<i>Cryptopapillaria</i>
	<i>Leucoloma</i>	<i>Macrothamnium</i>	<i>Floribundaria</i>
Bruchiaceae	<i>Microcampylopus</i>		<i>Meteoriopsis</i>
<i>Trematodon</i>	<i>Microdus</i>	Hypnaceae	<i>Meteorium</i>
		<i>Ctenidium</i>	<i>Neodictyodiella</i>
Bryaceae	Ditrichaceae	<i>Ectropothecium</i>	<i>Pseudotrachypus</i>
<i>Brachytenium</i>	<i>Ditrichum</i>	<i>Isopterygium</i>	<i>Sinskea</i>
<i>Bryum</i>	<i>Garckea</i>	<i>Neoptychofolium</i>	<i>Trachycladiella</i>
<i>Epipterygium</i>		<i>Pseudotaxiphyllum</i>	
<i>Gemmabryum</i>	Entodontaceae	<i>Stereodontopsis</i>	
<i>Orthodontium</i>	<i>Entodon</i>	<i>Taxiphyllum</i>	Mniaceae
<i>Pohlia</i>	<i>Erythrodontium</i>	<i>Trachythecium</i>	<i>Orthomnion</i>
<i>Prychostomum</i>	<i>Mesonodon</i>	<i>Vesicularia</i>	<i>Plagiomnium</i>
<i>Rhodobryum</i>	<i>Plagiotheciopsis</i>		
		Hypnodendraceae	Myuriaceae
Calymperaceae	Fissidentaceae	<i>Dendro-hypnum</i>	<i>Oedycladium</i>
<i>Calymperes</i>	<i>Fissidens</i>	<i>Hypnodendron</i>	
<i>Exostratum</i>		<i>Mniodendron</i>	Neckeraceae
<i>Leucophanes</i>	Funariaceae	<i>Spiridens</i>	<i>Himantocladium</i>
<i>Octoblepharum</i>	<i>Entosthodon</i>	<i>Touwiodendron</i>	<i>Homaliodendron</i>
<i>Syrrophodon</i>	<i>Funaria</i>		<i>Neckeropsis</i>
			<i>Pinnatella</i>

<i>Taiwanobryopsis</i>	<i>Pseudoracelopus</i>	<i>Pterobryopsis</i>	<i>Macrohymenium</i>
Orthorrhynchiaceae	Pottiaceae	<i>Symphysodon</i>	<i>Mastopoma</i>
<i>Orthorrhynchium</i>	<i>Barbula</i>	<i>Symphysodontella</i>	<i>Meiotheciella</i>
	<i>Chionoloma</i>	<i>Trachyloma</i>	<i>Meiothecium</i>
Orthotrichaceae	<i>Hydrogonium</i>	Ptychomitriaceae	<i>Pseudohypnella</i>
<i>Groutiella</i>	<i>Hymenostylium</i>	<i>Glyphothecium</i>	<i>Radulina</i>
<i>Macromitrium</i>	<i>Hyophila</i>	<i>Hampeella</i>	<i>Sematophyllum</i>
<i>Schlotheimia</i>	<i>Leptodontium</i>		<i>Trichosteleum</i>
<i>Zygodon</i>	<i>Rhamphidium</i>	Racopilaceae	<i>Trismegistia</i>
	<i>Scopelophila</i>	<i>Racopilum</i>	<i>Warburgiella</i>
Pilotrichaceae	<i>Splachnobryum</i>		Sphagnaceae
<i>Callicostella</i>	<i>Trichostomum</i>	Rhizogoniaceae	<i>Sphagnum</i>
<i>Cyclodictyon</i>		<i>Calomnion</i>	
	Prionodontaceae	<i>Hymenodon</i>	Thuidiaceae
Plagiotheciaceae	<i>Taiwanobryum</i>	<i>Pyrrhobryum</i>	<i>Claopodium</i>
<i>Plagiothecium</i>		<i>Rhizogonium</i>	<i>Pelekium</i>
	Pterobryaceae		<i>Thuidium</i>
Polytrichaceae	<i>Calyptothecium</i>	Sematophyllaceae	
<i>Dawsonia</i>	<i>Cryptogonium</i>	<i>Acanthorrhynchium</i>	Trachypodaceae
<i>Oligotrichum</i>	<i>Euptychium</i>	<i>Acroporium</i>	<i>Trachypus</i>
<i>Pogonatum</i>	<i>Garovaglia</i>	<i>Brotherella</i>	
	<i>Neolindbergia</i>	<i>Clastobryum</i>	

Checklist

- *Acanthocladium armitii* BROTH. & GEH. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar* 40:188. 1898.
= *Acroporium stramineum* (REINW. & HORNSCH.) M. FLEISCH.
- *Acanthocladium priodontella* BROTH. *Monsunia, Beiträge zur Kenntniss der Vegetation des Süd- und Ostasiatischen Monsungebietes* 1:177. 1900.
= *Trismegistia panduriformis* var. *priodontella* (BROTH.) AKIYAMA
- *Acanthocladium rigidum* (MITT.) BROTH. *Monsunia, Beiträge zur Kenntniss der Vegetation des Süd- und Ostasiatischen Monsungebietes* 1:51. 1899.
= *Trismegistia rigida* (MITT.) BROTH.
- *Acanthocladium uncinifolium* BROTH. *Monsunia, Beiträge zur Kenntniss der Vegetation des Süd- und Ostasiatischen Monsungebietes*. 1:176. 1900.
= *Mastopoma uncinifolium* (BROTH.) BROTH.
1. *Acanthorrhynchium papillatum* (HARV.) M. FLEISCH. *Die Musci der Flora von Buitenzorg*. Vierter Band. 1331. 1923.
Source: Schumm & Schwarz (Schwarz 4695)
2. *Achrophyllum javense* (DIXON EX J. FROEHL.) Z. IWATS., B.C. TAN & TOUW IN TOUW. *Journal of the Hattori Botanical Laboratory*. 44:149. 1978.
Sources: Linis 5032-11 (PNH) — Schwarz (Schwarz 3787) — TAN & IWATSUKI [1991]:7 — TAN & ROBINSON [1990]:5 Tan 82-232 (CAHP), Tan 82-330 (CAHP)
3. *Acroporium aciphyllum* DIXON. *Bulletin of the Torrey Botanical Club*. 51 (6):253. pl. 4, fig. 9. 1924.

- Source: TAN et al. [2015]:92 Shevock 44905 (CAS, CMUH, TNS, UC)
4. *Acroporium convolutum* var. *elatum* (DIXON) B.C. TAN. *Willdenowia*. 24:263. 1994.
Source: TAN et al. [2015]:92 Shevock 44994 (CAS, CMUH, UC)
5. *Acroporium diminutum* (BRID.) M. FLEISCH. Die Musci der Flora von Buitenzorg. Vierter Band. 1274. 1923.
Sources: Edaño 1202 (PNH) — Linis 4822-11 (PNH) — BARTRAM [1939]:332 Copeland 987 — BROTHERUS [1905]:10 Copeland 987 (as *Sematophyllum subulatum*)
6. *Acroporium hermaphroditum* (MÜLL. HAL.) M. FLEISCH. Die Musci der Flora von Buitenzorg. Vierter Band. 1292. 1923.
Sources: Edaño 1149 (PNH), Edaño 1480 (PNH) — BARTRAM [1939]:335 Williams 2661 — TAN [1994]:269 Copeland 1085 (H-BR) — TAN & IWATSUKI [1991]:7 — WILLIAMS [1914]:373 Williams 2661 (as *Sematophyllum hermaphroditum*)
- *Acroporium hyalinum* (REINW. EX SCHWÄGR.) MITT. *Journal of the Linnean Society. Botany*. 10:183. 1868.
= *Acroporium stramineum* (REINW. & HORNSCH.) M. FLEISCH.
- *Acroporium hyalinum* var. *hamulatum* (M. FLEISCH.) M.S. CHUA & B.C. HO. *Telopea. Journal of Plant Systematics*. 21:181. 2018.
= *Acroporium stramineum* var. *hamulatum* (M. FLEISCH.) B.C. TAN.
7. *Acroporium johannis-winkleri* BROTH. *Mitteilungen des Instituts für Allgemeine Botanik Hamburg*. 7:133. 1928.
Sources: TAN [1994]:270 Robbins 3967 (L) — TAN & MANDIA [2001]:318 — TAN & SHEVOCK [2014]:23 Shevock 44922 (CAS, CMUH, TNS), Shevock 45013 (CAS, CMUH, MO), Tan 2014-114 (CMUH, H, NY, UC)
8. *Acroporium lamprophyllum* MITT. *Journal of the Linnean Society. Botany*. 10:183. 1868.
Source: Linis 4992-11b (PNH)
9. *Acroporium secundum* (REINW. & HORNSCH.) M. FLEISCH. Die Musci der Flora von Buitenzorg. Vierter Band. 1283. 1923.
Source: Pancho 3663 (CAHP), Pancho 3924 (CAHP) — TAN & NOGUCHI [1984]:43 Setogawa 53 (HIRO 14470)
10. *Acroporium stramineum* (REINW. & HORNSCH.) M. FLEISCH. Die Musci der Flora von Buitenzorg. Vierter Band. 1301. 1923.
Sources: Linis 4844-11 (PNH as *Acroporium hyalinum*), Pancho 3713 (PNH as *Acroporium hyalinum*) — Schwarz (Schwarz 3759) — BARTRAM [1939]:337 Copeland — BROTHERUS [1905]:10 Copeland 1085 (as *Sematophyllum hyalinum*) — TAN & IWATSUKI [1991]:7
11. *Acroporium stramineum* var. *hamulatum* (M. FLEISCH.) B.C. TAN. *Willdenowia*. 24:285. 1994.
Source: Edaño 1387 (PNH as *Acroporium hyalinum* var. *hamulatum*)
12. *Acroporium stramineum* var. *turgidum* (MITT.) B.C. TAN. *Willdenowia*. 24:286. 1994.
Source: Schwarz (Schwarz 3763)

