

Musci austro-africani II. Bryophyte collections in southern Africa and southern African type specimens in the National Herbarium, Pretoria

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ABSTRACT

A brief review of bryological collections and collectors in southern Africa introduces a catalogue of southern African type specimens housed in the National Herbarium, Pretoria. The type catalogue, arranged alphabetically by basionym, includes correct names, type status and label data.

RÉSUMÉ

MUSCI AUSTRO-AFRICANI II. COLLECTIONS DE BRYOPHYTES EN AFRIQUE AUSTRALE ET SPÉCIMENS-TYPES DE L'AFRIQUE AUSTRALE DANS L'HERBIER NATIONAL À PRETORIA

Après une introduction consacrée à une brève revue des collections bryologiques et des récolteurs en Afrique australe, on présente un catalogue des spécimens-types de l'Afrique australe qui sont conservés dans l'Herbier National à Pretoria. Ce catalogue est disposé en ordre alphabétique par basionyme; il inclut les noms corrects, le statut du type et les données des étiquettes.

It has become obvious, through examination of several recent revisions dealing in part with southern African taxa, that the distribution and the content of bryophyte collections housed in South African herbaria are not fully understood. Although most southern African herbaria have some bryophyte material, most of the specimens housed in the Flora of Southern Africa area, are at the five larger herbaria (BOL, GRA, NBG, NH, PRE). In connection with the current research on southern African mosses, the curators of these herbaria have made their collections available to the Botanical Research Institute (PRE) on temporary loan.

Each of these herbaria has a unique collection with only a limited amount of overlap. For reasons discussed below, the National Herbarium (PRE) has the greatest overlap with each of the other herbaria, as well as its own distinctive collection (Table 1).

A survey of each of these collections substantiates Sim's (1926) supposition that specimens gathered by the early collectors are not represented in South Africa. Collectors such as W. J. Burchell, J. Breutel, J. F. Drège, W. H. Harvey, C. W. L. Pappe, C. Thunberg and F. Wilms made small but very important collections of bryophytes, that were apparently sent to Europe for investigation and distribution. Dr A. Rehmann is the only early collector with his specimens represented in substantial numbers in southern African herbaria. After each of his collecting trips to southern Africa, Rehmann distributed his mosses in an exsiccata entitled "Musci Austro-africani" (cf. Dixon & Gepp, 1923). Rehmann's contact with P. MacOwan, H. Bolus and J. Medley Wood and the contributions made by these botanists to the exsiccata, accounts for the presence of sets at BOL, GRA and NH. Each of these sets, although containing numerous identical specimens, contains several collections not found in the other two sets. A pre-distribution set of the exsiccata was apparently sent to C. Müller, who in 1899, described a large number of the specimens as new species. It is indeed unfortunate that inconsistency exists between the citation of specimen numbers by Müller and Rehmann, since the specimens of the exsiccata probably represent the only extant type material.

TABLE 1.—Distribution of major or historic collections of South African bryophytes

	BOL	GRA	NBG	NH	PRE
Arnell.....	2	—	—	—	3
Barnard.....	—	—	1	—	2
Bosman.....	—	—	—	—	1
Bottomley.....	—	—	—	—	1
Bryhn.....	—	—	—	5	—
Dieterlen.....	—	—	5	—	5
Doidge.....	—	—	—	—	1
Ecklon.....	—	5	5	—	—
Esterhuysen.....	1	—	—	—	2
Garside.....	1	—	—	—	—
Jacot Guillarmod.....	—	2	—	—	2
McLea.....	4	4	—	—	4
Magill.....	5	—	—	—	1
MacOwan.....	—	3	5	—	—
Pappe.....	—	—	3	—	—
Pillans.....	1	—	—	—	5
Pegler.....	3	—	—	—	2
Rehmann.....	4	4	—	4	2
Schelpe.....	1	—	—	—	3
Sim.....	5	5	—	—	1
Thorne.....	—	—	1	—	2
Tyson.....	—	—	1	—	2
Vorster.....	—	—	—	—	1
Wager.....	5	2	—	—	1
Wood (Medley Wood).....	—	—	—	1	3
Zeyher.....	—	5	5	—	—

Key: 1—First set or major collection.
2—Major duplicate set.
3—Duplicates.
4—Exsiccata.
5—Representative specimens.

H. A. Wager (1917) and T. R. Sim (1915) began the first collections of bryophytes to be retained in southern Africa. Nevertheless, specimens of both collectors are also well-represented in the British Museum, because of their correspondence with H. N. Dixon.

Wager made a random collection of southern Africa mosses. His specimens are rarely numbered and location data are generally restricted to the listing of a nearby town. On the other hand, Sim made extensive collections throughout southern Africa and Rhodesia. His specimens are mostly numbered and frequently have labels with data in addition to locality, i.e. habitat, association. Most of Sim's collections were identified or verified from duplicates sent to Dixon. Sim's enthusiasm as a bryologist was apparently infectious as he was able to encourage a

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large number of amateur and professional botanists to collect bryophytes for him. The collections of both Wager and Sim were bequeathed to the National Herbarium upon the deaths of these first South African bryologists.

Bolus Herbarium

The Bolus Herbarium has maintained curatorial and research activities on the bryophyte collection since Sim (1926) published his *Bryophytes of Southern Africa* and, before the recent renovation of the collection at PRE, was the only South African herbarium to incorporate nomenclatural and taxonomic changes. The bryophyte collection at BOL contains c. 7 000 specimens including a set of the Rehmann exsiccata (*pro parte*), an important collection of Cape Peninsula bryophytes by N. S. Pillans, east African collections by R. A. Dümmer, F. Eyles and E. A. Schelpe and a large extra-African reference collection. A substantial backlog of approximately 1 500 unidentified South African collections by E. Esterhuysen, S. Garside and E. A. Schelpe is currently being identified as part of the author's research and the first set of these specimens will be housed at BOL. The bryophyte collections at BOL are in packets mounted on standard herbarium sheets, with one to several packets per sheet. The sheets occasionally have notes and illustrations attached. The Rehmann specimens are kept separate in a vertical file packet system.

