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## The Moss Flora of Mauritius

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**Abstract:** The mosses reported from Mauritius were compiled from the literature and are listed with localities and references. Included are collections by the first author made in 2007 on the island. *Barbula indica*, *Campylopus flavicoma*, *Racopilum ayresii* and *Ectropothecium chenagonii*, *Groutiella tomentosa*, *Schlotheimia ferruginosa* and *Trichostomum crispulum* are reported as new to Mauritius. The list includes 238 species. A short survey of the bryological exploration of the island is given.

### Introduction

Mauritius is (with Rodriguez and Réunion) part of the Mascarenes and situated east of Madagascar on 21° S. The climate is determined by the SE winds, resulting in a distinct dry period from May to October and a rainy season from October to April. The rocks are volcanic and originated about 20 million years ago (as in Rodriguez and Réunion). The island is relatively small, about 60 km from W to E and 80 km from N to S, and also relatively low with only a few mountains reaching 800 m altitude. Due to massive habitat destruction and deforestation, the natural forest is almost totally destroyed. Already Renault (1897) stated "l'extension des cultures a forcément diminué la richesse de la végétation spontanée". The lower altitudes are almost totally converted to sugar cane plantations. The largest semi-natural part of the island is the Black River National Park in the SW of the island, a high plateau with partial swampy forests, which is eroded by deep gorges. The SE flanks face the wind clouds and receive precipitation of up to 4000 mm or more. The NW parts are distinctly drier, particularly the higher mountains in the NW part of the Island (Le Pouce and Pieter Botha). The vegetation in the higher parts consists of a secondary growth of *Sideroxylon* bush which is partially forested with *Pinus* and *Eucalyptus*.

### History of the bryological exploration

Mauritius apparently is much undercollected as compared with Réunion or Madagascar. This is shown by the fact that only a few records are included in Renault (1897), who covered the Mascarenes and the Comores. [Either Renault was following the report of Bescherelle 1879–80

adding on it specimens collected by Robillard & Rodriguez or Renauld has seen the same specimens reported by Beschereille]. Even conspicuous species such as *Leucoloma dichelymoides*, which would be collected even by non-bryologists, were not known from Mauritius at that time, and were first recorded by Dixon (1938). Of the numerous species of *Leucoloma*, *Campylopus* or *Fissidens* listed by Renauld (1897), only few to very few originated from Mauritius.

The uninhabited island was taken over by the Netherlands in 1598 but was abandoned in 1710. In 1715, France colonized the island, but lost it during the Napoleonic war in 1810 against Britain, until Mauritius became independent in 1968. In spite of the change in ownership of the island, the French continued the biological exploration, and French is still the common language on Mauritius.

The bryological (and also general botanical or biological) exploration started at the end of the 18<sup>th</sup> century. Biographical data of the collectors can be found in Dorr (1997). The first collector of bryophytes on Mauritius was **Philibert Commerson** (1727–1773), a French physician and naturalist. He travelled with Bougainville around the world 1766–1769. At the end of the trip, he left the expedition to explore Madagascar, Réunion and Mauritius until 1773. Later, 15 species of mosses were attributed to him.

Between 1793 and 1802, **Chevalier Louis Marie Aubert-Aubert du Petit-Thouars** (1758–1832) stayed on Mauritius. He was an officer in the French army who quit his career to study natural science, and planned an expedition together with his brother. He failed to meet him in the harbour at Brest due to the disturbances of the French revolution, and reached Mauritius alone in December 1793, where he started to collect plants, interrupted by trips to Madagascar and Réunion. He returned to France in 1802. From his large collection of plants, there were ten species of mosses new to science, of which two were later synonymized.

**Jean Baptiste Bory de Saint Vincent** (1778–1846) was a French Baron and soldier. He joined an expedition to the "Terres Australes" (Australia) as a zoologist with the ships "Naturaliste" and "Géographe", but was left on the Mascarenes because of health reasons. He stayed a month in April 1801 on Mauritius and stayed on Réunion again in 1802 before his return to France.

Next **Louis Hyacinthe Boivin** (1808–1852), a French botanist and plant collector, especially on the Indian Ocean Islands, took part as botanist on the Oise Expedition (1846–52) and visited Mauritius in 1847–49.

In February 1853, **Nils Johann Andersson** (1821–1888) collected mosses on Mauritius during a voyage around the world. The species were identified and published by Ångström (1873).

The only Mauritian bryophyte collector was **Victor de Robillard**. He was a conchologist and ichthyologist, but also collected cryptogams, during the years 1840–1880. His moss collections are cited by Renauld (1897) from the year 1876. *Campylopus robillardae* was named after him.

**Frère Rodriguez**, a French priest, collected plants in various parts of the world where he was working, including on Réunion and Mauritius in 1891–92 (according to Dorr, 1997) or 1889 (according to Renauld, 1897). The mosses were named by Renauld, the hepatics by Stephani.

**Alfred Voeltzkow** (1860–1947) was a German zoologist and traveller, especially in East Africa and Madagascar, who stayed in the Mascarenes 1890–93 and 1903–05.

All nineteenth century records were summarized by Renauld (1897), who listed 127 species from Mauritius (amongst the more numerous records for Réunion, Madagascar and the other East African Islands).

In the 20th century, the collecting activities were much less, although Mauritius was much easier to reach, especially during the recent decades, when the island became a tourist attraction. In 1935 and 1962, **R.E. Vaughan** collected mosses on Mauritius, which were identified and published by Dixon (1938), and was Honorary Curator at the Mauritius Herbarium at Reduit.

**Gillis Een** visited Mauritius (and Réunion) in 1962, and his liverwort collections were published by Arnell (1965) and mosses by Bizot (1968). More identification of mosses were published later by Een in a series of papers (Een 1976, 1978, 1989, 1993, 1997) after retirement. He also sent specimens to **C.C. Townsend**, who also received specimens from **Mark Coode**, who worked on the “Flore des Mascareignes” at Kew.

In 1966, **Gunnar Erdtman**, a Swedish palynologist, stayed in Mauritius to collect pollen and spores and also collected some bryophytes, which were 34 years later identified and published by Een (2000).

In 1972, **Marshall Crosby** collected on Mauritius. His specimens are deposited in MO and were included in taxonomic revisions. In 1978 and 1985, **Hiroshi Kanda** from the Japanese Institute of Polar Research collected on Mauritius, apparently on the way to or from Antarctica. He collected about 150 specimens, which are listed in a printed database of Antarctic mosses (Kanda 1987); however, only two of them were identified.

**David H. Lorence** collected between 1971 and 1976. Many bryophyte specimens are in MO. Finally, **Tamas Pocs** has also collected there in 1995–1996.

In 2007, the first author spent his holidays on Mauritius. During this two-weeks trip in September, at the end of the dry season, he collected bryophytes in the southeast of the island, mainly within the Black River National Park, which belongs to the highest part of the island (up to 800 m elevation) and is the only larger relatively natural area. The identified collections are included here. The specimens are kept in the herbarium of the author in BONN.

Almost all records from the 19<sup>th</sup> century (representing more than half of the total records) have no locality data. This makes it impossible today to locate rare species. However, the most frequently visited areas of Mauritius were the mountain of Le Pouce just above the capital and Curepipe south of Port St. Louis (an area which is completely settled today), whereas the mountains in the south of the island (Montagne de la Rivière Noir) were more difficult to access at that time.

The data from the nineteenth century were taken from Renauld (1897) but nomenclaturally updated. In a number of occasions records for Mauritius were found to be incorrect, as early collections did not always distinguish between the three islands of the Mascarenes, and in particular a number of taxa recorded for Mauritius were in error, only occurring on Réunion; this has resulted in a number of deletions from the African checklist.

Many records from the last half of the 20<sup>th</sup> century resulted from monographs and revisions, based on material collected earlier (mostly in the 19<sup>th</sup> century), showing the importance of herbarium specimens, even when they were initially misidentified. The publications from the "taxonomic period" between 1970 and 2000 added significantly to the publishing of previously unpublished records (number of records in brackets, data extracted from O'Shea 2006)

Allen et al. 1986 (2)  
Argent 1973 (1)  
Bizot 1974 (1)  
Buck 1979 (1)  
Buck 1980 (1)  
Crosby et al. 1983 (2)  
De Sloover 1983 (3)  
De Sloover 1986 (8)  
Dirkse et al. 1991 (1)  
Eddy 1985 (1987) (5)  
Ellis 2003 (1)

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Enroth 1994 (1)  
 Frahm 1985 (11)  
 Goffinet 1996 (1)  
 Hyvönen 1989 (3)  
 Kruijjer 1997, 2002 (2)  
 LaFarge 2002 (1)  
 Mohamed 1979 (1)  
 Ochi 1972 (8)  
 Orbán 1978 (1)  
 Orbán 1981 (3)  
 O'Shea et al. 1997 (3)  
 Pursell 1987 (1)  
 Reese 1991 (2)  
 Salazar Allen 1993 (5)  
 Snider 1975 (1)  
 Sollman et al. 1996 (1)  
 Tixier 1993 (1)  
 Touw 1976 (1)  
 Vitt 1981 (1)

### List of species

The first and also last compilation of the mosses of the East African Islands dates back to Renault in 1897, who published the famous "Prodrome de la flore bryologique de Madagascar, des Mascareignes et de Comores". The author lists 121 species of mosses, of which 46 species (one third!) were said to be endemic and 58 in common with Réunion.

To get an overview of the moss flora of Mauritius, all species recorded by O'Shea (2006) for Mauritius were entered in a spreadsheet together with the references in chronological order. The list was completed with the records cited in the literature. The checklist by Crosby et al. (1983) could not be used because it does not differentiate between the islands of the Mascarenes.

The extract of this database revealed 253 species which so far were recorded from Mauritius. This is about a hundred species more than the number of hepatics known from Mauritius, of which 158 were counted in the checklist of the East African Island by Grolle (1995), updated by Wigginton (2009). (For comparison: Madagascar 372, Réunion 260, Rodriguez 27, Seychelles 108, Comores 143 liverwort species). The references from the literature were added to this list. In a few cases, no references were found for the records in the database, and in others cases, species were added. The regard of synonyms lowered the number of species again, so the provisional flora now comprises 238 species of mosses.

Conspicuous is the high number of species which are known only from one record, showing the insufficient state of knowledge of the mosses of Mauritius. Also, records of ephemeral species are lacking, which means either that there are none, or the collections on the island has been done only during the dry season.

\* = taxon new to the island

*Acroporium megasporum* (Duby) M.Fleisch. [*Hypnum megasporum* Duby, *Sematophyllum megasporum* (Duby) A. Jaeger; *Macrohymenium megasporum* (Duby) Kis; *Rhaphidostegium megasporum* (Duby) Besch.]