13. *Acroporium strepsiphylum* (MONT.) B.C. TAN IN TOUW. *Journal of the Hattori Botanical Laboratory*. 71:353. 1992.
Sources: Edaño 1193 (PNH), Linis 4833-11 (PNH), Linis 4886-11 (PNH), Linis 4949-11 (PNH), Linis 4960-11 (PNH), Pancho — TAN [1994]:289 Elmer 11660 (H-BR), Elmer 11691 (H-BR), Elmer 14108 (H-BR)
14. *Actinodontium rhapsidostegum* (MÜLL. HAL.) BOSCH & SANDE LAC. *Bryologia javanica*. Vol. 2. 37. pl. 160. 1862.
Source: TAN & ROBINSON [1990]:5 Tan 82-261 (CAHP)
15. *Aerobryidium crispifolium* (BROTH. & GEH.) M. FLEISCH. EX BROTH. *Die Natürlichen Pflanzenfamilien*. I. Teil. 3. Abteilung. II. Hälfte. 821. 1906.
Sources: Reynoso 2117-B (PNH), Reynoso 2106 (PNH), Reynoso 2140b (PNH) — Schumm & Schwarz (Schwarz 4351, Schwarz 4352)
16. *Aerobryidium filamentosum* (HOOK.) M. FLEISCH. EX BROTH. *Die Natürlichen Pflanzenfamilien*. I. Teil. 3. Abteilung. II. Hälfte. 821. 1906.
Sources: Linis 4880-11 (PNH), Linis 4914-11 (PNH) — Schumm & Schwarz (Schwarz 4602) — TAN & IWATSUKI [1991]:8
17. *Aerobryopsis longissima* (DOZY & MOLK.) M. FLEISCH. *Hedwigia*. 44:305. 1905.
Sources: Linis 4860-11 (PNH) — Reynoso 2139-B (PNH) — BARTRAM [1959]:279 Pancho 2600
- *Aerobryopsis wallichii* (BRID.) M. FLEISCH. *Die Musci der Flora von Buitenzorg*. Dritter Band. 789. 1908.
 ≡ *Pseudotrachypus wallichii* (BRID.) W.R. BUCK.
18. *Aerobryopsis subdivergens* subsp. *scariosa* (E.B. BARTRAM) NOG. *Journal of the Hattori Botanical Laboratory* 41: 301. 1976.
Sources: Linis 5800-22 (CAHP)
- *Aerobryopsis wallichii* (BRID.) M. FLEISCH. *Die Musci der Flora von Buitenzorg* 3:789. 1908.
 = *Pseudotrachypus wallichii* (BRID.) W.R. BUCK
19. *Aerobryum speciosum* DOZY & MOLK. *Nederlandsch Kruidkundig Archief*. 2(4):279. 1851.
Sources: Linis 4877-11 (PNH), Linis 5019-11 (PNH) — Schumm & Schwarz (Schwarz 4091, Schwarz 4575) — BARTRAM [1939]:232 Copeland 986 — BROTH. & GEH. [1905]:8 Copeland 986 — NOGUCHI [1976]:350 Copeland 986 (NY) — TAN & IWATSUKI [1991]:8 — TAN & NOGUCHI [1984]:45 Setogawa 52 (HIRO 14469) — WILLIAMS [1914]:357 Williams 2663
- *Aerobryum wallichii* (BRID.) MÜLL. HAL. *Linnaea*. 40:262. 1876.
 = *Pseudotrachypus wallichii* (BRID.) W.R. BUCK
- *Atractylocarpus comosus* DIXON. *Annales Bryologici*. 7:22. 1934.
 = *Atractylocarpus novoguineensis* (BROTH. & GEH.) D.H. NORRIS & T.J. KOP.
20. *Atractylocarpus novoguineensis* (BROTH. & GEH.) D.H. NORRIS & T.J. KOP. *Acta Botanica Fennica*. 139:21. 1990.
Sources: Linis 4990-11 (PNH) — Schwarz (Schwarz 3765 as *Atractylocarpus comosus*) —