Albany Museum

The bryophyte collection at the Albany Museum (GRA) began with the collections of P. MacOwan and his exchange with several overseas bryologists. Although most of his own collections were sent out on exchange, a few of his specimens are present in the collection. The herbarium contains c. 1 300 specimens, including a set of the Rehmann exsiccata (*pro parte*) and a small extra-African reference collection. The specimens are in packets mounted individually on standard herbarium sheets and the collection has been annotated to conform with Sim's (1926) *Bryophytes of Southern Africa*. The Rehmann exsiccata are maintained separately in individual unmounted packets and the MacOwan specimens are mounted, exposed or in packets, in light-weight paper folders, approximately the size of herbarium sheets. Most of the modern collection is made up of duplicates from Wager and Sim, however GRA has recently received specimens collected by A. Jacot Guillarmod from the eastern Cape.

Compton Herbarium

The Compton Herbarium (NBG) obtained its bryophyte collection through acquisition of the South African Museum Herbarium. This collection, considered the oldest in southern Africa and containing numerous phanerogam collections of the early collectors cited above, holds only a few bryophyte specimens of Ecklon, Pappe and Zeyher. As curator of the collection, MacOwan was responsible for the build-up of the very large extra-African reference collection, but he left less than a dozen of his own specimens at SAM, when he moved to the Albany Museum. For the most part, the collection is made up of specimens gathered during the 1920–1930's by K. H. Barnard, C. Thorne and W. Tyson, primarily in the western Cape and South West Africa. The c. 2 500 specimens, including a set of the east African collections of R. A. Dümmer, are mounted in packets, one to several per standard herbarium sheet. Most

of the South African collections were identified or annotated by Sim and therefore follow his nomenclature and taxonomy.

Natal Herbarium

The South African specimens at the Natal Herbarium consist primarily of the Rehmann exsiccata, however these are supplemented by specimens collected in Natal by J. Medley Wood, H. Bryhn and L. Titlestad. A large extra-African collection was obtained through an exchange with N. Bryhn and includes a set of his Canary Island specimens. The specimens are mounted, exposed or in packets, on half herbarium sheets, one specimen per sheet. The southern African specimens have been annotated to conform nomenclaturally and taxonomically with Sim (1926).

National Herbarium, Pretoria

The bryophyte collection at the National Herbarium (PRE) is the largest in southern Africa, both in respect to African and extra-African holdings. The majority of the collection is made up of the private collections of Sim and Wager and the holdings of the Transvaal Museum acquired in 1953. The collection has been increased over the years by the work of several botanists, e.g. S. Arnell, M. Bosman, A. M. Bottomley, E. M. Doidge, R. E. Magill and P. J. Vorster and through an intermittent cryptogamic exchange programme.

Wager deposited duplicates of his collections at PRE, GRA and the Transvaal Museum. These specimens correspond in number and nomenclature to his checklist of South African mosses (1917). Unfortunately, these specimens have no collection numbers and only brief location data. His personal herbarium was left to PRE and incorporated in 1951. These specimens generally have collection numbers corresponding to those used in several publications by Dixon (1920, 1929). Wager's practice of incorporating any subsequent collection in a single packet for each species is regrettable, as this has resulted in a few type specimens being mixed with other collections.

The Sim specimens represent the largest and most extensive collection of southern African bryophytes. In preparation for his text, "The Bryophyta of South Africa", Sim collected throughout southern Africa and Rhodesia and persuaded many collectors to send him specimens. During his research, Sim had access to each of the above collections and frequently kept duplicates in exchange for identifications. One important note in this context was Sim's annotation and up-dating of the Rehmann exsiccata for BOL, GRA and NH. Sim kept a scrap, whenever possible, and this has resulted in an almost complete set of the exsiccata at PRE.

The bryophyte collection at PRE had been mounted in various sized packets with one to 10 packets per herbarium sheet (Fig. 1). In an effort to make the collection more accessible, the entire collection has been repacketed and shifted to a vertical file packet system (Figs 2 & 3). The specimens are now filed by family in phylogenetic order (cf. Crosby & Magill, 1977 and Magill & Schelpe, 1979).

The species are filed alphabetically under the genus and each genus, when possible, has been divided into southern African, other African and extra-African groups. In addition, the southern African species are colour-coded by country and/or province. The mosses have been annotated to follow the nomenclature of *Index Muscorum* or recent revisions and the types are filed under annotated names.

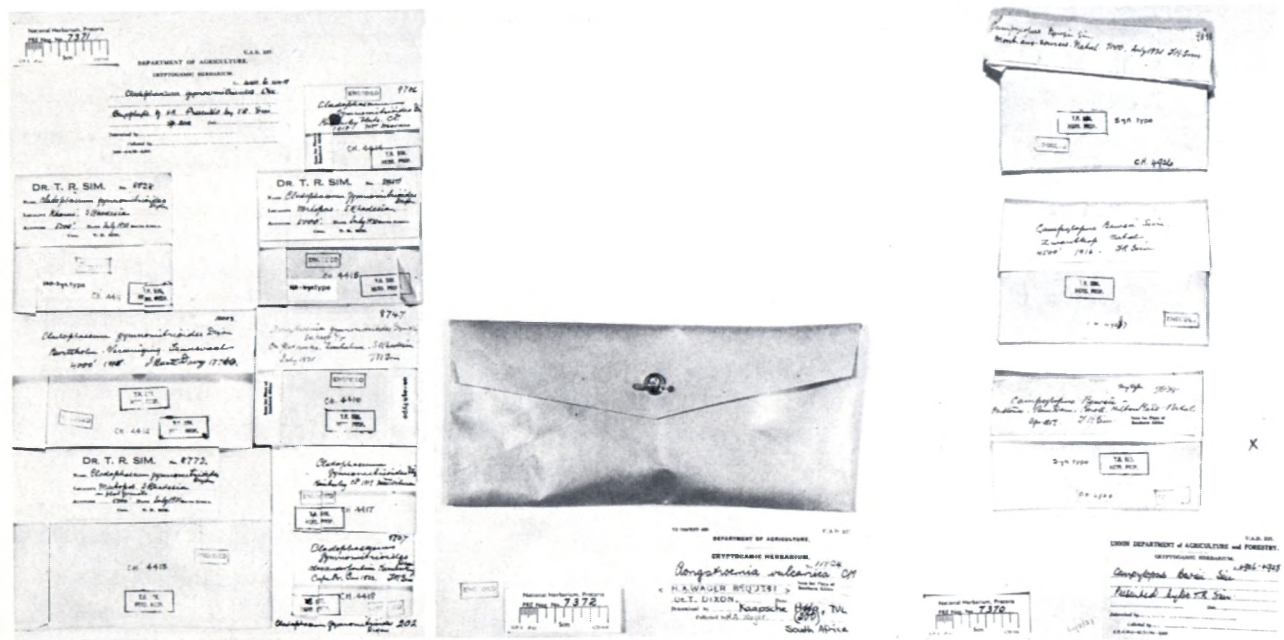


FIG. 1.—Three herbarium sheets illustrating various packet sizes and mounting procedure prior to renovation of PRE bryophyte collection.