- Ad ligna, de Robillard hb. S; (Duby 1879: 12 as *Hypnum megasporum*, Bescherelle 1880: 307, Renauld 1897, Een 1997); *Rodriguez* (Renauld 1891: 212); on tree near Curepipe, leg. *Vaughan* 1933 (Dixon 1938); Macabé, upland forest 600 m, leg. *Een* (Bizot 1968); Macabé, upland forest 1800 ft., (Bizot 1968); Curepipe, leg. *Vaughan* 1962; Rivière du Poste near Grand Bassin (Een 1997).
- Aerobryopsis capensis* (Müll.Hal.) M.Fleisch. [*Aerobryum pseudocapense* Müll.Hal.; *Aerobryidium subpiligerum* (Hampe) Cardot]  
Without locality, leg. *de Robillard* (Renauld 1891: 210); *Rodriguez* (Renauld 1871: 211); rain forest, Mt. Cocotte, leg. *Vaughan* 1935 (Dixon 1938); without locality, leg. *Erdtman* (Een 2000); Reserve naturelle de lande de Petrin 650 m (Bizot 1968); Le Pouce, forest halfway to the top; Mont Cocotte, plateau N of the mountain 2300 ft. (Een 1976); without localities, leg. *Commerson*, *Perrollet*, *Andersson*, *Mad. Lecoultre* (Bescherelle 1880: 268 as *Aerobryum pseudocapense*)
- Aerobryopsis cirrifolia* (Schwägr.) Paris  
'Insula Mauriti: *Guil. Sieber*' (Müller 1851: 138).
- Aerobryopsis longissima* (Dozy & Molk.) M.Fleisch. [*Aerobryopsis wallichii* (Brid.) M.Fleisch.]  
Without locality, leg. *Mme. Lecoultre* 1871 (O'Shea et al. 1997).
- Anoetangium aestivum* (Hedw.) Mitt. (? *Anoetangium borbonense* Besch.)  
Mt. Cocotte, leg. *Vaughan* 1935 (Dixon 1938); Le Pouce, sur les rochers minés pour faire passer la vieille route de Port Louis à St. Pierre, 550 m, leg. *Een* (Bizot 1968). Black River Nationalpark, Magdalena Falls, trail to Mt. Cocotte, leg. *Frahm* 2007. *A. borbonense* seems to be a local name for the widespread *A. aestivum*.
- Anomodon pseudotristsis* (Müll.Hal.) Kindb. [*Haplohymenium pseudotristsis* (Müll.Hal.) var. *robustum* Bizot; *Pseudoleskea tenuissima* Besch.; *Haplohymenium tenuissimum* (Besch.) Broth.]  
Without locality, leg. *Duisabo* (Bescherelle 1880: 288, Renauld 1891: 210, 1897), *de Robillard* (Renauld 1891: 210, 1897); Le Pouce, forest halfway to the top (Bizot 1968).
- Archidium ohioense* Schimp. ex Müll.Hal. [*Pleuridium globiferum* Brid.]  
Without locality, (Renauld 1897 as *Pleuridium globiferum*, Snider 1975); sur la terre nue mouillée, adhere aux frondes des Lichens crustaces, d'après Bridel (Bescherelle 1879: 39 as *Pleuridium globiferum*)
- Atrichum androgynum* (Müll.Hal.) A.Jaeger  
Jardin botanique de Curepipe, *Onraedt* 1973 (De Sloover 1986).
- Barbella capillicaulis* var. *angustifolia* Dixon & Thér.  
On Litsoea near Curepipe, leg. *Vaughan* 1933 (Dixon 1938).
- Barbella capillicaulis* var. *capillicaulis* (Renauld & Cardot) Cardot  
(Een 1993b).
- Barbula inclinans* Schimp. ex Besch.  
Without locality, leg. *Ayres* (Bescherelle 1879: 343, Renauld 1897).
- \**Barbula indica* (Hook.) Spreng.  
Black River Nationalpark, Magdalena Falls, trail to Mt. Cocotte, leg. *Frahm* 2007.
- Bartramia gigantea* Bory  
Without locality, (Fransén 2004).
- Brachymenium acuminatum* Harv. in Hook. [*B. borgenianum* Hampe; *Mielichhoferia densifolia* Ångström; *Brachymenium densifolium* (Ångström) Broth., *Bryum pungens* Taylor ]  
Without locality, leg. *Ångström* as *Brachymenium densifolium* (Ochi 1972); leg. *Robillard* as *Brachymenium borgenianum* (Renauld 1891: 210, 1897; Ochi 1972); without locality, leg. *Andersson* 1853 (Bescherelle 1879: 377 as *Mielichhoferia densifolia*, Renauld 1897, not cited by Ochi 1972). *J.Ångström* s.n., isotype of *B. densifolium*, (S-PA; L); *Robillard* s.n., as *Bryum borgenianum* (H) (Ochi 1972: 4–5). *Rosulabryum densifolium* (Brid.) Ochyra is an accepted name and not a synonym, but *Brachymenium densifolium* (Ångström) Broth. is synonym of *Brachymenium acuminatum*.

- Brachymerium eurychelium* Besch.  
Plateau au nord de Mt: Cocotte alt 700 m, leg. *Een* (Bizot 1968).
- Brachymerium exile* (Dozy & Molk.) Bosch & Sande Lac.  
2 km NW of le Petrin, slope in forest (Müller 2002).
- Brachymerium leptophyllum* (Bruch & Schimp. ex Müll.Hal.) Bruch & Schimp. ex A.Jaeger  
[*Brachymerium longicolle* Thér.]  
Without locality, leg. *Robillard* as *B. speirocladum* (Ochi 1972).
- Brachymerium nepalense* Hook. in Schwägr.  
Without locality, leg. *Voeltzkow*, type of *Brachymerium microcarpum* and *B. submicrocarpum* (Ochi 1972).
- Brachythecium borgenii* (Hampe) A.Jaeger  
Without locality, *Robillard* 1876, 1881 (Een 1997).
- Brachythecium implicatum* (Müll.Hal.) A.Jaeger [*Brachythecium atrotheca* (Duby) Besch.]  
Ad arborum cortices superficiem magnam saepe obtegens, de *Robillard* (Duby 1879: 8, Bescherelle 1880: 294, Renauld 1891: 201); *Rodriguez* 1889 (Renauld 1891: 212); Ravines de la Réunion, Vacoa, *Darnty* 1876 (Bescherelle 1880: 294, Renauld 1897). [Miss out in O'Shea 2006]
- Breutelia magdalenae* De Sloover  
Yémen, alt. 500 m. base des arbres d'une savane, déc. 1973, *Onraedt* 73 ma 466 et 467 (Hb. Onraedt), (De Sloover 1975: 266–269, fig 230–250).
- Bryoxiphium norvegicum* (Brid.) Mitt.  
Plaine Champagne Nature Reserve, on rock cliff by a stream, rather shaded place, October 1980, leg. *Seto M-57* (OSA) (Kimura & Seto 2003).
- Bryum apiculatum* Schwägr. [*Bryum nitens* Harv.; *Bryum laetenitens* Müll.Hal. in Besch.; *Gemmabryum apiculatum* (Schwägr.) J.R. Spence & H.P. Ramsay, *Bryum nitens* Harv. *Bryum alteoperculatum* Besch.; *Bryum laetenitens* Müll. Hal.]  
Without locality, *Robillard*, 1876, holotype of *Bryum laetenitens* (BM); *Melville* (H) (Ochi 1972: 64); above St Paul, alt. 2000 m. (Een 1976: 214). Without locality, leg. *Aubert du Petit Thouars* (Bescherelle 1880: 234, Renauld 1897 as *Bryum alteoperculatum*); without locality, leg. *Robillard* (type of *Bryum laetenitens*, Bescherelle 1880: 235, Renauld 1897, Ochi 1972).
- Bryum argenteum* var. *argenteum* Hedw.  
Above St. Paul, alt. 2000 m (Een 1976: 214)
- Bryum aubertii* (Schwägr.) Brid. [*Rhodobryum aubertii* (Schwägr.) Thér.]  
Without locality, leg. *Aubert du Petit Thouars* (Bescherelle 1880: 236, Renauld 1897, Ochi 1972).
- Bryum billardieri* var. *billardieri* Schwägr. [*Bryum truncorum* (Brid.) Brid.; *Rosulabryum billardieri* (Schwägr.) J.R. Spence]  
Without locality, leg. *Mairie*; leg. *Robillard* as *Bryum ischyospeiron* (Renauld 1891: 210; Ochi 1972); Macabé, upland forest 1800 ft. (Een 1976); High Forest, on damp rocks det. Dixon as *Bryum nanorrhodon*; without locality leg. *Vaughan* (Een 1989); Black River National Park, Les Mares südlich Petrin; Magdalena Falls, trail to Mt. Cocotte, leg. *Frahm* 2007.
- Bryum coronatum* Schwägr. [*Bryum eurystomum* Renauld & Cardot; *Gemmabryum coronatum* (Schwägr.) J.R. Spence & H.P. Ramsay]  
Rivière du Mat, leg. *Rodriguez*, type of *Bryum eurystomum* (Ochi 1972).
- Bryum erythrocaulon* (Schwägr.) Brid. [*Bryum nanorrhodon* Müll.Hal. in Besch.]  
Without locality, leg. *Commerson*, *Duisabo* 1838; Montagne de la Rivière Noire, leg. *Boivin* (Bescherelle 1880: 237, Renauld 1897), *Robillard* (Renauld 1897); *Robillard* 1876, types of *Bryum ischyrodon* and *Bryum nanorrhodon* (Bescherelle 1880: 237, Mohamed 1979); leg. *Commerson*, type; Perrier Forest Reserve leg. *Goode* (Mohamed

- 1979); on damp rocks, High Forests, leg. *Vaughan* (Dixon 1938); Macabé, upland forest 1800 ft. (Een 1989). This record has been published erroneously as *Bryum billardierei* by Een (1976).
- Bryum huillense* Welw. & Duby [*Rosulabryum huillense* (Welw. & Duby) Ochyra]  
Without details, hb. Melville as *Bryum nanorrhodon* (Renauld 1891: 210; Ochi 1972).
- Bryum leptospeiron* Müll.Hal.  
Without locality, leg. *Robillard* (type, Bescherelle 1880: 236, Renauld 1891: 210, 1897; Ochi 1972); bare rock in Ravenal swamp, near Midlands, leg. *Vaughan* 1935 (Dixon 1938).
- Callicostella brevipes* (Broth.) Broth.  
Le Pouce 1800 ft. (Een 1997).
- Callicostella erosotruncata* Cardot [*Schizomitrium erosotruncatum* (Cardot) Ochyra]  
~~Without locality, *Robillard* s.n., as *Hookeria seychellensis* (PC) (Renauld 1891: 210; [this must be an error] Demaret & Potier de la Varde 1952: 341 (Een 1993b).~~
- Callicostella fissidentella* (Besch.) Kindb.  
Macabé, upland forest alt 550m; Le Pouce, forest halfway to the top, leg. *Een* (Bizot 1968).
- Callicostella lacerans* (Müll.Hal.) A.Jaeger  
Malherbe, leg. *Vaughan* 1935 (Dixon 1938).
- Callicostella parvicellulata* Demaret & P. de la Varde  
Macabé, upland forest 1800 ft.; Malherbe, pine woods near Curepipe, leg. *Vaughan* 1935 (Een 1997).
- Callicostella salaziae* (Besch.) Kindb.  
Mont Cocotte, northern slope (Een 1997).
- Callicostella seychellensis* (Besch.) Renauld [*Hookeria seychellensis* Besch.; *Schizomitrium seychellense* (Besch.) Ochyra]  
Without locality, *de Robillard*, as *Hookeria seychellensis* (Renauld 1891: 210).
- Calliergonella cuspidata* (Hedw.) Loeske  
Curepipe, Botanical Garden, meadow (Müller 2002)
- Calymperes graeffeanum* Müll.Hal. [*Calymperes robillardei* Besch.]  
Without locality, leg. *Robillard* (Renauld 1897).
- Calymperes hispidum* Renauld & Cardot [*Calymperes borgenii* Kiaer; *Calymperes crassilimbatum* Renauld & Cardot]  
Le Pouce, sur les rochers minés pour faire passer la vieille route de Port Louis à St. Pierre, 550 m, leg. *Een* (Bizot 1968); without locality and collector (Reese 1991).
- Calymperes palisotii* Schwägr.  
Le Pouce 1800 ft, det. Orbán, EGR (Een 1993: 48).
- Calymperes tenerum* Müll.Hal.  
Ile aux Aigrettes, leg. *Erdtman* 1966 (Een 2000); St. Aubin, valley below the village leg. *Frahm* 2007.
- Calyptrochaeta asplenioides* (Brid.) Crosby [*Eriopus asplenioides* (Brid.) Besch.]  
Bassin Anglais, Curepipe, near cave, alt. 500 m, leg. *Vaughan* 1935 (Dixon 1938).
- Campylopus arctocarpus* ssp. *madecassus* (Besch.) J.-P.Frahm [*Campylopus madecassus* Besch.]  
Without locality, leg. *Robillard*, *Voeltzkow* as *Campylopus boryanus*; Central Plateau, Le Petrin, leg. *Barclay* 1968; Crown land «Perrier» leg. *Barclay* 1967; Curepipe, Park Hotel, leg. *Henderson* 1967 (Frahm 1985); Versant N du Mt. Cocotte (Bizot 1968); Black River National Park, Black River Visitors Center, Mackabee trail; Black River National Park, trail from road to Piton de la Petite Rivière Noire, leg. *Frahm* 2007.
- Campylopus arcuatus* (Brid.) A.Jaeger [*Campylopus capitiflorus* Mont.]