- TAN et al. [2000]:28 Schwarz 3765 (SIN)
- *Barbella elongata* R.S. WILLIAMS. *Bulletin of the New York Botanical Garden*. 8 (31):356. 1914.
= *Neodicladiella pendula* (SULL.) W.R. BUCK.
- *Barbella enervis* (THWAITES & MITT.) M. FLEISCH. EX BROTH. Die Natürlichen Pflanzenfamilien. I. Teil. 3. Abteilung. II. Hälfte. 824. 1906.
= *Barbellopsis trichophora* (MONT.) W.R. BUCK.
21. *Barbella flagellifera* (CARDOT) NOG. *Journal of Japanese Botany*. 14:28. 1938.
Source: Meijer B4104 (PNH) — Reynoso 2124 (PNH) — Tan & Aguila 82-289 (CAHP)
22. *Barbellopsis trichophora* (MONT.) W.R. BUCK. *Memoirs of the New York Botanical Garden*. 82:265. 1998.
Source: Schumm & Schwarz (Schwarz 4605 as *Barbella enervis*)
23. *Barbula indica* (HOOK.) SPRENG. IN STEUD. *Nomenclator botanicus*. Band 2. 72. 1824.
Sources: Linis 5076-11 (PNH as *Hydrogonium orientale*), Linis 5819-22 (CAHP)
- *Barbula consanguinea* (THWAITES & MITT.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft 1877–78*: 409.
= *Hydrogonium consanguineum* (Thwaites & Mitt.) Hilp.
- *Barbula subcomosa* BROTH. *Hedwigia* 38: 211. 1899.
= *Hydrogonium subcomosum* (Broth.) P.C. Chen.
- *Brachymenium exile* (DOZY & MOLK.) BOSCH & SANDE LAC. *Bryologia Javanica* 1: 139. 1860.
= *Gemmabryum exile* (Dozy & Molk.) J.R. Spence & H.P. Ramsay.
24. *Brachymenium nepalense* HOOK. EX SCHWÄGR. *Species muscorum frondosorum*, Suppl. 2. Part 2 (2). 131. pl. 135. 1824.
Sources: Linis 4801-11 (PNH), Linis 4812-11 (PNH), Linis 4982-11 (PNH), Linis 4993-11 (PNH) — Reynoso 2125 (PNH), Reynoso 2137a (PNH), Tan & Aguila 82-304 (CAHP) — Schumm & Schwarz (Schwarz 4426, Schwarz 4663, Schwarz 4696, Schwarz 4697, Schwarz 6538) — BARTRAM [1939]:135 Copeland 1009 — BROTHERUS [1905]:5 Copeland 1099
25. *Brachythecium plumosum* (HEDW.) SCHIMP. IN BRUCH, SCHIMP. & W. GÜMBEL. *Bryologia Europaea*. Vol. 6. Fasc. 52-54. 8. 1853.
Sources: BARTRAM [1939]:299 Elmer 11556 — TAN & IWATSUKI [1991]:11
26. *Braunfelsia dicranoides* (DOZY & MOLK.) BROTH. Die Natürlichen Pflanzenfamilien. I. Teil. 3. Abteilung. II. Hälfte. 321. 1901.
Sources: BARTRAM [1939]:60 Elmer 11660 — TAN & IWATSUKI [1991]:11
27. *Braunfelsia edentula* (MITT.) WIJK & MARGAD. *Taxon*. 7:289. 1958.
Source: Linis 4913-11 (PNH)
28. *Braunfelsia enervis* (DOZY & MOLK.) PARIS. *Index Bryologicus*. 148. 1894.
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34. *Bryum billarderi* SCHWÄGR. *Species muscorum frondosorum, Suppl. 1. Part 2*. 115. pl. 76. 1816.
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Source: Linis 5068-11a (PNH as *Gemmabryum coronatum*)
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Sources: Edaño (L0622640), Edaño 1438 (PNH)
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Source: Robbins (L0093426)
- *Dicranoloma leucophyllum* (HAMPE EX SANDE LAC.) PARIS. Index bryologicus. Editio Secunda. 27. 1904.
 = *Dicranoloma brevisetum* (DOZY & MOLK.) PARIS.
- *Dicranoloma perarmatum* BROTH. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar*. 47 (14):1. 1905.
 = *Dicranoloma assimile* (HAMPE) PARIS.
99. *Dicranoloma reflexum* (MÜLL. HAL.) RENAULD. Essai sur les *Leucoloma*. 14. 1909.
Sources: Edaño 1241 (PNH) — Schumm & Schwarz (Schwarz 4362, Schwarz 4363, Schwarz 4440)
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- *Dicranum braunii* MÜLL. HAL. *Bryologia Javanica* 1:69. 57. 1858.
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100. *Distichophyllum catinifolium* J. FROEHL. *Annalen des Naturhistorischen Museums in Wien*. 59:98. 1953.
Sources: TAN & IWATSUKI [1991]:20 — TAN & NOGUCHI [1984]:45 Setogawa 47 (HIRO 14516 as *Distichophyllum hattori*)
101. *Distichophyllum cuspidatum* (DOZY & MOLK.) DOZY & MOLK. *Musci frondosi inediti archipelagi indici*. Fasc. 4. 101. pl. 33. 1846.
Sources: Williams 2672 (NY1185303) — BARTRAM [1939]:258 Williams 2672 — TAN & IWATSUKI [1991]:21 — WILLIAMS [1914]:361 Williams 2672
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102. *Distichophyllum kinabaluense* NOG. & Z. IWATS. *Journal of the Hattori Botanical Laboratory*. 36:474. fig. 4 e-l. 1972 [1973].
Sources: TAN & IWATSUKI [1991]:21 — TAN & ROBINSON [1990]:19 Williams 2672 (US)
103. *Distichophyllum mittenii* BOSCH & SANDE LAC. *Bryologia javanica*. Vol. 2. 25. pl. 149. 1861.
Sources: TAN & IWATSUKI [1991]:21 — TAN & NOGUCHI [1984]:45 Setogawa 90 (HIRO 14519)
104. *Distichophyllum osterwaldii* M. FLEISCH. *Die Musci der Flora von Buitenzorg*. 3: 994. 170 a–g. 1908.
Source: Tan & Aguila 82-284 (CAHP)
105. *Distichophyllum subnigricaule* BROTH. *The Philippine Journal of Science*. 31:289. 1926.
Source: Linis 4831-11 (PNH)
106. *Distichophyllum tortile* DOZY & MOLK. EX BOSCH & SANDE LAC. *Bryologia javanica*. Vol. 2. 27. pl. 152. 1862.
Sources: Robbins (L0835582, L0835583, L0835584, L0835585)
107. *Ditrichum difficile* (DUBY) M. FLEISCH. *Die Musci der Flora von Buitenzorg*. Erster Band. 300. 1904.
Sources: Linis 5022-11 (PNH) — Schwarz (Schwarz 3757, Schwarz 4838) — TAN & SHEVOCK [2014]:24 Shevock 44978 (CAS, CMUH, MO), Tan 2014-122A (CAS, CMUH, NY, UC), Tan 2014-202 (CAS, CMUH, H, UC)
108. *Duthiella flaccida* (CARDOT) BROTH. *Die Natürlichen Pflanzenfamilien*. I. Teil. 3. Abteilung. II. Hälfte. 1010. 1908.
Source: Deguilla & Apolinario (PNH)
109. *Ectropothecium buitenzorgi* (BÉL.) MITT. *Journal of the Linnean Society. Botany*. 10:180. 1868.
Sources: Linis 4828-11b (PNH), Linis 4963-11 (PNH), Linis 4976-11 (PNH), Tan & Aguila 82-305 (CAHUP) — Schumm & Schwarz (Schwarz 4364)

110. *Ectropothecium cyperoides* (HOOK. EX HARV.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:259. 1879.
Source: BROTH. [1905]:11 Copeland 979
111. *Ectropothecium elegantipinnatum* (MÜLL. HAL.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:262. 1880.
Sources: Edaño 1003 (PNH), Edaño 1150 (PNH), Edaño 1183b (PNH)
112. *Ectropothecium falciforme* (DOZY & MOLK.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:258. 1879.
Sources: Elmer (L0622509, L0935131, U0282955), Elmer 10004 (PNH) — Pancho 2596 (PNH), Pancho 3795 (PNH) — Penecilla (PNH) — Linis 4823-11 (PNH), Linis 4962-11a (PNH) — Robbins (L0935130, L0935169) — Schumm & Schwarz (Schwarz 4540)
113. *Ectropothecium ferrugineum* (MÜLL. HAL.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:262. 1879.
Sources: ; Edaño 1003 (PNH), Edaño 1150 (PNH) — Linis 5767-22a (CAHP), Linis 5805-22 (CAHP) — Schumm & Schwarz (Schwarz 4542)
114. *Ectropothecium intorquatum* (DOZY & MOLK.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:257. 1880.
Source: Robbins (L0934906)
115. *Ectropothecium monumentorum* (DUBY) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:259. 1879.
Source: Reynoso 2086 (PNH)
116. *Ectropothecium perminutum* BROTH. EX E.B. BARTRAM. *Philippine Journal of Science*. 68:459. pl 27, fig. 459. 1939.
Source: Reynoso 2113 (PNH)
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 = *Vesicularia reticulata* ((DOZY & MOLK.) A. JAEGER.
117. *Ectropothecium pseudocyperoides* M.FLEISCH. *Hedwigia*. 44:326. 1905.
Sources: LINIS [2019]:5 Linis 4825-11 (DLSUH, PNH), Linis 5010-11 (DLSUH, PNH), Tan & Aguila 82-285B (CAHP)
- *Ectropothecium ptychofolium* N. NISHIM. *Bulletin of the National Science Museum Series B (Botany)*. 10:154. 1984.
 = *Neoptychophyllum borneense* (BROTH.) S. HE.
118. *Ectropothecium zollingeri* (MÜLL. HAL.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:272. 1879.
Sources: Linis 4827-11b (PNH), Linis 4929-11 (PNH), Linis 4830-11 (PNH), Linis 5761-22 (CAHP), Linis 5765-22 (CAHP), Linis 5773-22 — SHEVOCK & YORONG [2018]:69 Shevock & Tan 45089 (CAS, CMUH, UC) — Tan & Aguila 82-335 (CAHP)

- *Entodon longidens* BROTH. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar*. 47 (14):8. 1905.
= *Entodon plicatus* MÜLL. HAL.
119. *Entodon plicatus* MÜLL. HAL. *Linnaea*. 18:706. 1845.
Sources: Collector unknown 11771 (NY1256768 as *Entodon longidens*) — Shevock 44999 (NY2429496) — Williams 2651 (NY1256766 as *Entodon longidens*) — BARTRAM [1939]:309 Copeland 978, Williams 2651 — BROTHERUS [1905]:9 Copeland 978 (as *Entodon longidens*) — WILLIAMS [1914]:360 Williams 2651 (as *Entodon longidens*)
120. *Entosthodon buseanus* DOZY & MOLK. *Bryologia javanica*. Vol. 1. 31. pl. 22, fig. 1-23. 1855.
Sources: Schwarz (Schwarz 3814, Schwarz 3815)
121. *Ephemeropsis tjibodensis* K.I. GOEBEL. *Flora*. 76:116. fig. 50. 1892.
Sources: Linis 4985-11 (PNH) — Warburg (NY)
122. *Epipterygium tozeri* (GREV.) LINDB. *Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar*. 21 (10):577. 1864 [1865].
Sources: Linis 4909-11 (PNH) — TAN & IWATSUKI [1991]:23
123. *Erythrodontium julaceum* (HOOK. EX SCHWÄGR.) PARIS. *Index Bryologicus*. 436. 1896.
Sources: Linis 5780-22 (CAHP), Linis 5789-22 (CAHP), Linis 5793-22 (CAHP), Linis 5808-22a (CAHP), Linis 5812-22 (CAHP) — Pancho 3802 (CAHP, PNH) — Reynoso 2120a (PNH) — Schumm & Schwarz (Schwarz 4456, Schwarz 4986, Schwarz 5011, Schwarz 5027) — BARTRAM [1939]:305 Williams 2653 — MAJESTYK [2009] Williams 2653 (NY) — WILLIAMS [1914]:361 Williams 2653 (as *Erythrodontium squarrulosum*)
- *Erythrodontium squarrulosum* (MONT.) PARIS. *Index Bryologicus*. 437. 1896.
= *Erythrodontium julaceum* (HOOK. EX SCHWÄGR.) PARIS.
124. *Euptychium setigerum* (SULL.) BROTH. *Die Natürlichen Pflanzenfamilien*. I(3): 786. 1906.
Sources: Tan & Aguila 82-291 (CAHP)
125. *Eurhynchium asperisetum* (MÜLL. HAL.) E.B. BARTRAM. *Philippine Journal of Science*. 68:300. 1939.
Sources: Linis 4932-11 (PNH), Linis 4995-11 (PNH), Linis 4997-11 (PNH), Linis 5005-11 (PNH), Linis 5807-22 (CAHP) — Tan & Aguila 82-292 (CAHP), Tan & Aguila 82-295 (CAHP), Tan & Aguila 82-334B (CAHP)
- *Eurhynchium celebicum* (SANDE LAC.) E.B. BARTRAM. *Bernice P. Bishop Museum Bulletin*. 101:217. fig. 161. 1933.
≡ *Rhynchostegium celebicum* (SANDE LAC.) A. JAEGER.
126. *Exostratum blumii* (NEES EX HAMPE) L.T. ELLIS. *Lindbergia*. 11:25. 1985.
Sources: Schumm & Schwarz (Schwarz 4635, Schwarz 4638)
127. *Exostratum sullivantii* (DOZY & MOLK.) L.T. ELLIS. *Lindbergia*. 11:29. 1985.
Sources: Schumm & Schwarz (Schwarz 4400, Schwarz 4635, Schwarz 4638, Schwarz 4673)