FIG. 2.—New bryophyte cabinets for vertical file packet system, showing drawers with removable specimen boxes.



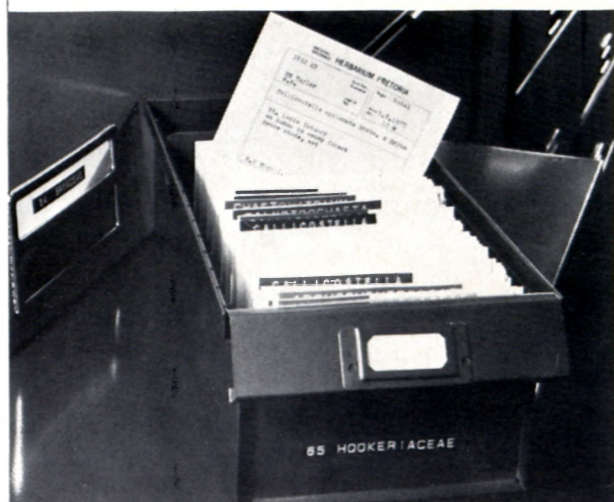


FIG. 3.—Close-up of specimen box, illustrating filing system and new packet.

In connection with the current research on the moss flora, a card index of all southern African names has been compiled and the South African collections searched for type material. A total of 206 southern African types (284 specimens) has been identified at PRE and are listed below as an aid to researchers interested in taxa present in southern Africa. The citation is alphabetical by basionym; when necessary, this is followed by the correct name. The status of the PRE specimen(s) and label data, collector and numbers are also listed under each name. No attempt to choose lectotypes has been undertaken here: citation of a single syntype indicates only current holdings at PRE.

CATALOGUE OF SOUTHERN AFRICAN TYPE SPECIMENS IN THE NATIONAL HERBARIUM, PRETORIA

- Acanthocladia transvaaliense* Thér. & Dix.
= *Heterophyllum transvaaliense* (Thér. & Dix.) Thér. & P. Varde
Isotype: Transvaal, Woodbush, Wager s.n.
- Amblystegium filiforme* Wag. & Wright
= *Pseudoleskea leskeoides* (Par.) C. Müll.
Isotype: Natal, Van Reenen, Wager s.n.
- Anoetangium assimilis* Broth. & Wag.
= *A. wilmsianum* (C. Müll.) Par.
Isotype: Natal, Wager s.n.
- Aongstroemia abruptifolia* C. Müll.
= *Dicranella subbululata* (C. Müll.) Jaeg.
Isotype: Cape, Esternek above Knysna, Rehmann 25.
- A. gymnomitrioides* Dix.
= *Cladophascum gymnomitrioides* (Dix.) Dix.
Iso-syntypes: Rhodesia, Zimbabwe, Sim 8747; Matopos, Sim 8772, 8850; Khami, Sim 8838.
- Aptychus sphaeropyxis* C. Müll.
= *Sematophyllum sphaeropyxis* (C. Müll.) Broth.
Isotype: Natal, Inezanga, Rehmann 372.
- Archidium acanthophyllum* Snider
Paratype: Natal, Wager s.n., July 1908.
- A. julicaule* C. Müll.
Iso-syntype: Cape, Cape Town, Rehmann 426.
- Barbula afroruralis* C. Müll.
= *Tortula ruralis* (Hedw.) Gaertn., Meyer & Scherb.
Isotype: Cape, near Stinkwater, Rehmann 114.
- B. brachyaichme* C. Müll.
= *Tortula hildebrandtii* (C. Müll.) Broth.
Isotype: Cape, Cape Town, Rehmann 107.
- B. deserta* C. Müll.
= *Desmatodon convolutus* (Brid.) Grout
Isotype: Cape, Cape Town, Rehmann 96.
- B. eutrichostomum* C. Müll.
= *Tortella humilis* (Hedw.) Jenn.
Isotype: Cape, near Blanco, Rehmann 91.

