

# cryptogamie

## *Bryologie*

2026 • 47 • 4

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art. 47 (4) — Published on 17 April 2026  
[www.cryptogamie.com/bryologie](http://www.cryptogamie.com/bryologie)

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SCIENTIFIQUES



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*Cryptogamie, Bryologie* est indexé dans / *Cryptogamie, Bryologie is indexed in*:

- Biological Abstracts
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- Science Citation Index
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*Cryptogamie, Bryologie* est distribué en version électronique par / *Cryptogamie, Bryologie is distributed electronically by*:

- BioOne® (<http://www.bioone.org/loi/cryb>)

*Cryptogamie, Bryologie* est une revue en flux continu publiée par les Publications scientifiques du Muséum, Paris

*Cryptogamie, Bryologie is a fast track journal published by the Museum Science Press, Paris*

Les Publications scientifiques du Muséum publient aussi / *The Museum Science Press also publish: Adansonia, Geodiversitas, Zoosystema, Anthropolozologica, European Journal of Taxonomy, Naturae, Comptes Rendus Palevol, Cryptogamie sous-sections Algologie, Mycologie.*

Diffusion - Publications scientifiques Muséum national d'Histoire naturelle

CP 41 - 57 rue Cuvier F-75231 Paris cedex 05 (France)

Tél. : 33 (0)1 40 79 48 05 / Fax : 33 (0)1 40 79 38 40

diff.pub@mnhn.fr / <http://sciencepress.mnhn.fr>

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ISSN (électronique / electronic) : 1776-0992

# An updated checklist of the bryophytes of Réunion

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Submitted on 6 November 2024 | Accepted on 18 March 2025 | Published on 17 April 2026

Wilding N., Hedderson T. A. J., Pócs T., Leblond S., Gradstein R., Brinda J. C., Reeb C., Dejonghe Q., Bardat J. & Ah-Peng C. 2026. — An updated checklist of the bryophytes of Réunion. *Cryptogamie, Bryologie* 47 (4): 47-83. <https://doi.org/10.5252/cryptogamie-bryologie2026v47a4>. <http://cryptogamie.com/bryologie/47/4>

## ABSTRACT

The first checklist of bryophytes from Réunion, published in 2005, recorded 621 species for the island. Nearly 20 years later, the total number of bryophyte species reported has increased to 822. This significant growth in knowledge results from ongoing floristic exploration, and ecological studies examining diversity across elevational gradients. We here report 500 species of mosses, 313 species of liverworts, and nine species of hornworts, including 16 moss, 20 liverwort, and three hornwort taxa that are newly recorded for Réunion. Unsurprisingly, endemism levels have decreased with increased knowledge of the local and regional flora. Forty-nine bryophyte species are endemic (6%), comprising 36 mosses and 13 liverworts. We also indicate taxa described based on type material from either Réunion or the wider Madagascar region, and provide references linking each name to its first published report on the island. Future research on the flora should focus on clarifying the taxonomy of poorly known taxa. Additionally, targeted collecting efforts and inventories will help improve our understanding of species distributions, which is essential for informed conservation planning.

## KEY WORDS

Bryoflora,  
hornworts,  
liverworts,  
Mascarenes,  
mosses,  
South West Indian  
Ocean Islands,  
new synonyms,  
new combinations.

## RÉSUMÉ

*Une mise à jour de la check-list des bryophytes de la Réunion.*

La première liste des bryophytes de La Réunion, publiée en 2005, recensait 621 espèces pour l'île. Près de 20 ans plus tard, le nombre total d'espèces de bryophytes signalées s'est hissé à 822. Cette croissance significative des connaissances résulte de l'exploration floristique continue et des études écologiques examinant la diversité à travers les gradients d'altitude. Nous rapportons ici 500 espèces de mousses, 313 espèces d'hépatiques et neuf espèces d'anthocérotes, dont 16 mousses, 20 hépatiques et trois anthocérotes nouvellement enregistrées pour La Réunion. Comme prévu, les niveaux d'endémisme ont diminué avec l'amélioration des connaissances sur la flore locale et régionale. Quarante-neuf espèces de bryophytes sont reportées endémiques (6%), composées de 36 mousses et 13 hépatiques. Nous indiquons également les taxons décrits sur la base de matériel type provenant soit de La Réunion, soit de la région plus large de Madagascar, et fournissons des références liant chaque nom à son premier rapport publié sur l'île. Les recherches futures sur la flore devraient se concentrer sur la clarification de la taxonomie des taxons peu connus. De plus, des efforts ciblés de collecte et des inventaires contribueront à améliorer notre compréhension des distributions des espèces, ce qui est essentiel pour une planification de la conservation éclairée.

## MOTS CLÉS

Bryoflore,  
anthocérotes,  
hépatiques,  
Mascareignes,  
mousses,  
îles du Sud Ouest  
de l'océan Indien,  
synonymes nouveaux,  
combinaisons nouvelles.

## INTRODUCTION

Réunion Island, a French overseas department in the Indian Ocean, is located 700 km east of Madagascar. Despite its small size (2 512 km<sup>2</sup>), Réunion hosts a rich bryophyte diversity, with approximately 20 % of all bryophyte species reported for sub-Saharan Africa occurring on the island (Ah-Peng 2007). This diversity may be due to the range of available habitats and a variable precipitation regime. The island's highest point, the dormant Piton des Neiges volcano, reaches 3 069 m above sea level, providing a large elevational gradient of habitats for species. At present, 40 % of Réunion is under the protection of the National Park, and approximately 30 % of its native habitats remain intact. However, even within the park, invasive alien species pose a significant threat to the native biota (Fenouillas *et al.* 2021). For example, the moss *Pseudoscleropodium purum* (Hedw.) M. Fleisch., is the most invasive introduced bryophyte and poses a threat to native species. A monitoring program for *P. purum*, launched in 2023 by NW & CAP, is studying its growth, ecology and spread across the island.

The bryophytes of Réunion have been relatively well-investigated compared with other regions in Africa (Bescherelle 1880a, b; Renauld 1898; Jovet-Ast 1958; Arnell 1965; Een 1976, 1978, 1989, 1993, 1997; Onraedt 1976; Bischler 1990; Jovet-Ast 1993; Arts & Yamada 1998; Müller 2000, 2002; Ah-Peng & Bardat 2005; Ah-Peng *et al.* 2010a). For early European taxonomists, including Bridel, Schwägrichen, Paliot de Beauvois, Renauld, Cardot, Bescherelle, and Stephani, Réunion – or “Île de Bourbon,” as it was known then – was an important source of bryophyte collections from the South-west Indian Ocean. The earliest known bryophyte collections from Réunion were made by Philibert Commerson, who, after reaching Réunion around 1768, chose to stay and study the island's natural riches rather than return to France with Bougainville. Subsequent collectors in the 19<sup>th</sup> century included G. de l'Isle, Frère Rodriguez, J. B. G. M. Bory de Saint-Vincent, M. Chauvet, S. R. Lenormand, P. Lepervanche, and J. M. C. Richard. By the late 19<sup>th</sup> century, the bryophyte flora of Réunion consisted of approximately 240 species (Bescherelle 1880a, b; Bescherelle & Spruce 1890; Renauld 1891, 1898; Renauld & Cardot 1890, 1894a, b, 1895, 1896a, b; Stephani

1890a, 1892a, 1893, 1894a, b, 1896). In the 20<sup>th</sup> century, the number of collections increased significantly due to contributions from T. Arts, T. Cadet, M. Crosby, G. Een, A. Gimalac, M. Onraedt, and J. L. De Sloover. By the 21<sup>st</sup> century, the species count more than doubled to 621 (Ah-Peng & Bardat 2005), reaching around 760 by 2010 (Ah-Peng *et al.* 2010a). To date, over 320 bryophyte species and infraspecific names have been published based on type material from Réunion, of which 220 are currently accepted and many of these belong to species that are widely distributed in the region.

We present the first full update of the original checklist published by Ah-Peng & Bardat (2005). Additions and corrections made since 2005 (e.g. Ah-Peng *et al.* 2007, 2010a; Frahm 2010) have been compiled and integrated. We include 39 new specimen-based taxon records from recent field exploration and herbarium identifications in BR and PC. Three new nomenclatural combinations are made and a number of new synonymies are presented. Previously reported names that have been misapplied to taxa from Réunion or that are believed to be absent are excluded and discussed at the end of the checklist.

## MATERIAL AND METHODS

The checklist was compiled largely based on the primary literature cited in the works of Crosby *et al.* (1983), Grolle (1995), O’Shea (2006), Ah-Peng & Bardat (2005), and Wigginton (2018). More recent reports were extracted from the published literature. Data on the type locality for all taxa recorded on the island was obtained from the original descriptions, accessed via links from the relevant Tropicos taxon pages. Bryophyte nomenclature and classification follow Brinda & Atwood (2024), unless otherwise indicated. A single reference, usually to the earliest published record for each taxon from the island, is provided. When no physical specimen is cited in the literature for a previously reported species, a single collection from a public herbarium is used as the reference for the species’ presence on the island. These taxa are not newly recorded and are therefore not preceded by “N”.

### PRESENTATION OF THE LIST

#### *Synopsis of families and genera*

Families are listed alphabetically within each division, and genera are listed alphabetically within families. The numbers in brackets next to each genus indicate the number of species within that genus.

#### *Format of the list*

The taxa are arranged alphabetically by family within the three divisions of bryophytes: Anthocerotophyta (hornworts), Marchantiophyta (liverworts), and Bryophyta (mosses). Scientific names appear in *italic* type followed by the authors of the taxon. Authors of plant names are standardized according to Tropicos (tropicos.org). Endemic taxa are followed by “E”. Taxa described based on type material from Réunion are followed by “R”, while those

described from a Mascarene, Madagascar or Comoros type are followed by “M”. Names preceded by an “\*” are considered dubious taxon records. The references following each taxon name are usually the earliest record of the presence of the taxon in Réunion, either under the same name or synonym according to bryonames.org (Brinda & Atwood 2024). New taxon records for Réunion are preceded by “N” and followed by a reference to the relevant specimen data, which is presented as such: collector(s), collection number, locality, altitude, collection date, herbarium [barcode] and determiner. Herbarium abbreviations follow Thiers (2026). A list of names excluded from the flora of the island is provided at the end of the checklist accompanied by a justification for their removal.

## TAXONOMY

### Family DICRANELLACEAE

#### Genus *Bryopalisotia* Bonfim Santos & Fedosov

#### *Bryopalisotia filum* (Bory) Brinda, comb. nov.

*Dicranum filum* Bory, *Voyage dans les quatre principales îles des mers de l’Afrique*. 3: 17 (Bory de Saint Vincent 1804). — Type: “*Dicranum (filum)* ... iter. T. III p. 17 envoi a Wildenow n°5. 1808 ... à l’île de la Réunion près du Volcan. 1802” (lectotype [designated here]: PC[herb. Cosson] PC0121254!; isolectotype: PC[herb. Montagne] PC0795726!).

*Dicranum filiforme* P. Beauv, *Prodrome des 5èmes et 6èmes familles de l’Aethéogamie*: 53 (Palisot de Beauvois 1805). — *Thysanomitron filiforme* (P. Beauv.) Arn., *Disposition Méthodique des Espèces de Mousses*: 34 (Arnott 1825). — *Aongstroemia filiformis* (P. Beauv.) Wijk & Margad., *Taxon* 9: 50 (Wijk & Margadant 1960). — *Bryopalisotia filiformis* (P. Beauv.) Bonfim Santos & Fedosov (syntype: PC[herb. Richard] PC0703596!), **syn. nov.**

*Weissia vulcanica* Brid., *Muscologiae recentiorum supplementum seu species muscorum* 1: 125 (Bridel 1806) “*vulcanica*”. — *Dicranum vulcanicum* (Brid.) Brid., *Bryologia universa [...]* 1: 466 (Bridel 1826). — *Aongstroemia vulcanica* (Brid.) Müll. Hal., *Synopsis Muscorum Frondosorum* 1: 427 (Müller 1848) (syntype: PC[herb. Camus] PC0703597!), **syn. nov.**

*Aongstroemia jamaicensis* Müll. Hal., *Bulletin de l’Herbier Boissier* 5: 554 (Bescherelle 1897) (syntype: PC[ex herb. Müller] PC0701032!), **syn. nov.**

*Aongstroemia falcicaulis* Müll. Hal. ex Renaud, *Prodrome de la flore bryologique de Madagascar, des Mascareignes et des Comores*: 57 (Renaud 1898). — *Dicranella falcicaulis* (Müll. Hal. ex Renaud) Paris, *Index Bryologicus Supplementum Primum*: 116 (Paris 1900) (syntype: PC[ex herb. Müller] PC0703598!), **syn. nov.**

*Aongstroemia transvaaliensis* Müll. Hal., *Hedwigia* 38: 89 (Müller 1899). — *Dicranella transvaaliensis* (Müll. Hal.) Paris, *Bryologicus Supplementum Primum*: 118 (Paris 1900) (lectotype: G[herb. Jack] G00113854 not seen, designated by Magill [1981: 118] as “holo.”), **syn. nov.**

*Aongstroemia brevipes* Hampe ex Müll. Hal., *Genera Muscorum Frondosorum*: 318 (Müller 1901[1900]) (syntype: PC[ex herb. Müller] PC0703607!), **syn. nov.**

REMARKS

Bescherelle (1880b: 305) had already synonymized *Dicranum filum*, *D. filiforme* and *D. vulcanica* in his florula and identified the material in herb. Cosson [now PC] as belonging to *Dicranum filum* Bory. Unfortunately, he was unaware of the earlier description of this species provided by Bory as a footnote in his book and as a result the name has been ignored up until now. Probably all three of these epithets are based on material from the same gathering, since in his book Bory de Saint Vincent (1804: 16, 17) gives a detailed description of the type locality and explains that he found the species “là seulement” – only there. The gathering must have been very large, since the extant duplicates each contain abundant fruiting stems. As a rather unique and attractive species it is not surprising that *Bryopalisotia filum* has accumulated several other synonyms as well.

Family HYLOCOMIACEAE M. Fleisch.

Genus *Loeskeobryum* M. Fleisch. ex Broth.

*Loeskeobryum interruptum*

(Brid.) Brinda & N. Wilding, comb. nov.

*Hypnum interruptum* Brid., *Muscologia recentiorum* [...] 2 (2): 156. pl. 5: f. l. (Bridel de 1801). — *Hypnum brevirostre* var. *interruptum* (Brid.) Brid., *Muscologiae recentiorum supplementum* 4: 175 (Bridel de 1819[1818]), *nom. illeg.* — *Hylocomium interruptum* (Brid.) Margad., *Lindbergia* 1: 128 (Margadant 1972). — Type: “Île de Bourbon” (syntype: B[herb. Bridel] B 31 0885 03 image seen, <https://herbarium.bgbm.org/object/B31088503>).

*Loeskeobryum brevirostre* M. Fleisch. ex Broth., *Die natürlichen Pflanzenfamilien* (ed. 2) 11: 483 (Brotherus 1925). (see note under excluded species).

Family MNIACEAE Schwägr.

Genus *Pseudopoblia* R. S. Williams

*Pseudopoblia heribaudii*

(Renauld & Cardot) Brinda & N. Wilding, comb. nov.

*Brachymenium heribaudii* Renauld & Cardot, *Revue de botanique; bulletin mensuel de la Société Française de Botanique* 9: 290 (Renauld 1891) “*heribaudii*”. — *Poblia heribaudii* (Renauld & Cardot) Broth., *Die natürlichen Pflanzenfamilien* I (3): 552. (Brotherus 1903). — *Webera heribaudii* (Renauld & Cardot) Cardot, *Histoire, physique naturelle et politique de Madagascar*: 276 (Renauld & Cardot 1915). — Type: “*Brachymenium Heribaudi* Ren. Card. n. sp. Bourbon Rodriguez” (lectotype [designated here]: PC[herb. Renauld] PC0105645!; since Rodriguez collected this species from “plusieurs localités” other specimens are probably best treated as syntypes, e.g.: PC0105640!, PC0105643!, PC0105647!, PC0105646!, PC0105648!, PC0105642!, PC0105644!, PC0105641!; BM not seen [fide Ochi 1972: 123]), *syn. nov.*

*Brachymenium heribaudii* var. *madagassum* Renauld & Cardot, *Supplément au Prodrôme de la Flore Bryologique de Madagascar*: 54 (Renauld 1909). — *Webera heribaudii* var. *madagassa* (Renauld &

Cardot) Cardot, *Histoire, physique naturelle et politique de Madagascar*: 276 (Renauld & Cardot 1915). — *Poblia heribaudii* var. *madagassa* (Renauld & Cardot) Wijk & Margad., *Taxon* 8: 74 (Wijk & Margadant 1959) (material from Madagascar bearing this name [e.g., PC0788424!] is only slightly less robust than material from Réunion), *syn. nov.*

*Pseudopoblia bulbifera* R. S. Williams, *Philippine Mosses*: 346 (Williams 1914) (syntype: MO-406659!), *syn. nov.*

“*Bryum philonotis*” Hampe ex Cardot, *Histoire, physique naturelle et politique de Madagascar* 276 (Renauld & Cardot 1915); *nom. inval. pro syn.* (original material: PC0661487!, PC0661486!, PC0661485!, PC0788426!; BM image seen [fide JSTOR global plants: <https://plants.jstor.org/stable/10.5555/al.ap.specimen.bm000983647>]), *syn. nov.*

*Pseudopoblia yunnanensis* Herzog, *Hedwigia* 65: 157 (Herzog 1925) (syntype: MO-3233467!), *syn. nov.*

REMARKS

When Long (2022: 90-91) separated *Brachymenium microstomum* Harv. from this taxon, he failed to notice that *Brachymenium heribaudii* Renauld & Cardot from Réunion is the older name. The appropriate combination in *Pseudopoblia* R. S. Williams is therefore provided here.

SYNOPSIS OF FAMILIES AND GENERA FOR ANTHOCEROTOPHYTA

Family ANTHOCEROTACEAE Dumort.

GENERA PRESENT. — *Anthoceros* L. (2), *Folioceros* D. C. Bhardwaj (1).

Family DENDROCEROTACEAE J. Haseg.

GENERA PRESENT. — *Dendroceros* Nees (2), *Megaceros* Campb. (1).

Family NOTOTHYLADACEAE Müll. Frib. ex Prosk.

GENERA PRESENT. — *Phaeoceros* Prosk. (2).

Family PHYMATOCEROTACEAE  
R. J. Duff, J. C. Villarreal, Cargill & Renzaglia

GENERA PRESENT. — *Phymatoceros* Stotler, W. T. Doyle & Crand.-Stotl. (1).

SYNOPSIS OF FAMILIES AND GENERA FOR MARCHANTIOPHYTA

Family ACROBOLBACEAE E. A. Hodgs.

GENERA PRESENT. — *Acrobolbus* Mitt. (2), *Conoscyphus* Mitt. (1), *Lethocolea* Mitt. (1).

## Family ADELANTHACEAE Grolle

GENERA PRESENT. — *Adelanthus* Plantae (1), *Cuspidatula* Steph. (1), *Pseudomarsupidium* Herzog (1), *Syzygiella* Spruce (3).

Family ANASTROPHYLLACEAE  
L. Söderstr., De Roo & Hedde.

GENERA PRESENT. — *Anastrophyllum* (Spruce) Steph. (3), *Plicanthus* R. M. Schust. (1), *Sphenolobus* (Lindb.) Berggr. (1).

## Family ANEURACEAE H. Klinggr.

GENERA PRESENT. — *Afroriccardia* Reeb & Gradst. (1), *Aneura* Dumort. (2), *Riccardia* Gray (7).

## Family AYTONIACEAE Cavers

GENERA PRESENT. — *Asterella* P. Beauv. (1), *Plagiochasma* Lehm. & Lindenb. (2).

## Family BALANTIOPSISACEAE Nakai

GENERA PRESENT. — *Isotachis* Mitt. (1).

## Family CALYPOGEIACEAE Ordway

GENERA PRESENT. — *Calypogeia* Raddi (6), *Mnioloma* Herzog (1).

## Family CEPHALOZIACEAE Mig.

GENERA PRESENT. — *Alobiellopsis* R. M. Schust. (1), *Cephalozia* (Dumort.) Dumort. (1), *Fuscocephaloziosis* Fulford (1), *Odontoschisma* (Dumort.) Dumort. (2).