128. *Fissidens anomalus* MONT. *Annales des Sciences Naturelles, Botanique, Sér. 2.* 17:252. 1842.
Sources: Schumm & Schwarz (Schwarz 4367, Schwarz 4368)
- *Fissidens areolatus* GRIFF. *Calcutta journal of natural history.* 2:506. 1842.
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129. *Fissidens braunii* (MÜLL. HAL.) DOZY & MOLK. *Bryologia javanica.* Vol. 1. 1. 1854.
Source: Linis 5028-11 (PNH)
130. *Fissidens ceylonensis* DOZY & MOLK. *Muscorum frondosorum novae species ex archipelago indico et Japonica.* 304. 1844.
Source: Linis 5069-11 (PNH)
131. *Fissidens crispulus* BRID. *Muscologia recentiorum.* Suppl. 4. 187. 1818 [1819].
Sources: Linis 4863-11 (PNH), Linis 5063-11 (PNH), Linis 5816-22 (CAHP) — Pancho 3895 (PNH) — Reynoso 2122a (PNH) — Schumm & Schwarz (Schwarz 4442 as *Fissidens zippelianus*, Schwarz 4443 as *Fissidens zippelianus*, Schwarz 4444 as *Fissidens zippelianus*, Schwarz 4546 as *Fissidens zippelianus*)
132. *Fissidens crispulus* var. *robinsonii* (BROTH.) Z. IWATS. & Z.H. LI. *Moss Flora of China,* English version 2: 26. 2001.
Source: Linis 5809-22 (CAHP as *Fissidens robinsonii*)
133. *Fissidens ganguleei* NORK. EX GANGULEE. *Mosses of Eastern India and adjacent regions.* Fasc. 2. 527. 1971.
Sources: TAN & SHEVOCK [2014]:25 Tan 2014-184 (CMUH, H, NY, UC)
134. *Fissidens hyalinus* HOOK. & WILSON. *Journal of Botany, being a second series of the Botanical Miscellany.* 3:89. tab. 2. 1840.
Sources: TAN & SHEVOCK [2014]:25 Tan 2014-170A (CMUH, UC)
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Source: Linis 4878-11 (PNH)
136. *Fissidens nobilis* GRIFF. *Calcutta journal of natural history.* 2:505. 1842.
Source: Schumm & Schwarz (Schwarz 4671)
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Sources: TAN & SHEVOCK [2014]:25 Tan 2014-120 (CAS, CMUH, H, UC), Tan 2014-179 (CMUH, NY, UC)
138. *Fissidens pellucidus* HORNSCH. *Linnaea.* 15:146. 1841.
Sources: SHEVOCK & YORONG [2018]:69 Shevock & Tan 45102 (CAS, CMUH, UC)
139. *Fissidens polypodioides* HEDW. *Species muscorum frondosorum.* 154. 1801.
Sources: Linis 4904-11 (PNH as *Fissidens areolatus*), Linis 4911-11 (PNH as *Fissidens areolatus*), Linis 4936-11 (PNH as *Fissidens areolatus*)

- *Fissidens robinsonii* Broth. *The Philippine Journal of Science. Section C, Botany* 13: 204. 1918.
= *Fissidens crispulus* var. *robinsonii* (BROTH.) Z. IWATS. & Z.H. LI.
140. *Fissidens taxifolius* HEDW. *Species muscorum frondosorum*. 155. pl. 39, fig. 1-5. 1801.
Source: SHEVOCK & YORONG [2018]:70 Shevock 44976 (CAS, CMUH, UC)
- *Fissidens zippelianus* DOZY & MOLK. *Systematisches Verzeichniss der im indischen Archipel*. 29. 1854.
= *Fissidens crispulus* BRID.
141. *Fissidens zollingeri* MONT. *Annales des Sciences Naturelles, Botanique, Sér. 3.* 4:114. 1845.
Sources: Schumm & Schwarz (Schwarz 4441, Schwarz 4545)
142. *Fleischerobryum macrophyllum* BROTH. *The Philippine Journal of Science*. 31:285. 1926.
Source: TAN & IWATSUKI [1991]:25
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= *Trachycladiella aurea* (MITT.) M. MENZEL IN M. MENZEL & W. SCHULTZE-MOTEL.
143. *Floribundaria floribunda* (DOZY & MOLK.) M. FLEISCH. *Hedwigia*. 44:302. 1905.
Sources: Linis 4797-11 (PNH), Linis 5046-11 (PNH), Linis 5769-22a (CAHP) — Reynoso 2140a (PNH) — Robbins (L0067424) — Schumm & Schwarz (Schwarz 4516, Schwarz 4577, Schwarz 4948) — Tan & Aguila 82-303 (CAHP)
144. *Floribundaria pseudofloribunda* M. FLEISCH. *Die Musci der Flora von Buitenzorg. Dritter Band.* 822. 1908.
Sources: Linis 5771-22b (CAHP), 5797-22 (CAHP) — NOGUCHI [1976]:275 Williams (NY) — TAN & IWATSUKI [1991]:25
- *Floribundaria sparsa* (MITT.) BROTH. *Die Natürlichen Pflanzenfamilien. I. Teil. 3. Abteilung. II. Hälfte.* 822. 1906.
= *Trachycladiella sparsa* (MITT.) M. MENZEL IN M. MENZEL & W. SCHULTZE-MOTEL.
- *Floribundaria sparsa* var. *pilifera* (NOG.) NOG. *Journal of the Hattori Botanical Laboratory*. 28:151. 1965.
= *Trachycladiella sparsa* (MITT.) M. MENZEL IN M. MENZEL & W. SCHULTZE-MOTEL.
145. *Floribundaria thuidioides* M. FLEISCH. *Die Musci der Flora von Buitenzorg. Dritter Band.* 824. 1908.
Sources: BARTRAM [1939]:225 Williams 2671 — TAN & IWATSUKI [1991]:25 — WILLIAMS [1914]:356 Williams 2671
146. *Floribundaria walkeri* (RENAULD & CARDOT) BROTH. *Die Natürlichen Pflanzenfamilien. I. Teil. 3. Abteilung. II. Hälfte.* 822. 1906.
Sources: Linis 4939-11 (PNH), Linis 4942-11 (PNH)
147. *Funaria hygrometrica* HEDW. *Species muscorum frondosorum*. 172. 1801.
Sources: Schwarz (Schwarz 3810, Schwarz 3811)