- B. natalensis* C. Müll.
= *B. indica* (Hook.) Spreng.
Isotype: Natal, Port Durban, Rehmann 104.
- B. oranica* C. Müll.
= *Tortula hildebrandtii* (C. Müll.) Broth.
Isotype: Orange Free State, Bethlehem, Rehmann 126.
- B. reticularia* C. Müll.
= *Tortula papillosa* Wils. in Spruce
Isotype: Cape, Cape Town, Rehmann 106.
- B. salisburyensis* Dix.
Isotype: Rhodesia, Salisbury, Eyles 596.
- B. trichostomacea* C. Müll.
= *Trichostomopsis australasiae* (Hook. & Grev.) Robins.
Isotype: Cape, Rondebosch, Rehmann 97.
- B. trivialis* C. Müll.
= *Trichostomopsis trivialis* (C. Müll.) Robins.
Isotype: Orange Free State, Kadziberg, Rehmann 99.
- Bartramia africana* C. Müll.
= *Philonotis africana* (C. Müll.) Rehm. ex Par.
Isotype: Natal, Inanda, Rehmann 93.
- B. afrofontana* C. Müll.
= *Philonotis afrofontana* (C. Müll.) Par.
Iso-syntype: Orange Free State, Kadziberg, Rehmann 192.
- B. afrostricta* C. Müll.
= *B. substricta* Schimp. in C. Müll.
Iso-syntypes: Cape, Cape Town, Rehmann 203, 204.
- B. pernana* C. Müll.
= *Philonotis androgyna* (Hampe) Jaeg.
Isotype: Cape, near Belvedere, Rehmann 191.
- B. squarrefolia* Sim
Syntypes: Transvaal, Witpoortje, Moss s.n.; Cape, Disa Gorge, Sim 9166; Paarl Mountain, Sim 9639; Schoonekloof, Pillans 4089; Table Mountain, Mitchell s.n.; Bews s.n.
- B. subasperima* C. Müll.
= *B. compacta* Hornsch.
Isotype: Cape, Cape Town, Rehmann 213.
- Brachythecium afroalbicans* Dix.
= *Juratzkaea leptura* (Tayl.) Weber ex Buck
Isotype: Cape, Blinkwater Ravine, Table Mountain, Bews s.n. (Sim 8634).
- B. afrosalebrosum* C. Müll.
= *B. implicatum* (Hornsch.) Jaeg.
Iso-syntype: Orange Free State, Kadziberg, Rehmann 383b.
- B. afrovelutinum* C. Müll.
= *B. implicatum* (Hornsch.) Jaeg.
Isotype: Cape, mountains near Rondebosch, Rehmann 379.
- B. erythropyxis* C. Müll.
= *B. implicatum* (Hornsch.) Jaeg.
Isotype: Natal, Inanda, Rehmann 382.
- B. knysnae* C. Müll.
= *B. implicatum* (Hornsch.) Jaeg.
Iso-syntype: Cape, between Knysna and Belvedere, Rehmann 387.
- B. pinnatum* Dix.
Isotype: Cape, Knysna, Wager 520.
- Braunia maritima* C. Müll.
= *Hedwigidium integrifolium* (P. Beauv.) Dix. in C. Jen.
Iso-syntype: Cape, Table Mountain, Rehmann 306.
- B. peristomata* Dix.
= *Leucodon maritimus* (Hook.) Wijk & Marg.
Iso-syntypes: Rhodesia, Zimbabwe Ruins, Sim 8750, 8778, 8793, 8809; Fort Victoria, Sim 8843.
- Breutelia angustifolia* Rehm. ex Sim
Holotype: Transvaal, Mac-Mac, McLea s.n. (Rehmann 538).
- B. tabularis* Dix. in Sim
Iso-syntypes: Cape, Platteklip Ravine, Table Mountain, Sim 9277; Pillans 3335, 4899.
- Bryum acuminatum* Sim, hom. illeg.
= *B. simii* Schelpe
Holotype: Natal, Cathkin, Owen 15.
- B. aterrimum* C. Müll. ex Sim
Holotype: Cape, between Knysna and Belvedere, Rehmann 235.
- B. liliputanum* C. Müll.
= *Brachymenium dicranoides* (Hornsch.) Jaeg.
Isotype: Cape, Cape Town, Rehmann 241.
- B. oranicum* C. Müll.
= *B. argenteum* var. *australe* Dix.
Isotype: Orange Free State, Kadziberg, Rehmann 260.
- B. rigiduspus* Dix.
= *B. bicolor* Dicks.
Syntypes: Natal, Van Reenen's Pass, Wager 74; Rhodesia, Zimbabwe, Sim 8790; Khami Ruins, Sim 8839.
- Calymperes victoriae* Dix.
Isotype: Rhodesia, Victoria Falls, Sim 8879.
- Calypothecium africanum* Broth.
= *C. hoehnelii* (C. Müll.) Argent
Iso-syntype: Cape, Knysna, Rehmann 332.