- Without locality, leg. *Rodriguez* 1891; foot of tree near Mare aux Vacoas 600 m alt., leg. *Vaughan* (Dixon 1938); Les Mares, leg. *Vaughan*; Rivière du Poste, leg. *Coode* (Frahm 1985); Black River National Park, Plaine Champagne, Parakeet trail, leg. *Frahm* 2007.
- Campylopus aureonitens* (Müll.Hal.) A.Jaeger [*Campylopus lonchocladus* Müll.Hal. in Geh.; *Campylopus valentinii* Besch.; *Campylopus flavoviridis* Schimp. in sched.; *Campylopus aongstroemii* Müll. Hal. ex Ångström]
- Without locality, leg. *Rodriguez* 1889 (Renauld 1891: 211, 1897); leg. *Robillard* 1876 as *Campylopus lonchocladus* (type), *Campylopus valentinii* and *Campylopus flavo-viridis*; leg. *Bernier* as *Campylopus valentinii*; leg. *Darutz* as *Campylopus lonchocladus*; leg. *Rodriguez* as *Campylopus lonchocladus*, leg. *Pike*; trail up Le Pouce leg. *Crosby* 1972; Corps du Garde; Midlands reservoir; Rivière du Poste, leg. *Coode* 1974; Petrin leg. *Barclay* (Frahm 1985); Black River National Park, Magdalena Falls, trail to Mt. Cocotte; between Case Noyale and Black River National Park, leg. *Frahm* 2007. Without locality, leg. *Andersson* as *C. aongstroemii* (Bescherelle 1879: 326); sur les rochers, ou il forme de larges plaques de plusieurs metres de longueur, leg. *Robillard* (Bescherelle 1879: 326 as *C. lonchocladus*).
- Campylopus cambouei* Renauld & Cardot  
Perrier Nature Reserve at Lagoa de Vacoas (Een 1989); west flank of Mt. Laporte 1000 ft., leg. *Barclay* (Frahm 1985).
- \**Campylopus flavicoma* Müll.Hal. ex Broth.  
Black River National Park, Les Mares south of Petrin, *Sideroxylon* swamp, on soil, leg. *Frahm* 2007. This species was formerly included in the genus *Bryohumbertia* (and was therefore not included in the treatment of African *Campylopus* species (Frahm 1985), however, molecular studies (Stech 1999) revealed that this genus cannot be maintained but has to be included in *Campylopus*. The former species of *Bryohumbertia* belong to a distinct group with verticillate leaves and are represented in each tropical region with one species, *Campylopus filifolius* in the Neotropics, *Campylopus flavicoma* in Africa and *Campylopus subcomosus* in SE Asia.
- Campylopus flexuosus* var. *flexuosus* (Hedw.) Brid. [*Campylopus boivinianus* Besch.; *Campylopus brachymastix* Müll.Hal. in Besch.]  
Without locality, leg. *de Robillard* as *Campylopus brachymastix* (Bescherelle 1879: 324, Renauld 1891: 210); *Rodriguez* (Renauld 1891: 210), without locality, leg. *Boivin* 1849 (type of *Campylopus boivinianus*, Bescherelle 1879: 320, Renauld 1897, Frahm 1985); leg. *Voeltzkow* 1904; leg. *Duisabo*; leg. *Robillard* 1876, leg. *Rodriguez* 1889 (Renauld 1897, Frahm 1985); Petrin to Grand Bassin Road 2100 ft., leg. *Barclay*; Le Petrin 2100 ft., leg. *Barclay*, 1969, 1974; leg. *Vaughan* 1962; near Rivière du Poste, leg. *Coode* 1974; Les Maries, leg. *Vaughan* (Frahm 1985); Black River National Park, Les Mares südlich Petrin, leg. *Frahm* 2007. Without locality, leg. *Robillard* (Bescherelle 1879).
- Campylopus flexuosus* var. *incacorrallis* (Herzog) J.-P.Frahm  
Le Petrin, upland heath vegetation, leg. *Coode* (Frahm 1985).
- Campylopus julaceus* ssp. *arbogastii* (Renauld & Cardot) J.-P.Frahm  
Le Petrin; near Curepipe Point, leg. *Barclay* (Frahm 1985); Petrin Heath Nature Reserve (Een 1989); Black River National Park, Magdalena Falls, trail to Mt. Cocotte; Bel Ombre trail, leg. *Frahm* 2007.
- Campylopus pilifer* ssp. *pilifer* Brid.  
Le Pouce, on top; without locality, *Vaughan* 1935 (Een 1989); near Curepipe Point, leg. *Barclay* (Frahm 1985). The record of *Campylopus introflexus* (Hedw.) Brid. var. *mauritanus* Dixon with leaves "haud reflexis" might belong here.
- Campylopus praetermissus* J.-P.Frahm  
Malenga at foot of Deux Mamelles, leg. *Coode* (Frahm 1985); SE part of the island, on coastal plain, leg. *Erdtman* (Een 2000).



- Campylopus robillardae* Besch.  
Without locality, leg. *Robillard* (type Bescherelle 1879: 322, Renault 1891: 211, 1897, Frahm 1985); *Rodriguez* 1889 (Renault 1891: 211, 1897, Frahm 1985); Chemin cheval near Grand Bassin, leg. *Vaughan* 1933 (Dixon 1938); Petrin, upland heath, leg. *Barclay* 1969, 1974; Piton Poule, leg. *Barclay* 1974; Petrin Heath Nature Reserve; *ibid.* leg. *Vaughan* 1962; Chemin Cheval near Grand Basin, leg. *Vaughan* (Een 1989, Frahm 1985); Black River National Park, Magdalena Falls, trail to Mt. Cocotte; Piton Savanne; between Case Noyale and Black River National Park, leg. *Frahm* 2007.
- Campylopus thwaitesii* (Mitt.) A.Jaeger [*Campylopus fuscolutescens* Renault & Cardot]  
Without locality, leg. *Robillard* (type of *Campylopus fusco-lutescens*) (Renault 1897).
- Campylopus trachyblepharon* ssp. *comatus* (Renault & Cardot) J.-P.Frahm [*Campylopus comatus* Renault & Cardot]  
Tourbière à *Sphagnum* sur le plateau du Mt. Cocotte alt. 700m (Bizot 1968); Petrin Heath Nature Reserve; in the uplands, leg. *Vaughan* 1936 (Een 1989); Mare aux Vacoas (Dixon 1938); Mare Longue Plateau, leg. *Coode* 1973 (Frahm 1985); Black River National Park, Les Mares S of Petrin, leg. *Frahm* 2007.
- Cardotiella appendiculata* (Renault & Cardot) Vitt  
Le Pouce, forest halfway to the top, leg. *Een* (Goffinet 1996).
- Catagonium nitens* ssp. *nitens* (Brid.) Cardot [*Acrocladium aubertii* Brid.]  
Without localities, *Bory, du Petit Thouars* (Bescherelle 1880: 316, Renault 1897).
- Ceratodon purpureus* (Hedw.) Brid. [*Ceratodon purpureus* var. *brevidens* Besch.]  
Near Grand Bassin, on the path to Savanne, leg. *Bouton* 1864 (Dixon 1938). Without locality, leg. *Ayres* (Bescherelle 1879: 339 as *C. purpureus* var. *brevidens*)
- Chaetomitrium borbonicum* Besch.  
On dense carpets in upland wood, leg. *Vaughan* 1935 (Dixon 1938).
- Cyclodictyon aubertii* (P.Beauv.) Kuntze [*Hookeria aubertii* (P. Beauv.) Müll. Hal.]  
Without locality, leg. *Aubert du Petit-Thouars* (Bescherelle 1880: 282 as *Hookeria aubertii*); Grotte près di Bassin Anglais de Curepipe, alt. 550 m; Le Pouce, forêt à la base de la montagne (Bizot 1968); Malherbe, pine woods near Curepipe, leg. *Vaughan* 1935 (Een 1997).
- Cyclodictyon vallis-gratiae* (Müll.Hal.) Kuntze  
Without locality, *Robillard s.n.* (Demaret & Potier de la Varde 1951: 42)
- Cyclodictyon vesiculosum* (Brid.) Kuntze [*Hookeria vesiculosa* (Brid.) Müll. Hal.]  
Without locality, *Belanger s.n.* sterile (Bescherelle 1880: 283, Renault 1898: 214)
- Ditrichum difficile* (Duby) M.Fleisch. [*Leptotrichum boryanum* Müll.Hal.]  
Without locality, leg. *Bory* (Bescherelle 1879: 340, Renault 1897).
- Ectropothecium intertextum* Renault & Cardot  
Macabé, upland forest (Bizot 1968); without locality, *de Robillard* (Renault 1897); without locality, leg. *Erdtman* (Een 2000).
- Ectropothecium mauritianum* Renault & Cardot [*Ectropothecium arcuatum* Renault & Cardot]  
Without locality, *Rodriguez* 1888 (Renault 1897).
- Ectropothecium nishimurii* O'Shea & Ochyra [*Ctenidium mauritianum* Broth.]  
Malherbe, colonizing base of pine stumps, leg. *Vaughan* 1935 (Dixon 1938 as *Ctenidium mauritianum*). *Voeltzkow s.n.*, 1904 (Nishimura 1985: 75; O'Shea & Ochyra 2000: 121)
- Ectropothecium paillotii* Renault & Cardot  
Without locality, Mauritius (Renault & Cardot 1915: 451)
- Ectropothecium regulare* (Brid.) A.Jaeger  
Without locality, *de Robillard, Rodriguez* 1889 (Renault 1891: 210–211, Renault 1897); *Gratelpoup*; Grois bois, *Boivin*; *Mme. Lecoutre*; sur les bois morts, ravines de Réunion à Vacoa et près de Curepipe, *Darnty* (Bescherelle 1880: 319, Bizot 1968); Le Pouce, forest