## Family CEPHALOZIACEAE Douin &amp; Schiffn.

GENERA PRESENT. — *Allisoniella* E. A. Hodgs. (1), *Cephaloziella* (Spruce) Schiffn. (5), *Cylindrocolea* R. M. Schust. (1), *Gottschelia* Grolle (1), *Kymatocalyx* Herzog (1).

## Family CORSINIACEAE Ordway

GENERA PRESENT. — *Exormotheca* Mitt. (1).

## Family CYATHODIACEAE Stotler &amp; Crand.-Stotl.

GENERA PRESENT. — *Cyathodium* Kunze ex Lehm. (1).

## Family DUMORTIERACEAE D. G. Long

GENERA PRESENT. — *Dumortiera* Nees (1).

## Family FOSSOMBRONIACEAE Hazsl.

GENERA PRESENT. — *Fossombronia* Raddi (5).

## Family FRULLANIACEAE Ordway

GENERA PRESENT. — *Frullania* Raddi (21).

## Family GEOCALYCEAE H. Klinggr.

GENERA PRESENT. — *Geocalyx* Nees (1).

## Family GYMNOTRITRICEAE H. Klinggr.

GENERA PRESENT. — *Gymnotritron* Corda (1), *Marsupella* Dumort. (1), *Nardia* Gray (1).

## Family HERBERTACEAE Müll. Frib. ex Fulford &amp; Hatcher

GENERA PRESENT. — *Herbertus* Gray (3).

## Family LEJEUNEACEAE Rostovzev

GENERA PRESENT. — *Acanthocoleus* R. M. Schust. (1), *Acrolejeunea* (Spruce) Steph. (3), *Bryopteris* (Nees) Lindenb. (1), *Capillolejeunea* S. W. Arnell (1), *Ceratolejeunea* (Spruce) J. B. Jack & Steph. (7), *Cheilolejeunea* (Spruce) Steph. (18), *Cololejeunea* (Spruce) Steph. (22), *Colura* (Dumort.) Dumort. (7), *Diplasiolejeunea* (Spruce) Schiffn. (3), *Drepanolejeunea* (Spruce) Steph. (9), *Frullanoides* Raddi (1), *Haplolejeunea* Grolle (1), *Lejeunea* Lib. (22), *Lepidolejeunea* R. M. Schust. (1), *Leptolejeunea* (Spruce) Steph. (2), *Lopholejeunea* (Spruce) Steph. (8), *Marchesinia* Gray (1), *Metalejeunea* Grolle (1), *Microlejeunea* (Spruce) Steph. (7), *Myriocoleopsis* Schiffn. (1), *Odontolejeunea* (Spruce) Schiffn. (1), *Prionolejeunea* (Spruce) Schiffn. (1), *Schiffneriolejeunea* Verd. (4), *Spruceanthus* Verd. (1), *Stictolejeunea* (Spruce) Schiffn. (1), *Thysananthus* Lindenb. (2), *Xylolejeunea* X. L. He & Grolle (1).

## Family LEPIDOZIACEAE Limpr.

GENERA PRESENT. — *Amazoopsis* J. J. Engel & G. L. Merr. (2), *Bazzania* Gray (5), *Kurzia* G. Martens (1), *Lepidozia* (Dumort.) Dumort. (2), *Telaranea* Spruce ex Schiffn. (3).

## Family LOPHOCOLEACEAE Müll. Frib. ex Vanden Berghen

GENERA PRESENT. — *Chiloscyphus* Corda (1), *Clasmatocolea* Spruce (1), *Cryptolophocolea* L. Söderstr., Crand.-Stotl., Stotler & Vána (3), *Heteroscyphus* Schiffn. (3), *Leptoscyphus* Mitt. (1), *Lophocolea* (Dumort.) Dumort. (6).

## Family LOPHOZIACEAE Cavers

GENERA PRESENT. — *Andrewsianthus* R. M. Schust. (2).

Family LUNULARIACEAE H. Klinggr.

GENERA PRESENT. — *Lunularia* Adans. (1).

Family MARCHANTIACEAE Chevall.

GENERA PRESENT. — *Marchantia* L. (3).

Family MASTIGOPHORACEAE R. M. Schust.

GENERA PRESENT. — *Mastigophora* Nees (1).

Family METZGERIACEAE H. Klinggr.

GENERA PRESENT. — *Metzgeria* Raddi (6).

Family NOTOSCYPHACEAE Crand.-Stotl., Váňa & Stotler

GENERA PRESENT. — *Notoscyphus* Mitt. (1).

Family PALLAVICINIACEAE Mig.

GENERA PRESENT. — *Jensenia* Lindb. (1), *Pallavicinia* Gray (1), *Symphyogyna* Nees & Mont. (2), *Symphyogynopsis* Grolle (1).

Family PLAGIOCHILACEAE Müll. Frib.

GENERA PRESENT. — *Plagiochila* (Dumort.) Dumort. (17).

Family PLEUROZIACEAE Müll. Frib.

GENERA PRESENT. — *Pleurozia* Dumort. (1).

Family PORELLACEAE Cavers

GENERA PRESENT. — *Porella* L. (2).

Family RADULACEAE Müll. Frib.

GENERA PRESENT. — *Cladonadula* (Spruce) M. A. M. Renner, Gradst., Ilk.-Borg. & F. R. Oliveira-da-Silva (1), *Radula* Dumort. (11).

Family RICCIACEAE Rchb.

GENERA PRESENT. — *Riccia* L. (6).

Family SCHISTOCHILACEAE H. Buch

GENERA PRESENT. — *Schistochila* Dumort. (2).

Family SOLENOSTOMATACEAE Stotler & Crand.-Stotl.

GENERA PRESENT. — *Solenostoma* Mitt. (7).

Family SOUTHBYACEAE

Váňa, Crand.-Stotl., Stotler & D. G. Long

GENERA PRESENT. — *Gongylanthus* Nees (3).

Family TARGIONIACEAE Chevall.

GENERA PRESENT. — *Targionia* L. (1).

Family WIESNERELLACEAE Inoue

GENERA PRESENT. — *Wiesnerella* Schiffn. (1).

SYNOPSIS OF FAMILIES AND GENERA FOR BRYOPHYTA

Family AMPHIDIACEAE M. Stech

GENERA PRESENT. — *Amphidium* Schimp. (1).

Family ANDREAEACEAE Dumort.

GENERA PRESENT. — *Andreaea* Hedw. (4).

Family ANOMODONTACEAE Kindb.

GENERA PRESENT. — *Anomodon* Hook. & Taylor (2).

Family AONGSTROEMIACEAE De Not.

GENERA PRESENT. — *Aongstroemia* Bruch & Schimp. (1).

Family ARCHIDIACEAE Schimp.

GENERA PRESENT. — *Archidium* Brid. (2).

Family BARTRAMIACEAE Schwägr.

GENERA PRESENT. — *Bartramia* Hedw. (4), *Breutelia* (Bruch & Schimp.) Schimp. (8), *Leiomela* (Mitt.) Broth. (1), *Philonotis* Brid. (6).

Family BRACHYTHECIACEAE Schimp.

GENERA PRESENT. — *Brachythecium* Schimp. (5), *Eurhynchium* Schimp. (2), *Oxyrrhynchium* (Schimp.) Warnst. (1), *Palamocladium* Müll.

Hal. (1), *Pseudoscleropodium* (Limpr.) M. Fleisch. (1), *Rhynchostegiella* (Schimp.) Limpr. (1), *Rhynchostegium* Schimp. (3), *Sciuro-hypnum* (Hampe) Hampe (1), *Squamidium* Broth. (1).

#### Family BRUCHIACEAE Schimp.

GENERA PRESENT. — *Trematodon* Michx. (4).

#### Family BRYACEAE Rchb.

GENERA PRESENT. — *Anomobryum* Schimp. (3), *Brachymenium* Schwägr. (4), *Bryum* Hedw. (4), *Gemmabryum* J. R. Spence & H. P. Ramsay (5), *Imbribryum* N. Pedersen (1), *Leptostomopsis* (Müll. Hal.) J. R. Spence & H. P. Ramsay (1), *Plagiobryoides* J. R. Spence (1), *Ptychostomum* Hornsch. (1), *Rhodobryum* (Schimp.) Limpr. (2), *Rosulabryum* J. R. Spence (4).

#### Family CALLICOSTACEAE H. A. Crum

GENERA PRESENT. — *Callicostella* (Müll. Hal.) Mitt. (4), *Cyclodictyon* Mitt. (6), *Lepidopilidium* (Müll. Hal.) Broth. (2), *Lepidopilum* (Brid.) Brid. (1).

#### Family CALOMNIACEAE Kindb.

GENERA PRESENT. — *Pyrrhobryum* Mitt. (1).

#### Family CERATODONTACEAE Schimp.

GENERA PRESENT. — *Ceratodon* Brid. (1).

#### Family CALYPTROCHAETACEAE Qinghua Wang, Y. Jia & B. C. Ho

GENERA PRESENT. — *Calypstrochaeta* Desv. (1).

#### Family CALYMPERACEAE Kindb.

GENERA PRESENT. — *Calymperes* Sw. ex F. Weber (8), *Leucophanes* Brid. (3), *Syrrhopodon* Schwägr. (14).

#### Family CATAGONIACEAE W. R. Buck & Ireland

GENERA PRESENT. — *Catagonium* Müll. Hal. (1).

#### Family DALTONIACEAE Schimp.

GENERA PRESENT. — *Daltonia* Hook. & Taylor (4), *Distichophyllum* Dozy & Molk. (1).

#### Family DICRANACEAE Schimp.

GENERA PRESENT. — *Dicranoloma* (Renauld) Renauld (1) *Dicranum* Hedw. (1), *Holomitrium* Brid. (3), *Leucoloma* Brid. (22).

#### Family DICRANELLACEAE M. Stech

GENERA PRESENT. — *Bryopalisotia* Bonfim Santos & Fedosov (1), *Dicranella* (Müll. Hal.) Schimp. (5), *Garckea* Müll. Hal. (1), *Microcampylopus* (Müll. Hal.) M. Fleisch. (1).

#### Family DITRICHACEAE Limpr.

GENERA PRESENT. — *Ditrichum* Timm ex Hampe (2), *Pleuridium* Rabenh. (3).

#### Family ENTODONTACEAE Kindb.

GENERA PRESENT. — *Entodon* Müll. Hal. (3).

#### Family ERPODIACEAE Müll. Hal.

GENERA PRESENT. — *Tricherpodium* (Müll. Hal.) Pursell (1).

#### Family FABRONIACEAE Schimp.

GENERA PRESENT. — *Fabronia* Raddi (1).

#### Family FISSIDENTACEAE Schimp.

GENERA PRESENT. — *Fissidens* Hedw. (34).

#### Family FUNARIACEAE Schwägr.

GENERA PRESENT. — *Entosthodon* Schwägr. (4), *Funaria* Hedw. (2), *Physcomitrium* (Brid.) Brid. (1).

#### Family GRIMMIACEAE Arn.

GENERA PRESENT. — *Bucklandiella* Roiv. (2), *Grimmia* Hedw. (6), *Racomitrium* Brid. (1), *Schistidium* Bruch & Schimp. (1).

#### Family HEDWIGIACEAE Schimp.

GENERA PRESENT. — *Hedwigidium* Bruch & Schimp. (1), *Rhacocarpus* Lindb. (1).

#### Family HOOKERIACEAE Schimp.

GENERA PRESENT. — *Hookeria* Sm. (1).

Family HYLOCOMIACEAE M. Fleisch.

GENERA PRESENT. — *Loeskeobryum* M. Fleisch. ex Broth. (1).

Family HYPNACEAE Schimp.

GENERA PRESENT. — *Ectropothecium* Mitt. (5), *Hypnum* Hedw. (4), *Mittenothamnium* Henn. (5), *Vesicularia* (Müll. Hal.) Müll. Hal. (6).

Family HYPOPTERYGIACEAE Mitt.

GENERA PRESENT. — *Hypopterygium* Brid. (1), *Lopidium* Hook. f. & Wilson (1).

Family LEMBOPHYLLACEAE Broth.

GENERA PRESENT. — *Nogopterium* Crosby & W. R. Buck (1), *Pilotrichella* (Müll. Hal.) Lorentz (2).

Family LESKEACEAE Schimp.

GENERA PRESENT. — *Pseudoleskeopsis* Broth. (1), *Schwetschkea* Müll. Hal. (1).

Family LEUCOBRYACEAE Schimp.

GENERA PRESENT. — *Campylopus* Brid. (26), *Atractylocarpus* Mitt. (2), *Leucobryum* Hampe (3).

Family LEUCODONTACEAE Schimp.

GENERA PRESENT. — *Pterogoniadelphus* M. Fleisch. (1).

Family LEUCOMIACEAE Broth.

GENERA PRESENT. — *Leucomium* Mitt. (1).

Family METEORIACEAE Kindb.

GENERA PRESENT. — *Aerobryopsis* M. Fleisch. (1), *Floribundaria* M. Fleisch. (2), *Papillaria* (Müll. Hal.) Lorentz (1), *Trachypodopsis* M. Fleisch. (1), *Trachypus* Reinw. & Hornsch. (1).

Family MNIACEAE Schwägr.

GENERA PRESENT. — *Mielichhoferia* Hornsch. (1), *Plagiomnium* T. J. Kop. (1), *Pohlia* Hedw. (2), *Pseudopohlia* R. S. Williams (1), *Schizymerium* Harv. (1).

Family NECKERACEAE Schimp.

GENERA PRESENT. — *Alleniella* S. Olsson, Enroth & D. Quandt (1), *Circulifolium* S. Olsson, Enroth & D. Quandt (1), *Leptodon*

D. Mohr (1), *Longiella* J. T. Wynns (1), *Neckeromnion* S. Olsson, Enroth, Huttunen & D. Quandt (1), *Neckeropsis* Reichardt (1), *Pinnatella* M. Fleisch. (1), *Porotrichum* (Brid.) Hampe (1).

Family OCTOBLEPHARACEAE A. Eddy ex M. Menzel

GENERA PRESENT. — *Octoblepharum* Hedw. (1).

Family ORTHODONTIACEAE Goffinet

GENERA PRESENT. — *Orthodontium* Schwägr. (1).

Family ORTHOSTICHELLACEAE Enroth, Huttunen, Tangney, M. Stech & D. Quandt

GENERA PRESENT. — *Afrothamnium* Enroth (1), *Deslooveria* Enroth (2), *Orthostichella* (Müll. Hal.) Spruce (2), *Pinnatidendron* Enroth (1), *Scabrellifolium* Enroth (1).

Family ORTHOTRICHACEAE Arn.

GENERA PRESENT. — *Cardotiella* Vitt (2), *Codonoblepharon* Schwägr. (1), *Groutiella* Steere (1), *Leiomitrium* Mitt. (1), *Macromoma* (Hornsch. ex Müll. Hal.) Grout (2), *Macromitrium* Brid. (9), *Orthotrichum* Hedw. (1), *Schlotheimia* Brid. (13), *Ulota* D. Mohr (1), *Zygodon* Hook. & Taylor (3).

Family PHYLLOGONIACEAE Ordway

GENERA PRESENT. — *Phyllogonium* Brid. (2).

Family PLAGIOTHECIACEAE M. Fleisch.

GENERA PRESENT. — *Plagiothecium* Schimp. (3).

Family POLYTRICHACEAE Schwägr.

GENERA PRESENT. — *Atrichum* P. Beauv. (1), *Delongia* N. E. Bell, Kariyawasam, Hedd. & Hyvönen (1), *Pogonatum* P. Beauv. (8), *Polytrichum* Hedw. (2).

Family POTTIACEAE Hampe

GENERA PRESENT. — *Anoetangium* Schwägr. (8), *Barbula* Hedw. (2), *Bryoerythrophyllum* P. C. Chen (3), *Chenia* R. H. Zander (1), *Chionoloma* Dixon (4), *Didymodon* Hedw. (2), *Gymnostomiella* M. Fleisch. (1), *Gymnostomum* Nees & Hornsch. (2), *Hydrogonium* (Müll. Hal.) A. Jaeger (1), *Hymenostylium* Brid. (5), *Hyophila* Brid. (1), *Leptodontium* (Müll. Hal.) Hampe ex Lindb. (5), *Pseudocrossidium* R. S. Williams (2), *Splachnobryum* Müll. Hal. (1), *Streblotrichum* P. Beauv. (1), *Syntrichia* Brid. (2), *Tortella* (Müll. Hal.) Limpr. (1), *Tortula* Hedw. (1), *Trichostomum* Bruch (3), *Weissia* Hedw. (5).

## Family PRIONODONTACEAE Broth.

GENERA PRESENT. — *Prionodon* Müll. Hal. (1).

## Family PTEROBRYACEAE Kindb.

GENERA PRESENT. — *Calypotbecium* Mitt. (1), *Hildebrandtiella* Müll. Hal. (2), *Jaegerina* Müll. Hal. (2), *Orthostichidium* Müll. Hal. ex Dusén (2), *Orthostichopsis* Broth. (2), *Pterobryon* Hornsch. (1).

## Family PTYCHOMITRIACEAE Schimp.

GENERA PRESENT. — *Ptychomitrium* Fűrnr. (2).

## Family PYLAISIACEAE Schimp.

GENERA PRESENT. — *Calliergonella* Loeske (1), *Calohypnum* Sakurai (1).

## Family PYLAISIADELPHACEAE Goffinet &amp; W. R. Buck

GENERA PRESENT. — *Clastobryellina* (M. Fleisch.) H. Akiyama (1), *Isopterygium* Mitt. (6), *Taxithelium* Spruce ex Mitt. (2), *Trachyphyl- lum* A. Gepp (2), *Wijkia* H. A. Crum (1).

## Family RACOPILACEAE Kindb.

GENERA PRESENT. — *Racopilum* P. Beauv. (5).

Family RHIZOFABRONIACEAE  
Huttunen, Ignatov, D. Quandt & Hedenäs

GENERA PRESENT. — *Rhizofabronia* (Broth.) M. Fleisch. (2).

## Family RUTENBERGIACEAE M. Fleisch.

GENERA PRESENT. — *Rutenbergia* Geh. & Hampe ex Besch. (2).

## Family SELIGERIACEAE Schimp.

GENERA PRESENT. — *Blindia* Bruch & Schimp. (1).

## Family SEMATOPHYLLACEAE Broth.

GENERA PRESENT. — *Acroporium* Mitt. (2), *Acanthorrhynchium* M. Fleisch. (1), *Brittonodoxa* W. R. Buck, P. E.A.S. Câmara & Carv.-Silva (1), *Clastobryophilum* M. Fleisch. (1), *Macrobrymenium* Müll. Hal. (1), *Meiothecium* Mitt. (1), *Microcalpe* (Mitt.) Spruce ex A. Jaeger (1), *Papillidiopsis* (Broth.) W. R. Buck & B. C. Tan (2), *Radulina* W. R. Buck & B. C. Tan (1), *Rhaphidorrhynchium* Besch. ex M. Fleisch. (2), *Rhaphidostichum* M. Fleisch. (1), *Sematophyl- lum* Mitt. (3), *Trichosteium* Mitt. (4), *Warburgiella* Müll. Hal. (1).

## Family SERPOTORTELLACEAE W. D. Reese &amp; R. H. Zander

GENERA PRESENT. — *Serpotortella* Dixon (2).

## Family SPHAGNACEAE Dumort.

GENERA PRESENT. — *Sphagnum* L. (16).

## Family SPLACHNACEAE Grev. &amp; Arn.

GENERA PRESENT. — *Tayloria* Hook. (2).

## Family STEREOPHYLLACEAE W. R. Buck &amp; Ireland

GENERA PRESENT. — *Stereophyllum* Mitt. (1).

## Family SYMPHYDONTACEAE M. Fleisch.

GENERA PRESENT. — *Chaetomitrium* Dozy & Molk. (1), *Phyllo- don* Schimp. (2), *Symphyodon* Mont. (1).

## Family THUIDIACEAE Schimp.

GENERA PRESENT. — *Pelekium* Mitt. (1), *Thuidium* Schimp. (3).

## CHECKLIST

The list is separated by division – Anthocerotophyta, March- antiophyta and Bryophyta. Divisions are organized alphabeti- cally by family and then by taxon name.

Division ANTHOCEROTOPHYTA  
Stotler & Crand.-Stotl.

## Family ANTHOCEROTACEAE Dumort.

*Anthoceros lamellatus* Steph. — Voucher: *Hedderson 18428*; Entre- Deux; 1140 m alt.; 7.IX.2013; BOL, det. J. C. Villarreal.