- Campylopus angustinervis* Dix.
=Microcampylopus perpusillus (Mitt.) Broth.
Iso-syntypes: Transvaal, Belfast, Wager 884; Rhodesia, Matopos, Sim 8862; Zimbabwe, Sim 8806.
- C. bewsii* Sim.
Syntypes: Natal, Knoll, Hilton Road, Sim 9838; Mount aux Sources, Sim 9891.
- C. echinatus* Sim
=C. introflexus (Hedw.) Brid.
Syntypes: Cape, near Cape Town, Rehmann 67; Camps Bay, Rehmann 69; Knysna, Rehmann 72; Table Mountain, Bews s.n. (Sim 8604); Pirie Forest, Sim 8581B; Natal, Murchison Flats, Sim 9837.
- C. edwardsii* Sim
=C. olivaceonigricans (C. Müll.) Par.
Holotype: Transvaal, Johannesburg, Edwards s.n. (Sim 9836)
- C. pseudojulaceus* Sim, hom. illeg.
=C. simii Schelpe.
Holotype: Orange Free State, Kadziberg, Rehmann 58.
- C. symonsii* Sim
Syntypes: Natal, Giant's Castle, Symons s.n. (Sim 9843, 9835); Mount aux Sources, Gibb s.n.
- Chamaebryum pottioideus* Thér. & Dix.
Syntypes: Cape, Cape Town, Wager 633 cfr. 654, 653.
- Cupressina anotis* C. Müll.
=Ectropothecium regulare (Brid.) Jaeg.
Isotype: Cape, mountains near Esternek, Rehmann 413.
- Dicranella rigida* Dix. in Sim
Holotype: Cape, Paarl, Sim 9633.
- D. symonsii* Dix.
=Anisothecium symonsii (Dix.) Broth.
Isotype: Natal, Giant's Castle, Symons s.n. (Sim 8665).
- Dicranoloma entabeniense* Magill
Holotype: Transvaal, Soutpansberg, Entabeni Forest, Bottomley PRE-CH3381.
- Dicranum atroluteum* C. Müll.
=Campylopus atroluteus (C. Müll.) Par.
Iso-syntype: Cape, Cape Town, Rehmann 63.
- D. bartramiaeum* C. Müll.
=Campylopus atroluteus (C. Müll.) Par.
Isotype: Cape, Cape Town, Rehmann 37.
- D. catarractilis* C. Müll.
=Campylopus catarractilis (C. Müll.) Par.
Isotype: Cape, Devil's Peak, Rehmann 64.
- D. chlorotrichum* C. Müll.
=Campylopus chlorotrichus (C. Müll.) Par.
Iso-syntypes: Cape, Montagu Pass, Rehmann 53; Knysna, Rehmann 53b.
- D. inandae* C. Müll.
=Campylopus purpurascens Lor.
Isotype: Natal, Inanda, Rehmann 43.
- D. leucobasis* C. Müll.
=Campylopus introflexus (Hedw.) Brid.
Isotype: Cape, Montagu Pass, Rehmann 71.
- D. longescens* C. Müll.
=Campylopus clavatus (R. Br.) Wils.
Isotype: Cape, near Esternek, Rehmann 41.
- D. purpureoaurum* C. Müll.
=Campylopus purpurascens Lor.
Iso-syntype: Orange Free State, Liebenbergsvley, Rehmann 59.
- D. serridorsum* C. Müll.
=Campylopus catarractilis (C. Müll.) Par.
Isotype: Cape, Table Mountain, Cape Town, Rehmann 45.
- D. stenopelma* C. Müll.
=Campylopus stenopelma (C. Müll.) Rehm. ex Par.
Iso-syntype: Cape, near Esternek, Rehmann 52.
- D. tenax* C. Müll.
=Campylopus stenopelma (C. Müll.) Rehm. ex Par.
Isotype: Cape, near Blanco, Rehmann 54.
- Didymodon afrorubellus* Broth. & Wag. ex Dix.
Isotype: Natal, Van Reenen's Pass, Wager 79.
- D. knysnae* Rehm. ex Sim
=D. xanthocarpus (C. Müll.) Magill
Holotype: Cape, Port Elizabeth, Rehmann 83.
- D. pottsii* Dix.
=D. dimorphus (C. Müll.) Broth.
Isotype: Orange Free State, Bloemfontein, Eagles Nest, Potts s.n. (Sim 8663).
- D. subfontanus* Dix. in Sim
Isotype: Transvaal, Witpoortje, Moss 10322.
- Dimerodontium africanum* C. Müll.
Iso-syntype: Cape, mountains near Rondebosch, Rehmann 354.
- D. carnifolium* C. Müll.
=Dimerodontium africanum C. Müll.
Isotype: Cape, mountains near Rondebosch, Rehmann 358.
- Diplostichum africana* C. Müll.
=Eustichia africana (C. Müll.) Par.
Isotype: Orange Free State, above Kadziberg, Rehmann 279.