- halfway to the top (Bizot 1968); Curepipe, cave near Bassin Anglais; Mare aux Vacoas; Macabé 1800 ft., Le Pouce (Een 1997).
- Ectropothecium regulare* var. *angustifolium* Thér.  
Without locality, *Rodriguez s.n.* (type, Thériot 1923: 461)
- Ectropothecium valentinii* Besch.  
Without locality, *de Robillard* (Renauld 1891: 210, 1897).
- Ectropothecium valentinii* var. *minus* Renauld  
Without locality, *de Robillard* (type, Renauld 1889: 85, 1891: 210)
- Entodon dregeanus* (Hornsch.) Müll.Hal.  
Phoenix, garden on old stone walls and base of trees, leg. *Vaughan* (Een 1997).
- Entodon motelayi* (Besch.) Paris  
Without locality, *de Robillard* (type, Renauld 1897, Buck 1980, Bescherelle 1891).
- Entosthodon borbonicus* Besch.  
Cascade à 1 kilomètre à l'ouest de la Plaine Champagne (Bizot 1968); Le Pouce, on top (Een 1976 as *Funaria borbonica*). According to Brotherus (1925), *Entosthodon borbonicus* is autoicous, *Entosthodon mauritianus* synoicous.
- Entosthodon mauritianus* Schimp. ex Besch.  
Sur la terre près du sommet de la montagne du Pouce, leg. *Darnty* 13 Sept 1874 (Bescherelle 1879: 375, Renauld 1897); Black River National Park, trail from road to Piton de la Petite Rivière Noire, leg. *Frahm* 2007.
- Fissidens crispulus* Brid. [*Fissidens sylvaticus* Griff., *Fissidens arbogastii* Renauld & Cardot]  
Wet clay banks and rocks in stream, Curepipe, leg. *Vaughan* 1933 (Dixon 1938).
- Fissidens darntyi* Schimp.  
Sur la terre humide à Plaisance, leg. *Darnty* (Bescherelle 1879: 334, Renauld 1897).
- Fissidens ovatus* Brid. [*Fissidens cymatophyllus* Müll.Hal.; *Fissidens glaucescens* Hornsch.]  
Le Pouce, sur les rochers minés pour faire passer la vieille route de Port Louis à St. Pierre, 550 m, leg. *Een* (Bizot 1968); versant Nord du Mont Cocotte (Bizot 1968).
- Fissidens palmifolius* (P.Beauv.) Broth.  
Without locality, leg. *Robillard* (Pursell 1987).
- Fissidens plumosus* Hornsch.  
Cascade un kilomètre à l'ouest de la Plaine Champagne (Bizot 1968).
- Fissidens serratus* var. *serratus* Müll.Hal. [*Fissidens papillosus* Sande Lac., *Fissidens eenii* Bizot]  
Le Pouce, sur les rochers mines pour faire passer le vieux chemin entre Port Louis et St. Pierre, leg. *Een* 1962, holotype of *Fissidens eenii* (Bizot 1968, Dirkse et al. 1991); Le Pouce 1800 ft. (Een 1993, Bizot 1968 as *Fissidens eenii*); St. Aubin, valley below the village, leg. *Frahm* 2007.
- Fissidens subplanifrons* Bizot & Onr. ex Brugg.-Nann.  
Cascade de Black River, a la base d'un tronc de *Cyathea* dans le lit du torrent, 600 m alt., leg. *Onraedt* (type, Bizot 1974).
- Floribundaria floribunda* (Dozy & Molk.) M.Fleisch. [*Papillaria fulvastra* Besch., *Papillaria robillardii* Müll.Hal. in Besch.]  
Without locality leg. *de Robillard*, *Rodriguez* 1888 as *Papillaria fulvastra* (Renauld 1891: 210, 1897), *de Robillard* as *Papillaria robillardii* (Bescherelle 1880: 266, Renauld 1891: 210); on *Holalium* near Curepipe, leg. *Vaughan* 1933 (Dixon 1938); Grotte près du Bassin Anglais de Curepipe, alt. 550 m; Le Pouce, forest halfway to the top (Bizot 1968); Curepipe (Kanda 1987); Le Pouce; forest at the base (Een 1976); Le Pouce, forest halfway to the top, Een (1997).
- Floribundaria vaginans* (Welw. & Duby) Broth. [*Floribundaria patentissima* (Müll.Hal.) M.Fleisch.]  
Le Pouce, forest halfway to the top (Bizot 1968).
- Funaria hygrometrica* var. *calvescens* (Schwägr.) Kindb..

- Montagne du Pouce, *Boivin*, sept. 1849 (Bescherelle 1879: 376; Renauld 1909: 99).
- Funaria hygrometrica* var. *mauritiana* (Besch.) Paris  
Montagne du Pouce, dans les Charbonnières, leg. *Boivin* Sept 1849 (Bescherelle 1879: 376, Renauld 1897); on wooden shingles, Curepipe, leg. *Vaughan* 1935 (Dixon 1938).
- Groutiella laxotorquata* (Besch.) Wijk & Margad. [*Macromitrium laxotorquatum* Müll.Hal. in Besch.]  
Without locality, leg. *de Robillard* as *Macromitrium laxotorquatum* (Bescherelle 1879: 362, Renauld 1891: 210); Diego Suarez, leg. *Chenagon* 1890 (Renauld 1897); Le Pouce, sur les rochers minés pour faire passer la vieille route de Port Louis à St. Pierre, 550 m, leg. *Een* (Bizot 1968).
- Groutiella tomentosa* (Hornsch.) Wijk. & Marg.  
Black River Visitor's Center, Mackabee trail, leg. *Frahm* 2007.
- Helicodontium lanceolatum* (Hampe & Müll.Hal.) A.Jaeger  
Phoenix, garden on old stone walls and base of trees, leg. *Vaughan* (Een 1997).
- Hildebrandtiella phleoides* (Desv. ex Brid.) B.H.Allen & Magill [*Hildebrandtiella pachyclada* Besch.]  
Without locality, leg. *de Robillard* (type); *Commerson* (Bescherelle 1880: 264, Renauld 1897: 188; Allen & Magill 2007: 41–42).
- Holomitrium borbonicum* Hampe in Besch.  
Without locality, *Aubert du Petit Thouars* (Bescherelle 1879: 328, Renauld 1897); base of trees near Petrin, leg. *Vaughan* 1962 (Een 1978).
- Holomitrium cylindraceum* var. *cylindraceum* (P.Beauv.) Wijk & Margad. [*Holomitrium vaginatum* Brid.]  
Montagne de la Rivière noire, leg. *Boivin*, leg. *Robillard* (Bescherelle 1879: 327, Renauld 1897); Mont Cocotte, plateau N of the mountain, 2300 ft. (Een 1976); Le Pouce, near top (Een 1978).
- Holomitrium cylindraceum* var. *obtusifolium* (Besch.) Wijk & Margad. [*Schlotheimia commersoniana* Besch.]  
Without locality, associé au *Macromitrium aciculare*, leg. *Commerson* (Bescherelle 1879: 362, Renauld 1897); Trou aux Cerfs near Curepipe leg. *Vaughan* 1962 (Een 1976).
- Holomitrium lepervanchei* Thér.  
Reserve naturelle de la lande Petrin alt 650 m (Bizot 1968).
- Homali dendron exiguum* (Bosch & Sande Lac.) M.Fleisch. [*Homalia valentinii* Besch.]  
Without locality, leg. *Robillard* (Bescherelle 1880: 274 as *Homalia valentinii*); Grotte près du bassin anglais de Curepipe alt 550 m (Bizot 1968); Macabé, upland forest 1800 ft. (Een 1997); Black River National Park, Black River Visitors Center, Mackabee trail, leg. *Frahm* 2007
- Homali dendron flabellatum* (Sm.) M.Fleisch. [*Homali dendron scalpellifolium* (Mitt.) M.Fleisch.]  
Le Pouce, leg. *Balfour s.n.* (NY) (De Sloover 1982: 245).
- Homali dendron piniforme* (Brid.) Enroth [*Pinnatella tamariscina* (Hampe) Broth.]  
On *Eugenia*, bois pomme, Forest of Macabe, leg. *Vaughan* 1935 (Dixon 1938); Mont Cocotte, northern slope (Een 1978).
- Hymenostylium scaturiginosum* (Besch.) Broth.  
Corps du Garde Mountain, anfractuosité de rochers, alt. 260 m, leg. *Staub & Gueno* 1964 (Bizot 1968, Een 1976).
- Hypnum gracilirameum* Müll.Hal. in Renauld  
Without locality, leg. *Robillard*; Landmark (Renauld 1897).
- Hypopterygium tamarisci* (Sw. ex Sw.) Brid. in Müll.Hal. [*Hypopterygium laricinum* (Hook.) Brid., *Hypopterygium mauritianum* Hampe in Besch., *Hypopterygium mauritianum* var. *nanum*

Besch., *Hypopterygium sphaerocarpum* Renault, *Hypopterygium torulosum* Schimp. in Besch., *Hypopterygium pugiunculum* Bosw.]

Montagne de la Rivière noire, leg. *Boivin* 1847; *Andersson*; Mont Bambou, leg. *Darnty*, *Rodriguez* 1889 as *Hypopterygium mauritianum* (Bescherelle 1880: 327, Renault 1891: 211, 1897), *Rodriguez* 1889 as *Hypopterygium mauritianum* (Renault 1891: 211, 1897); without locality, leg. *de Robillard* as *Hypopterygium mauritianum* var. *nanum* (Bescherelle 1880: 327, Renault 1897); Le Pouce, near top (Een 1978 as *Hypopterygium laricinum*); Black River Visitors Center, Macabee trail leg. *Frahm* 2007; without locality and collector (Kruijer 1997); without locality, leg. *Balfour*; *Robillard*; *Onraedt* 1971; Montagne de la Rivière Noire, leg. *Crosby*; Basin Anglais (Kruijer 2002); without locality, leg. *Commerson* (Bescherelle 1880: 326, Renault 1897); Bassin Anglais, near cave, leg. *Vaughan* 1933 (Dixon 1938).

*Isopterygium argyroleucum* Besch.

Associé à *Octoblepharum albidum*, *de Robillard* (Bescherelle 1880: 314, Renault 1891: 210, 1897).

*Isopterygium intortum* (P.Beauv.) A.Jaeger

Inter lichenes ad cortices dejectos, *Robillard* as *Hypnum aoraton* (Duby 1879: 13, Renault 1891: 210); *Bory*; *Grateloup*; sur les paties élevées de la Montagne du Pouce, sur les branches des *Sciophila*, *Boivin* 1849; sur les bois morts près de Curepipe, *Darnty* 22, Mars 1877 (Bescherelle 1880: 316, Renault 1897).

*Jaegerina*. For a key of the African species see Argent (1973).

*Jaegerina formosa* Besch.

Without locality, *de Robillard* (Bescherelle 1880: 263, Renault 1897); Brotherus (1925); Allen et al. (1986); Perrier Nature reserve near Mare aux Vacoas (Een 1976); Petrin Heath Forest; Macabé, upland forest; Le Poué, near top; Mont Cocotte, northern slope; Le Pouce, near top; Piton Grand Bassin 2336 ft., leg. *Vaughan* 1962 (Een 1978); Black River National Park, Black River Gorge viewpoint, trail to cascade; trail from road to Piton de la Petite Rivière Noire; Black River Gorge viewpoint, trail to cascade, leg. *Frahm* 2007.

*Jaegerina retrosquarrosa* B.H.Allen, Crosby & Magill

Montagne Cocotte Nature Reserve, low cloud forest, 770 m alt. Type locality, only known from this record (Allen et al. 1986).