*Anthoceros sambesianus* Steph. (Ah-Peng *et al.* 2008: 186).

*Folioceros fuciformis* (Mont.) D. C. Bhardwaj — (Montagne 1843: 296, as *Anthoceros fuciformis* Mont.).

## Family DENDROCEROTACEAE J. Haseg.

*Dendroceros africanus* Steph. (Ah-Peng 2007: 222).

*Dendroceros borbonicus* Steph. <sup>R</sup> (Stephani 1894a: 31).

<sup>N</sup>*Megaceros gracilis* (Reichardt) Steph. — Voucher: (*Hedder- son 18460*; Plaines des Grègues: Forêt du Rond; 900 m alt.; 8.IX.2013; BOL, det. J. C. Villarreal). This record should be confirmed with molecular data, as the species has thus far only

been reported from parts of Australasia and cannot be confidently determined based on morphology alone (pers. comm. C. Cargill 2024).

Family NOTOTHYLADACEAE Müll. Frib. ex Prosk.

*Phaeoceros carolinianus* (Michx.) Prosk. — Voucher: (*Ellis & Wilbraham R08-22*; Plaine d’Affouches; 624 m alt.; 6.IX.2008; BM[BM000968834]; det. L. Ellis & J. Wilbraham).

<sup>N</sup>*Phaeoceros laevis* (L.) Prosk. — Voucher: (*Bardat & Ah-Peng REU1259*; Sentier de la Roche Ecrite; 1250 m alt.; 20.VIII.2013; REU[REU030640]; det. Q. Dejonghe).

Family PHYMATOCEROTACEAE

R. J. Duff, J. C. Villarreal, Cargill & Renzaglia

<sup>N</sup>*Phymatoceros bulbiculosus* (Brot.) Stotler, W. T. Doyle & Crand.-Stotl. — Voucher: (*Q. Dejonghe QD42R24*; Sentier scout haut de Mafate; 1637 m alt.; 19.III.2024; herb. priv. Dejonghe, det. Q. Dejonghe).

Division MARCHANTIOPHYTA  
Stotler & Crand.-Stot.

Family ACROBOLBACEAE E. A. Hodgs.

*Acrobolbus laxus* (Lehm. & Lindenb.) Briscoe (Burghardt & Gradstein 2008: 207, as *Tylimanthus laxus* (Lehm. & Lindenb.) Spruce). *Acrobolbus ruwenzorensis* (Lehm. et Lindenb.) Briscoe is treated as a synonym of *A. laxus* following Burghardt & Gradstein (2008).

*Acrobolbus limbatus* (Steph.) Briscoe & J. J. Engel (Arnell 1965: 84, as *Tylimanthus wilmsii* Steph.).

*Conoscyphus trapezioides* (Sande Lac.) Mitt. ex Schiffn. (Stephani 1907: 195, as *C. inflexifolius* Mitt.).

*Lethocolea congesta* (Lehm.) S. W. Arnell (Arnell 1965: 77).

Family ADELANTHACEAE Grolle

*Adelanthus lindenbergianus* (Lehm.) Mitt. (Renauld & Cardot 1891: 56, as *A. unciformis* (Hook. f. & Taylor) Spruce).

*Cuspidatula contracta* (Reinw., Blume & Nees) Steph. (Pócs 1995: 260, as *Jamesoniella contracta* (Reinw., Blume & Nees) N. Kitag.).

*Pseudomarsupidium decipiens* (Hook.) Grolle (Montagne 1856: 194, as *Plagiochila emarginata* Mont. & Gottsche <sup>M</sup>).

*Syzygiella manca* (Mont.) J. B. Jack & Steph. (Grolle & Onraedt 1974: 233, as *S. ruwenzorensis* Steph.).

*Syzygiella purpurascens* (Steph.) K. Feldberg, Váňa, Hentschel & Heinrichs <sup>R</sup> (Stephani 1892: 200, as *Jamesoniella purpurascens* Steph.).

*Syzygiella sonderi* (Gottsche) K. Feldberg, Váňa, Hentschel & Heinrichs (Grolle & Onraedt 1974: 259, as *Cryptochila grandiflora* (Lindenb. & Gottsche) Grolle).

Family ANASTROPHYLLACEAE

L. Söderstr., De Roo & Hedde.

*Anastrophyllum auritum* (Lehm.) Steph., (Müller 2000: 92, as *A. leucocephalum* (Taylor ex Lehm.) Steph.).

*Anastrophyllum piligerum* (Nees) Steph. (Gottsche *et al.* 1844: 81, as *Jungermannia piligera* Nees).

*Anastrophyllum revolutum* Steph. (Ah-Peng *et al.* 2010a: 291). Váňa *et al.* (2013a) lack strong new evidence for raising *Anastrophyllum* sect. *Anastrophyllopsis* Schust. to genus level. For this reason we choose not to use the combination *Anastrophyllopsis revoluta* (Steph.) Váňa & L. Söderstr.

*Plicanthus hirtellus* (F. Weber) R. M. Schust. <sup>R</sup> (Weber 1815: 50, as *Jungermannia hirtella* F. Weber).

<sup>N</sup>*Sphenolobus minutus* (Schreb.) Berggr. — Voucher: (*Ah-Peng et al. 1750P2Q1TC2*; GR trail Bélouve-Piton des Neiges; 1750 m alt.; 28.III.2008; REU, det. C. Ah-Peng).

Family ANEURACEAE H. Klinggr.

*Afroriccardia comosa* (Steph.) Reeb & Gradst. <sup>R</sup> (Stephani 1890: 281, as *Aneura comosa* Steph.).

*Aneura latissima* Spruce (Renauld & Cardot 1891: 56).

*Aneura pinguis* (L.) Dumort. (Ah-Peng *et al.* 2008: 186).

*Riccardia angusticosta* (Steph.) Grolle (Ah-Peng *et al.* 2007: 658, as *R. amazonica* (Spruce) Schiffn. ex Gradst. & Hekking).

*Riccardia chamedryfolia* (With.) Grolle (Reeb & Gradstein 2020: 20).

*Riccardia fastigiata* (Lehm.) Trevis. (Ah-Peng *et al.* 2010b: 266).

*Riccardia longispica* (Steph.) Pearson <sup>R</sup> (Stephani 1890: 281, as *Aneura longispica* Steph.).

*Riccardia martinii* Reeb & Gradst. <sup>M</sup> (Reeb & Gradstein 2020: 28).

*Riccardia ramosissima* (Steph.) Grolle <sup>R</sup> (Stephani 1892: 196, as *Aneura ramosissima* Steph.).

*Riccardia saccatiflora* (Steph.) S. W. Arnell <sup>R</sup> (Stephani 1890: 282, as *Aneura saccatiflora* Steph.).

Family AYTONIACEAE Cavers

*Asterella syngenesica* (Bory) Grolle (Bory de Saint Vincent 1804: 95, as *Marchantia syngenesica* Bory).

*Plagiochasma eximium* (Schiffn.) Steph. (Bischler 1978: 255).

*Plagiochasma rupestre* (J. R. Forst. & G. Forst.) Steph. (Renauld & Cardot 1894a: 118, as *Aytonia* [Aitonia] *rupestris* J. R. Forst. & G. Forst.).

*Plagiochasma rupestre* var. *volkii* Bischl. (Ah-Peng *et al.* 2010b: 268).

Family BALANTIOPSISACEAE Nakai

*Isotachis aubertii* (Schwägr.) Mitt. (Weber 1815: 38, as *Jungermannia uncinata* F. Weber <sup>R</sup>).

## Family CALYPOGEIACEAE Ordway

*Calypogeia arguta* Nees & Mont. (Arnell 1965: 69). Bakalin *et al.* (2022) did not adequately sample the genus *Calypogeia* when they raised *Calypogeia* subg. *Asperifolia* Schust. to genus level. For this reason we choose not to use the combination *Asperifolia arguta* (Nees & Mont.) A. V. Troitsky, Bakalin & Maltseva.

*Calypogeia bidentula* (F. Weber) Nees (Bescherelle 1895: 10, as “*Kantia bidentula*”).

*Calypogeia fissa* (L.) Raddi (Pócs 1995: 256).

*Calypogeia mascarenensis* Bischl. <sup>R</sup> (Bischler 1970: 89).

*Calypogeia microstipula* (Steph.) Steph. <sup>M</sup> (Arnell 1965: 69).

*Calypogeia peruviana* Nees & Mont. (Pócs 1995: 256, as *C. afrocaerulea* E. W. Jones).

*Mnioloma fuscum* (Lehm.) R. M. Schust. (Grolle & Onraedt 1974: 231, as *Calypogeia fusca* (Lehm.) Steph.).

## Family CEPHALOZIACEAE Mig.

*Alobiellopsis heteromorpha* (Lehm.) R. M. Schust. (Ah-Peng *et al.* 2008: 186).

*Cephalozia bicuspidata* (L.) Dumort. (Grolle & Onraedt 1974: 231, as *C. vallis-gratiæ* Steph.).

*Fuscocephaloziopsis connivens* subsp. *fissa* (Steph.) Váňa & L. Söderstr. (Ah-Peng *et al.* 2005: 44, as *Cephalozia connivens* subsp. *fissa* (Steph.) Váňa).

*Odontoschisma jshibae* (Steph.) L. Söderstr. & Váňa (Grolle & Onraedt 1974: 232, as *Iwatsukia jshibae* (Steph.) N. Kitag.).

*Odontoschisma variabile* (Lindenb. & Gottsche) Trevis. (Müller 2000: 92, as *O. africanum* (Pearson) Sim).

## Family CEPHALOZIACEAE Douin &amp; Schiffn.

*Allisoniella nigra* (Rodway) R. M. Schust. (Váňa 1985: 88).

*Cephaloziella anthelioides* S. W. Arnell (Ah-Peng *et al.* 2008: 186).

*Cephaloziella kiaeri* (Austin) Douin (Váňa *et al.* 1979: 5). Váňa *et al.* (2013b) moved *Cephaloziella kiaeri* (Austin) Douin to *Cylindrocolea* (as *Cylindrocolea kiaeri* (Austin) Váňa) because of its laterally inserted leaves, but the species is morphologically very different from *Cylindrocolea*, and more similar to *Cephaloziella*, in its very small, thick-walled leaf cells and the presence of gemmae (leaf cells large and thin-walled, and gemmae absent in *Cylindrocolea*). For this reason, *C. kiaeri* is kept in *Cephaloziella* pending a molecular study on the position of the taxon.

*Cephaloziella transvaalensis* S. W. Arnell (Ah-Peng *et al.* 2008: 186).

*Cephaloziella umtaliensis* S. W. Arnell (Ah-Peng *et al.* 2008: 186).

*Cephaloziella vaginans* Steph. — Voucher: (Ah-Peng *et al.* 1750P1Q1TBI; GR trail Bélouve-Piton des Neiges; 1750 m alt.; 28.III.2008; REU, det. J. Bardat).

*Cylindrocolea gittinsii* (E. W. Jones) R. M. Schust. (Ah-Peng 2007: 223).

*Gottschelia schizopleura* (Spruce) Grolle <sup>M</sup> (Grolle 1968: 16).

*Kymatocalyx madagascariensis* (Steph.) Gradst. & Váňa <sup>M</sup> (Grolle & Onraedt 1974: 233, as *Stenorhipis madagascariensis* (Steph.) Grolle).

## Family CORSINIACEAE Ordway

*Exormotheca pustulosa* Mitt. (Bischler 1976: 771).

## Family CYATHODIACEAE Stotler &amp; Crand.-Stotl.

*Cyathodium cavernarum* Kunze ex Lehm. (Ah-Peng *et al.* 2010a: 292).

## Family DUMORTIERACEAE D. G. Long

*Dumortiera hirsuta* (Sw.) Nees (Renauld & Cardot 1891: 56).

## Family FOSSOMBRONIACEAE Hazsl.

<sup>N</sup>*Fossombronia caespitifformis* (Raddi) De Not. ex Rabenh. — Voucher: (Arts REU 43/20; Piton de la Fournaise; 2230 m alt.; 23.IX.1997; BR[BR5040315536929]; det. T. Arts & conf. S. R. Gradstein II.2024).

<sup>N</sup>*Fossombronia crispa* Nees. — Voucher: (*Gimalac* 74.R.8387; Plaine de Cafres; 1500 m alt.; 12.VII.1974; BR[BR5040235094639]; det. C. Cargill).

*Fossombronia foveolata* Lindb. (Müller 2000: 92).

*Fossombronia pusilla* (L.) Nees (Váňa *et al.* 1979: 9).

*Fossombronia stephanii* Schiffn. ex Steph. <sup>E R</sup> (Stephani 1900: 381).

## Family FRULLANIACEAE Ordway

*Frullania anderssonii* Ångstr. <sup>M</sup> (Stephani 1910: 375, as *F. obscura* (Sw.) Nees ex Mont. <sup>R</sup>).

*Frullania angulata* Mitt. (Vanden Berghen 1976: 72).

*Frullania apicalis* Mitt. <sup>M</sup> (Stephani 1894b: 166, as *F. rodriguezii* Steph. <sup>R</sup>).

*Frullania apiculata* (Reinw., Blume & Nees) Nees (Stephani 1911: 476, as *F. nigricans* Steph. <sup>R</sup>).

*Frullania borbonica* Lindenb. <sup>R</sup> (Gottsche *et al.* 1844: 455).

*Frullania caffraria* Steph. (Vanden Berghen 1976: 184).

*Frullania capensis* Gottsche (Stephani 1894b: 165, as *F. multiramosa* Steph. <sup>R</sup>).

*Frullania diptera* (Lehm.) Drège (Vanden Berghen 1976: 197).

*Frullania ericoides* (Nees) Mont. (Renauld & Cardot 1891: 57, as *F. squarrosa* (Nees ex Mont.) Nees).

- Frullania grossiclava* Steph. (Ah-Peng *et al.* 2008: 187).  
*Frullania humbertii* Vanden Berghen <sup>M</sup> (Vanden Berghen 1976: 26).  
*Frullania lindenberghii* Lehm. (Stephani 1911: 628, as *F. lepervanchei* Steph. <sup>R</sup>).  
*Frullania obscura* (Sw.) Nees ex Mont. (Arnell 1965: 74, as *F. arecae* (Spreng.) Gottsche).  
*Frullania onraedtii* Vanden Berghen <sup>M</sup> (Hentschel *et al.* 2009: 145).  
*Frullania repandistipula* Sande Lac. (Vanden Berghen 1976: 29, as *F. tixieriana* Vanden Berghen <sup>R</sup>).  
<sup>N</sup>*Frullania riojaneirensis* (Raddi) Ångstr. — Voucher: (Ah-Peng & Bardat REU 1260; La Roche Ecrite; 1260 m alt.; 20.VIII.2013; REU, det. C. Ah-Peng, conf. S. R. Gradstein).  
*Frullania serrata* Gottsche var. *serrata* (Weber 1815: 25, as *Jungermannia atrata* var. *stricta* F. Weber <sup>R</sup>).  
*Frullania spongiosa* Steph. (Ah-Peng *et al.* 2010a: 292).  
*Frullania trinervis* (Lehm.) Drège (Ah-Peng *et al.* 2008: 187).  
*Frullania usambarana* Schiffn. ex Steph. (Pócs 1995: 259).  
*Frullania usambarana* var. *reducta* Vanden Berghen <sup>R</sup> (Vanden Berghen 1976: 91).  
<sup>N</sup>*Frullania vandenberghenii* Pócs <sup>M</sup>. — Voucher: (Pócs 08071AH; Plaine des Fougères; 1200-1300 m alt.; 18.IX.2008; EGR; det. T. Pócs with some doubt). Previously thought to be endemic to Madagascar. Vanden Berghen (1976: 32) mentioned a similar, but undescribed species (*Onraedt 73 R 1389*) from Réunion.  
*Frullania variegata* Steph. <sup>R</sup> (Stephani 1894b: 149).

Family GEOCALYCEAE H. Klinggr.

- Geocalyx orientalis* Besch. & Spruce <sup>E R</sup> (Bescherelle & Spruce 1890: 189).

Family GYMNOMITRIACEAE H. Klinggr.

- Gymnomitrium subintegrum* (S. W. Arnell) Váňa (Váňa 1985: 93, as *Marsupella subintegra* S. W. Arnell).  
*Marsupella emarginata* (Ehrh.) Dumort. (Arts 2005: 118).  
*Nardia arnelliana* Grolle (Grolle & Onraedt 1974: 232).

Family HERBERTACEAE Müll. Frib. ex Fulford & Hatcher

- Herbertus dicranus* (Taylor) Trevis. (Renauld & Cardot 1891, 57, as “Herberta dicrana”).  
*Herbertus juniperoides* (Sw.) Grolle (Ah-Peng *et al.* 2008: 187, as *Herbertus grossevittatus* (Steph.) S. W. Arnell ex Grolle).  
*Herbertus mauritianus* N. G. Hodgetts <sup>M</sup> (Hodgetts 2008: 249).

Family LEJEUNEACEAE Rostovzev

- Acanthocoleus madagascariensis* (Steph.) Kruijt <sup>M</sup> (Arnell 1965: 73, as “Dicranolejeunea madagascariensis” G.).

- Acrolejeunea aulacophora* (Mont.) Steph. (Renauld & Cardot 1891: 57, as *Lejeunea renauldii* Renauld & Cardot <sup>R</sup>).  
*Acrolejeunea emergens* (Mitt.) Steph. var. *emergens* <sup>M</sup> (Renauld & Cardot 1894a: 11, as *Lejeunea emergens* (Mitt.) Steph.).  
*Acrolejeunea pycnoclada* (Taylor) Schiffn. (Gradstein 1975: 114).  
*Bryopteris gaudichaudii* Gottsche <sup>R</sup> (Gottsche 1857: 340).  
*Capillolejeunea mascarena* S. W. Arnell <sup>M</sup> (Ah-Peng *et al.* 2008: 187, as *Drepanolejeunea mascarena* (S. W. Arnell) R. L. Zhu & Grolle).  
*Ceratolejeunea belangeriana* (Gottsche) Steph. <sup>M</sup> (Stephani 1890: 285, as *C. mascarena* (J. M. Coult., Barnes & Arthur) Steph. <sup>R</sup>).  
*Ceratolejeunea coarina* (Gottsche) Schiffn. (Ah-Peng 2007: 221).  
*Ceratolejeunea cornuta* (Lindenb.) Steph. (Ah-Peng 2007: 221).  
*Ceratolejeunea floribunda* Steph. (Ah-Peng 2007: 221).  
*Ceratolejeunea papuliflora* Steph. <sup>M</sup> (Ah-Peng *et al.* 2010b: 267).  
*Ceratolejeunea umbonata* Steph. (Ah-Peng *et al.* 2010a: 291).  
*Ceratolejeunea zenkeri* Steph. (Ah-Peng 2007: 221).  
*Cheilolejeunea camerunensis* S. W. Arnell (Ah-Peng 2007: 221).  
*Cheilolejeunea cordigera* (Steph.) Grolle <sup>M</sup> (Ah-Peng *et al.* 2008: 187).  
*Cheilolejeunea cordistipula* (Steph.) Grolle ex E. W. Jones <sup>M</sup> (Jones 1985: 397).  
*Cheilolejeunea decursiva* (Sande Lac.) R. M. Schust. (Grolle 1977: 531).  
*Cheilolejeunea ecarinata* Vanden Berghen <sup>E R</sup> (Vanden Berghen 1984: 14).  
*Cheilolejeunea intertexta* (Lindenb.) Steph. (Stephani 1892: 205, as *C. kurzii* Steph. <sup>R</sup>).  
*Cheilolejeunea krakakammae* (Lindenb.) R. M. Schust. (Renauld & Cardot 1891: 58, as *Lejeunea brevifissa* Gottsche <sup>M</sup>).  
*Cheilolejeunea montagnei* (Gottsche ex Mont.) R. M. Schust. <sup>M</sup> (Renauld & Cardot 1891: 57 as *Lejeunea montagnei* Gottsche).  
*Cheilolejeunea pluriplicata* (Pearson) R. M. Schust. (Ah-Peng *et al.* 2010a: 291).  
*Cheilolejeunea pocsii* E. W. Jones (Ah-Peng *et al.* 2010a: 292).  
*Cheilolejeunea rigidula* (Nees ex Mont.) R. M. Schust. (Arnell 1965: 71, as *C. principensis* Steph. ex Schiffn.).  
*Cheilolejeunea rotundistipula* (Lindenb. ex Lehm.) Malombe (Arnell 1965: 77, as *Leucolejeunea rotundistipula* (Lindenb. ex Lehm.) A. Evans).  
*Cheilolejeunea surrepens* (Mitt.) E. W. Jones <sup>M</sup> (Jones 1974: 550).  
<sup>N</sup>*Cheilolejeunea trapezia* (Nees) Kachroo & R. M. Schust. — Voucher: (*Onraedt 73.R.1383*; sentier vers le Grand Etang; 480 m alt.; 28.XII.1978; BR[BR5040234909729]; det. S. R. Gradstein II.2024).  
*Cheilolejeunea trifaria* (Reinw., Blume & Nees) Mizut. (Bescherelle 1895: 6, as *Lejeunea trifaria* (Reinw., Blume & Nees) Nees).  
*Cheilolejeunea usambarana* (Steph.) Grolle (Grolle 1979a: 344, see footnote therein).