- Distichophyllum taylorii* Sim
Holotype: Cape, near Wilderness, Taylor s.n. (Sim 10281).
- Ditrichum spirale* Dix.
Isotype: Cape, Gaika's Kop, D., B. & M. Henderson 232.
- Drepanocladus hallii* Broth. & Dix.
Isotype: Cape of Good Hope, Hall 7.
- D. sparsus* C. Müll.
Isotype: Orange Free State, Kadziberg, Rehmann 398.
- Drepanophyllaria caudicaulis* C. Müll.
=Hygroamblystegium caudicaule (C. Müll.) Broth.
Isotype: Cape, Devils Peak, Rehmann 404.
- Ectropothecium brevisetum* Dix., hom. illeg.
=E. brachycarpum (Dix.) Magill
Isotype: Moçambique, Shirindjen, Junod 331.
- Entodon cymbifolius* Wag. & Dix.
Isotype: Transvaal, Moorddrift, Waterberg, Wager 408.
- E. natalensis* Rehm. ex C. Müll.
Isotype: Natal, Van Reenen's Pass, Rehmann 331.
- Ephemerella nervosa* Dix.
=Ephemerum nervosum (Dix.) Schelpe
Iso-syntype: Cape, King William's Town, Wager 1082b.
- Erpodium distichum* Wag. & Dix.
Iso-syntype: Transvaal, Barberton, Wager 279.
- E. transvaaliense* Broth. & Wag. in Dix.
Isotype: Transvaal, Wolhuter's Kop, Wager 189.
- Fabronia wageri* Dix.
Isotype: Cape, Cape Town, Wager 5.
- F. victoriae* Dix.
Isotype: Rhodesia, Victoria Falls, Sim 8943.
- Fissidens aciphyllus* Dix.
Isotype: Natal, Port St Johns, Wager 927.
- F. amblyophyllus* C. Müll.
Iso-syntype: Natal, Inanda, Rehmann 285.
- F. aristatus* Sim
=F. simii Schelpe
Syntypes: Natal, Maritzburg, Sim 9903, 9907, 9909.
- F. borgenii* Hampe var. obtusifolius Dix.
Isotype: Natal, Van Reenen, Wager 166.
- F. brevisetum* Sim
=F. scleromitrius (Besch.) Broth.
Holotype: Natal, New Hanover, Sim 9906.
- F. calochlorus* Dix.
Iso-syntypes: Rhodesia, Victoria Falls, Sim 8891, 8882.
- F. corrugatulus* Dix.
Iso-syntypes: Rhodesia, Victoria Falls, Sim 8885, 8904.
- F. dubiosus* Dix.
Isotype: Rhodesia, Victoria Falls, Palm Grove, Sim 8819.
- F. enervis* Sim.
Syntypes: Natal, Maritzburg, Sim 9899, 9900; Nottingham Road, v. d. Bijl s.n. (Sim 8648).
- F. hoegii* P. Varde.
Iso-syntype: Natal, Umgeni near Pietermaritzburg, Hoeg 423, 430, 432.
- F. hyalobasis* Dix. in Sim
Isotype: Transvaal, Moorddrift, Wager 406.
- F. ischyrobryoides* C. Müll.
=F. marginatus Schimp. in C. Müll.
Isotype: Cape, Devils Peak, Rehmann 290.
- F. latifolius* Dix.
Iso-syntypes: Rhodesia, Zimbabwe, Sim 8766, 8807, 8753, 8761, 8768; Khami Ruins, Sim 8841; Matopos, Sim 8856.
- F. microandrogynus* Dix.
Isotype: Rhodesia, Bulawayo, Wager 895.
- F. papillifolius* Dix.
=F. urceolatus Wag. & Dix. in Sim
Isotype: Natal, Albert Falls, Umgeni Nook, Sim 8709.
- F. parvilimbatus* Sim
Syntypes: Natal, Greenkoppies, J. Sim s.n. (Sim 9915); New Hanover, Sim 9905; Albert Falls, Sim 9912.
- F. pectinidens* Dix.
Isotype: Natal, Port St Johns, Wager 936.
- F. perpaucifolius* Dix. & Sim
Isotype: Cape, Stellenbosch, Wager 647.
- F. pycnophyllus* C. Müll.
Isotype: Cape, Cape Town, Rehmann 293.
- F. rehmannii* C. Müll.
=F. glaucescens Hornsch.
Isotype: Natal, Inanda, Rehmann 282d.
- F. stellenboschianus* Dix. in Sim
Isotype: Cape, Stellenbosch, Wager 612.
- F. urceolatus* Wag. & Dix.
Isotype: Transvaal, Pretoria, Wager 264.
- F. wageri* Dix. in Wag.
Isotype: Natal, Umkomaas, Wager s.n.
- Fontinalis duthieae* Sim
=Wardia hygrometrica Harv. in Hook.
Holotype: Cape, Cape Town, Platteklip, Sim 9389.
- Funaria longicollis* Dix.
Iso-syntypes: Rhodesia, Zimbabwe, Sim 8735, 8796, 8797; Khami Ruins, Sim 8842.