148. *Garckea flexuosa* (GRIFF.) MARGAD. & NORK. *Journal of Bryology*. 7:440. 1973.
Source: Linis 4811-11b (PNH)
149. *Garovaglia baeuerlenii* (GEH.) PARIS. *Index Bryologicus*. 508. 1896.
Sources: TAN et al. [2017]:19 Azuelo et al. 778 (CMUH, UC)
150. *Garovaglia elegans* (DOZY & MOLK.) HAMPE EX BOSCH & SANDE LAC. *Bryologia javanica*. Vol. 2. 81. 1863.
Sources: Linis 4839-11 (PNH), 5779-22a (CAHP) — Tan & Aguila 82-320 (CAHP) — Shevock 45048 (NY2342400)
151. *Garovaglia plicata* (BRID.) BOSCH & SANDE LAC. *Bryologia javanica*. Vol. 2. 79. 1863.
Sources: BARTRAM [1939]:208 Williams 2674 — TAN & IWATSUKI [1991]:26 — WILLIAMS [1914]:352 Williams 2674
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 = *Bryum coronatum* SCHWÄGR.
152. *Gemmabryum exile* (DOZY & MOLK.) J.R. SPENCE & H.P. RAMSAY. *Phytologia* 87(2): 67. 2005.
Source: Linis 5806-22a (CAHP)
153. *Glyphothecium sciuroides* (HOOK.) HAMPE. *Linnaea*. 30:637. 1859.
Source: Linis 4981-11 (PNH)
154. *Groutiella tomentosa* (HORNSCH.) WIJK & MARGAD. *Taxon*. 9:51. 1960.
Sources: Linis 4981-11 (PNH), Linis 5045-11 (PNH) — Pancho 3827 (PNH), Pancho 3854 (PNH) — Reynoso 2139-A (PNH) — Schumm & Schwarz (Schwarz 4456, Schwarz 4457, Schwarz 4458)
155. *Hampeella pallens* (SANDE LAC.) M. FLEISCH. *Die Musci der Flora von Buitenzorg*. Dritter Band. 664. 1908.
Source: TAN et al. [2015]:94 Shevock 44940 (CAS, CMUH, TNS, UC)
156. *Himantocladium cyclophyllum* (MÜLL. HAL.) M. FLEISCH. *Die Musci der Flora von Buitenzorg*. Dritter Band. 887. 1908.
Source: BARTRAM [1939]:242 Weber 1476
- *Himantocladium nanum* R.S. WILLIAMS. *Bulletin of the New York Botanical Garden*. 8 (31):359. 1914.
 = *Pinnatella kuehliana* (BOSCH & SANDE LAC.) M. FLEISCH.
- *Himantocladium warburgii* (BROTH.) M. FLEISCH. *Die Musci der Flora von Buitenzorg*. Dritter Band. 892. 1908.
 = *Taiwanobryopsis warburgii* (BROTH.) ENROTH.
157. *Holomitrium stenobasis* DIXON. *Annales Bryologici*. 7:20. 1934.
Sources: Schwarz (Schwarz 3764) — TAN et al. [2000]:30 Schwarz 3764 (SIN)

- *Homalia scalpellifolia* (MITT.) BOSCH & SANDE LAC. *Bryologia Javanica*. 2:60. 180. 1863.
≡ *Homali dendron flabellatum* (SM.) M. FLEISCH.
158. *Homali dendron flabellatum* (SM.) M. FLEISCH. *Hedwigia*. 45:74. 1906.
Sources: Edaño 1170 (PNH), Edaño 1186b (PNH) — Linis 4869-11 (PNH), Linis 4934-11 (PNH), Linis 4969-11 (PNH), Linis 5016-11 (PNH) — Pancho 3782 (PNH), Pancho 3804 (PNH), Pancho 3815 (PNH), Pancho 3914 (PNH), Pancho 3919 (PNH) — Schumm & Schwarz (Schwarz 4377, Schwarz 4378, Schwarz 4561, Schwarz 4624) — Schwarz (Schwarz 3786, Schwarz 3792, Schwarz 3800, Schwarz 3801) — BROTH. [1900a]:49 Warburg (as *Homalia scalpellifolia*) — TAN & NOGUCHI [1984]:47 Setogawa 86 (HIRO 14501) — WILLIAMS [1914]:359 Williams 2666
159. *Homali dendron ligulifolium* (MITT.) M. FLEISCH. *Hedwigia*. 45:77. 1906.
Source: TAN & NOGUCHI [1984]:47 Setogawa 52 & 103 (HIRO 14484)
160. *Homali dendron pinnatelloides* HERZOG. *Hedwigia*. 61:296. pl.3 fig. A. 1920.
Sources: TAN & IWATSUKI [1991]:28 — TAN & NOGUCHI [1984]:47 Setogawa 88 (HIRO 14504)
161. *Homali dendron scalpellifolium* (MITT.) M. FLEISCH. *Hedwigia*. 45:75. 1906.
Source: Shevock 44987 (NY2444287)
162. *Hookeria acutifolia* HOOK. & GREV. *Edinburgh Journal of Science*. 2:225. pl. 5 [upper left]. 1825.
Sources: TAN & IWATSUKI [1991]:28 — TAN & ROBINSON [1990]:24 Tan 82-246 (CAHP)
- *Hookeria blumeana* MÜLL. HAL. Synopsis Muscorum Frondosorum omnium hucusque Cognitorum 2. 676. 1851.
≡ *Cyclodictyon blumeanum* (MÜLL. HAL.) KUNTZE.
163. *Hookeriopsis geminidens* BROTH. *The Philippine Journal of Science. Section C, Botany*. 5: 156. 1910.
Source: Tan & Aguila 82-325 (CAHP)
164. *Hydrogonium consanguineum* (THWAITES & MITT.) HILP. *Beihefte zum Botanischen Centralblatt*. 50:626. 1933.
Sources: Linis 5061-11 (PNH), Linis 5804-22 (CAHP) — Valerio 179 (PNH)
- *Hydrogonium orientale* (F. WEBER) KUCERA. *Taxon*. 62(1):35. 2013.
= *Barbula indica* (HOOK.) SPRENG. IN STEUD.
- *Hydrogonium subcomosum* (BROTH.) P.C. CHEN. *Hedwigia* 80: 236. 1941.
= *Barbula subcomosa* BROTH.
165. *Hymenodon angustifolius* SANDE LAC. Species novae vel ineditae muscorum achipelagi indici. 8. pl. 3, fig. B. 1872.
Sources: Linis 4807-11 (PNH), Linis 4935-11 (PNH) — Pancho 3803 (PNH), Pancho 3911 (PNH) — TAN & IWATSUKI [1991]:28
166. *Hymenodon sericeus* (DOZY & MOLK.) MÜLL. HAL. *Botanische Zeitung (Berlin)*. 5:803. 1847.

Sources: Schumm & Schwarz (Schwarz 4562, Schwarz 4640)

167. *Hymenostylium recurvirostrum* (HEDW.) DIXON. *Revue Bryologique et Lichénologique*. 6:96. 1933 [1934].

Source: Pancho 3897 (PNH)

168. *Hyophila involuta* (HOOK.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1871-72:354. 1873.

Sources: Linis 4796-11 (PNH), Linis 5058-11 (PNH), Linis 5068-11a (PNH), Linis 5796-22 (CAHP) — Schumm & Schwarz (Schwarz 4473)

169. *Hyophila nymaniana* (M. FLEISCH.) M. MENZEL. *Willdenowia* 22: 198. 1992.

Source: Linis 5818-22 (CAHP as *Hyophila rosea*)

— *Hyophila rosea* R. S. Williams. *Philippine Mosses* 341. 1914.

= *Hyophila nymaniana* (M. FLEISCH.) M. MENZEL

— *Hypnodendron arborescens* (MITT.) LINDB. *Bryologica Javanica* 2: 133. 232. 1865.

= *Dendro-hypnum subspininervium* subsp. *arborescens* (MITT.) N.E. BELL, A.E. NEWTON & D. QUANDT

— *Hypnodendron copelandii* BROTH. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar*. 47 (14):11. 1905.

= *Touwiodendron diversifolium* (BROTH. & GEH.) N.E. Bell, A.E. NEWTON & D. QUANDT

— *Hypnodendron dendroides* (BRID.) TOUW. *Blumea*. 19:320. 1971.

= *Mniodendron dendroides* (BRID.) WIJK. & MARGAD.

— *Hypnodendron diversifolium* BROTH. & GEH. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar*. 40:191. 1898.

= *Touwiodendron diversifolium* (BROTH. & GEH.) N.E. Bell, A.E. NEWTON & D. QUANDT

— *Hypnodendron fuscomucronatum* (MÜLL. HAL.) A. JAEGER & SAUERB. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:360. 1880.

= *Dendro-hypnum fuscomucronatum* (MÜLL. HAL.) N.E. BELL, A.E. NEWTON & D. QUANDT.

170. *Hypnodendron junghuhnii* (MÜLL. HAL.) A. JAEGER & SAUERB. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:358. 1879.

Sources: Linis 4884-11 (PNH) — TAN & IWATSUKI [1991]:29 — TOUW [1971]:288 Edaño 1156 (PNH), Edaño PNH 1156 (GRO, PNH)

— *Hypnodendron milnei* subsp. *korthalsii* (BOSCH & SANDE LAC.) TOUW. *Blumea*. 19:302. 1971.

= *Dendro-hypnum milnei* subsp. *korthalsii* (BOSCH & SANDE LAC.) N.E. BELL, A.E. NEWTON & D. QUANDT

— *Hypnodendron reinwardtii* (SCHWÄGR.) LINDB. EX A. JAEGER & SAUERB. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1877-78:358. 1880.