- Cheilolejeunea xanthocarpa* (Lehm. & Lindenb.) Malombe (Arnell 1965: 77, as *Leucolejeunea xanthocarpa* (Lehm. & Lindenb.) A. Evans).
- Cololejeunea appressa* (A. Evans) Benedix (Tixier 1979: 174).
- Cololejeunea bebourensis* Tixier<sup>R</sup> (Tixier 1979: 229).
- Cololejeunea bidentula* (Steph.) E. W. Jones<sup>M</sup> (Tixier 1979: 235).
- Cololejeunea borbonica* Tixier<sup>E R</sup> (Tixier 1979: 191).
- Cololejeunea bosseriana* Tixier<sup>E R</sup> (Tixier 1979: 235).
- Cololejeunea cardiocarpa* (Mont.) A. Evans (Ah-Peng *et al.* 2010a: 292).
- Cololejeunea ceatocarpa* (Ångstr.) Steph. (Tixier 1979: 235).
- Cololejeunea cuneata* (Lehm. & Lindenb.) Herzog<sup>M</sup> (Tixier 1979: 184).
- Cololejeunea decemplicata* (Steph.) Tixier<sup>M</sup> (Arnell 1965: 73).
- Cololejeunea elegans* Steph. (Grolle & Onraedt 1974: 231, as *C. xaveri* (Lacout. ex Steph.) E. W. Jones).
- Cololejeunea hasskarliana* (Lehm.) Schiffn. (Tixier 1979: 238).
- Cololejeunea hildebrandii* (Austin) Steph. (Tixier 1976: 465, as *C. filicaulis* Steph.).
- Cololejeunea latilobula* (Herzog) Tixier (Grolle & Onraedt 1974: 231, as *C. himalayensis* (Pandé & R. N. Misra) R. M. Schust.).
- Cololejeunea leloutrei* (E. W. Jones) R. M. Schust. (Ah-Peng *et al.* 2008: 187).
- Cololejeunea marginata* (Lehm. & Lindenb.) Pearson<sup>M</sup> (Tixier 1985: 69).
- Cololejeunea microscopica* (Taylor) Schiffn. var. *microscopica* (Ah-Peng *et al.* 2010b: 267, as *Aphanolejeunea microscopica* (Taylor) A. Evans).
- Cololejeunea microscopica* var. *africana* (Pócs) Pócs & Bernecker (Ah-Peng *et al.* 2010b: 267, as *Aphanolejeunea microscopica* var. *africana* (Pócs) Pócs & A. Lücking).
- Cololejeunea microscopica* var. *exigua* (A. Evans) Pócs (Ah-Peng *et al.* 2010a: 292).
- Cololejeunea obliqua* (Nees & Mont.) Schiffn. (Tixier 1979: 232, as *C. crenatiflora* var. *orientalis* Tixier<sup>R</sup>).
- Cololejeunea peponiformis* Mizut. (Tixier 1979: 241).
- Cololejeunea sintenisii* (Steph.) Pócs (Ah-Peng *et al.* 2010a: 292).
- Cololejeunea takamakae* Tixier<sup>E R</sup> (Tixier 1985: 319).
- Cololejeunea tanzaniae* Pócs (Ah-Peng *et al.* 2010b: 267).
- Cololejeunea zenkeri* (Steph.) E. W. Jones (Tixier 1979: 223, as *C. duwignaudii* E. W. Jones).
- Colura calyptrifolia* (Hook.) Dumort. (Ah-Peng *et al.* 2008: 188).
- Colura digitalis* (Mitt.) Steph. (Arnell 1965: 73).
- Colura digitalis* var. *mucronata* Pócs (Ah-Peng *et al.* 2010a: 292).
- Colura dusenii* (Steph.) Steph. (Ah-Peng 2007: 222).
- Colura heimii* Jovet-Ast<sup>M</sup> (Jovet-Ast 1958: 20).
- Colura humberitii* Jovet-Ast<sup>M</sup> (Jovet-Ast 1958: 20).
- Colura obesa* Jovet-Ast<sup>M</sup> (Jovet-Ast 1976: 911).
- Colura tenuicornis* (A. Evans) Steph. (Jovet-Ast 1958: 21).
- Diplasiolejeunea cavifolia* Steph. (Ah-Peng 2007: 222).
- Diplasiolejeunea cogoensis* M. Infante, Heras & Pócs (Ah-Peng *et al.* 2010a: 292).
- Diplasiolejeunea cornuta* Steph.<sup>R</sup> (Stephani 1916: 918).
- Drepanolejeunea cultrella* (Mitt.) Steph. (Ah-Peng 2007: 264).
- Drepanolejeunea friesii* Vanden Berghen (Pócs 2021: 199).
- Drepanolejeunea helenae* Pócs<sup>E R</sup> (Pócs 1997b: 198).
- Drepanolejeunea madagascariensis* (Steph.) Grolle<sup>M</sup> (Grolle & Onraedt 1974: 232).
- Drepanolejeunea pentadactyla* (Mont.) Steph. var. *pentadactyla* (Ah-Peng *et al.* 2007: 657, as *D. camboueana* Steph.<sup>M</sup>).
- Drepanolejeunea physifolia* (Gottsche) Pearson<sup>M</sup> (Bescherelle & Spruce 1890: 188, as *Lejeunea intorta* Besch. & Spruce<sup>R</sup>).
- Drepanolejeunea trematodes* (Nees) Bischl. (Grolle 1976: 206).
- Drepanolejeunea vandenberghenii* Buchb. & Eb. Fisch. (Pócs 2021: 203).
- Drepanolejeunea vesiculosa* (Mitt.) Steph. (Pócs 1997b: 203, accompanied with *D. helenae*).
- Frullanoides chinantlana* (Gottsche) L. Söderstr. & A. Hagborg (Ah-Peng *et al.* 2008: 189, as *F. tristis* (Prantl) van Slageren).
- Haplolejeunea sticta* Grolle<sup>M</sup> (Pócs 1995: 260).
- Lejeunea abyssinica* (Gola) Cufod. (Ah-Peng 2007: 223, as *L. confusa* E. W. Jones).
- Lejeunea adpressa* Nees (Stephani 1888: 108, as *Eulejeunea rodriguezii* Steph.<sup>R</sup>).
- Lejeunea aethiopica* E. W. Jones (Ah-Peng *et al.* 2010a: 293).
- Lejeunea alata* Gottsche<sup>M</sup> (Stephani 1890: 289, as *Ceratolejeunea renauldii* (J. M. Coult., Barnes & Arthur) Steph.<sup>R</sup>).
- Lejeunea capensis* Gottsche (Arnell 1965: 76, as *L. caespitosa* Lindenb.).
- Lejeunea conformis* Nees & Mont.<sup>M</sup> (Gottsche *et al.* 1844: 355, as *L. trichomanoides* Mont. & Nees<sup>R</sup>).
- Lejeunea ecarinata* (Steph.) J. M. Coult., Barnes & Arthur<sup>M</sup> (Renauld & Cardot 1894a: 119).
- Lejeunea eckloniana* Lindenb. (Arnell 1965: 83, as *Taxilejeunea borbonica* S. W. Arnell<sup>R</sup>).
- Lejeunea exilis* (Reinw., Blume & Nees) Grolle (Ah-Peng *et al.* 2010a: 293).
- Lejeunea flava* (Sw.) Nees subsp. *flava* (Ah-Peng *et al.* 2005: 44).
- Lejeunea flava* subsp. *tabularis* (Spreng.) S. W. Arnell (Ah-Peng *et al.* 2005: 44, as *L. tabularis* (Spreng.) Gottsche, Lindenb. & Nees).
- Lejeunea flavovirens* Ångstr.<sup>M</sup> (Arnell 1965: 76).
- Lejeunea furcicornuta* (Grolle) G. E. Lee & Pócs<sup>M</sup> (Grolle 1974: 95).
- Lejeunea grossecristata* (Steph.) E. W. Jones (Ah-Peng 2010b: 268).

- Lejeunea isophylla* E. W. Jones (Ah-Peng *et al.* 2008: 189).
- Lejeunea leucosis* Besch. & Spruce <sup>M</sup> (Pócs 2010: 112).
- Lejeunea lomana* E. W. Jones (Heinrichs *et al.* 2013: Table 1).
- Lejeunea obrusata* Gottsche <sup>M</sup> (Ah-Peng *et al.* 2007: 658).
- Lejeunea papilionacea* Prantl (Zhu & Grolle 2001: 335).
- Lejeunea pulchriflora* (Pearson) G. E. Lee, Bechteler, Pócs, Schäfer-Verw. & Heinrichs (Ah-Peng *et al.* 2007: 658, as *Taxilejeunea pulchriflora* Pearson).
- Lejeunea ramosissima* Steph. (Jones 1990: 43).
- Lejeunea tuberculosa* Steph. (Jones 1972: 35, as *L. camerunensis* (Steph.) E. W. Jones).
- Lejeunea villaumei* (Steph.) Grolle <sup>M</sup> (Grolle 1977: 536).
- Lepidolejeunea delessertii* (Nees & Mont.) Grolle <sup>M</sup> (Piippo 1986: 41).
- Leptolejeunea maculata* (Mitt.) Schiffln. (Ah-Peng & Bardat 2009: 278).
- <sup>N</sup>*Leptolejeunea vitrea* (Nees) Schiffln. — Voucher: (*Onraedt 79.R.8211*; sentier de la Ravine du Tremblet; 200 m alt.; 17.VII.1979; BR[BR5040232695891]; det. S. R. Gradstein II.2024).
- Lopholejeunea borbonica* Steph. <sup>R</sup> (Stephani 1896: 109).
- Lopholejeunea eulopha* (Taylor) Schiffln. (Vanden Berghen 1978: 127).
- Lopholejeunea grandicrista* Steph. <sup>M</sup> (Vanden Berghen 1984b: 460).
- Lopholejeunea minima* Vanden Berghen <sup>E R</sup> (Vanden Berghen 1984b: 439).
- Lopholejeunea nigricans* (Lindenb.) Steph. ex Schiffln. (Stephani 1890: 286, as *L. multilacera* Steph. <sup>R</sup>).
- Lopholejeunea obtusilacera* Herzog (Ah-Peng 2007: 224).
- Lopholejeunea paramultilacera* Vanden Berghen <sup>E R</sup> (Vanden Berghen 1984b: 436).
- Lopholejeunea subfusca* (Nees) Schiffln. (Arnell 1965: 78).
- Marchesinia nobilis* (Gottsche) X. Q. Shi, R. L. Zhu & Gradst. <sup>M</sup> (Vanden Berghen 1984a: 10, as *M. obtusifolia* Vanden Berghen <sup>R</sup>).
- <sup>N</sup>*Metalejeunea cucullata* (Reinw., Blume & Nees) Grolle — Voucher: (*Pócs 08070F*; Ravine Divon on the W-slope of Mt. Maido; 1740–1750 m alt.; 17.IX.2008; EGR, det. T. Pócs).
- Microlejeunea africana* Steph. (Ah-Peng *et al.* 2005: 44).
- <sup>N</sup>*Microlejeunea ankasica* E. W. Jones — Voucher: (*Ah-Peng et al. 1150P2Q3TA1*; Piton des Neiges; 1170 m alt.; 27.III.2008; REU, det. J. Bardat & C. Ah-Peng).
- Microlejeunea dispar* Jovet-Ast <sup>R</sup> (Jovet-Ast 1959: 191).
- Microlejeunea inflata* Steph. <sup>M</sup> (Ah-Peng *et al.* 2010b: 268).
- Microlejeunea kamerunensis* Steph. (Ah-Peng *et al.* 2008: 189).
- Microlejeunea oblongistipula* (Gottsche) Pearson <sup>M</sup> (Pócs 1997b: 128).
- Microlejeunea strasbergii* Bardat & Ah-Peng <sup>R</sup> (Ah-Peng & Bardat 2011: 668).
- Myriocoleopsis minutissima* (Sm.) R. L. Zhu, Y. Yu & Pócs (Grolle 1995: 49).
- Myriocoleopsis minutissima* subsp. *myriocarpa* (Nees & Mont.) R. L. Zhu, Y. Yu & Pócs (Yu *et al.* 2014: 295).
- Odontolejeunea lunulata* (F. Weber) Schiffln. — Voucher: (*Ah-Peng et al. 550P1Q2HU1*; Grand Etang; 562 m alt.; 22.III.2008; REU, det. C. Ah-Peng).
- Prionolejeunea grata* (Gottsche) Schiffln. <sup>M</sup> (Mitten 1886: 325, as *P. deplanata* Schiffln. <sup>R</sup>).
- Schiffneriolejeunea ferruginea* (Steph.) Gradst. (Ah-Peng 2007: 226).
- Schiffneriolejeunea fragilis* Gradst. & E. W. Jones (Ah-Peng 2007: 226).
- Schiffneriolejeunea pappeana* (Nees) Gradst. (Gradstein & Vanden Berghen 1985: 184).
- Schiffneriolejeunea pappeana* var. *bidentata* Gradst. & Vanden Berghen <sup>R</sup> (Gradstein & Vanden Berghen 1985: 182).
- Schiffneriolejeunea parviloba* (Steph.) Gradst. <sup>M</sup> (Jones 1954: 398).
- Spruceanthus abbreviatus* (Mitt.) X. Q. Shi, R. L. Zhu & Gradst. (Ah-Peng *et al.* 2010b: 264, as *Archilejeunea mauritiana* Steph.).
- Stictolejeunea balfourii* (Mitt.) E. W. Jones <sup>M</sup> (Jones 1976: 50).
- Thysananthus auriculatus* (Wilson & Hook.) Sukkharak & Gradst. var. *auriculatus* (Sukkharak & Gradstein 2014: 18, as *Mastigolejeunea auriculata* (Wilson & Hook.) Steph. var. *auriculata*).
- Thysananthus auriculatus* var. *rhodesicus* (Vanden Berghen) Sukkharak & Gradst. (Grolle & Onraedt 1974: 232, as *Mastigolejeunea rhodesica* (Vanden Berghen) E. W. Jones).
- Thysananthus spathulistipus* (Reinw., Blume & Nees) Lindenb. (Vanden Berghen 1978: 132).
- Xylolejeunea grolleana* (Pócs) X. L. He & Grolle <sup>M</sup> (Ah-Peng *et al.* 2010a: 293).

#### Family LEPIDOZIACEAE Limpr.

- Amazoopsis diplopoda* (Pócs) J. J. Engel & G. L. Merr. <sup>M</sup> (Pócs 1995: 253, as *Arachniopsis diplopoda* Pócs).
- Amazoopsis gracilis* J. J. Engel & G. L. Merr. <sup>R</sup> (Engel & Merrill 2004: 246).
- Bazzania decrescens* (Lehm. & Lindenb.) Trevis. <sup>M</sup> (Stephani 1893: 207, as *B. fusca* Steph. <sup>R</sup>).
- <sup>N</sup>*Bazzania decrescens* subsp. *curvidens* (Steph.) Gyarmati <sup>M</sup> — Voucher: (*Ah-Peng et al. 1350P2Q3Hu2*; Bélouve; 1350 m alt.; 27.III.2008; REU, det. C. Ah-Peng).
- Bazzania decrescens* (Lehm. & Lindenb.) Trevis. subsp. *decrescens* <sup>M</sup> (Stephani 1893: 207).
- Bazzania decrescens* subsp. *molleri* (Steph.) E. W. Jones (Ah-Peng 2007: 220).
- Bazzania mascarena* (Steph.) Herzog <sup>R</sup> (Stephani 1886: 205, as *Mastigobryum mascarenum* Steph.).
- Bazzania nitida* (F. Weber) Grolle (Bescherelle 1895: 9, as “*Mastigobryum convexum*” Lindenb.).
- Bazzania perrotiana* E. W. Jones <sup>M</sup> — Voucher: (*Bosser 11186*; Plaine des Chicots; 1800 m alt.; VI.1957; PC[PC0117432]; det. C. Ah-Peng).

*Bazzania praerupta* (Reinw., Blume & Nees) Trevis. (Stephani 1885: 217, as *Mastigobryum borbonicum* Steph. <sup>R</sup>).

<sup>N</sup>*Kurzia capillaris* (Sw.) Grolle subsp. *capillaris* — Voucher: (Pócs 9644/AC; Bélouve: Plateau Cochons; 1440 m alt.; 16.VII.1996; EGR, det. T. Pócs).

*Kurzia capillaris* subsp. *stephanii* (Renauld ex Steph.) Pócs <sup>M</sup> (Renauld & Cardot 1891: 58, as *Lepidozia stephanii* Renauld ex Steph. <sup>M</sup>).

*Lepidozia cupressina* subsp. *africana* (Steph.) Pócs <sup>M</sup> (Pócs 1984: 108).

*Lepidozia stuhlmannii* Steph. (Ah-Peng *et al.* 2008: 189).

<sup>N</sup>*Lepidozia stuhlmannii* subsp. *pulvinata* (Steph.) Pócs — Voucher: (Ah-Peng *et al.* 1750P2Q3TA2; GR trail Bélouve-Piton des Neiges; 1750 m alt.; 28.III.2008; REU, det. J. Bardat).

*Telaranea coactilis* (Spruce) J. J. Engel & G. L. Merr. (Ah-Peng 2010b: 268).

*Telaranea diacantha* (Mont.) J. J. Engel & G. L. Merr. (Váňa *et al.* 1979: 3, as *Arachniopsis diacantha* (Mont.) M. Howe).

*Telaranea nematodes* (Gottsche ex Austin) M. Howe (Pócs 1995: 261).

#### Family LOPHOCOLEACEAE Müll. Frib. ex Vanden Berghen

*Chiloscyphus leperuanchei* (Steph.) J. J. Engel & R. M. Schust. <sup>E R</sup> (Stephani 1907: 174, as *Lophocolea leperuanchei* Steph.).

*Clasmatocolea vermicularis* (Lehm.) Grolle (Arnell 1965: 72).

*Cryptolophocolea lucida* (Spreng. ex Lehm.) Gradst. (Stephani 1890: 288, as *Lophocolea rubescens* Steph. <sup>R</sup>).

*Cryptolophocolea martiana* (Nees) L. Söderstr., Crand.-Stotl. & Stotler (Arnell 1965: 77, as *Lophocolea congoana* Steph.).

*Cryptolophocolea regularis* (Steph.) L. Söderstr. <sup>R</sup> (Stephani 1893: 325, as *Chiloscyphus regularis* Steph.).

*Heteroscyphus dubius* (Gottsche) Schiffn. <sup>M</sup> (Bescherelle 1895: 11, as *Chiloscyphus dubius* Gottsche).

*Heteroscyphus grandistipus* (Steph.) Schiffn. <sup>E R</sup> (Stephani 1890: 283, as *Chiloscyphus grandistipus* Steph.).

*Heteroscyphus splendens* (Lehm. & Lindenb.) Grolle (Váňa *et al.* 1979: 6, as *Chiloscyphus decurrens* Nees).

*Leptoscyphus infuscatus* (Mitt.) E. W. Jones ex Grolle <sup>R</sup> (Mitten 1886: 321, as *Leioscyphus infuscatus* Mitt.).

*Lophocolea bidentata* (L.) Dumort. (Bescherelle 1895: 11, as *L. setacea* Steph.). *Lophocolea coadunata* (Sw.) Mont. is treated as a synonym of *L. bidentata* following Gradstein & Uribe (2016).

*Lophocolea concreta* Mont. <sup>R</sup> (Montagne 1845b: 350).

*Lophocolea difformis* Nees (Stephani 1890: 287, as *L. borbonica* Steph. <sup>R</sup>).