- Glyphomitrium marginatum* Wag. & Dix.
= *Ptychomitrium marginatum* (Wag. & Dix.) Dix.
Iso-syntype: Transvaal, Kaapsche Hoop, Wager 298.
- Grimmia austropatens* C. Müll.
= *Grimmia apocarpa* Hedw.
Isotype: Cape, Table Mountain, Rehmann 137.
- G. caffra* C. Müll.
= *G. apocarpa* Hedw.
Isotype: Orange Free State, Witteberge above Kadziberg, Rehmann 130.
- G. drakenbergensis* Sim
= *G. pulvinata* (Hedw.) Sm.
Syntypes: Natal, Giant's Castle, Symons s.n. (Sim 9962); Mount aux Sources, Sim 9963; Edwards s.n.
- G. leptotricha* C. Müll.
= *G. pulvinata* (Hedw.) Sm.
Isotype: Cape, Somerset East, Mt Boschberg, MacOwan s.n.
- G. senilis* Sim
= *G. laevigata* (Brid.) Brid.
Syntypes: Cape, Cookhouse, Sim 9956; Orange Free State, Springfontein, Sim s.n.
- Gymnostomum bewsii* Sim in Dix.
= *Anoetangium wilmsianum* (C. Müll.) Par.
Syntypes: Natal, Tugela Gorge, Bews s.n. (Sim 8660); Giant's Castle, Symons s.n. (Sim 8661).
- G. gracile* Dix., hom. illeg.
= *G. wageri* Schelpe
Isotype: Transvaal, Pretoria, Wager 97.
- G. lingulatum* Sim
= *Didymodon lingulatum* (Sim) Magill
Holotype: Transvaal, Lechlab, Houtbosch, Rehmann 437.
- Gyroweisia amplexicaulis* Sim
= *Husnotiella latifolia* (Dix.) Zander & Magill
Holotype: Natal, Van Reenen, Wager 414.
- G. latifolia* Dix.
= *Husnotiella latifolia* (Dix.) Zander & Magill
Isotype: Rhodesia, Victoria Falls, Sim 8931.
- Harrisonia eckloniana* C. Müll.
= *Rhacocarpus purpurascens* (Brid.) Par.
Iso-syntype: Cape, Table Mountain, Rehmann 314.
- H. rehmanniana* C. Müll.
= *Rhacocarpus rehmannianus* (C. Müll.) Wijk & Marg.
Iso-syntype: Cape, Table Mountain, Rehmann 313.
- Hookeria tristis* C. Müll.
= *Callicostella tristis* (C. Müll.) Broth.
Isotype: Natal, Inanda, Rehmann s.n.
- Hymenostomum eurybasis* Dix.
Iso-syntypes: Rhodesia, Matopos, Eyles 940, 941; Hellet's Concession, Magude, Sim 8989.
- H. opacum* Wager
= *Hyophila zeyheri* (Hampe) Jaeg.
Holotype: Natal, Van Reenen, Wager s.n.
- Hyophila basutensis* Sim
Holotypes: Cape, Rhenosterberg, McLea s.n. (Rehmann 458).
- H. erosa* Sim
= *Oreoweisia erosa* (C. Müll.) Kindb.
Holotype: Natal, Muller's Farm, Drakensberg, McLea s.n. (Rehmann 472).
- Isopterygium brachycarpum* Dix.
= *Ectropothecium brachycarpum* (Dix.) Magill
Iso-syntypes: Cape, Knysna, Wager 512; Transvaal, Rietfontein, Wager 234.
- I. punctulatum* Broth. & Wag.
Isotype: Transvaal, near Rustenburg, Wager s.n.
- I. taylorii* Sim
Holotype: Cape, Wilderness, Taylor s.n. (Sim 10287).
- Leptotrichum brachypodium* C. Müll.
= *Ditrichum brachypodium* (C. Müll.) Broth.
Isotype: Orange Free State, Kadziberg, Rehmann 86.
- Leucobryum gueinzii* C. Müll.
Iso-syntype: Cape, Montagu Pass, Rehmann 74.
- L. perfalcatum* Sim, nom. illeg.
= *L. rehmannii* C. Müll.
Holotype: Cape, mountains near Esternek, Knysna, Rehmann 75.
- L. rehmannii* C. Müll.
Isotype: Cape, mountains near Esternek, Knysna, Rehmann 75.
- Lindbergia haplocladioides* Dix.
Isotype: Natal, Rydal Mount, Wager 29.
- L. viridis* Dix.
Isotype: Transvaal, Kaapsche Hoop, Wager 310.
- Macromitrium confusum* Mitt.
= *Macrocoma lycopodioides* (Schwaegr.) Vitt
Iso-syntypes: Cape, Table Mountain, Rehmann 165b, 166; Claremont, Rehmann 162; Camps Bay, Rehmann 159.
- M. schlotheimiaeforme* Par.
Isotype: Cape, Devils Peak, Rehmann 151.
- Meteorium rehmannii* C. Müll.
= *Squamidium biforme* (Hampe) Broth.
Iso-syntype: Cape, Montagu Pass, Rehmann 323.
- Microthamnium cavifolium* Dix.
= *Mittenothamnium cavifolium* (Dix.) Wijk & Marg.
Syntypes: Natal, Inanda, Rehmann 368; Inanda, Wood s.n. (Rehmann 654); Pietermaritzburg, Wager s.n.
- Microthamnium ctenidioides* Dix.
= *Mittenothamnium ctenidioides* (Dix.) Schelpe
Isotype: Cape, near Hogsback, Henderson & Henderson 220.
- Mielichhoferia subnuda* Sim
Syntypes: Natal, Mooi River, Sim 10217, 10197; Goodoo, Wager 788; Bergville, Wager 715; Ladysmith, Wager 686.
- Nanobryum drummondii* Dix.
= *N. gladiolus* (Mitt.) Bizot
Iso-syntype: Cape, Port St Johns, Wager 955.
- Neckera pseudocrispa* C. Müll.
= *Calyptothecium acutifolium* (Brid.) Broth.
Isotype: Natal, Van Reenen's Pass, Rehmann 328.
- Oedipodium australe* Wag. & Dix.
= *Oedipodiella australis* (Wag. & Dix.) Dix.
Iso-syntypes: Natal, near sea, Wager 3; Cape, Pirie Forest, King William's Town, Wager 823.
- Orthotrichum macleani* Sim
Holotype: Cape, Graaff-Reinet, McLea s.n. (Rehmann 514).
- O. mirum* Lewinsky
Holotype: Natal, Scheepers's Nek, Sim 10104.
- O. piliferum* Sim.
= *O. glaucum* Spreng.
Lectotype: Cape, Uitenhage, Sim 9001; Isotypes: Eastern Cape, McLea s.n. (Rehmann 516); King William's Town, Sim 7053; Jager's Drift, Sim 10099.
- O. transvaaliense* Rehm. ex Sim
Holotype: Transvaal, Houtbosch, Rehmann 517.
- Oxyrrhynchium confervoideum* Sim
Holotype: Natal, Maritzburg, Sim 10278B.
- O. subasperum* Sim
Syntype: Zululand, Mtunzini, Edwards s.n.
- Philonotis afrocapillaris* Dix. ex Sim
Isotype: Cape, Wilderness, Taylor s.n. (Sim 10153).
- P. laeviuscula* Dix.
Isotype: Rhodesia, Umtali, Teague 253.
- Physcomitrium succuleatum* Wag. & Wright
Isotype: South Africa, Wager s.n.
- Plagiothecium hendersonii* Dix.
= *Entodon dregeanus* (Hornsch.) C. Müll.
Iso-syntypes: Cape, Hogsback, D. Henderson 366, 365.
- P. membranosulum* C. Müll.
Isotype: Cape, Table Mountain, Rehmann 389.
- P. rhynchostegioides* C. Müll.
Iso-syntype: Cape, Hex River Mountains, Rehmann 396.
- P. selaginelloides* C. Müll.
= *P. membranosulum* C. Müll.
Iso-syntype: Cape, mountains near Rondebosch, Rehmann 390.
- Platygyrium afrum* C. Müll.
= *Hypnum cupressiforme* var. *capense* Fleisch.
Isotype: Cape, prope Rondebosch, Rehmann s.n.
- Polytrichum flexicaule* C. Müll.
= *P. commune* Hedw.
Iso-syntype: Cape, near Esternek, Rehmann 275.
- P. natalense* Sim.
Syntypes: Natal, Upper Bushman's River, Sim 8671; Mount aux Sources, Edwards s.n. (Sim 9696).
- P. trichodes* C. Müll.
= *P. commune* Hedw.
Isotype: Natal, Inezanga, Rehmann 277.
- Porothamnium woodii* Sim
= *Stereophyllum woodii* (Sim) Magill
Isotype: Natal, Wood 285.
- Porotrichum natalense* C. Müll.
= *Porothamnium natalense* (C. Müll.) Fleisch.
Isotype: Natal, Inanda, Rehmann 334.
- P. pennaforme* C. Müll.
= *Porothamnium pennafrondeum* (C. Müll.) Card.
Iso-syntype: Cape, mountains near Blanco, Rehmann s.n.
- Pottia afrophaea* C. Müll.
= *Hyophila afrophaea* (C. Müll.) Warnst.
Isotype: Orange Free State, Bethlehem, Rehmann s.n.
- P. subplanomarginata* Dix.
Isotype: Cape, Stellenbosch, Wager 671.
- Pseudoleskea macowaniana* C. Müll.
= *P. leskeoides* (Par.) C. Müll.
Isotype: Cape, Somerset East, Mt Boschberg, MacOwan 1877.
- Psilopilum afrolaevigatum* Dix.
Isotype: Natal, Rosetta, Sim 8068.
- P. wageri* Broth. in Dix.
Isotype: Natal, Rydal Mount, Wager 45.