*Jaegerina robillardii* Müll.Hal. (*Jaegerina excurrens* Dixon)

Without locality, *de Robillard* (Bescherelle 1880: 263, Renault 1897); Brotherus (1925); Allen et al. (1986); rain forest, Mt. Cocotte, leg. *Vaughan* 1933 (type, Dixon 1938). The species is not mentioned by Argent (1973).

*Jaegerina solitaria* (Brid.) A.Jaeger

Without locality, leg. *Bory*, leg. *de Robillard* associé à *Hildebrantiella pachclada* (Bescherelle 1880: 261, Renault 1897); *Rodriguez* (Renault 1891: 211); Brotherus (1925); Le Pouce, forest halfway to the top (Bizot 1968); Le Pouce, on top; Mont Cocotte, on top (Een 1976, Allen et al. 1986).

*Leiomitrium plicatum* (P.Beauv.) Mitt. [*Orthotrichum plicatum* P. Beauv.]

Without locality, leg. *M. du Petit-Thouars* (Bescherelle 1879: 355, Vitt 1981).

*Lepidopilidium subrevolutum* (Renault & Cardot) Cardot

Macabé, upland forest alt. 550 m (Bizot 1968).

*Lepidopilium lastii* Mitt. [*Lepidopilium carrougeauanum* Thér. & P. de la Varde]

Le Pouce, forest near the top (Een 1997 as *Lepidopilium carrougeauanum*).

*Leptodon fuciformis* (Brid.) Enroth [*Thuidium fuciforme* Brid., *Pinnatella fuciforme* (Brid.) Touw]

Without details (Bridel 1812: 432, repeated by Renault 1897: 224 and Touw 1976: 190 without comment).

*Leskea mauritiana* Besch.

- Without locality, associé au *Pterogoniella schimperi* et au *Leptohyemium fabronioides*, leg. *Darnty* (Bescherelle 1880: 287, Renault 1897).
- Leucobryum boryanum* Besch.  
Without locality, leg. *Erdtman* (Een 2000).
- Leucobryum comorense* Müll.Hal.  
Without locality, leg. *Rev. Rodriguez* (Cardot 1904: 106, Renault & Cardot 1915: 140).
- Leucobryum isleanum* Besch.  
Without locality, leg. *Duisabo* (Renauld 1897).
- Leucobryum isleanum* var. *molle* (Müll.Hal.) Cardot  
Without locality, leg. *Rodriguez* 1889 (Renauld 1897).
- Leucobryum mayottense* Cardot [*Ochrobryum boivini* Besch.]  
Sommet du Mont Cocotte alt. 740 m (Bizot 1968); Piton Grand Bassin 2336 ft., leg. *Vaughan* 1962; Mont Cocotte, northern slope (Een 1978).
- Leucobryum perrotii* Renault & Cardot  
Curepipe, leg. *Rodriguez* (Renauld 1897).
- Leucoloma amblyacron* Müll.Hal in Besch. [*Leucoloma brevifolia* Dixon & P.de la Varde]  
Without locality, leg. *Robillard* (Bescherelle 1879: 313, Renault 1889, LaFarge 2002); *Rodriguez* (Renauld 1891: 211).
- Leucoloma bifidum* (Brid.) Brid.  
Without locality, leg. *Bordas* (Bescherelle 1879: 309–310, Renault 1897); leg. *Voeltzkow*; *Robillard* (LaFarge 2002).
- Leucoloma candidulum* Müll.Hal. in Besch.  
Without locality, leg. *Robillard* (Bescherelle 1879: 314, LaFarge 2002); *Rodriguez* (Renauld 1891: 211).
- Leucoloma cinclidiotioides* Besch.  
Perrier Nature Reserve near Mare aux Vacoas (Een 1989, not mentioned in LaFarge 2002).
- Leucoloma dichelymoides* (Müll.Hal.) A.Jaeger  
Pendulous on heath bushes, in upland scrubs, leg. *Vaughan* 1935 (Dixon 1938); Petrin, *Philippia* heath, leg. *Vaughan* (Dixon 1938); Petrin Heath Nature Reserve (Een 1989); without locality, leg. *Coode*; *Barclay*; *Een*; *Guého*; *Vaughan*; *Crosby* (LaFarge 2002); Black River National Park, Piton Savanne; Black River National Park, Les Mares südlich Petrin, leg. *Frahm* 2007.
- Leucoloma fuscifolium* Besch. [*Leucoloma dubyanum* Besch.]  
Without locality, leg. *Rodriguez* 1889 (Renauld 1897); *M. de Lecoultre* (Bescherelle 1879: 16, Renault 1897, LaFarge 2002), type of *Leucoloma dubyanum*; Chemin cheval near Grand Bassin, leg. *Vaughan* 1933 (Dixon 1938).
- Leucoloma grimmioides* P.de la Varde  
Rivière de galets above '500 foot falls' leg. *Guého* (Tixier 1993: 41, as *Leucoloma guehoi*); Mont Pouce; Mt. Deux Mamelles; above La Grande case Royale, leg. *Crosby*, *Pócs*, *Florens* (LaFarge 2002).
- Leucoloma isleanum* Besch. ex Paris  
Without locality, *Voeltzkow s.n.* 1903–4 (Renauld 1909: 98).
- Leucoloma lepervancheri* Besch.  
Without locality, leg. *Barclay* (LaFarge 2002).
- Leucoloma longifolium* (Brid.) Wijk & Margad. [*Leucoloma sinuosum* (Brid.) A.Jaeger, *Leucoloma sinuosum* var. *setifolium* Besch.]  
Curepipe, on tree, leg. *Vaughan* 1933; base of tree, Parc aux Cerfs, leg. *Vaughan* 1935 (Dixon 1938); plateau au nord du Mt. Cocotte; Macabé, upland forest 550 m alt.; cascade à 1 kilomètre à l'ouest de la Plaine Champagne (Bizot 1968); *Duisabo*, leg. *de Robillard*

- (Bescherelle 1879, Renault 1891: 211, 1897); Perrier Nature Reserve near Mare aux Vacoas; Mont Cocotte, northern slope (Een 1989).
- Leucoloma pallidulum* Thér.  
Without locality, leg. *Rodriguez* as *Leucoloma candidulum* (LaFarge 2002).
- Leucoloma persecundum* Müll.Hal. in Besch.  
Without locality, leg. *Robillard* (Bescherelle 1879: 314, LaFarge 2002); Macabé, upland forest 550 m alt. (Bizot 1968).
- Leucoloma rutenbergii* var. *porosis* Thér.  
Without locality, leg. *Aubert* (LaFarge 2002).
- Leucoloma seychellense* Besch. [*Leucoloma crepinii* Renault & Cardot, *Leucoloma bifidum* var. *orthothecioides* Besch., *Leucoloma acutum* Müll.Hal.]  
Without locality, leg. *Duisabo*; leg. *Rodriguez* 1896 (type of *Leucoloma crepinii*, Renault 1891: 211, 1897; LaFarge 2002); leg. *Bordas* (in herb.) (Bescherelle 1879: 310); leg. *Duisabo* (Renault 1897, LaFarge 2002); Le Pouce, sommet 800 m alt.; forest halfway to the top; versant Nord du Mont Cocotte alt. 700 m; réserve naturelle de la lande Pétrin (Bizot 1968); Petrin Heath Nature Reserve; Le Pouce (Een 1989); sur la montagne de Pouce, *Darnty*, juin 1874, no. 25 (Hb. Schimper) as *Leucoloma bifidum* var. *orthothecioides* (Bescherelle 1879: 310; LaFarge 2002); leg. *Pike*, type of *Leucoloma acutum* (LaFarge 2002).
- Leucoloma sinuosulum* Müll.Hal. in Besch.  
Without locality, leg. *Robillard* (type, Bescherelle 1879: 315, LaFarge 2002), *Rodriguez* (Renault 1891: 211), leg. *Duisabo* (Bescherelle 1879: 315).
- Leucophanes angustifolium* Renault & Cardot in Renault [*Leucophanes mayottense* Cardot]  
Sommet du Mont Cocotte 740 m alt (Bizot 1968 as *Leucophanes mayottense*).
- Leucophanes hildebrandtii* Müll.Hal.  
Without locality, leg. *Commerson* (Bescherelle 1879: 338, Renault 1897, Salazar Allen 1993).
- Leucophanes molleri* Müll.Hal.  
Salazar Allen (1993) only mentions the distribution by a map (p. 227), which appears to show a location on Mauritius.
- Leucophanes octoblepharioides* Brid.  
Without locality and collector (Salazar Allen 1993). Black River Visitors Center, Mackabee trail, leg. *Frahm* 2007.
- Leucophanes renauldii* Cardot  
Mont Cocotte, northern slope (Een 1978).
- Leucophanes rodriguezii* Müll.Hal.  
Without locality, leg. *Rodriguez* 1889 (Renault 1891: 211, 1897, Salazar Allen 1993); Le Pouce, forest halfway to the top (Een 1978).
- Lopidium struthiopteris* (Brid.) M.Fleisch.  
Without locality and collector (Kruijer 1997), leg. ? *Jussieu* in hb. S (Een 1997); without locality, leg. *Commerson* (Kruijer 2002).
- Macrohymenium acidodon* (Mont.) Dozy & Molk.  
Le Pouce 1800 ft. (Een 1997).
- Macromitrium calomicron* Broth.  
Without locality or collector (Renault 1909: 99).
- Macromitrium fimbriatum* (P.Beauv.) Schwägr.  
Without locality, leg. *Commerson*; *Du Petit-Thouars* (Bescherelle 1879: 358, Renault 1897).
- Macromitrium fimbriatum* var. *chloromitrium* Besch.  
Montagne du Pavillon, leg. *Boivin* (Bescherelle 1879: 359, Renault 1897).
- Macromitrium funicaule* Schimp. in Besch.

La Montagne Rouge aus Troix-Ilets, leg. *Darnty* 1874 (hb. S); Perrier Nature Reserve near Mare aux Vacoas; Mont Cocotte, on top (Een 1978); Sur les arbres de la montagne Rouge, aux Troix-Ilets, leg. *Darnty*, juin 1874 (Bescherelle 1879: 359)

*Macromitrium mauritianum* Schwägr.

Without locality, leg. *Sieber*; montagne de la Rivière Noire, leg. *Boivin* 847, *Andersson*, *Robillard*, (Bescherelle 1879: 361, Renault 1891: 210–211, 1897), leg. *Rodriguez* (Renault 1891: 210–211, 1897); leg. *Voeltzkow* 1904 (hb. S); Sommet du Mt. Pouce alt. 800 m; Le Pouce, sur les rochers minés pour faire passer la vieille route de Port Louis à St. Pierre, 550 m, leg. *Een* (Bizot 1968); Petrin Heath Nature Reserve; Le Pouce, on top; forest half way to the top; Perrier Nature Reserve 1750 ft., leg. *Vaughan* 1962.

*Macromitrium mauritianum* var. *viride* Broth.

Without details, only recorded from the type specimen (Brotherus 1908: 55).

*Macromitrium pallidum* (P.Beauv.) Wijk & Margad. [*Macromitrium aciculare* Brid.]

Without locality, leg. *Aubert du Petit-Thouars*; sur les rochers ombragés et bois morts, montagne de Pouce; anse Courtois, montagne de corps de garde, leg. *Boivin* (Bescherelle 1879: 360, Renault 1897); Rock, Good End, leg. *Vaughan* 1935 (Dixon 1938); Le Pouce, halfway to the top (Een 1978); Black River National Park. Piton Savanne; Black River Visitor's Center, Mackabee trail; Black River gorge viewpoint, trail to cascade, leg. *Frahm* 2007.

*Macromitrium voeltzkowii* Broth.