*Lophocolea fragrans* (Moris & De Not.) Gottsche, Lindenb. & Nees (Stephani 1907: 182, as *L. frappieri* Steph. <sup>R</sup>).

\**Lophocolea minor* Nees G. (Arnell 1965: 77). The specimen cited by Arnell (1965), *Een R286* in herb. S, requires conf. according to Grolle (1995: 93).

*Lophocolea muricata* (Lehm.) Nees (Stephani 1906: 117).

#### Family LOPHOZIACEAE Cavers

*Andrewsianthus aberrans* (Nees & Mont.) Grolle <sup>R</sup> (Montagne 1843: 250).

<sup>N</sup>*Andrewsianthus bilobus* (Mitt.) Grolle — Voucher: (Pócs 9617/CT; Bélouve: trail from Forest Station to Pic des Chèvres; 1550-1610 m alt.; 3.VII.1996; EGR, det. T. Pócs).

#### Family LUNULARIACEAE H. Klinggr.

*Lunularia cruciata* (L.) Dumort. ex Lindb. (Ah-Peng *et al.* 2008: 186).

#### Family MARCHANTIACEAE Chevall.

*Marchantia globosa* Brid. ex F. Weber <sup>R</sup> (Weber 1815: 102).

*Marchantia paleacea* Bertol. (Bischler 1990: 170).

*Marchantia polymorpha* L. (Váňa *et al.* 1979: 17).

#### Family MASTIGOPHORACEAE R. M. Schust.

*Mastigophora diclados* (Brid. ex F. Weber) Nees <sup>M</sup> (Montagne 1843: 249, as *Jungermannia subaequifolia* Nees & Mont. <sup>R</sup>).

#### Family METZGERIACEAE H. Klinggr.

<sup>N</sup>*Metzgeria ciliata* Raddi — Voucher: (*Gimalac 75.R.7464*; Cirque du Mafate; 1710 m alt.; 3.XIII.1975; BR [BR5040232886862]; det. S. R. Gradstein II.2024).

*Metzgeria consanguinea* Schiffn. (So 2004: 274).

*Metzgeria furcata* (L.) Corda (Arnell 1965: 78, as “M. Perrotana” St. <sup>M</sup>).

*Metzgeria leptoneura* Spruce (Arnell 1965: 78, as “Metzgeria hamata” Lindb.).

*Metzgeria nudifrons* Steph. (So 2004: 289).

*Metzgeria warnstorffii* Steph. (So 2004: 279, as *M. madagassa* Steph. <sup>M</sup>).

#### Family NOTOSCYPHACEAE Crand.-Stotl., Váňa & Stotler

*Notoscyphus lutescens* (Lehm. & Lindenb.) Mitt. (Stephani 1890: 289, as *Odontoschisma ligulatum* Steph. <sup>R</sup>).

#### Family PALLAVICINIACEAE Mig.

*Jensenia spinosa* (Lindenb. & Gottsche) Grolle <sup>M</sup> (Grolle 1979b: 268).

*Pallavicinia byellii* (Hook.) Carruth. (Lehmann 1832: 36, as *Jungermannia byssophora* Lehm. & Lindenb. <sup>R</sup>).

*Symphogyna brasiliensis* Nees (Váňa *et al.* 1979: 21, as *S. lehmanniana* Mont. & Nees).

*Symphogyna podophylla* (Thunb.) Nees & Mont. Ex Bisch. (Schwägrichen 1814: 31, as *Jungermannia rhizobola* Schwägr. R).

*Symphogynopsis gottscheana* (Mont. & Nees) Grolle M (Grolle 1987: 442).

#### Family PLAGIOCHILACEAE Müll. Frib.

*Plagiochila angusta* Lindenb. R (Lindenberg 1843: 148).

*Plagiochila barteri* Mitt. (Vanden Berghen 1981: 73).

*Plagiochila barteri* var. *valida* (Steph.) Vanden Berghen R (Stephani 1904: 438, as *P. valida* Steph.).

*Plagiochila boivinii* Steph. R (Stephani 1902: 277).

*Plagiochila boryana* Gottsche ex Steph. R (Stephani 1892a: 118).

*Plagiochila corrugata* (Nees) Nees & Mont. (Arnell 1965: 80, as “*P. madagascariensis* St.” M).

*Plagiochila drepanophylla* Sande Lac. R (Van der Sande Lacoste 1857: 103).

*Plagiochila exigua* (Taylor) Taylor (Grolle 1995: 114).

*Plagiochila flabellata* Steph. (Arnell 1965: 80).

*Plagiochila incerta* Gottsche M (Bescherelle 1895: 12).

*Plagiochila integerrima* Steph. (Arnell 1965: 80).

*Plagiochila pectinata* Lindenb. M (Stephani 1890: 290, as *P. tenax* Steph. R).

*Plagiochila punctata* (Taylor) Taylor (Pócs & Váňa 2015: 8).

*Plagiochila punctata* var. *paucidentata* (Mont. & Gottsche) Gradst. R (Montagne 1856: 197, as *P. paucidentata* Mont. & Gottsche).

*Plagiochila renauldii* Steph. M (Vanden Berghen 1981: 54).

*Plagiochila repanda* (Schwägr.) Lindenb. M (Renauld & Cardot 1891: 59).

*Plagiochila rodriguezii* Steph. R (Stephani 1890: 290).

*Plagiochila squamulosa* Mitt. (Vanden Berghen 1981: 74).

*Plagiochila terebrans* Nees & Mont. ex Lindenb. R (Lindenberg 1840: 98).

#### Family PLEUROZIACEAE Müll. Frib.

*Pleurozia gigantea* (F. Weber) Lindb. R (Weber 1815: 57, as *Jungermannia gigantea* F. Weber).

#### Family PORELLACEAE Cavers

*Porella proluxa* (Gottsche ex Steph.) E. W. Jones E R (Stephani 1910: 260, as *Madotheca proluxa* Gottsche ex Steph.).

*Porella triquetra* (Steph.) E. W. Jones (Stephani 1910: 258, as *Madotheca triquetra* Steph.).

#### Family RADULACEAE Müll. Frib.

*Cladoradula boryana* (F. Weber) M. A.M. Renner, Gradst., Ilk.-Borg. & F. R. Oliveira-da-Silva R (Weber 1815: 58, as *Jungermannia boryana* F. Weber).

*Radula appressa* Mitt. M (Stephani 1884: 134, as *R. mascarena* Steph. R).

*Radula evelynae* K. Yamada (Jones 1977: 477).

*Radula flaccida* Lindenb. & Gottsche (Ah-Peng 2007: 226).

*Radula fulvifolia* (Hook. f. & Taylor) Gottsche, Lindenb. & Nees (Grolle 2001: 65).

*Radula madagascariensis* Gottsche M (Stephani 1888: 64, as *R. caespitosa* Steph. R).

*Radula mexicana* Lindenb. & Gottsche (Castle 1964: 208, as *R. holstiana* Steph.).

*Radula quadrata* Gottsche (Renauld & Cardot 1891: 59, as *R. recurvifolia* Steph.).

*Radula retroflexa* Taylor (Arts & Yamada 1998: 179).

\**Radula tabularis* Steph. (Wigginton & Grolle 1996). The presence of this taxon in Réunion is uncertain. Collections determined as *R. tabularis* from higher elevations should be compared with type material. According to Jones (1977), robust forms of *R. madagascariensis* may resemble *R. tabularis* and Castle (1968) considered the local *R. caespitosa* (synonym of *R. madagascariensis*) to be synonymous with *R. tabularis*.

*Radula stenocalyx* Mont. (Jones 1977: 502).

*Radula voluta* Taylor ex Gottsche, Lindenb. & Nees (Stephani 1892a: 121, as *R. macroloba* Steph. R).

#### Family RICCIACEAE Rchb.

*Riccia atropurpurea* Sim (Ellis *et al.* 2023: 80).

*Riccia cavernosa* Hoffm. (Müller 2002: 48).

*Riccia helenae* Jovet-Ast E R (Jovet-Ast 1993: 96).

*Riccia hortorum* Bory ex Lindenb. R (Lindenberg 1837: 435).

*Riccia huebeneriana* Lindenb. (Müller 2000: 92).

<sup>N</sup>*Riccia microciliata* O. H. Volk & Perold. — Voucher: (Fontaine REU1144; Pierrefonds; 10 m alt.; 29.IV.2010; REU, det. C. Reeb).

#### Family SCHISTOCHILACEAE H. Buch

*Schistochila neesii* (Mont.) Lindb. R (Montagne 1843: 244, as *Gottschea neesii* Mont.).

*Schistochila sphagnoides* (Schwägr.) Lindb. ex Steph. R (Schwägrichen 1814: 23, as *Jungermannia sphagnoides* Schwägr.).

#### Family SOLENOSTOMATACEAE Stotler & Crand.-Stotl.

*Solenostoma atrovirens* Steph. R (Stephani 1901: 55).

*Solenostoma balfourii* (Váňa) Váňa, Hentschel & Heinrichs<sup>M</sup> (Ah-Peng *et al.* 2008: 187).

<sup>N</sup>*Solenostoma mildbraedii* (Steph.) R. M. Schust. — Voucher: (Ah-Peng *et al.* 2350P1Q3TE1; Piton des Neiges; 2350 m alt.; 26.III.2008; REU, det. C. Ah-Peng & conf. J. Bardat).

*Solenostoma onraedtii* (Váňa) Váňa, Hentschel & Heinrichs<sup>R</sup> (Váňa 1974: 282, as *Jungermannia onraedtii* Váňa).

*Solenostoma renauldii* (Steph.) Váňa, Hentschel & Heinrichs<sup>R</sup> (Stephani 1892: 201, as *Jungermannia renauldii* Steph.).

*Solenostoma sphaerocarpum* (Hook.) Steph. (Váňa 1974: 296, as *Jungermannia sphaerocarpa* Hook.).

*Solenostoma stoloniferum* (Steph.) S. W. Arnell (Váňa 1974: 291, as *Jungermannia borgerii* Gottsche ex Pearson).

#### Family SOUTHBYACEAE

Váňa, Crand.-Stotl., Stotler & D. G. Long

*Gongylanthus ericetorum* (Raddi) Nees (Váňa *et al.* 1979: 9).

<sup>N</sup>*Gongylanthus richardsii* E. W. Jones. — Voucher: (Pócs 8096/K; Maïdo; 2170 m alt.; 17.IX.2008; REU[REU005823]; det. C. Ah-Peng).

<sup>N</sup>*Gongylanthus scariosus* (Lehm.) Steph. — Voucher: (Een *s.n.*; Forêt au-dessus de Saint-Denis; 11.X.1962; BR[BR5040263694481]; det. S. R. Gradstein II.2024).

#### Family TARGIONIACEAE Chevall.

*Targionia hypophylla* L. (Váňa *et al.* 1979: 22). *Targionia lorbeeriana* Müll. Frib. is treated as a synonym of *T. hypophylla* following Bischler *et al.* (2005).

#### Family WIESNERELLACEAE Inoue

*Wiesnerella denudata* (Mitt.) Steph. (Grolle 1981: 332).

#### Division BRYOPHYTA Schimp.

#### Family AMPHIDIACEAE M. Stech

*Amphidium tortuosum* (Hornsch.) Cufod. (Müller & Schäfer-Verwimp 1999: 197).

#### Family ANDREAEACEAE Dumort.

*Andreaea borbonica* Besch. <sup>R</sup> (Bescherelle 1880a: 328).

<sup>N</sup>*Andreaea mildbraedii* Broth. — Voucher: (Hedderson 17872; Piton des Neiges; 2900 m alt.; 3.X.2011; BOL, PC, det. T. A.J. Hedderson).

<sup>N</sup>*Andreaea subulata* Harv. — Voucher: (Bardat REU1140; Le Teve-lave; 1735 m alt.; 28.IV.2010; REU, det. J. Bardat).

*Andreaea tsaratananae* Thér. <sup>M</sup> (De Sloover 1977: 159). Possibly a synonym of *Andreaea flexuosa* (B. Murray, pers. comm.).

#### Family ANOMODONTACEAE Kindb.

*Anomodon pseudotristsis* (Müll. Hal.) Kindb. (Müller 2000: 93).

*Anomodon tristis* (Ces.) Sull. (Arts 2005: 119).

#### Family AONGSTROEMIACEAE De Not.

*Aongstroemia campylophylla* (Taylor) Müll. Hal. (Arts 2005: 135, as *Dicranella cardotii* (R. Br. bis) Dixon).

#### Family ARCHIDIACEAE Schimp.

*Archidium capense* Hornsch. (Arts 2005: 120).

*Archidium ohioense* Schimp. ex Müll. Hal. (Arts 2005: 121).

#### Family BARTRAMIACEAE Schwägr.

*Bartramia brevifolia* subsp. *commutata* (Mitt.) Fransén (Ellis *et al.* 2014: 61).

*Bartramia gigantea* Bory <sup>R</sup> (Fransén 2004: 87).

*Bartramia laevisphaera* (Taylor) Müll. Hal. (Frahm 2010: 3, as *Anacolia laevisphaera* Taylor).

*Bartramia longifolia* Hook. (Renauld & Cardot 1890: 177, as *B. boulayi* Renauld & Cardot <sup>R</sup>).

*Breutelia borbonica* De Sloover <sup>R</sup> (De Sloover 1975a: 257).

*Breutelia diffracta* Mitt. (Ellis *et al.* 2017: 2).

*Breutelia gigantea* (Brid.) Bosch & Sande Lac. <sup>R</sup> (De Sloover 1975a: 245 as *Breutelia stuhlmannii* Broth.).

*Breutelia gnaphalea* (P. Beauv.) Mitt. <sup>R</sup> (Palisot de Beauvois 1805: 64, as *Hypnum gnaphaleum* P. Beauv.).

*Breutelia magdalenae* De Sloover <sup>R</sup> (De Sloover 1975a: 266).

*Breutelia microdonta* (Mitt.) Broth. (Een 1976: 214, as *B. stenodictyon* (Renauld & Cardot) Broth. <sup>R</sup>).

*Breutelia perrieri* Thér. <sup>M</sup> (De Sloover 1975a: 253).

<sup>N</sup>*Breutelia sciuroides* Thér. <sup>M</sup>. — Voucher: (Ah-Peng & Wilding 1035; Salazie, Piton Marmite; 1803-1868 m alt.; 18.V.2024; REU[REU030371]; det. T. A.J. Hedderson).

*Leiomela bartramioides* (Hook.) Paris (De Sloover 1975b: 317, as *L. africana* Thér. & Naveau).

*Philonotis gracilescens* Schimp. ex C. H. Wright <sup>M</sup> (Een 1976: 216).

*Philonotis hastata* (Duby) Wijk & Margad. (Bescherelle 1880a: 245, as *P. comorensis* (Müll. Hal.) A. Jaeger).

*Philonotis marchica* (Hedw.) Brid. (Ah-Peng *et al.* 2010a: 290).

*Philonotis mauritiana* Ångstr. <sup>M</sup> (Bescherelle 1880a: 244).

*Philonotis scabrifolia* (Hook. f. & Wilson) Braithw. (Een 1976: 216, as *P. perigonalis* Besch. <sup>R</sup>).

*Philonotis submarchica* Besch. <sup>E R</sup> (Bescherelle 1880a: 247).

*Philonotis submarchica* var. *plumosa* Renaud & Cardot <sup>E R</sup> (Renaud & Cardot 1894a: 107).

#### Family BRACHYTHECIACEAE Schimp.

- Brachythecium borgenii* (Hampe) A. Jaeger <sup>M</sup> (Een 1997: 22).  
*Brachythecium chauvetii* Renaud & Cardot <sup>E R</sup> (Renaud & Cardot 1895: 130).  
*Brachythecium decurrens* Cardot <sup>M</sup> (Een 1997: 23).  
*Brachythecium inconditum* Besch. <sup>R</sup> (Bescherelle 1880a: 296).  
*Brachythecium valentinii* Besch. <sup>E R</sup> (Bescherelle 1880a: 295).  
*Eurhynchium acicladium* Besch. <sup>E R</sup> (Bescherelle 1880a: 296).  
*Eurhynchium spinulinerve* Kiaer ex Cardot <sup>M</sup> (Arts 2005: 141).  
*Oxyrrhynchium hians* (Hedw.) Loeske (Arts 2005: 139, as *Eurhynchium hians* (Hedw.) Sande Lac.).  
*Palamocladium leskeoides* (Hook.) E. Britton (Een 1997: 29).  
*Pseudoscleropodium purum* (Hedw.) M. Fleisch. (Een 1997: 30).  
*Rhynchostegiella tenelliformis* (Renaud & Cardot) Broth. <sup>E R</sup> (Renaud & Cardot 1895: 130, as *Rhynchostegium tenelliforme* Renaud & Cardot).  
*Rhynchostegium comorae* (Müll. Hal.) A. Jaeger <sup>M</sup> (Een 1997: 31).  
*Rhynchostegium distans* Besch. <sup>R</sup> (Bescherelle 1880a: 297).  
*Rhynchostegium pseudodistans* Cardot <sup>R</sup> (Renaud & Cardot 1915: 528).  
*Sciuro-hypnum plumosum* (Hedw.) Ignatov & Huttunen (Een 1997: 23, as *Brachythecium plumosum* (Hedw.) Schimp.).  
*Squamidium brasiliense* (Hornsch.) Broth. (Renaud & Cardot 1905: 76, as *Pilotrichella bififormis* var. *congesta* Renaud & Cardot <sup>R</sup>).

#### Family BRUCHIACEAE Schimp.

- Trematodon borbonicus* Besch. <sup>E R</sup> (Bescherelle 1880b: 307).  
*Trematodon longicollis* Michx. (Ah-Peng *et al.* 2010b: 264).  
*Trematodon paradoxus* Hornsch. (Bescherelle 1880b: 307).  
*Trematodon subambiguus* Besch. <sup>R</sup> (Bescherelle 1880b: 308).

#### Family BRYACEAE Rchb.

- Anomobryum apiculatum* (Schwägr.) D. Bell & Holyoak (Bescherelle 1880a: 234, as *Bryum alteoperculatum* Besch. <sup>R</sup>).  
*Anomobryum julaceum* (Schrad. ex G. Gaertn., B. Mey. & Scherb.) Schimp. var. *julaceum* (Ah-Peng *et al.* 2010a: 289).  
*Anomobryum laceratum* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 240).  
*Brachymenium dicranoides* (Hornsch.) A. Jaeger (Frahm 2010: 4).  
*Brachymenium eurychelium* Besch. <sup>R</sup> (Bescherelle 1880b: 378).

*Brachymenium leptophyllum* (Bruch & Schimp. ex Müll. Hal.) Bruch & Schimp. ex A. Jaeger (Müller 2000: 93, as *B. longicolle* Thér.).

*Brachymenium spathidophyllum* Besch. <sup>E R</sup> (Bescherelle 1880b: 378).

*Bryum argenteum* Hedw. var. *argenteum* (Bescherelle 1880a: 240, as *B. auricomum* Besch. <sup>R</sup>).

*Bryum cadetii* Bizot & Onr. <sup>E R</sup> (Bizot 1974: 123).

*Bryum lanatum* (P. Beauv.) Brid. (Frahm 2010: 5).

<sup>N</sup>*Bryum leptospeiron* Müll. Hal. ex Besch. <sup>M</sup>. — Voucher: (Onraedt 79.R.8037; Mare Longue; 300 m alt.; 06.XIII.1979; BR[BR5040292247832]; det. s.n., conf. T. A.J. Hedderson).

*Gemmabryum acuminatum* (Harv.) J. R. Spence & H. P. Ramsay (Frahm 2010: 4, as *Brachymenium acuminatum* Harv.).

*Gemmabryum coronatum* (Schwägr.) J. R. Spence & H. P. Ramsay (Renaud 1891: 290, as *Bryum eurystomum* Renaud & Cardot <sup>R</sup>).

*Gemmabryum dichotomum* (Hedw.) J. R. Spence & H. P. Ramsay (Ellis *et al.* 2014: 63).

*Gemmabryum exile* (Dozy & Molke.) J. R. Spence & H. P. Ramsay (Shaw *et al.* 1998: 601, as *Brachymenium gemmiferum* A. J. Shaw & W. R. Buck <sup>R</sup>).

*Gemmabryum sauteri* (Bruch & Schimp.) J. R. Spence & H. P. Ramsay (Ah-Peng *et al.* 2010a: 289, as *Bryum sauteri* Bruch & Schimp.).