= *Dendro-hypnum reinwardtii* (SCHWÄGR.) N.E. BELL, A.E. NEWTON & D. QUANDT

- *Hypnodendron reinwardtii* subsp. *caudicifolium* (HERZ.) TOUW. *Blumea*. 19:245. 1971.
= *Dendro-hypnum reinwardtii* subsp. *caducifolium* (HERZ.) N.E. BELL, A.E. NEWTON & D. QUANDT
- *Hypnodendron subspininervium* subsp. *arborescens* (MITT.) TOUW. *Blumea*. 19:237. 1971.
= *Dendro-hypnum subspininervium* subsp. *arborescens* (MITT.) N.E. BELL, A.E. NEWTON & D. QUANDT
171. *Hypnodendron vitiense* MITT. IN SEEM. *Flora Vitiensis*. 401. 1873.
Sources: Edaño (PNH), Edaño 1156 (PNH) — Liinis 4815-11 (PNH), Linis 4937-11 (PNH) — Robbids 3979 (L) — BARTRAM [1939]:154 Williams 3169 — TAN & IWATSUKI [1991]:30 — TOUW [1971]:283 Mearns (BM, NY, US) — WILLIAMS [1914]:376 Williams 3169 (FH, H, NY, US)
- *Hypopterygium delicatulum* BROTH. *Leaflets of Philippine Botany*. 2:656. 1909.
= *Hypopterygium flavolimbatum* MÜLL. HAL.
172. *Hypopterygium flavolimbatum* MÜLL. HAL. *Synopsis Muscorum Frondosorum omnium hucusque Cognitorum* 2. 10. 1851.
Source: Schwarz (Schwarz 3780 as *Hypopterygium delicatulum*)
- *Hypopterygium javanicum* (HAMPE) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1874-75:150. 1876.
= *Lopidium struthiopteris* (BRID.) M. FLEISCH.
- *Hypopterygium struthiopteris* BRID. *Bryologia universa*. Vol. 2. 716. 1827.
= *Lopidium struthiopteris* (BRID.) M. FLEISCH.
173. *Hypopterygium tamarisci* (SW.) BRID. EX MÜLL. HAL. *Synopsis Muscorum Frondosorum omnium hucusque Cognitorum* 2. 8. 1851.
Source: Tan & Aguila 82-300 (CAHP) — TAN & IWATSUKI [1991]:30 (as *Hypopterygium tenellum*)
- *Hypopterygium tenellum* MÜLL. HAL. *Botanische Zeitung (Berlin)*. 12:557. 1854.
= *Hypopterygium tamarisci* (SW.) BRID. EX MÜLL. HAL.
174. *Hypopterygium vriesei* BOSCH & SANDE LAC. *Bryologia javanica*. Vol. 2. 11. pl. 148. 1861.
Sources: KRUIJER [2002] van Zanten 80.01.723 (GRO), van Zanten 80.01.728B (GRO)
175. *Isopterygium albescens* (HOOK.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft* 1876-77: 433. 1878.
Source: Tan & Aguila 82-283 (CAHP)
176. *Isopterygium bancanum* (SANDE LAC.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1876-77:442. 1878.
Source: Linis 4826-11a (PNH)
177. *Isopterygium minutirameum* (MÜLL. HAL.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1876-77:434. 1878.
Sources: Linis 4856-11 (PNH) — Reynoso 2101 (PNH)

178. *Isopterygium saxense* R.S. WILLIAMS. *Philippine Mosses* 369. 1914.
Source: Linis 5762-22 (PNH)
179. *Isothecium trichocladon* (DOZY & MOLK.) M. FLEISCH. *Die Musci der Flora von Buitenzorg. Dritter Band.* 939. 1908.
Sources: Elmer 11668 (PNH) — TAN & IWATSUKI [1991]:31 — TAN & NOGUCHI [1984]:47 Setogawa 24 (HIRO 14465)
180. *Leptodontium flexifolium* (DICKS.) HAMPE EX LINDB. *Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar.* 21:227. 1864.
Source: LINIS [2019]:6 Linis 4967-11 (PNH)
181. *Leucobryum aduncum* DOZY & MOLK. *Plantae junghuhnianae. Part 3.* 319. 1854.
Sources: Linis 4805-11 (PNH), Linis 4842-11 (PNH), Linis 4922-11 (PNH), Linis 5041-11a (PNH), Linis 5054-11 (PNH) — Pancho 3720 (PNH) — Schumm & Schwarz (Schwarz 4395, Schwarz 4398, Schwarz 4637), Tan & Aguila 82-338B (CAHP)
182. *Leucobryum bowringii* MITT. *Journal of the proceedings of the Linnean Society. Botany.* Suppl. 1:26. 1859.
Source: Edaño 1196a (PNH)
183. *Leucobryum candidum* (BRID. EX P. BEAUV.) WILSON. *Flora novae-zelandiae. Part 2.* 64. 1854.
Source: Linis 4950-11 (PNH)
184. *Leucobryum chlorophyllosum* MÜLL. HAL. *Synopsis Muscorum Frondosorum omnium hucusque Cognitorum* 2. 535. 1851.
Sources: Linis 4806-11 (PNH) — Pancho 3843 (PNH)
185. *Leucobryum holleanum* DOZY & MOLK. *Bryologia javanica. Vol. 1.* 17. 1855.
Sources: Schumm & Schwarz (Schwarz 4397, Schwarz 4399, Schwarz 4634, Schwarz 4636)
186. *Leucobryum javense* (BRID.) MITT. *Journal of the proceedings of the Linnean Society. Botany. Suppl.* 1:25. 1859.
Sources: Edaño 1200 (PNH), Edaño 1234 (PNH), Edaño 1237b (PNH) — Linis 4954-11 (PNH), Linis 5038-11 (PNH), Linis 5050-11 (PNH) — Schumm & Schwarz (Schwarz 4396) — BARTRAM [1939]:68 Elmer 11664 — BROTHERUS [1900a]:43 Warburg — TAN & NOGUCHI [1984]:47 Setogawa 67 (HIRO 14517)
187. *Leucobryum javense* var. *cyathifolium* (DIXON) T. YAMAG. *Journal of the Hattori Botanical Laboratory.* 73:28. 1993.
Sources: Schwarz (Schwarz 3802, Schwarz 3804, Schwarz 3805, Schwarz 3806, Schwarz 3809)
188. *Leucobryum juniperoideum* (BRID.) MÜLL. HAL. *Linnaea.* 18:689. 1845.
Sources: Linis 4961-11 (PNH) — TAN & IWATSUKI [1991]:31
189. *Leucobryum scabrum* SANDE LAC. *Annales Museum Botanicum Lugduno-Batavi.* 2:292. 1866.
Sources: Schwarz (Schwarz 3808) — TAN & IWATSUKI [1991]:32 — TAN & NOGUCHI

[1984]:47 Setogawa 70 (HIRO 14477)

190. *Leucobryum sumatranum* BROTH. EX M. FLEISCH. Die Musci der Flora von Buitenzorg. Erster Band. 149. 1904.
Sources: Linis 4819-11 (PNH) — LINIS [2019]:6 Linis 4819-11 (DLSUH, PNH)
191. *Leucoloma molle* (MÜLL. HAL.) MITT. *Journal of the proceedings of the Linnean Society. Botany. Suppl.* 1:13. 1859.
Sources: Linis 4848-11 (PNH) — Schumm & Schwarz (Schwarz 4609) — TAN & IWATSUKI [1991]:32 — TAN & NOGUCHI [1984]:47 Setogawa 39 (HIRO 14466)
192. *Leucophanes angustifolium* RENAULD & CARDOT EX RENAULD. *Revue de Botanique, Bulletin Mensuel.* 9:395. 1891.
Source: Linis 4867-11 (PNH)
193. *Leucophanes candidum* (SCHWÄGR.) LINDB. *Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar.* 21:602. 1865.
Sources: Linis 4851-11 (PNH) — Shevock 45082 (NY2710027)
194. *Leucophanes glaucum* (SCHWÄGR.) MITT. *Journal of the proceedings of the Linnean Society. Botany. Suppl.* 1:25. 1859.
Source: Linis 5042-11 (PNH)
195. *Leucophanes octoblepharioides* BRID. *Bryologia universa.* Vol. 1 (2). 763. 1827.
Sources: ; Linis 5791-22b (CAHP), Linis 5792-22 (CAHP) — Schumm & Schwarz (Schwarz 4638) — TAN & IWATSUKI [1991]:32 — TAN & NOGUCHI [1984]:47 Setogawa 44 (HIRO 14454)
196. *Lopidium struthiopteris* (BRID.) M. FLEISCH. Die Musci der Flora von Buitenzorg. Dritter Band. 1073. 1908.
Sources: Edaño 1180 (PNH), Edaño 1568 (PNH) — Elmer (L0471871) — Linis 4887-11 (PNH), Linis 4918-11 (PNH) — Robbins (L0471978, L0471979, L0471980, L0471981) — Schumm & Schwarz (Schwarz 4387, Schwarz 4388, Schwarz 4402, Schwarz 4569, Schwarz 4680) — Schwarz (Schwarz 3781) — BARTRAM [1939]:278 Elmer 11409 (as *Hypopterygium javanicum*), — BROTHERUS [1900a]:53 Warburg (as *Hypopterygium javanicum*) — Weber 1476a (as *Hypopterygium javanicum*), Williams 2657 (as *Hypopterygium javanicum*) — KRUIJER [2002]:281 Edaño (GRO, L, PNH 12950), Elmer 11409 (BM, FH, HBG, NY, U, W), van Zanten (GRO), van Zanten 81.02.1801 (GRO) — TAN & IWATSUKI [1991]:33 — TAN & NOGUCHI [1984]:50 Setogawa 82 (HIRO 14481) — WILLIAMS [1914]:362 Williams 2657 (as *Hypopterygium struthiopteris*)
197. *Macrohymenium muelleri* DOZY & MOLK. Musci frondosi inediti archipelagi indici. Fasc. 6. 168. pl. 55. 1848.
Sources: TAN & SHEVOCK [2014]:26 Shevock & Tan 45159 (CAS, CMUH, NY, UC)
198. *Macrohymenium strictum* BOSCH & SANDE LAC. *Bryologia javanica.* Vol. 2. 114. 1865.
Sources: BARTRAM [1939]:353 Williams 2675 — TAN & IWATSUKI [1991]:33 — WILLIAMS [1914]:373 Williams 2675
199. *Macromitrium angustifolium* DOZY & MOLK. *Annales des Sciences Naturelles, Botanique, Sér. 3.* 2:311. 1844.