Without locality, *Voeltzkow* 1904 (S ex hb. Brotherus) (Renault 1909: 99).

*Meiothecium madagascariense* (Brid.) Broth.

Without locality, leg. *Rodriguez*, det. Thériot in hb. S; Phoenix, garden on old stone walls and base of trees, leg. *Vaughan* 1953 (Een 1997).

*Mesonodon flavescens* (Hook.) W.R.Buck [*Campylocladus flavescens* (Hook.) Bosch. & Sande Lac., *Lepyrodon mauritianus* Müll.Hal. ex Besch.]

Without locality, leg. *de Robillard* (Bescherelle 1880: 261, Renault 1891: 210, 1897).

*Mittenothamnium madagassum* (Besch.) Cardot

Curepipe, cave near Bassin Anglais (Bizot 1968; Een 1997).

*Mittenothamnium reptans* (Hedw.) Cardot

Curepipe, leg. Bijoux 1906 hb. S (Een 1997).

*Mitthyridium fasciculatum* var. *fasciculatum* (Hook. & Grev.) H.Rob. [*Syrrhopodon fasciculatus* Hook. & Grev.]

Without locality, leg. *Robillard* (Renault 1891: 210, 1897).

*Neckeropsis lepineaana* (Mont.) M.Fleisch. [*Neckera comorae* Müll.Hal.]

Without locality, *Ryres* (NY) (Touw 1962: 385); without locality, *de Robillard* (hb. Duby & Geheeb) as *Neckera comorae* (Bescherelle 1880: 272; Renault 1891: 210); without details (Renault & Cardot 1915: 372).

*Octoblepharum albidum* Hedw.

Without localities, leg. *Commerson*, *Robillard*, *Rodriguez*; sur les arbres pourris, leg. *Richard*; montagne de la Riviere Noire, leg. *Boivin*, (Bescherelle 1879: 338, Renault 1891: 210–211, 1897); on *Raphia* palm, Curepipe Botanic Gardens, leg. *Vaughan* 1933 (Dixon 1938); Curepipe (Kanda 1987); Black River National Park, Black River Visitors Center, Mackabee trail, leg. *Frahm* 2007.

*Orthostichella longinervis* (Renault & Cardot) B.H.Allen & Magill [*Orthostichopsis longinervis* Renault & Cardot]

Without locality, *Rodriguez s.n.*, det. Thériot (Hb. S) as *Orthostichopsis longinervis*; Black River, leg. *Lorence* 1587, 1599 (hb. MO); without locality, leg. *Rodriguez* (hb. PC) (Allen & Magill 2007); Macabé, upland climax forest, alt. 1800 ft, *Een* M513, 1962 (Een 1997).

*Orthostichella rigida* (Müll.Hal.) B.H.Allen & Magill

- Plaines Wilhems, leg. *Bijoux* (hb. L) (Allen & Magill 2007)
- Orthostichidium pentastichum* (Brid.) B.H.Allen & Magill [*Orthostichella pentasticha* (Brid.) W.R.Buck]  
Without locality, leg. *Anderson* 1853, hb. S; Le Pouce 1800 ft. (Een 1997); without localities, leg. *Commerson* (type, hb PC), leg. *Danty 14* (hb. H-Bescherelle) (Allen & Magill 2007).
- Papillaria acinacifolia* Besch.  
Parait frequent das l'île, *de Robillard* (Renauld 1888, 1891, 1897).
- Papillaria africana* (Müll.Hal.) A.Jaeger [*Papillaria boiviniana* Besch.]  
Montagne de la Rivière noire, leg. *Boivin*; without locality, leg. *de Robillard* (Bescherelle 1880: 264, Renauld 1888, 1891, 1897); without locality, leg. *Rodriguez* 1889 (Renauld 1888, 1891, 1897); Perrier Nature reserve near Mare aux Vacoas (Een 1978).
- Papillaria renauldii* Besch.  
Without locality, *de Robillard* (Renauld 1888, 1891, 1897).
- Philonotis gracilescens* Schimp. in C.H.Wright  
Leg. *Ayres*, hb. S; Mont Cocotte, northern slope (Een 1976).
- Philonotis mauritiana* Ångstr. [*Philonotis luteo-viridis* Besch.]  
Without localities, leg. *Boivin*, *Andersson*, *Robillard* (Bescherelle 1880: 244, Renauld 1891: 210–211, 1897); Cascade à 1 kilomètre à l'ouest de la Plaine Champagne (Bizot 1968); Le Pouce 1800 m (Een 1976); bord des ruisseaux pres de Plaisance, leg. *Darnty* juin 1874 as *Philonotis luteo-viridis* (Bescherelle 1880: 245).
- Pinnatella minuta* (Mitt.) Broth.  
West flank of Mt. Laporte 800 ft., *Barclay* 1968 (Enroth 1994).
- Pogonatum*. For keys and illustrations see De Sloover (1986), Hyvönen (1989).
- Pogonatum belangeri* (Müll.Hal.) A.Jaeger  
Entre les pierres au mont Pouce, leg. *Belanger* (type, Bescherelle 1880, Renauld 1897, Hyvönen 1989); leg. *Voeltzkow*; Bel Ombre, Coode 1973; Mare aux Vacoas, *Barclay* 1972; Piton de la Rivière noire; Piton Grand Bassin, *Crosby* 1972; Curepipe, *Onraedt* 1973; Rivière du Pont, *Onraedt* 1971 (De Sloover 1986); road from Baye du Cap to Chamarel, leg. *Frahm* 2007.
- Pogonatum capense* (Hampe) A.Jaeger  
Without locality, leg. *Ayres* (De Sloover 1986).
- Pogonatum convolutum* (Hedw.) P.Beauv. [*Pogonatum rutenbergii* (Geh.) Paris]  
Without locality and collector (De Sloover 1986, Hyvönen 1989).
- Pogonatum gracifolium* Besch. [*Pogonatum rubenti-viride* (Müll.Hal.) Paris]  
Without locality, leg. *Ayres* (De Sloover 1986); Black River National Park, Savanna trail, leg. *Frahm* 2007.
- Pogonatum marginatum* Mitt.  
Without locality, leg. *Howard* s.n. (NY, hb. Mitten) (De Sloover 1986: 245); *Steward* s.n. (NY) (Touw 1986: 14). There is doubt about this species: Touw (1986: 14) comments: "Mitten's herbarium at NY contains an unidentified specimen labelled 'S.U.S., Mauritius, Mr Steward' (or Howard?) that J.L. de Sloover recognized as being *P. marginatum*. Though the occurrence of that species in Mauritius cannot be ruled out, mislabelling might have taken place, as British ships sailing between Europe and Sri Lanka may have called at Mauritius. During his work on African Polytrichaceae Dr. De Sloover (pers. comm.) did not find any more collections of *P. marginatum*."
- Polytrichastrum formosum* (Hedw.) G.L.Sm. [*Polytrichum formosum* Hedw., *Polytrichum calopogon* Besch., *Polytrichum mauritianum* Müll.Hal. in Besch.]  
Without locality, leg. *de Robillard*, *Rodriguez* (Bescherelle 1880, Renauld 1891: 210–211); leg. *Commerson* as *Polytrichum calopogon* (Bescherelle 1880: 256, De Sloover



- 1986); Le Pouce, leg. Ayres 1857 (De Sloover 1986). Without localities, leg. *Commerson, de Robillard* (Bescherelle 1880: 255)
- Polytrichum*. For keys and illustration see De Sloover (1986).
- Polytrichum commune* Hedw. [*Polytrichum elatum* P.Beauv.; *Polytrichum remotifolium* P. Beauv.]  
In montibus ignivomis, du *Petit Thouars* (Duby 1876: 362); without locality, leg. *Ångström* as *Polytrichum remotifolium*, hb. S; au milieu des *Sphagnum*, leg. *Commerson* as *Polytrichum elatum* (Bescherelle 1880: 257, Renault 1897, De Sloover 1986); Plaine Champagne, heath (Een 1993); Without localities, leg. *Commerson*, leg. *Bory* as *Polytrichum remotifolium* (Bescherelle 1880: 254)
- Polytrichum subpilosum* P.Beauv. [*Polytrichum subformosum* Besch., fide De Sloover 1986].  
Without locality, leg. *Du Petit-Thouars*, as *Polytrichum appressum* (Duby 1876: 362); leg. *Commerson, de Robillard, Rodriguez* 1888 as *Polytrichum subformosum* (Renault 1897, De Sloover 1986); leg. *Bory, Ayres, Thomas, Bojer, Voeltzkow*; Le Pouce, *Coode* 1973; Curepipe, leg. *Rodriguez*; Riv. du Poste, *Barclay* 1967; *Onraedt* 1971, 1974; *Coode* (De Sloover 1986); without locality, leg. *Erdtman* (Een 2000); between Case Noyale and Black River National Park 250–700 m; Black River National Park, Bel Ombre trail, leg. *Frahm* 2007.
- Porotrichum*. For keys and illustration see De Sloover (1983).
- Porotrichum elongatum* (Welw. & Duby) A.Gepp [*Porothamnium comorense* (Müll.Hal.) Sim, *Porotrichum robillardii* Müll.Hal. in Besch. fide de Sloover 1983]  
Without locality, *de Robillard* 1876, lectotype of *Porothamnium robillardii* (Bescherelle 1880: 274, Renault 1891: 210); *Rodriguez* (Renault 1891: 211); *Balfour, Voeltzkow* 1887; *Melville*; le Pouce, *Ayres* 1862; Macabé, *Onraedt* 1971; Bassin anglais, leg. *Vaughan* 1933 (Dixon 1938); grotte près du bassin anglais, *Onraedt* 1981; (Bizot 1968); Le Pouce, forest at base (Een 1976); near Macabé Road turning to Brise Fer 1850 ft., leg. *Vaughan* 1962; Le Pouce 1800 ft. (Een 1978); St. Aubin, valley below the village, leg. *Frahm* 2007.
- Porotrichum madagassum* Kiaer in Besch.  
Le Pouce, *Ayres* 1862 (De Sloover 1983).
- Porotrichum stipitatum* (Mitt.) W.R.Buck [*Thamnium hildebrandtii* (Müll.Hal.) A.Jaeger]  
Without locality, associé au *Rhacopilum, de Robillard* (Bescherelle 1880: 276, Renault 1897).
- Porotrichum usagarum* Mitt. [*Porotrichum molliculum* Broth.]  
Without locality and collector (De Sloover 1983).
- Prionodon ciliatus* Besch.  
Without locality or collector (Bizot & Pocs 1974: 431)
- Pyrrhobryum spiniforme* (Hedw.) Mitt. [*Rhizogonium spiniforme* (Hedw.) Bruch; *Rhizogonium mauritianum* Hampe ex Besch.]  
Montagne du Pavillon, leg. *Boivin* 1847, *Vesco* 1850, *de Robillard, Rodriguez* (Bescherelle 1880: 242, Renault 1891: 211, 1897); Macabé, upland forest 1800 ft.; Le Pouce, forest half way to the top (Bizot 1968, Een 1976); without locality, leg. *Vaughan* (Dixon 1938); Curepipe, Parc Hobell (Bizot 1968); Piton Grand Bassin 2336 ft., leg. *Vaughan* 1962 (Een 1978); Black River National Park, trail from road to Piton de la Petite Rivière Noire; Magdalena Falls, trail to Mt. Cocotte, leg. *Frahm* 2007. The same specimens were identified as *Pyrrhobryum spiniforme* by Bizot, but as *P. mauritianum* by Een. Although Een (1978) stressed the differences, *Frahm et al.* (2003) synonymized the species with the pantropical *Pyrrhobryum spiniforme*. Also Dixon (1938) had named Mauritian collections as *Rhizogonium spiniforme*. It could be that the plants from Mauritius form a different population; however, they cannot be differentiated on a species level.
- Racomitrium lanuginosum* (Hedw.) Brid. [*Racomitrium lanuginosum* var. *squalidum* (Brid.) Brid.]