<sup>N</sup>*Imbriobryum subapiculatum* (Hampe) D. Bell & Holyoak. — Voucher: (Hedderson *et al.* 16229; Saint Philippe: along coast; 20 m alt.; 20.IX.2006; BOL, det. T. A.J. Hedderson).

<sup>N</sup>*Leptostomopsis pulchra* (Hook.) Ochyra & Bedn.-Ochyra. — Voucher: (De Sloover 17444; Cilaos; 19.XII.1973; MO[Herb. Bryol. 251: MO-3976691!]

*Plagiobryoides cellularis* (Hook.) J. R. Spence (Ochi 1973: 43, as *Bryum cellulare* Hook.).

*Ptychostomum pseudotriquetrum* (Hedw.) J. R. Spence & H. P. Ramsay (Müller 2000: 94, as *Bryum pseudotriquetrum* (Hedw.) G. Gaertn., B. Mey. & Scherb.).

*Rhodobryum commersonii* (Schwägr.) Paris <sup>R</sup> (Schwägrichen 1816: 134, as *Mnium commersonii* Schwägr.).

*Rhodobryum giganteum* (Schwägr.) Paris (Renaud 1898: 168, as *Bryum giganteum* (Schwägr.) Arn.).

*Rosulabryum aubertii* (Schwägr.) J. R. Spence <sup>M</sup> (Bescherelle 1880a: 236, as *Bryum aubertii* (Schwägr.) Brid.).

*Rosulabryum billardieri* (Schwägr.) J. R. Spence (Ochi 1972: 103, as *Bryum* “Billardieri”).

<sup>N</sup>*Rosulabryum erythrocaulon* (Schwägr.) J. R. Spence <sup>M</sup>. — Voucher: (Cadet 483; Massif de La Montagne; 500 m alt.; 12.X.1972; PC[PC0731010]; det. J. Brinda).

*Rosulabryum truncorum* (Brid.) Ochyra ex J. R. Spence & Brinda <sup>R</sup> (Bridel 1817: 50, as *Mnium truncorum* Brid.).

#### Family CALLICOSTACEAE H. A. Crum

*Callicostella africana* Mitt. (Ah-Peng 2007: 220).

*Callicostella fissidentella* (Besch.) Kindb. <sup>R</sup> (Bescherelle 1880a: 284, as *Hookeria fissidentella* Besch.).

*Callicostella salaziae* (Besch.) Kindb. <sup>R</sup> (Bescherelle 1880a: 284, as *Hookeria salaziae* Besch.).

*Callicostella usambarica* (Broth.) Broth. (Ah-Peng 2007: 220).

\**Cyclodictyon albicans* (Hedw.) Kuntze. — Voucher: (Arts REU101/10; Gorge de la Rivière du Mar; 11.XI.1998; BR[BR5040316897951]; det. T. Arts). There are at least five additional specimens in BR that were collected by T. Arts and determined as *C. albicans*. These records should be confirmed since the species is otherwise unknown from the island and the region.

*Cyclodictyon aubertii* (P. Beauv.) Kuntze <sup>M</sup> (Demaret 1952: 161).

*Cyclodictyon borbonicum* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 283, as *Hookeria borbonica* Besch.).

*Cyclodictyon brevifolium* Broth. (De Sloover 1975c: 111).

*Cyclodictyon perrottetii* Demaret & P. de la Varde <sup>E R</sup> (Demaret & Potier de la Varde 1951: 56).

*Cyclodictyon vesiculosum* (Brid.) Kuntze <sup>R</sup> (Bridel 1812: 100, as *Hypnum vesiculosum* Brid.).

*Lepidopilidium cespitosum* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 279, as *Lepidopilum cespitosum* Besch.).

*Lepidopilidium isleanum* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 279, as *Lepidopilum isleanum* Besch.).

*Lepidopilum hirsutum* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 278, as *Actinodontium hirsutum* Besch.).

#### Family CALOMNIACEAE Kindb.

*Pyrrhobryum spiniforme* (Hedw.) Mitt. (Bescherelle 1880a: 241, as *Rhizogonium spiniforme* (Hedw.) Bruch).

*Pyrrhobryum spiniforme* var. *brevifolium* (Besch.) Manuel <sup>E R</sup> (Bescherelle 1880a: 241, as *Rhizogonium spiniforme* var. *brevifolium* Besch.).

#### Family CALYMPERACEAE Kindb.

*Calymperes afzelii* Sw. (Arts 2005: 126).

*Calymperes erosum* Müll. Hal. (Arts 2005: 126).

*Calymperes graeffeanum* Müll. Hal. (Arts 2005: 127).

*Calymperes hispidum* Renauld & Cardot <sup>M</sup> (Renauld 1892: 660, as *C. crassilimbatum* Renauld & Cardot <sup>R</sup>).

*Calymperes palisotii* Schwägr. subsp. *palisotii* (Müller 2000: 94).

*Calymperes pallidum* Mitt. <sup>M</sup> (Wilbraham & Ellis 2010: 35).

*Calymperes taitense* subsp. *pachyloma* (Hampe) L. T. Ellis <sup>M</sup> (Renauld 1891: 117, as *Syrrhopodon nossi-beanus* var. *borbonicus* Renauld & Cardot <sup>R</sup>).

*Calymperes tenerum* Müll. Hal. (Arts 2005: 128).

*Leucophanes angustifolium* Renauld & Cardot <sup>R</sup> (Renauld 1891: 395) *Leucophanes hildebrandtii* Müll. Hal. <sup>M</sup> (Onraedt 1976: 364).

*Leucophanes rodriguezii* Müll. Hal. ex Renauld & Cardot <sup>R</sup> (Renauld & Cardot 1895: 113).

*Syrrhopodon africanus* (Mitt.) Paris var. *africanus* (Arts 2005: 152).

*Syrrhopodon apertifolius* Besch. <sup>M</sup> (Renauld & Cardot 1890: 174, as *Syrrhopodon glaucophyllus* Renauld & Cardot <sup>R</sup>).

*Syrrhopodon dimorphophyllus* L. T. Ellis (Wilbraham & Ellis 2010: 41).

*Syrrhopodon flexifolius* subsp. *réunionensis* L. T. Ellis <sup>E R</sup> (Wilbraham & Ellis 2010: 46).

*Syrrhopodon gardneri* (Hook.) Schwägr. (Bescherelle 1880b: 349, as *S. aculeatoserratus* Besch. <sup>R</sup>).

*Syrrhopodon gaudichaudii* Mont. (Bescherelle 1875: 722, as *Syrrhopodon isleanus* Besch. <sup>R</sup>).

*Syrrhopodon hispidocostatus* Renauld & Cardot <sup>M</sup> (Orbán 1981: 173).

*Syrrhopodon hispidocostatus* subsp. *artsii* L. T. Ellis <sup>E R</sup> (Wilbraham & Ellis 2010: 39).

*Syrrhopodon insularum* Bizot & Onr. <sup>R</sup> (Bizot 1976: 848).

*Syrrhopodon involutus* Schwägr. (Orbán 1981: 176).

*Syrrhopodon mahensis* Besch. (Renauld & Cardot 1895: 115, as *S. rodriguezii* Renauld & Cardot <sup>R</sup>).

*Syrrhopodon mauritanus* Müll. Hal. ex Ångstr. <sup>M</sup> (Orbán 1981: 173)

*Syrrhopodon parasiticus* (Sw. ex Brid.) Besch. (Müller 2002: 49).

*Syrrhopodon pottioides* Orbán (Ah-Peng *et al.* 2005: 45).

*Syrrhopodon vardei* L. T. Ellis <sup>M</sup> (Wilbraham & Ellis 2010: 42).

#### Family CATAGONIACEAE W. R. Buck & Ireland

*Catagonium nitens* (Brid.) Cardot subsp. *nitens* <sup>R</sup> (Bridel 1812: 50, as *Leskea nitens* Brid.).

#### Family CALYPTROCHAETACEAE Qinghua Wang, Y. Jia & B. C. Ho

*Calyptraochaeta asplenioides* (Brid.) Crosby <sup>R</sup> (Bridel 1819: 151, as *Pterygophyllum asplenioides* Brid.).

#### Family CERATODONTACEAE Schimp.

*Ceratodon purpureus* subsp. *convolutus* (Reichardt) Burley (Een 1976: 214, as *C. purpureus* var. *brevidens* Besch. <sup>M</sup>).

#### Family DALTONIACEAE Schimp.

*Daltonia lindigiana* Hampe (Bescherelle 1880a: 277, as *D. stenoloma* Besch. <sup>R</sup>).

*Daltonia marginata* Griff. (Bescherelle 1880a: 278, as *D. latimarginata* Besch. <sup>R</sup>).

*Daltonia pulvinata* Mitt. (Bizot 1974: 126, as *D. onraedtii* Bizot <sup>R</sup>).

*Daltonia splachnoides* (Sm.) Hook. & Taylor (Bescherelle 1880a: 277, as *D. minor* Besch. <sup>R</sup>).

*Distichophyllum mascarenicum* Besch. <sup>R</sup> (Bescherelle 1880a: 276).

Family DICRANACEAE Schimp.

*Dicranoloma billardierii* (Brid.) Paris (Een 1989: 59).

*Dicranoloma billardierii* var. *scopareolum* (Müll. Hal.) Thér. <sup>M</sup> (Bizot 1968: 472).

*Dicranum borbonicum* Renaud & Cardot <sup>E R</sup> (Renaud 1898: 60).

*Holomitrium borbonicum* Hampe ex Besch. var. *borbonicum* <sup>R</sup> (Bescherelle 1880b: 328).

*Holomitrium borbonicum* var. *hamatum* (Müll. Hal. ex Renaud & Cardot) Thér. <sup>M</sup> (Thériot 1911: 252, as *H. subvaginatum* Besch. ex Thér. <sup>R</sup>).

*Holomitrium cylindraceum* var. *cucullatum* (Besch.) Wijk & Margad. <sup>R</sup> (Bescherelle 1880b: 328, as *Holomitrium vaginatum* fo. *cucullatum* Besch.).

*Holomitrium lepervancheae* Thér. <sup>R</sup> (Bescherelle 1880b: 328, as *H. borbonicum* fo. *longisetum* Besch.).

<sup>N</sup>*Leucoloma amblyacron* Müll. Hal. ex Besch. <sup>M</sup>. — Voucher: (Hedderson 17805; Ravine de la Grande Chaloupe; c. 490 m alt.; 26.IX.2011; BOL, ALTA!, det. C. La Farge).

*Leucoloma bifidum* (Brid.) Brid. <sup>R</sup> (Bridel 1801: 51, as *Hypnum bifidum* Brid.).

*Leucoloma boivinianum* Besch. <sup>M</sup> (Reported by Renaud (1891) without mention of a specimen. — Voucher: Strasberg et al. KIP111A1R1; Enclos Fouqué; 220 m alt.; 14.VI.2005; REU, det., C. Ah-Peng).

*Leucoloma candidulum* Müll. Hal. ex Besch. <sup>M</sup> (Reported by Renaud & Cardot (1915) without mention of specimen. Without collector and number, St. Denis, 1883, PC[PC0075698], det. Bescherelle).

*Leucoloma capillifolium* Renaud <sup>M</sup> (Ah-Peng & Bardat 2005: 100).

*Leucoloma cinclidotioides* Besch. <sup>R</sup> (Bescherelle 1880b: 310).

*Leucoloma cirrosulum* Renaud <sup>M</sup> (Ah-Peng & Bardat 2005: 100).

*Leucoloma delicatulum* Renaud <sup>M</sup> (Ah-Peng 2007: 224).

*Leucoloma fuscifolium* Besch. var. *fuscifolium* <sup>R</sup> (Bescherelle 1880b: 315).

*Leucoloma fuscifolium* var. *crispatum* Renaud <sup>R</sup> (Renaud 1898: 82).

<sup>N</sup>*Leucoloma grandidieri* Renaud & Cardot <sup>M</sup>. — Voucher: (Ah-Peng et al. 550P2Q2TC1; Grand Etang; 576 m alt.; 22.III.2008; REU, det. M. Chuah Petiot).

*Leucoloma lepervanchei* Besch. <sup>R</sup> (Bescherelle 1880b: 311).

*Leucoloma longifolium* (Brid.) Wijk & Margad. <sup>R</sup> (Bridel 1806: 234, as *Trichostomum longifolium* Brid.).

*Leucoloma mafatense* Renaud <sup>E R</sup> (Renaud 1898: 66).

*Leucoloma membranaceum* La Farge <sup>R</sup> (La Farge 2002a: 568).

\**Leucoloma onraedtii* (Bizot) La Farge <sup>E R</sup> (Bizot 1976: 852, as *Dicranoloma onraedtii* Bizot). Arts (2005) considered this taxon synonymous with *Blindia magellanica* and La Farge's (2002b)

discussion of it suggests that it may not belong in *Leucoloma*. A comparison of type material is required.

*Leucoloma persecundum* Müll. Hal. ex Besch. <sup>M</sup> (Ah-Peng & Bardat 2005: 100).

*Leucoloma rutenbergii* var. *elatum* Renaud <sup>M</sup> (Een 1989: 60).

*Leucoloma sanctae-mariae* Besch. <sup>M</sup> (Ah-Peng & Bardat 2005: 100).

*Leucoloma seychellense* Besch. (La Farge 2002a).

*Leucoloma sinuosulum* Müll. Hal. ex Besch. <sup>M</sup>. — Voucher: (Crosby & Crosby 8798; vicinity of Takamaka; 540-740 m alt.; 23.XI.1972; MO[MO-3024542]; det. C. La Farge).

*Leucoloma subcespitulans* Besch. <sup>E R</sup> (Bescherelle 1880b: 313).

<sup>N</sup>*Leucoloma subsecundifolium* Broth. — Voucher: (Hedderson 18820; Cilaos; Bonnet de Prêtre; 1360 m alt.; 4.XII.2014; BOL[BOL0285877]; ALTA!, det. C. La Farge).

Family DICRANELLACEAE M. Stech

*Bryopal isotia filum* (Bory) Brinda <sup>R</sup> (Bory de Saint Vincent 1804: 17).

*Dicranella borbonica* Besch. var. *borbonica* <sup>R</sup> (Bescherelle 1880b: 306).

*Dicranella cratericola* Besch. <sup>E R</sup> (Bescherelle 1897: 58).

*Dicranella flavipes* Besch. <sup>R</sup> (Bescherelle 1880b: 306).

*Dicranella lutaria* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880b: 304, as *Microdus lutarius* Besch.).

*Dicranella subsubulata* (Hampe ex Müll. Hal.) A. Jaeger (Müller 2000: 94).

*Garckea flexuosa* (Griff.) Margad. & Nork. (Bescherelle 1880b: 339, as *Garckea bescherellei* Müll. Hal. ex Besch. <sup>R</sup>).

*Microcampylopus khasiyanus* (Griff.) Giese & J.-P. Frahm (Ellis et al. 2011: 319).

Family DITRICHACEAE Limpr.

*Ditrichum maculatum* (Müll. Hal.) Fedosov, Brinda & Jan Kučera (Frahm 2010: 3, as *Aongstroemia julacea* (Hook.) Mitt.).

*Ditrichum punctulatum* Mitt. (Müller 2000: 94).

*Pleurodium acuminatum* Lindb. (Arts 2005: 147).

*Pleurodium nitidum* (Hedw.) Rabenh. (Müller 2000: 94, as *Pseudephemerum nitidum* (Hedw.) Loeske).

*Pleurodium strictum* (Sw. ex F. Weber & D. Mohr) Jan Kučera, Brinda & Fedosov (Müller 1848: 452, as *Leptotrichum boryanum* Müll. Hal. <sup>R</sup>).

Family ENTODONTACEAE Kindb.

*Entodon dregeanus* (Hornsch.) Müll. Hal. (Een 1997: 25).

*Entodon dregeanus* var. *borbonicus* Renaud & Cardot <sup>E R</sup> (Renaud & Cardot 1895: 129).

*Entodon geminidens* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 293, as *Cylindrothecium geminidens* Besch.).

*Entodon macropodus* (Hedw.) Müll. Hal. — Voucher: (Ellis & Wilbraham R08-204; Bélouve; 1600 m alt.; 13.IX.2008; BM[BM000968608]; det. L. Ellis & J. Wilbraham).

#### Family ERPODIACEAE Müll. Hal.

*Tricherpodium beccarii* (Müll. Hal.) Pursell (Ah-Peng *et al.* 2010a: 289).

#### Family FABRONIACEAE Schimp.

*Fabronia pilifera* Hornsch. (Arts 2005: 142).

#### Family FISSIDENTACEAE Schimp.

*Fissidens ah-pengae* Brugg.-Nann. <sup>E R</sup> (Bruggeman-Nannenga 2009: 106).

*Fissidens androgynus* Bruch (Bruggeman-Nannenga & Arts 2010: 181).

*Fissidens aristifer* Brugg.-Nann. <sup>M</sup> (Bruggeman-Nannenga 2009: 109).

*Fissidens artsii* Brugg.-Nann. <sup>R</sup> (Bruggeman-Nannenga 2005: 14).

*Fissidens asplenioides* Hedw. (Bescherelle 1880b: 331, as *F. boivini-anus* var. *longifolius* Besch. <sup>R</sup>).

*Fissidens bogosicus* Müll. Hal. (Bruggeman-Nannenga & Arts 2010: 183).

*Fissidens brevifrons* Mitt. <sup>M</sup> (Bizot 1974: 110, as *F. cadetii* Bizot <sup>R</sup>).

*Fissidens crispulus* Brid. <sup>R</sup> (Bridel 1819: 187).

*Fissidens curvatus* Hornsch. (Bruggeman-Nannenga & Arts 2010: 183).

*Fissidens cyatheicola* Brugg.-Nann. <sup>R</sup> (Bruggeman-Nannenga & Arts 2010: 189).

*Fissidens darutyi* Schimp. ex Besch. <sup>M</sup> (Bruggeman-Nannenga & Arts 2010: 191).

*Fissidens flaccidus* Mitt. (Bruggeman-Nannenga & Arts 2010: 192).

*Fissidens intramarginatus* (Hampe) A. Jaeger (Bruggeman-Nannenga & Arts 2010: 193).

*Fissidens leucocinctus* Hampe <sup>M</sup> (Bruggeman-Nannenga & Arts 2010: 184).

*Fissidens madecassus* Schimp. ex Müll. Hal. <sup>M</sup> (Bescherelle 1880b: 332, as *F. flavolimbatus* Besch. <sup>R</sup>).

*Fissidens megalotis* subsp. *helictocaulos* (Müll. Hal.) Brugg.-Nann. (Bruggeman-Nannenga & Arts 2010: 185).

*Fissidens ovatus* Brid. <sup>R</sup> (Bridel 1819: 190).

*Fissidens pallidinervis* Mitt. (Bruggeman-Nannenga & Arts 2010: 195).

*Fissidens palmifolius* (P. Beauv.) Broth. var. *palmifolius* <sup>R</sup> (Palisot de Beauvois 1805: 76, as *Mnium palmifolium* P. Beauv.).

*Fissidens pellucidus* Hornsch. (Bruggeman-Nannenga & Arts 2010: 195).

*Fissidens planifrons* Besch. <sup>M</sup> (Bruggeman-Nannenga & Arts 2010: 177).

*Fissidens plumosus* Hornsch. (Bescherelle 1880b: 331, as *F. boryanus* Besch. <sup>R</sup>).

*Fissidens pocsii* Bizot & Dury (Bruggeman-Nannenga & Arts 2010: 196).

*Fissidens porrectus* Mitt. (Bruggeman-Nannenga & Arts 2010: 197).

*Fissidens pseudoplumosus* Bizot & Onr. subsp. *pseudoplumosus* <sup>E R</sup> (Bizot 1974: 109).

*Fissidens punctulatus* Sande Lac. (Bescherelle 1880b: 331, as *F. ellipticus* Besch. <sup>R</sup>).

*Fissidens ramulosus* Mitt. (Bruggeman-Nannenga & Arts 2010: 200).

*Fissidens rufescens* Hornsch. (Bruggeman-Nannenga & Arts 2010: 186).

*Fissidens sciophyllus* Mitt. fo. *sciophyllus* (Bruggeman-Nannenga & Arts 2010: 201).

*Fissidens serratus* Müll. Hal. var. *serratus* (Bruggeman-Nannenga & Arts 2010: 202).

*Fissidens submarginatus* Bruch (Bruggeman-Nannenga & Arts 2010: 203).

*Fissidens taxifolius* Hedw. (Bruggeman-Nannenga & Arts 2010: 175).