Sources: Edaño 1197b (PNH) — Pancho 3832 (CAHP, PNH) — Reynoso 2123 (PNH) — Schumm & Schwarz (Schwarz 4642)

Macromitrium apoense THÉR. nom. herbariorum

— *Macromitrium assimile* BROTH. *Leaflets of Philippine Botany*. 6:1978. 1913.
= *Macromitrium blumei* NEES EX SCHWÄGR.

200. ***Macromitrium blumei*** NEES EX SCHWÄGR. *Species Muscorum Frondosorum*, Suppl. 4. 316 B. 1842.

Sources: Linis 4947-11 (PNH), Linis 5036-11 (PNH) — Pancho 3764 (PNH), Pancho 3883 (PNH) — BARTRAM [1939]:176 Elmer 11663, Elmer 11792 — BROTHERUS [1913b]:1978 Elmer 11663 (as *Macromitrium assimile*) — TAN & IWATSUKI [1991]:33 — TAN & SHEVOCK [2015]:549

201. ***Macromitrium cuspidatum*** var. *gracile* DIXON EX E.B. BARTRAM. *Philippine Journal of Science*. 68:180. 1939.

Source: Linis 4835-11 (PNH)

202. ***Macromitrium fasciculare*** MITT. *Journal of the proceedings of the Linnean Society. Botany*. Suppl. 1:51. 1859.

Sources: Pancho 3710 (PNH), Pancho 3725 (PNH), Pancho 3884 (PNH)

— *Macromitrium goniostomum* BROTH. *The Philippine Journal of Science, C. Botany*. 5:145. 1910.

= *Macromitrium macrosporum* BROTH.

203. ***Macromitrium incurvifolium*** (HOOK. & GREV.) SCHWÄGR. *Species Muscorum Frondosorum*, Supplementum Secundum 2(2):144. 1827.

Source: Linis 5786-22 (CAHP) — Robbins 3998 (PNH as *Macromitrium foxworthyi*)

204. ***Macromitrium longicaule*** MÜLL. HAL. *Synopsis Muscorum Frondosorum omnium hucusque cognitorum. Pars Prima*. 742. 1849.

Sources: Pancho 3808 (PNH) — Schumm & Schwarz (Schwarz 4641, Schwarz 4643) — Tan & Aguila 82-339 (CAHP) — TAN & IWATSUKI [1991]:33 — TAN & SHEVOCK [2015]:549 — WILLIAMS [1914]:344 Williams 2673

205. ***Macromitrium macrosporum*** BROTH. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar*. 40:168. 1898.

Sources: BARTRAM [1939]:183 Williams 2662 (as *Macromitrium goniostomum*) — TAN & IWATSUKI [1991]:33 (as *Macromitrium goniostomum*) — TAN & SHEVOCK [2015]:549 — WILLIAMS [1914]:344 Williams 2662 (as *Macromitrium goniostomum*)

206. ***Macromitrium microstomum*** (HOOK. & GREV.) SCHWÄGR. *Species muscorum frondosorum*, Suppl. 2. Part 2 (2). 130. 1827.

Sources: Linis 4992-11a (PNH), Pancho 3804 (CAHP) — Robbins (L0700917 as *Macromitrium reinwardtii*) — Schumm & Schwarz (Schwarz 4571) — TAN & SHEVOCK [2015]:547 Shevock 45012 (CAS, CMUH, UC)

207. ***Macromitrium ochraceum*** (DOZY & MOLK.) MÜLL. HAL. *Botanische Zeitung (Berlin)*. 3: 544. 1845.

Source: Tan & Aguila 82-332 (CAHP)

208. *Macromitrium orthostichum* NEES EX SCHWÄGR. *Species Muscorum Frondosorum, Supplementum Quartum*. 316. 1842.
Source: Linis 5775-22a (CAHP) — Pancho 3883 (CAHP)
- *Macromitrium reinwardtii* SCHWÄGR. *Species muscorum frondosorum, Suppl. 2. Part 2 (1)*. 59. pl. 173. 1826.
= *Macromitrium microstomum* (HOOK. & GREV.) SCHWÄGR.
209. *Macromitrium salakanum* MÜLL. HAL. *Synopsis Muscorum Frondosorum omnium hucusque Cognitorum 2*. 646. 1851.
Sources: Edaño 1520 (PNH) — BARTRAM [1939]:180 Williams 2673 (as *Macromitrium salakanum* var. *reflexifolium*)
210. *Macromitrium salakanum* subsp. *celebensis* (PARIS) M. FLEISCH. *Die Musci der Flora von Buitenzorg, Zweiter Band*. 446. 1908.
Source: TAN & IWATSUKI [1991]:34
- *Macromitrium salakanum* var. *reflexifolium* M. FLEISCH. EX E.B. BARTRAM. *Philippine Journal of Science*. 68:176. 1939.
= *Macromitrium salakanum* MÜLL. HAL.
211. *Macromitrium tylostomum* MITT. EX BOSCH & SANDE LAC. *Bryologia javanica*. Vol. 1. 131. pl. 109. 1860.
Source: TAN & SHEVOCK [2015]:545 Tan 2014-132 (CAS, UC)
212. *Macromitrium zollingeri* MITT. EX BOSCH & SANDE LAC. *Bryologia javanica*. Vol. 1. 113. pl. 90. 1859.
Source: Schumm & Schwarz (Schwarz 4573)
213. *Macrothamnium hylocomioides* M. FLEISCH. *Nova Guinea*. 12(2):125. fig. 34 A. 1914.
Sources: Linis 5015-11 (PNH) — LINIS [2018]:95 Linis 4996-11 (PNH), Linis 5014-11 (PNH)
214. *Macrothamnium javense* M. FLEISCH. *Hedwigia*. 44:311. fig. Ic. 1905.
Source: Edaño 720 (PNH), Pancho 3649 B (CAHP), Tan & Aguila 82-309A (CAHP), Tan & Aguila 82-322 (CAHP), Tan & Aguila 82-334A (CAHP)
215. *Mastopoma armitii* (BROTH. & GEH.) BROTH. IN PARIS. *Index bryologicus. Editio Secunda*. 222. 1905.
Sources: Edaño 1183a (PNH) — BROTHERUS [1900b]:177 Warburg (as *Acanthocladium armitii*)
216. *Mastopoma robinsonii* (BROTH.) E.B. BARTRAM. *Philippine Journal of Science*. 68:316. fig. 402. 1939.
Source: Linis 4962-11b (PNH)
217. *Mastopoma uncinifolium* (BROTH.) BROTH. IN PARIS. *Index bryologicus. Editio Secunda*. 223. 1905.
Sources: Edaño 1169 (PNH), Edaño 1173 (PNH), Edaño 1479 (PNH) — Linis 5030-11 (PNH) — BROTHERUS [1900b]:176 Warburg (as *Acanthocladium uncinifolium*) — BARTRAM

[1939]:315 Warburg.