- Without locality, hb. Mus. Paris (Bescherelle 1879: 352 as *Racomitrium lanuginosum* var. *squalidum*, Renault 1897).
- Racopilum africanum* Mitt.  
Bassin Anglais, on rocks near cave, leg. *Vaughan* 1933 (Dixon 1938); Grotte près du bassin anglais de Curepipe, alt. 550 m (Bizot 1968); *Phoenix*, in garden on trees, leg. *Vaughan* 1962 (Een 1978, 1997); Le Pouce, forest half way to the top (Een 1997); St. Aubin, valley below the village, leg. *Frahm* 2007.
- \**Racopilum ayresii* Mitt.  
Montagne du Pouce, leg. *Ayres*; *Rodriguez* 1889 (Renauld 1897).
- Racopilum mauritanum* Müll.Hal. ex Besch.  
Montagne de la Rivière noire, leg. *Boivin* 1847; *Grateloup*; *Andersson*; sur les bois morts, près de Curepipe et de Vacoa, leg. *Darnty*; *de Robillard*, (Bescherelle 1880: 325, Renault 1891: 211–212, 1897), *Rodriguez* (Renauld 1891: 211–212, 1897); Curepipe, cave near Bassin Anglais (Een 1997).
- Racopilum tomentosum* (Hedw.) Brid.  
Without locality, leg. *N.J. Andersson*, det. A.J. Ångström, Feb. 1853 (Ångström 1873).
- Radulina borbonica* (Bél.) W.R.Buck [*Trichosteleum borbonicum* (Bél.) A.Jaeger; *Rhaphidostegium borbonicum* (Bél.) Besch.; *Trichosteleum microdontum* (Besch.) Renault]  
Without locality, *de Robillard* (Bescherelle 1880, Renault 1891: 210); sur les arbres morts, près du Grand bassin, *Darnty 13* (Bescherelle 1880: 307, Renault 1897), *Rodriguez* 1889 (Renauld 1897); without locality, leg. *Balfour* (O'Shea et al. 1997); Macabé, upland forest 1800 ft. (Een 1997, O'Shea 2006).
- Rhizofabronia persoonii* var. *persoonii* (Schwägr.) M.Fleisch. [*Fabronia persoonii* Schwägr.]  
Without locality, leg. *Bory*, *de Petit Thouars* (Bescherelle 1880: 287, Renault 1897).
- Rhodobryum commersonii* (Schwägr.) Paris [*Bryum commersonii* (Schwägr.) Brid.]  
Sur la terre à Curepipe, leg. *Darnty* (Bescherelle 1880: 239, Renault 1897).
- Rhynchostegium distans* Besch. [*Rhynchostegium homalobolax* Müll.Hal. ex Besch.]  
Without locality, leg. *Duisabo* (Bescherelle 1880: 297), *de Robillard* (Bescherelle 1880: 297, Renault 1891: 210, 1897).
- Rutenbergia prionodon* (Besch.) Renault [*Leucoloma prionodon* Besch.]  
Sur les arbres, bois de la Réunion, près de Curepipe, 21 mars 1877, leg. *Darnty 26* (hb. Schimper), (Bescherelle 1879: 317; Renault & Cardot 1915: 334).
- Schlotheimia angulosa* (P.Beauv.) Dixon  
Trou aux Cerfs, leg. *Vaughan*; Perrier Nature Reserve near Mare aux Vacoas; Petrin Heath Nature Reserve 2200 ft. (Een 1978).
- Schlotheimia badiella* Besch.  
Without locality, *de Robillard*, *Rodriguez* (Renauld 1891: 210–211); réserve naturelle de la lande Pétrin, alt. 650 m (Bizot 1968).
- Schlotheimia badiella* var. *brevifolia* Renault  
Without details, leg. *Robillard* (Renauld 1889: 82, Een 1993).
- Schlotheimia badiella* var. *helicophylla* Besch.  
Without locality, leg. *Robillard* (Renauld 1897).
- \**Schlotheimia ferruginosa* (Hook. & Grev.) Brid.  
Black River National Park, savannah trail and Piton Savanne, leg. *Frahm* 2007.
- Schlotheimia fornicata* Duby [*Schlotheimia bursata* Renault & Cardot]  
Ad arbores in sylvis, leg. *Robillard* (Duby 1879: 5, Bescherelle 1879: 367); Curepipe, leg. *Rodriguez* 1889 (Renauld 1891: 211, 1897); Bassin Anglais near Curepipe, leg. *Vaughan* 1933 (Dixon 1938); Perrier Nature Reserve, leg. *Vaughan*; Petrin 2150 ft., leg. *Vaughan* (Een 1978); Réserve naturelle de la lande Pétrin, alt. 650 m (Bizot 1968); Perrier Nature Reserve near Mare aux Vacoas (Een 1978).
- Schlotheimia microphylla* var. *farlowii* Renault & Cardot

- Without details, hb. Farlow (Renauld 1909: 52).
- Schlotheimia robillardii* Duby [*Schlotheimia phaeochlora* Besch.]  
Savane, leg. *Boivin*; *Robillard* (Duby 1879: 6, Bescherelle 1879: 370); *Rodriguez*; bois Descroitzilles, Savane, leg. *Darnty* (Bescherelle 1879: 370, Renauld 1891: 210–211, 1897); Perrier Nature reserve, leg. *Vaughan* 1962; Petrin heath, leg. *Vaughan* 1962, leg. *Een* (Een 1978); Le Pouce (Een 1978).
- Scorpiurium circinatum* (Brid.) M.Fleisch. & Loeske  
Curepipe, Botanical Garden, concrete wall of bridge (Müller 2002).
- Sematophyllum aneuron* (Duby) A.Jaeger  
Without locality, *Lecoultre* (Duby 1877: 93, 1879: 13).
- Sematophyllum corticola* (Ångstr.) O'Shea [*Plagiothecium corticola* Ångstr.]  
Without locality and collector (Renauld 1897), hb. S; Le Pouce, forest, half way to the top, Een (1997).
- Sematophyllum crassiusculum* (Brid.) Broth. [*Rhaphidostegium crassiusculum* Brid.]  
Without locality, *Duisbao* 1839; sur les vieilles souches, gros bois et montagne de la Rivière noire, *Boivin* 1841 (Bescherelle 1880: 300, Renauld 1897).
- Sematophyllum longinerve* (Duby) A.Jaeger  
Without locality, *Lecoultre* (Duby 1877: 92, 1879: 9).
- Sematophyllum schimperi* (Besch.) Broth. [*Pterogoniella schimperi* Besch.]  
Without locality, leg. *Darnty* (Bescherelle 1880: 259, Renauld 1897); on rocks, dry forest of the Trois Mamelles, leg. *Vaughan* 1935 (Dixon 1938).
- Sematophyllum subpinnatum* (Brid.) E.Britton [*Hypnum irrepens* Duby; *Hypnum lecoultriae* Duby; *Rhaphidostegium duisaboanum* (Mont.) Paris; *Sematophyllum caespitosum* (Hedw.) Mitt.]  
Inter lichenes et alios muscos ad arbores, *Robillard* (Duby 1879: 10, as *Hypnum robillardii* Duby), longe inter Macromitria sese insinuens, cum Fabronia quadam semper sterili immixtum (Duby 1879: 14, as *Hypnum irrepens*); without locality, *Lecoultre* (Duby 1879: 8, as *Hypnum lecoultriae*); *de Robillard* (Renauld 1891: 210); *Duisabo*, sur les rochers à Plaisance et à la Montagne, *Darnty*, *Commerson* (Renauld 1897); Malherbe, leg. *Vaughan* 1935 (Dixon 1938); leg. *Robillard* as *Rhaphidostegium duisaboanum*, hb. S.; leg. *Andersson* as *Sematophyllum spec.* Without localities, leg. *Duisabo*, leg. *Andersson*, leg. *de Robillard*; sur les richer a Plaisance et a la Montagne fertile, leg. *Darnty* 10, 11, 27, 28 (Bescherelle 1880: 301 as *Rhaphidostegium duisaboanum* fo. *virescens*), without locality, leg. *Commerson* as *Rhaphidostegium duisabonae* var. *lutescens*, leg. *Mad. Lecoultre* as *Rhaphidostegium duisabonae* var. *rigidiusculum*, leg. *Duisabo* as *Rhaphidostegium duisabonae* var. *rufulum*, leg. *Duisabo*, *Boivin* Oct 1849 (Bescherelle 1880: 301-302)
- Sphagnum bordasii* Besch. [*Sphagnum truncatum* var. *bordasii* (Besch.) A.Eddy, *nom. illeg.*, *Sphagnum mauritianum* Warnst. (1911), *Sphagnum oxycladum* var. *mauritianum* (Warnst.) Warnst.]  
Without locality, leg. *Bordas* 1879 (type, Bescherelle 1880: 330, Renauld 1897, Eddy 1985).
- Sphagnum perichaetiale* Hampe [*Sphagnum balfourii* Warnst.]  
Without locality, leg. *Balfour* (type of *Sphagnum balfourianum*, Renauld 1897, Eddy 1985); in bog, north of Mt. Cocotte, leg. *Onraedt* 1971 (Eddy 1985); Mont Cocotte, *Sphagnum* fen; Petrin Heath Nature Reserve (Een 1993); without locality leg. *Erdtman* (Een 2000); Black River National Park, Les Mares südlich Petrin, leg. *Frahm* 2007.
- Sphagnum rutenbergii* Müll.Hal. [*Sphagnum mauritianum* Warnst. (1891)]  
Without locality, leg. *Ayres* (type of *Sphagnum mauritianum*) (Renauld 1897, Eddy 1985).
- Sphagnum tumidulum* Besch. var. *tumidulum*