*Fissidens tenellus* Hook. f. & Wilson (Bruggeman-Nannenga & Arts 2010: 204).

*Fissidens zollingeri* Mont. (Bruggeman-Nannenga & Arts 2010: 204).

#### Family FUNARIACEAE Schwägr.

*Entosthodon borbonicus* Besch. <sup>R</sup> (Bescherelle 1880b: 375).

*Entosthodon jamesonii* (Taylor) Mitt. (Wilding & Hedderson 2011: 326).

*Entosthodon lepervanchei* Besch. <sup>E R</sup> (Bescherelle 1880b: 375).

*Entosthodon pertenellus* (Broth.) G. Kis (Wilding *et al.* 2013: 457).

*Funaria calvescens* Schwägr. (Een 1976: 215, as *F. hygrometrica* var. *calvescens* (Schwägr.) Mont.).

*Funaria hygrometrica* Hedw. (Bridel 1827: 739, as *F. campylopus* Brid. <sup>R</sup>).

*Physcomitrium spathulatum* Müll. Hal. var. *spathulatum* (Müller 2000: 94).

#### Family GRIMMIACEAE Arn.

*Bucklandiella lepervanchei* (Besch.) Bedn.-Ochyra & Ochyra <sup>R</sup> (Bescherelle 1880b: 351, as *Racomitrium lepervanchei* Besch.).

*Bucklandiella subsecunda* (Hook. & Grev. ex Harv.) Bedn.-Ochyra & Ochyra (Ellis *et al.* 2015b: 71).

*Grimmia austrofumalis* Müll. Hal. (Ah-Peng *et al.* 2010a: 289).

- Grimmia elongata* Kaulf. (Bescherelle 1880b: 351, as *G. vulcanica* Besch. <sup>R</sup>).
- Grimmia fuscolutea* Hook. (Maier *et al.* 2017: 211).
- Grimmia laevigata* (Brid.) Brid. (Een 1978: 219).
- Grimmia longirostris* Hook. (Muñoz 1998: 359).
- Grimmia maido* Greven <sup>E R</sup> (Greven 1996: 428).
- Racomitrium lanuginosum* (Hedw.) Brid. (Bridel 1826: 218, as *R. borbonicum* Brid. <sup>R</sup>).
- \**Schistidium apocarpum* (Hedw.) Bruch & Schimp. (Een 1978: 221). Doubtful given the distribution of the species, this record requires confirmation.

#### Family HEDWIGIACEAE Schimp.

- Hedwigidium imberbe* (Sm.) Bruch & Schimp. (Een 1976: 215, as *Hedwigidium integrifolium* auct. non (P. Beauv.) Dixon ex C. E. O. Jensen. — Voucher: *Hedderson 18752*; forêt des Makes; 2100 m alt.; 26.XI.2014; BOL[BOL0240034]; det. T. A. J. Hedderson).
- Rhacocarpus purpurascens* (Brid.) Paris <sup>R</sup> (Bridel 1812: 121, as *Hypnum purpurascens* Brid.).

#### Family HOOKERIAACEAE Schimp.

- Hookeria splachnifolia* (Brid.) Arn. <sup>E R</sup> (Bridel 1812: 101, as *Hypnum splachnifolium* Brid.).

#### Family HYLOCOMIACEAE M. Fleisch.

- Loeskeobryum interruptum* (Brid.) Brinda & N. Wilding <sup>E R</sup> (Bridel 1801: 156, as *Hypnum interruptum* Brid.).

#### Family HYPNACEAE Schimp.

- Ectropothecium chenagonii* Renaud & Cardot <sup>M</sup> (Ellis *et al.* 2017: 5).
- Ectropothecium occultum* Renaud & Cardot <sup>R</sup> (Renaud & Cardot 1905: 110).
- Ectropothecium regulare* (Brid.) A. Jaeger var. *regulare* <sup>R</sup> (Bridel 1812: 216, as *Hypnum cupressiforme* var. *regulare* Brid.).
- Ectropothecium regulare* var. *laxitextum* Thér. <sup>E R</sup> (Thériot 1923: 461).
- Ectropothecium valentinii* Besch. <sup>R</sup> (Bescherelle 1880a: 317).
- Ectropothecium viridulum* (Brid.) A. Jaeger <sup>E R</sup> (Bridel 1827: 622, as *Hypnum leptorhynchum* var. *viridulum* Brid.).
- Hypnum bicolor* Bél. <sup>E R</sup> (Bélangier 1834: 92).
- Hypnum boryanum* Schwägr. <sup>E R</sup> (Schwägrichen 1816: 207).
- Hypnum cupressiforme* Hedw. var. *cupressiforme* (Een 1997: 26, as *H. cupressiforme* var. *aduncooides* Brid. <sup>R</sup>).
- Hypnum cupressiforme* var. *lacunosum* Brid. (Arts 2005: 145, as *H. lacunosum* (Brid.) Hoffm. ex Brid. var. *lacunosum*).
- Hypnum radiatum* Schwägr. <sup>E R</sup> (Schwägrichen 1816: 202).

- Mittenothamnium bescherellei* (Renaud & Cardot) Cardot <sup>R</sup> (Renaud & Cardot 1895: 132, as *Microthamnium bescherellei* Renaud & Cardot).

- Mittenothamnium limosum* (Besch.) Cardot <sup>R</sup> (Bescherelle 1880a: 313, as *Microthamnium limosum* Besch.).

- Mittenothamnium madagassum* (Besch.) Cardot <sup>M</sup> (Een 1997: 28).

- Mittenothamnium microthamnioides* (Müll. Hal.) Wijk & Margad. <sup>M</sup> (Een 1997: 28).

- Mittenothamnium reptans* (Hedw.) Cardot (Een 1997: 28).

- Vesicularia galerulata* (Duby) Broth. <sup>M</sup>. — Voucher: (*Hedderson 16216*; Réserve de Mare Longue; 480 m alt.; 20.IX.2006; BOL, S, det. L. Hedenäs [S specimen]).

- Vesicularia hygrobia* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 320, as *Ectropothecium hygrobium* Besch.).

- Vesicularia lepervanchei* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 320, as *Ectropothecium lepervanchei* Besch.).

- Vesicularia rodriguezii* (Renaud & Cardot) Broth. <sup>E R</sup> (Renaud & Cardot 1890: 185, as *Ectropothecium rodriguezii* Renaud & Cardot).

- Vesicularia scaturigina* (Brid.) Broth. <sup>R</sup> (Bridel 1812: 117, as *Hypnum scaturiginum* Brid.).

- Vesicularia subsphaerica* (Müll. Hal.) Broth. <sup>R</sup> (Renaud & Cardot 1895: 134, as *Ectropothecium subsphaericum* Müll. Hal.).

#### Family HYOPTERYGIACEAE Mitt.

- Hypopterygium tamarisci* (Sw.) Brid. ex Müll. Hal. (Bescherelle 1880a: 326, as *H. torulosum* Schimp. ex Besch. <sup>R</sup>).

- Lopidium struthiopteris* (Brid.) M. Fleisch. <sup>R</sup> (Bridel 1812: 87, as *Hypnum struthiopteris* Brid.).

#### Family LEMBOPHYLLACEAE Broth.

- Nogopterium gracile* (Hedw.) Crosby & W. R. Buck (Een 1997: 30, as *Pterogonium gracile* var. *capense* Müll. Hal. ex Dixon).

- Pilotrichella debilinervis* Renaud & Cardot <sup>R</sup> (Renaud & Cardot 1896a: 70).

- Pilotrichella mascarenica* (Müll. Hal.) A. Jaeger <sup>R</sup> (Müller 1859: 237, as *Neckera mascarenica* Müll. Hal.).

#### Family LESKEACEAE Schimp.

- Pseudoleskeopsis claviramea* (Müll. Hal.) Thér. (Arts 2005: 148).

- Schwetschkea grateloupii* (Mont.) Müll. Hal. <sup>R</sup> (Montagne 1845a: 100, as *Anomodon grateloupii* Mont.).

#### Family LEUCOBRYACEAE Schimp.

- Atractylocarpus alticaulis* (Broth.) R. S. Williams (Ah-Peng *et al.* 2010a: 289).

- Atractylocarpus madagascariensis* (Thér.) Padberg & J.-P. Frahm <sup>M</sup> (Townsend 1987: 67).
- Campylopus arctocarpus* subsp. *madecassus* (Besch.) J.-P. Frahm <sup>M</sup> (Bescherelle 1880b: 323, as *C. matarensis* Besch. <sup>R</sup>).
- Campylopus arcuatus* (Brid.) A. Jaeger <sup>R</sup> (Bridel 1806).
- Campylopus aureonitens* (Müll. Hal.) A. Jaeger <sup>R</sup> (Müller 1848).
- Campylopus clavatus* (R. Br.) Wilson (Frahm 2010: 7).
- Campylopus crateris* Besch. <sup>R</sup> (Bescherelle 1880b: 327).
- Campylopus decaryi* Thér. <sup>M</sup> (Pócs 2022: 177).
- \**Campylopus filifolius* (Hornsch.) Spruce (Frahm 2010: 5). Mascarene records considered dubious *fide* Frahm 2010 despite his application of the name to material from Réunion. — Voucher: (De Sloover 17598, BR[BR5040267723033], det. J.-P. Frahm). The species has also been collected in Réunion as *C. interruptulus* Müll. Hal. ex Besch. (*Cadet s.n.*, PC[PC0795846; PC0795847]).
- Campylopus flavicoma* Müll. Hal. ex Broth. (Ellis *et al.* 2011: 316, as *Bryohumbertia flavicoma* (Müll. Hal. ex Broth.) J.-P. Frahm).
- Campylopus flexuosus* (Hedw.) Brid. var. *flexuosus* (Bescherelle 1880b: 324, as *C. virescens* Besch. <sup>R</sup>).
- Campylopus flexuosus* var. *incacorralis* (Herzog) J.-P. Frahm (Een 1989: 57, as *C. incacorralis* Herzog).
- Campylopus fragilis* (Brid.) Bruch & Schimp. (Een 1989: 57).
- Campylopus hildebrandtii* (Müll. Hal.) A. Jaeger <sup>M</sup> (Bescherelle 1880b: 320, as *C. pallescens* Besch. <sup>R</sup>).
- Campylopus introflexus* (Hedw.) Brid. (Frahm 1985: 101).
- Campylopus jamesonii* (Hook.) A. Jaeger (Bescherelle 1880b: 323, as *C. echernieri* Besch. <sup>R</sup>).
- Campylopus julaceus* subsp. *arbogastii* (Renauld & Cardot) J.-P. Frahm <sup>M</sup> (Frahm 1985: 109).
- Campylopus lamellatus* Mont. (Gama *et al.* 2017: 4, tab. 1).
- Campylopus nanophyllus* Müll. Hal. ex Broth. (Frahm 1985: 124).
- Campylopus nivalis* (Brid.) Brid. var. *nivalis* <sup>R</sup> (Bridel 1806: 123, as *Weissia nivalis* Brid.).
- Campylopus pilifer* Brid. subsp. *pilifer* (Een 1989: 58).
- Campylopus pilifer* var. *brevirameus* (Dixon) J.-P. Frahm & M. Stech (Frahm & Stech 2006: 222).
- Campylopus praetermissus* J.-P. Frahm (Een 1989: 58).
- Campylopus pyriformis* (Schultz) Brid. var. *pyriformis* (Een 1989: 58, as *C. paludicola* Broth.).
- Campylopus robillardii* Besch. <sup>M</sup> (Een 1989: 58).
- Campylopus schmidii* (Müll. Hal.) A. Jaeger (Bescherelle 1880b: 327, as *C. ripicola* Besch. <sup>R</sup>).
- Campylopus smaragdinus* (Brid.) A. Jaeger (Bizot 1974: 113, as *C. manganotii* Bizot & Kilb. <sup>R</sup>).
- Campylopus thwaitesii* (Mitt.) A. Jaeger (Frahm 1985: 49, as *C. car-dotii* Thér.).
- Campylopus torrentis* Thér. & P. de la Varde (Pócs 2022: 181).
- Campylopus trachyblepharon* subsp. *comatus* (Renauld & Cardot) J.-P. Frahm <sup>M</sup> (Een 1989: 59).
- Leucobryum boryanum* Besch. <sup>R</sup> (Bescherelle 1880b: 335).
- Leucobryum isleanum* Besch. <sup>R</sup> (Bescherelle 1880b: 336).
- Leucobryum mayottense* Cardot <sup>M</sup> (Een 1978: 220).

## Family LEUCODONTACEAE Schimp.

*Pterogoniadelphus assimilis* (Müll. Hal.) Ochyra & Zijlstra (Een 1976: 216, as *Leucodon capensis* Schimp.).

## Family LEUCOMIACEAE Broth.

*Leucomium strumosum* (Hornsch.) Mitt. (Müller 2000: 94).

## Family METEORIACEAE Kindb.

- Aerobryopsis capensis* (Müll. Hal.) M. Fleisch. (Frahm 2010: 3).
- Floribundaria floribunda* (Dozy & Molck.) M. Fleisch. (Een 1976: 214).
- Floribundaria vaginans* (Welw. & Duby) Broth. (Een 1976: 214, as *F. patentissima* (Müll. Hal.) M. Fleisch.).
- Papillaria africana* (Müll. Hal.) A. Jaeger (Een 1976: 216).
- Trachypodopsis serrulata* (P. Beauv.) M. Fleisch. var. *serrulata* <sup>R</sup> (Pali-sot de Beauvois 1805: 83, as *Pilotrichum serrulatum* P. Beauv.).
- Trachypus bicolor* var. *hispidus* (Müll. Hal.) Cardot (Een 1997: 31).
- Trachypus bicolor* var. *viridulus* (Mitt.) Zanten (Renauld 1898: 193, as *Papillaria laeta* Renauld & Cardot <sup>M</sup>).

## Family MNIACEAE Schwägr.

- Mielichhoferia borbonica* Thér. <sup>E R</sup> (Thériot 1932: 149).
- Plagiomnium rhynchophorum* (Harv.) T. J. Kop. (Bescherelle 1880a: 241, as *Mnium australe* Besch. <sup>R</sup>).
- Poblia elongata* Hedw. (Ellis *et al.* 2012: 241).
- Pseudopohlia heribaudii* (Renauld & Cardot) Brinda & N. Wilding <sup>R</sup> (Renauld 1891: 290, as *Brachymenium heribaudii* Renauld & Cardot).
- Schizymenium bryoides* Harv. (Frahm 2010: 11, as *Mielichhoferia bryoides* (Harv.) Wijk & Margad.).

## Family NECKERACEAE Schimp.

- Alleniella ehrenbergii* (Müll. Hal.) Enroth (Bescherelle 1880a: 273, as *Neckera valentiniana* Besch. <sup>R</sup>).
- Circulifolium exiguum* (Bosch & Sande Lac.) S. Olsson, Enroth & D. Quandt (Bescherelle 1880a: 274, as *Homalia valentinii* Besch. <sup>R</sup>).

*Leptodon fuciformis* (Brid.) Enroth <sup>R</sup> (Bridel 1812: 135, as *Hypnum fuciforme* Brid.).

*Longiella distichacea* (Mitt.) J. T. Wynn's (Arts 2005: 149, as *Pseudotaxiphyllum distichaceum* (Mitt.) Z. Iwats.).

*Neckeromnion lepineanum* (Mont.) S. Olsson, Enroth, Huttunen & D. Quandt (Bescherelle 1880a: 272, as *Neckera pervilleana* Besch. <sup>M</sup>).

*Neckeropsis madecassa* (Besch.) M. Fleisch. <sup>M</sup> (Bescherelle 1880a: 271, as *Neckera madecassa* Besch.).

*Pinnatella minuta* (Mitt.) Broth. (Enroth 1994: 37).

*Porotrichum madagassum* Kiaer ex Besch. <sup>M</sup> (Renauld 1898: 207, as *Porotrichum penniforme* var. *chauvetii* Renauld & Cardot <sup>R</sup>).

#### Family OCTOBLEPHARACEAE A. Eddy ex M. Menzel

*Octoblepharum albidum* Hedw. (Bescherelle 1880b: 338).

#### Family ORTHODONTIACEAE Goffinet

*Orthodontium pellucens* (Hook.) Bruch & Schimp. (Bescherelle 1880b: 377, as *O. loreifolium* Besch. <sup>R</sup>).

#### Family ORTHOSTICHELLACEAE Enroth, Huttunen, Tangney, M. Stech & D. Quandt

*Afrothamnium stipitatum* (Mitt.) Enroth (De Sloover 1983: 141, as *Poroathamium stipitatum* (Mitt.) Touw ex De Sloover).

*Deslooveria usagara* (Mitt.) Enroth (De Sloover 1983: 117, as *Porotrichum molliculum* Broth.).

*Deslooveria variifolioides* (De Sloover) Enroth (De Sloover 1983: 134, as *Poroathamium variifolioides* De Sloover).

*Orthostichella longinervis* (Renauld & Cardot) B. H. Allen & Magill <sup>M</sup> (Een 1997: 29, as *Orthostichopsis longinervis* (Renauld & Cardot) Broth.).

*Orthostichella rigida* (Müll. Hal.) B. H. Allen & Magill (Bescherelle 1880a: 267, as *Pilotrichella isleana* var. *virescens* Besch. <sup>R</sup>).

*Pinnatidendron piniforme* (Brid.) Enroth (Ah-Peng *et al.* 2010a: 290, as *Homaliidendron piniforme* (Brid.) Enroth.).

*Scabrellifolium elongatum* (Welw. & Duby) Enroth (Bescherelle 1880a: 274, as *Porotrichum robillardii* Müll. Hal. ex Besch. <sup>R</sup>).

#### Family ORTHOTRICHACEAE Arn.

*Cardotiella appendiculata* (Renauld & Cardot) Vitt <sup>M</sup> (Een 1978: 220, as *Leiomitrium appendiculatum* (Renauld & Cardot) Cardot).

*Cardotiella subappendiculata* (Broth.) Vitt <sup>M</sup> (Een 1978: 220, as *Leiomitrium subappendiculatum* (Broth.) Cardot).

*Codonoblepharon microtheca* (Dixon ex Malta) Matcham & O'Shea (Ellis *et al.* 2021: 70).

<sup>N</sup>*Groutiella tomentosa* (Hornsch.) Wijk & Margad. — Voucher: (Ah-Peng *et al.* 1150P2Q3TC2; Saint-Benoit: trail to Takamaka; 1170 m alt.; 27.III.2008; REU, det. T. A. J. Hedderson).

*Leiomitrium plicatum* (P. Beauv.) Mitt. <sup>M</sup> (Vitt 1981: 100, as *Orthotrichum plicatum* P. Beauv.).

<sup>N</sup>*Orthotrichum subexsertum* Schimp. ex Müll. Hal., F. Lara & Garilleti. — Voucher: (Durand & Riviere 9; Trois Bassins: Piton Glaciere; 2492 m alt.; 19.IV.2024; REU[REU030366]; det. T. A. J. Hedderson).

*Macrocoma lycopodioides* (Schwägr.) Vitt (Arts 2005: 146).

*Macrocoma tenuis* (Hook. & Grev.) Vitt subsp. *tenuis* (Renauld 1898: 145, as *Macromitrium tenue* (Hook. & Grev.) Brid.).

*Macromitrium chloromitrium* (Besch.) Wilbraham <sup>M</sup> (Wilbraham & Ellis 2010: 54).

*Macromitrium fimbriatum* (P. Beauv.) Schwägr. (Renauld 1898: 145).

*Macromitrium lanceolatum* Broth. <sup>M</sup> (Een 1978: 220).

*Macromitrium microstomum* (Hook. & Grev.) Schwägr. (Bescherelle 1880b: 355, as *Dasymitrium borbonicum* Besch. <sup>R</sup>).

*Macromitrium orthostichum* Nees ex Schwägr. (Bescherelle 1880b: 357, as *M. scleropodium* Besch. <sup>R</sup>).

*Macromitrium pallidum* (P. Beauv.) Wijk & Margad. <sup>R</sup> (Palisot de Beauvois 1805: 81, as *Orthotrichum pallidum* P. Beauv.).

*Macromitrium serpens* (Burch. ex Hook. & Grev.) Brid. (Wilbraham & Ellis 2010: 62).

*Macromitrium subtortum* (Hook. & Grev.) Schwägr. (Wilbraham 2016: 4).