218. *Meiotheciella papillosa* (BROTH.) B.C. TAN, W.B. SCHOFIELD & H.P. RAMSAY. *Nova Hedwigia*. 67:216. 1998.
Sources: Schumm & Schwarz (Schwarz 5008, Schwarz 5029, Schwarz 5032, Schwarz 5033) – TAN et al. [2000]:33 Schumm & Schwarz 5008 (SIN), Schumm & Schwarz 5029 (SIN), Schumm & Schwarz 5032 (SIN)
219. *Meiothecium attenuatum* BROTH. *The Philippine Journal of Science. Section C, Botany* 8: 92. 1913.
Source: Linis 5763-22d (CAHP), Linis 5768-22 (CAHP), Linis 5795-22 (CAHP)
- *Meiothecium bogoriense* M. FLEISCH. *Die Musci der Flora von Buitenzorg* 4: 1228. 201 f. 1–3. 1923.
 = *Meiothecium tenellum* Broth. & Paris.
220. *Meiothecium bogoriense* fo. *tenuissima* M. FLEISCH. *Die Musci der Flora von Buitenzorg. Vierter Band*. 1230. 1923.
Sources: Schumm & Schwarz (Schwarz 4470) — TAN et al. [2000]:33 Schumm & Schwarz 4470 (SIN)
221. *Meiothecium microcarpum* (HARV.) MITT. *Journal of the Linnean Society. Botany*. 10:185. 1868.
Sources: Linis 5055-11 (PNH), Linis 5056-11 (PNH), Linis 5059-11 (PNH), Linis 5064-11 (PNH), Linis 5065-11 (PNH), Linis 5074-11 (PNH), Linis 5770-22b (CAHP), 5771-22a (CAHP) — Reynoso 2133 (PNH), Reynoso 2137c (PNH) — Tan & Aguila 82-313 (CAHP)
- *Meiothecium microcarpum* var. *minus* (PARIS) WIJK & MARGAD. *Taxon* 11: 221. 1962.
 = *Meiothecium tenellum* BROTH. & PARIS.
222. *Meiothecium tenellum* BROTH. & PARIS. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar* 53A(11): 39. 1911.
Source: Linis 5811-22 (CAHP)
223. *Mesonodon flavescens* (HOOK.) W.R. BUCK. *Journal of the Hattori Botanical Laboratory*. 48:117. 1980.
Sources: Linis 5067-11 (PNH), Linis 5787-22a (CAHP) — Schumm & Schwarz (Schwarz 5034)
224. *Meteoriopsis reclinata* (MÜLL. HAL.) M. FLEISCH. EX BROTH. *Die Natürlichen Pflanzenfamilien. I. Teil. 3. Abteilung. II. Hälfte*. 826. 1906.
Source: Pancho 3810 (CAHP), Pancho 3896 (PNH)
225. *Meteoriopsis squarrosa* (HOOK. EX HARV.) M. FLEISCH. EX BROTH. *Die Natürlichen Pflanzenfamilien. I. Teil. 3. Abteilung. II. Hälfte*. 826. 1906.
Sources: Linis 4879-11 (PNH), Linis 4883-11 (PNH), Linis 5003-11 (PNH) — Schumm & Schwarz (Schwarz 4667)
226. *Meteorium crispifolium* HERZOG. *Hedwigia*. 66:348. 1926.
Source: Linis 5775-22b (CAHP), Linis 5814-22 (CAHP) — TAN & IWATSUKI [1983]:342

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227. *Meteorium polytrichum* DOZY & MOLK. Musci frondosi inediti archipelagi indici. Fasc. 5. 161. pl. 51-52, fig. A. 1848.
Sources: Schumm & Schwarz (Schwarz 4644, Schwarz 4950)
228. *Microcampylopus khasianus* (GRIFFITHS) GIESE & J.-P. FRAHM. *Lindbergia*. 11:118. 1986.
Source: Pancho 3734 (PNH)
229. *Microdus miquelianus* (MONT.) BESCH. Index Bryologicus. 805. 1897.
Source: Linis 4832-11 (PNH), Tan & Aguila 82-314 (CAHP as *Dicranella insularis*) Tan & Aguila 82-331 (CAHP), Tan & Aguila 82-341 (CAHP as *Dicranella insularis*)
230. *Mniodendron dendroides* (BRID.) WIJK & MARGARD. *Taxon* 8:74. 1959.
Sources: Linis 5034-11 (PNH) — Robbins 3958 (L) — Schumm & Schwarz (Schwarz 4092, Schwarz 4385, Schwarz 4627, Schwarz 5062), Tan & Aguila 82-285A (CAHP) — BARTRAM [1939]:157 Warburg (H, NY as *Mniodendron divaricatum*) — TOUW [1971]:326 Edaño 1155 (GRO, PNH), Edaño 1161 (GRO), Edaño 1187 (GRO), Montano (PC), Robbins 3958 (L), Robbins 4004 (L) — TAN & NOGUCHI [1984]:47 Setogawa 96 (HIRO 14512, in part), Setogawa 70 (HIRO 14514)
- *Mniodendron divaricatum* (REINW. & HORNSCH.) LINDB. *Bryologia Javanica* 2:136. pl. 234. 1865.
 = *Mniodendron dendroides* (BRID.) WIJK & MARGARD.
- *Mniodendron fuscomucronatum* BROTH. *Die Natürlichen Pflanzenfamilien* I(3): 1172.
 = *Dendro-hypnum fuscomucronatum* (MÜLL. HAL.) N.E. BELL, A.E. NEWTON & D. QUANDT.
- *Mniodendron mindanense* BROTH. *Leaflets of Philippine Botany* 6: 1975. 1913.
 = *Dendro-hypnum milnei* subsp. *korthalsii* (BOSCH & SANDE LAC.) N.E. BELL, A.E. NEWTON & D. QUANDT
- *Neckera crenulata* HARV. *Icones plantarum. Ser 1. Vol. 1 (1).. pl. 21, fig. 6.* 1836.
 ≡ *Taiwanobryum crenulatum* (HARV.) S. OLSSON, ENROTH & D. QUANDT.
- *Neckera philippinensis* (BROTH.) Paris. *Index Bryologicus Supplementum Primum*. 255. 1900.
 ≡ *Calypothecium philippinense* BROTH.
- *Neckera warburgii* BROTH. *Monsunia, Beiträge zur Kenntniss der Vegetation des Süd- und Ostasiatischen Monsungebietes*. 1:49. 1899.
 ≡ *Taiwanobryopsis warburgii* (BROTH.) ENROTH.
- *Neckeromnion lepineanum* (MONT.) S. OLSSON, ENROTH, HUTTUNEN & D. QUANDT. *Bryophyte Diversity and Evolution*. 38 (2):66. 2016.
 ≡ *Neckeropsis lepineana* (MONT.) M. FLEISCH.
231. *Neckeropsis lepineana* (MONT.) M. FLEISCH. *Die Musci der Flora von Buitenzorg. Dritter Band*. 879. 1908.
Sources: Alvarez O-80503 (CAHP), Alvarez O-80512 (CAHP), Linis 4859-11 (PNH as *Neckeromnion lepineanum*), Linis 4870-11 (PNH as *Neckeromnion lepineanum*), Linis 5776-

- 22 (CAHP) — Pancho 3916 (PNH as *Neckeromnion lepineanum*) — WILLIAMS [1914]:358 Williams 2665
232. *Neodicladiella pendula* (SULL.) W.R. BUCK. *Journal of the Hattori Botanical Laboratory*. 75:62. 1994.
Sources: Schwarz (Schwarz 3774, Schwarz 3775 as *Barbella elongata*, Schwarz 3799 as *Barbella elongata*), Tan & Aguila 82-294 (CAHP) — NOGUCHI [1976]:330 unknown collector (FH as *Barbella elongata*)
233. *Neolindbergia cladomnioides* H. AKIYAMA IN H. AKIYAMA, T.J. KOP. & D.H. NORRIS. *Acta Botanica Fennica*. 143:82. fig. 2 c, 4 a-e. 1991.
Source: Pancho 3833 (PNH)
234. *Neoptychophyllum borneense* (BROTH.) S. HE. *Bryophyte Diversity and Evolution* 41(1): 24. 2019.
Source: Edaño 1183 (PNH)
235. *Octoblepharum albidum* HEDW. *Species muscorum frondosorum*. 50. 1801.
Sources: Linis 4799-11 (PNH), Linis 5791-22a (CAHP) — Schumm & Schwarz (Schwarz 4465) — WILLIAMS [1914]:338 Williams 3098
236. *Oedycladium rufescens* (REINW. & HORNSCH.) MITT. *Journal of the Linnean Society. Botany*. 10:195. 1868.
Source: TAN & SHEVOCK [2014]:26 Shevock 44906 (CAS, CMUH, MO)
237. *Oligotrichum aligerum* MITT. *Journal of the proceedings of the Linnean Society. Botany*. 8:48. pl. 8. 1864.
Source: Linis 4979-11 (PNH)
238. *Orthodontium infractum* DOZY & MOLK. *Musci frondosi inediti archipelagi indici*. Fasc. 1. 19. 1844.
Sources: Linis 4977-11 (PNH) — TAN & IWATSUKI [1991]:38
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292. *Rhynchostegiella vriesei* (DOZY & MOLK.) BROTH. *Die Natürlichen Pflanzenfamilien*. I. Teil. 3. Abteilung. II. Hälfte. 1161. 1909.
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293. *Rhynchostegium celebicum* (SANDE LAC.) A. JAEGER. *Bericht über die Thätigkeit der St. Gallischen Naturwissenschaftlichen Gesellschaft*. 1876-77:374. 1878.
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Source: TAN et al. [2018]:34 Tan & Penneys 2014-200 (CAS, CMUH, MW, NY, UC)
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