- Les Mavers, leg. *Vaughan* 1935 (Dixon 1938); Tourbière à *Philippia* 600 m alt., leg. *Onraedt* 1971 (Eddy 1985).
- Sphagnum violascens* Müll.Hal. [*Sphagnum obtusiusculum* Lindb. ex Warnst., *Sphagnum purpureum* Schimp. ex Warnst.]  
Without locality and collector sub *Sphagnum obtusiusculum* (Renauld 1897); without locality, leg. *Blackburn* as *Sphagnum purpureum* (Renauld 1897); without locality, leg. *Bory*; *Rodriguez* (Eddy 1985); without locality leg. *Erdtman* (Een 2000); Black River National Park, Les Mares südlich Petrin, leg. *Frahm* 2007.
- Stereophyllum limnobioides* Renauld  
Without locality, leg. *Robillard* (Renauld 1891: 210, 1897). Probably a synonym of *Stereophyllum radiculosum* (Buck & Ireland 1985).
- Syntrichia rufa* (Schimp. ex Besch.) O'Shea [*Tortula rufa* (Schimp. ex Besch.) Broth., *hom. illeg.*, *Barbula rufa* Schimp. ex Besch.]  
Without locality, leg. *Ayres* (Bescherelle 1879: 344, Renauld 1897).
- Syrrhopodon apertifolius* Besch. [*Syrrhopodon glaucophyllum* Renauld & Cardot], *Syrrhopodon prolifer* Schwaegr. var. *acanthoneuros* (Müll.Hal.)Müll.Hal. [*S. apertifolius* Besch., *Syrrhopodon glaucophyllum* Renauld & Cardot] auct.  
Savanne, leg. *Boivin* (Bescherelle 1879: 350, Renauld 1891: 211, 1897, Orbán 1981); leg. *Rodriguez* 1889 (Renauld 1891: 211, 1897, Orbán 1981); Réserve naturelle de la lande Pétrin, alt. 650 m (Bizot 1968); Plaine Champagne, heath (Een 1976).  
Savanne, leg. *Boivin*; leg. *Rodriguez* 1889 (Bescherelle 1879, Renauld 1897, Orban 1981, Ellis 2003, 2005); Without locality, leg. *Rodriguez* 1889 as *S. glaucophyllum* (type, Renauld 1897, Ellis 2003); leg. *Balfour* (Ellis 2005); Réserve naturelle de la lande Pétrin, alt. 650 m (Bizot 1968). Plaine Champagne, heath (Een 1976); Black River National Park, Plaine Champagne, Parakeet trail; Piton Savanne, leg. *Frahm* 2007 (as *S. prolifer* var. *acanthoneuros*)
- Syrrhopodon graminifolius* Renauld & Cardot in Renauld  
Without locality, leg. *Crosby* (Reese 1991).
- Syrrhopodon hispidocostatus* Renauld & Cardot in Renauld [*Syrrhopodon prolifer* var. *hispidocostatus* (Renauld & Cardot in Renauld) Orbán & W.D.Reese]  
Without locality, leg. *Crosby* (Reese 1991); (Ellis 2005).
- Syrrhopodon involutus* Schwägr.  
Malenge, Deux Manelles, leg. *Cook* 1974 (Orbán 1981).
- Syrrhopodon mauritianus* Müll.Hal. ex Åongstr.  
Without locality, leg. *Andersson* (type, Bescherelle 1879: 348, Renauld 1897, Orbán 1981, Reese 1996); leg. *Voeltzkow*; leg. *Jitadorrou* (Orbán 1981); without locality and collector (Orbán 1978); without locality leg. *Voeltzkow* (hb. H-Br) (Reese 1996).
- Syrrhopodon revolutus* Dozy & Molk.  
Mt. Deuz Mamelles, leg. *Lorence* (hb. MO) (Fisher 2006).
- Taxithelium pseudo-amoenum* (Bél.) Renauld  
Without locality, *de Robillard* (Renauld 1891: 210, 1897).
- Taxithelium lindbergii* (A. Jaeger) Renauld & Cardot [*Taxithelium nossianum*, Besch. *Taxithelium voeltzkowii* Broth.]  
Without locality, leg. *Voeltzkow s.n.* (type of *Taxithelium voeltzkowii*) (Câmara 2008); without locality, leg. *Balfour* as *Taxithelium nossianum* (O'Shea et al. 1997); Le Pouce, leg. *Onraedt* 272 (hb. BR) (Câmara 2008)
- Thamniopsis pappeana* (Hampe) W.R. Buck [*Hookeriopsis darntyi* (Schimp. in Besch.) Broth.; *Lepidopilum darntyi* Schimp. in Besch.]  
Sur les vieux arbres de la montagne du Pouce, leg. *Darnty* 19 13 Sep 1874 (Bescherelle 1880: 281, Renauld 1897).

- Thuidium pseudoinvolvens* (Müll.Hal.) A.Jaeger [*Cyrto-hypnum pseudoinvolvens* (Müll. Hal.) W.R. Buck & H.A. Crum]  
Without locality, leg. *Robillard* (Touw 1976).
- Tortella humilis* (Hedw.) Jenn.  
Garden at Phoenix, leg. *Vaughan* 1962 (Een 1978).
- Trachyphyllum inflexum* (Harv.) A.Gepp in Hiern [*Trachyphyllum fabronioides* (Besch.) A.Gepp; *Leptohyemium fabronioides* Müll.Hal. ex Besch.]  
Without locality, leg. *Robillard* 1876, *Rodriguez* (Renauld 1891: 210–211, Buck 1979); without locality, *de Robillard* (Bescherelle 1880: 292, Renauld 1897); base of tree in dry forest, Trois Mamelles, leg. *Vaughan* 1935 (Dixon 1938).
- Trichosteleum microdontum* (Besch.) Renauld  
Without locality, *Balfour*, det. H.N. Dixon (O'Shea et al. 1997: 178).
- Trichosteleum perrotii* (Renauld & Cardot) Renauld & Cardot  
Without details (Renauld & Cardot 1915: 506 + tab. 104: 1).
- Trichostomum brachydontium* var. *brachydontium* Bruch [*Trichostomum ayresii* Schimp. in Besch.; *Trichostomum ayresianum* Schimp. ex Besch.]  
Without locality, leg. *Ayres*, type of *Trichostomum ayresianum* (Bescherelle 1879: 342, Renauld 1897); Le Pouce 1800 ft., (Een 1976); garden at Phoenix (Een 1978 as *Trichostomum ayresianum*); Le Pouce, road from Port Louis to St. Pierre (Sollman & Een 1996). Road from Case Noyale to Black River National Park, leg. *Frahm* 2007; Black River Nationalpark, Black River Gorge viewpoint, trail cascade, leg. *Frahm* 2007.
- \**Trichostomum crispulum* Bruch  
Road from Case Noyale to Black River National Park, leg. *Frahm* 2007.
- Trichostomum tenuirostre* var. *tenuirostre* (Hook. & Taylor) Lindb.  
Plaine des Cafres, *G. de l'Isle, Lépervanche* as *Symblepharis circinata* (Bescherelle 1879: 20).
- Ulota fulva* Brid.  
Without locality, leg. *Robillard* (Bescherelle 1879: 353, Renauld 1897).
- Vesicularia alboviridis* (Renauld) Broth.  
Without locality, leg. *Robillard* (Renauld 1891: 211, 1897).
- Vesicularia ayresii* (Besch.) Broth. [*Ectropothecium ayresii* Schimp. ex Besch.]  
Without locality, leg. *de Robillard* (Renauld 1891: 211); sur les rochers de la cascade du Réduit, *Darnty* 24 Mai 1874 (Bescherelle 1880: 319, Renauld 1897).
- Vesicularia bescherellei* (Renauld) Broth.  
Without locality, leg. *Robillard* 1876, hb. S, (Renauld 1891: 210, 1897; Een 1997); on rocks in stream near Curepipe, leg. *Vaughan* 1935 (Dixon 1938).
- Vesicularia galerulata* (Duby) Broth. [*Ectropothecium galerulata* Duby in Besch., *Ectropothecium sphaerocarpum* (A.Jaeger) Besch., *Ectropothecium virentipinnatum* Müll.Hal. in Renauld]  
Without locality, *de Robillard* as *Hypnum galerulatum* (Duby 1879: 7, Bescherelle 1880: 321) and *Ectropothecium galerulata*; leg. *Grateloup* as *Ectropothecium sphaerocarpum* (Bescherelle 1880: 321, Renauld 1891:211, 1897); leg. *Robillard* as *Ectropothecium virenti-pinnatum* (Renauld 1891:211, 1897); Curepipe, cave near Bassin Anglais (Een 1997).
- Vesicularia lepervanchei* (Besch.) Broth.  
Le Pouce, forest half way to the top (Een 1997).
- Warburgiella leptorrhyncha* (A.Jaeger) Broth. [*Trichosteleum leptorrhynchum* (A.Jaeger) Renauld; *Rhaphidostegium leptorrhynchum* A.Jaeger]  
Without locality, *Bory* (Bescherelle 1880: 305, Renauld 1897).
- Weissia ayresii* Schimp. ex Besch. [*Hymenostomum ayresii* (Schimp. ex Besch.) Broth.; *Weissia mauritiana* Schimp. ex Besch.]

Without locality, leg. *Ayres*, type of *Weissia ayresii*; without locality, leg. *Ayres*, type of *Weissia mauritiana* Schimp. (Bescherelle 1879: 302, Dixon 1938, Een 1976); Plaine des Roches, leg. *Vaughan* 1935 (Dixon 1938, Een 1976).

*Zygodon conoideus* var. *latifolius* Brid.

Insula Franciae, Hook. (Bridel 1826: 592).

#### Excluded and doubtful taxa

*Campylopus nivalis* var. *nivalis* (Brid.) Brid.

Een (1993b). The record of this alpine species on Mauritius is very unlikely, not in Frahm (1985).

*Campylopus pseudobicolor* Müll.Hal. ex Renauld & Cardot

Een (1993b), probably erroneous, not in Frahm (1985).

*Calyptrochaeta cristata* (Hedw.) Desv.

Reported for Mauritius, but the specimen came from Australia (Bridel 1826: 712).

*Campylopus filifolius* (Hornsch.) Mitt. [*Campylopus interruptulus* Müll.Hal. in Besch.]

Without locality, leg. *Rodriguez*; Curepipe, leg. *Rodriguez* 1889 (Renauld 1891: 211, 1897). This is a dubious record. The specimen (in PC) undoubtedly is a large representative of this species, however, *Campylopus filifolius* is a neotropic species and this would be the only record from the Palaeotropics. Records for Madagascar and Réunion are similarly suspected. leg. *Robillard* (Hb. C. Mueller) (Bescherelle 1879 as *C. interruptulus*).

*Cardotiella subappendiculata* (Broth.) Vitt (*Leiomitrium subappendiculatum* (Broth.) Cardot)

According to Goffinet (1996: 395), the sole specimen *Een 413* reported from Mauritius, initially identified by Vitt (1981), has been proven to be *Cardotiella appendiculata* instead.

*Dicranum dichotomum* P.Beauv. [*Campylopus dichotomus* (P.Beauv.) Brid., *Dryptodon dichotomus* (P.Beauv.) Brid.]

This name appears in a list of Rodriguez collections from Mauritius (Renauld 1891: 211), but it is an ambiguous name and thus excluded.

*Leucobryum juniperoideum* (Brid.) Müll.Hal.

Reported for Mauritius, but no records are known: the earliest quoted record (Bescherelle 1879: 336) mentions only Réunion, and a more recent distribution list (Crundwell 1972: 4) also has no detail.

*Mittenothamnium saproadelphus* (Broth.) Cardot

Although this is indicated by Een (1993), quoting 'Dixon 1929', there is no reference to Mauritius, nor to this species.

*Pohlia wahlenbergii* var. *wahlenbergii* (F.Weber & D.Mohr) A.L.Andrews

Reported for Mauritius, but no records found.

*Phyllogonium viscosum* (P.Beauv.) Mitt.

Reported for Mauritius, but no records found.

*Physcomitrium aubertii* Besch.

Although reported for Mauritius, the only record probably comes from Tristan da Cunha rather than Mauritius (Bescherelle 1879: 374).

*Pyrrhobryum spiniforme* var. *acunhense* (Besch.) Manuel.

Mauritius? Leg. *Peiti-Thouars* (Bescherelle 1880: 242). The record of this taxon for Mauritius is probably erroneous: see O'Shea *et al.* (1997)

*Prionodon densus* (Hedw.) Müll.Hal. [*Prionodon rehmannii* Mitt.]

Doubtful record: Sim (1926) says "known in Mauritius".

*Syrrhopodon prolifer* var. *prolifer* Schwägr. & *Syrrhopodon prolifer* var. *acanthoneurus* (Müll.Hal.) Müll.Hal.

The collections recorded for these taxa belong to *S. apertifolius* (pers. com. L.T. Ellis).

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