- Pterygoneurum macleanum* Warnst.
 Isotype: Cape, Graaff Reinet, *McLea* s.n. (*Rehmann* 461).
- Ptychomitriopsis africana* Dix.
 Isotype: Transvaal, Soutpansberg, Lake Funduzi, *Wager* 1122.
- Ptychomitrium eurybasis* Dix.
 Iso-syntypes: Rhodesia, Matopos, *Sim* 8851; Zimbabwe, *Sim* 8808; Macheke, *Eyles* 1994.
- Racomitrium drakensbergense* Sim
 = *R. crispulum* (*Hook. f. & Wils.*) Dix.
 Holotype: Natal, Giant's Castle, *Symons* s.n. (*Sim* 8697).
- Rhapidorrhynchium zuluense* Sim
 = *Sematophyllum zuluense* (*Sim*) *Magill*
 Holotype: Zululand, Ngoye Forest, *Sim* 10285.
- Rhynchostegium afrostrigosum* C. Müll.
 = *Rhynchostegiella zeyheri* (C. Müll.) *Broth.*
 Isotype: Cape, Cape Town, *Rehmann* 364.
- Schwetschkea rehmannii* C. Müll.
 = *Helicodontium lanceolatum* (*Hampe & C. Müll.*) *Jaeg.*
 Iso-syntype: Cape, Blanco, *Rehmann* s.n., 1875.
- Sciaromium capense* Mitt. ex Dix.
 Isotype: Cape, near Hogsback, D., B. & M. *Henderson* 213.
- Sematophyllum wageri* *Wright ex Wag.*
 Isotype: Natal, *Wager* s.n.
- Semibarbula elongata* Hilp.
 = *Barbula zambesii* *Magill*
 Iso-syntypes: Rhodesia, Victoria Falls, *Sim* 8895, 8897, 8898.
- Stereophyllum natalense* *Sim*
 Holotype: Zululand, Ngoye Forest, *Sim* 10275.
- Syrhophodon uncinifolius* C. Müll.
 Isotype: Cape, Montagu Pass, *Rehmann* 129.
- Thamnum afrum* C. Müll.
 = *Porothamnum hildebrandtii* (C. Müll.) *Fleisch.*
 Iso-syntype: Natal, Van Reenen's Pass, *Rehmann* 329.
- Thuidium amplexicaule* C. Müll.
 = *Haplocladium angustifolium* (*Hampe & C. Müll.*) *Broth.*
 Isotype: Natal, Van Reenen's Pass, *Rehmann* 392.
- T. sublaevipes* Dix.
 = *T. ramusculosum* (Mitt.) *Jaeg.*
 Iso-syntypes: Cape, Tjumie, D. *Henderson* 358; Transvaal, Kaapsche Hoop, *Wager* 295.
- T. thamnopsis* Sim
 = *Rigodium kilimandscharicum* (*Broth.*) *Par.*
 Holotype: Transvaal, Mac-Mac, *McLea* s.n. (*Rehmann* 647).
- Timmiella pelindaba* *Magill*
 Holotype: Transvaal, Pelindaba, *Bosman* 1607.
- Tortella obtusifolia* Dix.
 = *Barbula umtaliensis* *Magill*
 Isotype: Rhodesia, Umtali, *Eyles* 1741.
- Tortella opaca* Dix.
 = *Weissia opaca* (Dix.) *Magill.*
 Iso-syntypes: Rhodesia, Victoria Falls, *Sim* 8884, 8890.
- T. petrieana* Sim
 = *T. humilis* (*Hedw.*) *Jenn.*
 Holotype: Natal, Glynn Falls, *Sim* 10063.
- Tortula irregularis* Sim
 = *T. hildebrandtii* (C. Müll.) *Broth.*
 Holotype: Natal, Edendale Falls, *Sim* 10064.
- Trachyphyllum maximum* Dix.
 Isotype: Rhodesia, Makoni, *Nobbs* 1317b.
- Trematodon africanus* *Wag. & Dix.*
 Syntypes: Natal, *Wager* s.n.; Transvaal, Tzaneen, *Wager* s.n.
- T. ligulatus* *Rehm. ex Roth.*
 = *T. mayottensis* *Besch.*
 Isotype: Natal, Oakford, *Rehmann* 22.
- T. pillansii* Dix. in *Sim*
 Iso-syntypes: Cape, Platteklip Ravine, *Sim* 9282; Table Mountain, *Sim* 9297; Miller's Point, *Pillans* 4058, 4060.
- Trichostomum afrofontanum* C. Müll.
 = *Barbula afrofontana* (C. Müll.) *Broth.*
 Isotype: Natal, Van Reenen's Pass, *Rehmann* 82.
- T. atrovirens* C. Müll.
 = *Hyophila atrovirens* (C. Müll.) *Broth.*
 Isotype: Natal, Van Reenen's Pass, *Rehmann* 119.
- T. cyathiforme* Dix.
 = *Hypnodontium dregei* (*Hornsch.*) C. Müll.
 Isotype: Rhodesia, Victoria Falls, *Sim* 8934.
- T. rehmannii* Sim
 = *T. tortuloides* *Sull. & Lesq.*
 Holotype: Transvaal, Pilgrim's Rest, *McLea* s.n. (*Rehmann* 471).
- Triquetrella strictissima* C. Müll.
 = *T. tristicha* (C. Müll.) C. Müll.
 Isotype: Cape, Wellington, *Rehmann* 144.
- Webera depauperata* Sim
 = *Pohlia depauperata* (Sim) *Schelte*
 Holotype: Natal, Giant's Castle, *Symons* s.n. (*Sim* 10208).
- W. macleani* Sim, nom. illeg.
 = *Pohlia macleani* (Sim) *Schelte*
 Holotype: Cape, Rhenosterberg, *McLea* s.n. (*Rehmann* 548).
- W. revoluta* Sim, hom. illeg.
 = *Pohlia simii* *Schelte*
 Holotype: Transvaal, Houtbosch, *Rehmann* 566.
- Weissia dieterleniae* *Thér.*
 Isotype: Lesotho, Leribe, *Dieterlen* s.n.
- Weisiopsis pulchiretis* Dix.
 Isotype: Natal, Royal Natal National Park, *Wager* 739.
- Zygodon africanus* Sim
 Holotype: Transvaal, Mac-Mac, *McLea* s.n. (*Rehmann* 497).
- Z. dixonii* Sim
 Holotype: Natal, Cathkin Peak, *Sim* 10004.
- Z. leptobolax* C. Müll.
 Isotype: Cape, near Rondebosch, *Rehmann* 379 (499, fide *Dixon & Gepp*, 1923).
- Z. runcinatus* C. Müll.
 Iso-syntype: Cape, Table Mountain, *Rehmann* 150b.
- Z. strictissima* (*Rehm.*) C. Müll.
 = *Triquetrella tristicha* (C. Müll.) C. Müll.
 Isotype: Cape, Wellington, *Rehmann* 144.
- Z. transvaaliensis* Sim
 = *Z. intermedius* B.S.G.
 Isotype: Transvaal, Houtbosch, *Rehmann* 500.

UITTREKSEL

'n Kort oorsig van briologiese versamelings en versamelaars in suidelike Afrika lei 'n katalogus in van tipe eksemplare van suidelike Afrika wat in die Nasionale Herbarium te Pretoria gehuisves is. Die tipe-katalogus, alfabeties gerangskik volgens basioniem, sluit korrekte name, tipe status en etiket data in.

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