*Macromitrium sulcatum* (Hook.) Brid. subsp. *sulcatum* (Bescherelle 1880b: 362, as *M. rufescens* Besch. <sup>R</sup>).

*Schlotheimia angulosa* (P. Beauv.) Dixon <sup>M</sup>. — Voucher: (Arts REU07/38; route forestière vers le Piton Maïdo; 4.III.1997; BR[BR5040318942062]; det. T. Arts).

*Schlotheimia badiella* Besch. <sup>R</sup> (Bescherelle 1880b: 368).

*Schlotheimia brachyphylla* Renauld & Cardot <sup>E R</sup> (Renauld & Cardot 1894b: 118).

*Schlotheimia excorugata* Müll. Hal. ex Cardot <sup>M</sup> (Ah-Peng *et al.* 2010b: 265).

*Schlotheimia ferruginea* (Burch. ex Hook. & Grev.) Brid. (Ah-Peng *et al.* 2010a: 290).

*Schlotheimia fornicata* Duby <sup>M</sup>. — Voucher: (Hedderson *et al.* 16319; Bras Panon: forêt de la Caroline; 191-530 m alt.; 28.IX.2006; BOL, det. T. A. J. Hedderson).

*Schlotheimia malacophylla* Besch. <sup>R</sup> (Bescherelle 1880b: 368).

*Schlotheimia microcarpa* Schimp. ex Müll. Hal. & Geh. <sup>M</sup> (Een 1978: 222).

*Schlotheimia percuspidata* Müll. Hal. — Voucher: (Een R454; Cilaos; 1100 m alt.; 29.IX.1962; S[B13354]; det. G. Een).

*Schlotheimia richardii* Besch. <sup>R</sup> (Bescherelle 1880b: 370).

*Schlotheimia robillardii* Duby <sup>M</sup> (Een 1978: 222).

*Schlotheimia squarrosa* Brid. <sup>R</sup> (Bridel 1812: 18).

*Schlotheimia subfornicata* Thér. <sup>M</sup> (*Lepervanche s.n.*, Réunion, s.d.; BM[BM000873827]; det. J. Wilbraham).

- Ulota fulva* Brid. <sup>R</sup> (Bridel 1826: 301).  
*Zygodon intermedius* Bruch & Schimp. (Een 1993: 52).  
*Zygodon reinwardtii* (Hornsch.) A. Braun (Wilbraham 2015: 8).  
*Zygodon trichomitrius* Hook. & Wilson (Ah-Peng *et al.* 2010a: 291).

#### Family PHYLLOGONIACEAE Ordway

- Phyllogonium viride* Brid. (Bescherelle 1880a: 271, as *P. viscosum* fo. *viride* Besch. <sup>R</sup>).  
*Phyllogonium viscosum* (P. Beauv.) Spruce <sup>R</sup> (Palisot de Beauvois 1805: 87, as *Pterigynandrum viscosum* P. Beauv.).

#### Family PLAGIOTHECIACEAE M. Fleisch.

- Plagiothecium bellirete* Müll. Hal. (Ellis *et al.* 2011b: 69, as *P. membranulosulum* Müll. Hal.).  
*Plagiothecium nitens* Dixon (Een 1997: 29).  
*Plagiothecium nitidifolium* (Mitt.) A. Jaeger (Ellis *et al.* 2011a: 69).

#### Family POLYTRICHACEAE Schwägr.

- Atrichum androgynum* (Müll. Hal.) A. Jaeger (Bescherelle 1880a: 249, as *A. borbonicum* Besch. <sup>R</sup>).  
*Delongia cavallii* (G. Negri) N. E. Bell, Kariyawasam, Hedd. & Hyvönen (Ellis *et al.* 2014: 66, as *Oligotrichum cavallii* (G. Negri) G. L. Sm.).  
*Pogonatum belangeri* (Müll. Hal.) A. Jaeger <sup>M</sup> (Bescherelle 1880a: 250, as *P. brachythecium* Besch. <sup>R</sup>).  
*Pogonatum capense* (Hampe) A. Jaeger (Ah-Peng *et al.* 2010b: 265).  
*Pogonatum convolutum* (Hedw.) P. Beauv. <sup>R</sup> (Hedwig & Schwägrichen 1801: 94, as *Polytrichum convolutum* Hedw.).  
*Pogonatum gracilifolium* Besch. <sup>R</sup> (Bescherelle 1880a: 249).  
*Pogonatum jamesonii* (Taylor) B. H. Allen (De Sloover 1986: 270, as *P. oligodus* (Kunze ex Müll. Hal.) Spruce).  
*Pogonatum proliferum* (Griff.) Mitt. (Een 1993: 51).  
*Pogonatum urnigerum* (Hedw.) P. Beauv. (Müller 2002: 49).  
*Pogonatum usambaricum* (Broth.) Paris (Hyvönen 1989: 58).  
*Polytrichum piliferum* Hedw. (Müller & Schäfer-Verwimp 1999: 197).  
*Polytrichum subpilosum* P. Beauv. <sup>R</sup> (Palisot de Beauvois 1805: 86).

#### Family POTTIACEAE Hampe

- Anoetangium aestivum* (Hedw.) Spruce. — Voucher: (Hedderson 18817; Cilaos: Bonnet de Prêtre; 1360 m alt.; 4.XII.2014; BOL[BOL0238617]; det. T. A. J. Hedderson).  
 \**Anoetangium borbonense* Besch. <sup>R</sup> (Bescherelle 1880b: 300). Probable synonym of *A. euchloron* (Schwägr.) Spruce *vide* T. Hedderson.

*Anoetangium euchloron* (Schwägr.) Spruce. — Voucher: (Hedderson 19227; Langevin; 40 m alt.; 25.X.2018; BOL[BOL0224370]; det. T. A. J. Hedderson).

*Anoetangium impressum* Hampe <sup>M</sup> (Een 1976: 214).

\**Anoetangium mafatense* Renauld & Cardot <sup>R</sup> (Renauld & Cardot 1890: 167). Probable synonym of *A. stracheyanum* Mitt. *vide* T. Hedderson.

\**Anoetangium raphidostegium* Müll. Hal. ex Besch. <sup>M</sup> (Bescherelle 1880b: 301). Probable synonym of *A. stracheyanum* Mitt. *vide* T. Hedderson.

\**Anoetangium rufoviride* Besch. <sup>M</sup> (Bescherelle 1880b: 301). Probable synonym of *A. stracheyanum* Mitt. *vide* T. Hedderson.

*Anoetangium stracheyanum* Mitt. — Voucher: (Hedderson *et al.* 16358; Plaine de Sables; 2260 m alt.; 7.X.2006; BOL[BOL0238646]; det. T. A. J. Hedderson).

*Barbula microcalycina* Magill (Arts 2005: 121).

*Barbula unguiculata* Hedw. (Müller 2000: 93).

*Bryoerythrophyllum campylocarpum* (Müll. Hal.) H. A. Crum (Sollman & Een 1996: 3).

*Bryoerythrophyllum ferruginascens* (Stirt.) Giacom. (Ah-Peng *et al.* 2010a: 289).

*Bryoerythrophyllum inaequalifolium* (Taylor) R. H. Zander (Arts 2005: 124).

*Chenia leptophylla* (Müll. Hal.) R. H. Zander (Müller 2000: 94).

*Chionoloma bombayense* (Müll. Hal.) P. Sollman (Sollman & Een 1996: 2, as *Pseudosymblypharis bombayensis* (Müll. Hal.) P. Sollman).

*Chionoloma circinatum* (Besch.) M. Alonso, M. J. Cano & J. A. Jiménez <sup>R</sup> (Bescherelle 1880b: 308, as *Symblypharis circinata* Besch.).

*Chionoloma orthodontum* (Müll. Hal.) M. Alonso, M. J. Cano & J. A. Jiménez (Arts 2005: 155, as *Trichostomum tenuirostre* var. *gemmiparum* (Schimp.) R. H. Zander).

*Chionoloma tenuirostre* (Hook. & Taylor) M. Alonso, M. J. Cano & J. A. Jiménez var. *tenuirostre* (Alonso *et al.* 2019).

*Didymodon maschalogenia* (Renauld & Cardot) Broth. — Voucher: (Hedderson 18891; Plaine de Sables; 2330 m alt.; 27.V.2015; BOL[BOL0243973]; det. T. A. J. Hedderson & conf. J. A. Jiménez).

*Didymodon vulcanicus* J. A. Jiménez, Hedd. & Frank Müll. <sup>R</sup> (Jiménez *et al.* 2017: 40).

*Gymnostomiella vernicosa* var. *tenera* (Müll. Hal. ex Dusén) Arts (Arts 1998: 424).

*Gymnostomum aeruginosum* Sm. (Arts 2005: 144).

*Gymnostomum calcareum* Nees & Hornsch. (Arts 2005: 144).

*Hydrogonium orientale* (F. Weber) Jan Kučera (Sollman & Een 1996: 2, as “*Barbula indica*” auct. non (Willd. ex Schrad.) Spreng.).

*Hymenostylium aurantiacum* Mitt. — Voucher: (Hedderson 18843; Cilaos: Bras Rouge; 1230 m alt.; 5.XII.2014; BOL, det. R. H. Zander as *Ardeuma aurantiacum* (Mitt.) R. H. Zander & Hedd.).

*Hymenostylium crassinervium* Broth. & Dixon (Ah-Peng *et al.* 2010a: 290).

*Hymenostylium recurvirostrum* (Hedw.) Dixon (Müller 2002: 49).

*Hymenostylium scaturiginosum* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880b: 300, as *Gymnostomum scaturiginosum* Besch.).

*Hymenostylium xanthocarpum* (Hook.) Brid. (Zander & Hedderson 2016: 4).

*Hyophila involuta* (Hook.) A. Jaeger (Sollman & Een 1996: 2).

\**Leptodontium flexifolium* (Dicks.) Hampe ex Lindb. (De Sloover 1987: 429). The presence of this species in Réunion is doubtful, records are likely based on confusion with *L. stellatifolium* (Hampe) Broth.

*Leptodontium longicaule* Mitt. var. *longicaule* (Zander 1972: 269).

*Leptodontium longicaule* var. *microruncinatum* (Dusén) R. H. Zander (Zander 1972: 271).

*Leptodontium pungens* (Mitt.) Kindb. (De Sloover 1987: 436).

*Leptodontium stellatifolium* (Hampe) Broth. (Zander & Hedderson 2017: 397).

*Leptodontium viticulosoides* (P. Beauv.) Wijk & Margad. var. *viticulosoides* <sup>R</sup> (Palisot de Beauvois 1805: 78, as *Neckera viticulosoides* P. Beauv.).

*Pseudocrossidium hornschuchianum* (Schultz) R. H. Zander (Ah-Peng *et al.* 2010a: 290).

*Pseudocrossidium replicatum* (Taylor) R. H. Zander (Ah-Peng *et al.* 2010b: 266).

*Splachnobryum obtusum* (Brid.) Müll. Hal. (Arts 2005: 150).

*Streblotrichum convolutum* (Hedw.) P. Beauv. (Ellis *et al.* 2018: 2, as *Barbula convoluta* Hedw.).

*Syntrichia ammonsiana* (H. A. Crum & L. E. Anderson) Ochyra (Arts 2005: 151).

*Syntrichia fragilis* (Taylor) Ochyra (Arts 2005: 152).

*Tortella humilis* (Hedw.) Jenn. (Müller & Schäfer-Verwimp 1999: 197).

<sup>N</sup>*Tortula muralis* Hedw. var. *muralis*. — Voucher: (Ah-Peng *et al.* R592-1; auberge du Volcan; 1650 m alt.; 7.X.2006; REU, det. J. Bardat).

*Trichostomum brachydontium* Bruch var. *brachydontium* (Renauld & Cadot 1895: 115, as *Barbula sparsifolia* Renauld & Cardot <sup>R</sup>).

*Trichostomum cardotii* Bizot <sup>E R</sup> (Bizot 1976: 853).

*Trichostomum crispulum* Bruch var. *crispulum* (Müller 2000: 95).

*Weissia ayresii* Schimp. ex Besch. <sup>M</sup> (Bescherelle 1880b: 299, as *Gymnostomum chloropus* Besch. <sup>R</sup>).

*Weissia borbonica* (Bizot & Onr.) Arts <sup>E R</sup> (Bizot 1974: 116, as *Astomum borbonicum* Bizot & Onr.).

*Weissia controversa* Hedw. (Een 1976: 217).

*Weissia jamaicensis* (Mitt.) Grout (Renauld & Cardot 1896b: 308, as *Trichostomum vernicosum* Renauld & Cardot. <sup>R</sup> syn. nov.). Recently reported from Africa by Müller *et al.* (2018), we can confirm that this species also occurs on Réunion based on examination of the type material of *Trichostomum vernicosum* in PC. Müller *et al.* (2018) provide a good account of the species and we expect that a critical revision

of herbarium specimens will find it to be even more widespread. *Weissia ricciae* Brid. <sup>E R</sup> (Bridel 1819: 46).

#### Family PRIONODONTACEAE Broth.

*Prionodon densus* (Sw. ex Hedw.) Müll. Hal. (Een 1997: 30, as *Prionodon ciliatus* Besch. <sup>R</sup>).

#### Family PTEROBRYACEAE Kindb.

*Calyptothecium duplicatum* (Schwägr.) Broth. (Argent 1973: 574, as *C. acutifolium* (Brid.) Broth. <sup>R</sup>).

*Hildebrandtiella endotrichelloides* Müll. Hal. <sup>M</sup> (Renauld 1898: 296, as *H. rotundifolia* Renauld <sup>R</sup>).

*Hildebrandtiella phleoides* (Desv. ex Brid.) B. H. Allen & Magill <sup>R</sup> (Bridel 1827: 431, as *Hypnum phleoides* Desv. ex Brid.).

*Jaegerina formosa* Besch. <sup>R</sup> (Bescherelle 1880a: 263).

*Jaegerina solitaria* (Brid.) A. Jaeger <sup>R</sup> (Bridel 1812: 90, as *Hypnum solitarium* Brid.).

*Jaegerina solitaria* var. *ramosa* Besch. <sup>E R</sup> (Bescherelle 1880a: 262).

*Orthostichidium involutifolium* subsp. *thomeanum* (Broth.) Argent (De Sloover 1979: 404).

*Orthostichidium pentastichum* (Brid.) B. H. Allen & Magill <sup>M</sup> (Palisot de Beauvois 1805: 65, as *Hypnum imbricatum* P. Beauv. <sup>R</sup>).

*Orthostichopsis subimbricata* var. *borbonica* (Renauld & Cardot) Cardot <sup>E R</sup> (Renauld 1898: 196, as *Pilotrichella subimbricata* var. *borbonica* Renauld & Cardot).

*Orthostichopsis sublivens* (Besch.) Broth. <sup>E R</sup> (Bescherelle 1880a: 268, as *Meteorium sublivens* Besch.).

*Pterobryon julaceum* Broth. (Ellis *et al.* 2018: 14).

#### Family PTYCHOMITRIACEAE Schimp.

*Ptychomitrium exaratifolium* H. Rob. (Ah-Peng *et al.* 2010a: 290).

*Ptychomitrium subcrispatum* Thér. & P. de la Varde (De Sloover 1976: 437).

#### Family PYLAIACEAE Schimp.

*Calliergonella cuspidata* (Hedw.) Loeske (Ah-Peng *et al.* 2010a: 289).

*Calohypnum macrogynum* (Besch.) Jan Kučera & Ignatov (Een 1997: 26, as *Hypnum macrogynum* Besch.).

#### Family PYLAIADIACEAE Goffinet & W. R. Buck

*Clastobryellina ceylonensis* (Broth.) H. Akiyama (Arts 2005: 143, as *Gammliella ceylonensis* (Broth.) B. C. Tan & W. R. Buck).

*Isopterygium chryseolum* Besch. <sup>R</sup> (Bescherelle 1880a: 314).

*Isopterygium citrinellum* Renauld & Cardot <sup>E R</sup> (Renauld & Cardot 1905: 103).

*Isopterygium intortum* (P. Beauv.) A. Jaeger <sup>M</sup> (Een 1997: 28).

*Isopterygium leiotheca* Renauld & Cardot <sup>E R</sup> (Renauld & Cardot 1895: 134).

*Isopterygium molle* Thér. <sup>E R</sup> (Thériot 1923: 461).

*Isopterygium radicans* (Brid.) A. Jaeger <sup>E R</sup> (Bridel 1819: 185, as *Hypnum radicans* Brid.).

*Taxithelium lindbergii* (A. Jaeger) Renauld & Cardot (Cámara 2011: 14).

*Taxithelium pseudoamoenum* (Bél.) Renauld <sup>R</sup> (Bélanger 1834: 90, as *Hypnum pseudoamoenum* Bél.).

*Trachyphyllum borgenii* (Renauld & Cardot) Broth. <sup>M</sup> (Ellis *et al.* 2018: 17).

*Trachyphyllum inflexum* (Harv.) A. Gepp (Buck 1979: 385).

*Wijkia protensa* (Renauld & Cardot) H. A. Crum <sup>R</sup> (Renauld & Cardot 1890: 183, as *Rhaphidostegium protensum* Renauld & Cardot).

#### Family RACOPILACEAE Kindb.

*Racopilum africanum* Mitt. (Bescherelle 1880a: 324, as *R. prae-longum* <sup>R</sup>).

*Racopilum ayresii* Mitt. <sup>M</sup> (Mitten 1886: 308).

\**Racopilum capense* Müll. Hal. ex Broth. (Bizot 1968). The original published report of this species by Bizot (1968) is based on a Gillis Een collection from Cilaos, however, a specimen in S matching the description provided by Bizot is, instead, determined as *Racopilum mauritanum* Müll. Hal. ex Besch. by G. Een. This and many other specimens in MO were named “R. cf. capense” by van Zanten. This material requires confirmation.

*Racopilum mauritanum* Müll. Hal. ex Besch. <sup>M</sup> (Een 1978: 221).

\**Racopilum tomentosum* (Hedw.) Brid. (Bridel 1827). Only known from one collection in S: *Rodriguez s.n.* [B66405]. This material requires confirmation.

#### Family RHIZOFABRONIACEAE Huttunen, Ignatov, D. Quandt & Hedenäs

*Rhizofabronia perpilosa* (Broth.) Broth. (Ah-Peng *et al.* 2010b: 265).

*Rhizofabronia persoonii* (Schwägr.) M. Fleisch. var. *persoonii* <sup>R</sup> (Schwägrichen 1816: 339, as *Fabronia persoonii* Schwägr.).

*Rhizofabronia persoonii* var. *sphaerocarpa* (Dusén) Bizot (Ah-Peng *et al.* 2010a: 290).

#### Family RUTENBERGIACEAE M. Fleisch.

*Rutenbergia borbonica* Besch. <sup>R</sup> (Bescherelle 1880a: 331). Synonymous with *Rutenbergia madagassa* Geh. & Hampe ex Besch. *vide* A. Newton (unpublished manuscript).

*Rutenbergia prionodon* (Besch.) Renauld <sup>R</sup> (Bescherelle 1880b: 317, as *Leucoloma prionodon* Besch.).

#### Family SELIGERIACEAE Schimp.

*Blindia magellanica* Schimp. ex Müll. Hal. (Arts 2005: 123).

#### Family SEMATOPHYLLACEAE Broth.

*Acroporium megasporum* (Duby) M. Fleisch. <sup>M</sup> (Frahm 2010: 3).

*Acroporium pungens* (Hedw.) Broth. (Ah-Peng 2007: 220).

<sup>N</sup>*Acanthorrhynchium decolor* (Besch.) M. Fleisch. — Voucher: (*Shaw 17539*; Cilaos; 1400-2000 m alt.; 27.VIII.2013; DUKE, NY, det. W. R. Buck).

*Brittonodoxa subpinnata* (Brid.) W. R. Buck, P. E.A. S. Cámara & Carv.-Silva (Een 1997: 31, as *Sematophyllum subpinnatum* (Brid.) E. Britton).

*Clastobryophilum bogoricum* (Bosch & Sande Lac.) M. Fleisch. (Arts 2005: 131).

*Macrohymenium acidodon* (Mont.) Dozy & Molk. <sup>R</sup> (Montagne 1845a: 96, as *Leskea acidodon* Mont.).

*Meiothecium madagascariense* (Brid.) Broth. <sup>M</sup> (Een 1997: 27).

*Microcalpe subsimplex* (Hedw.) W. R. Buck. — Voucher: (*Ab-Peng R 128 \*01*; Kipuka dans coulée 1973; 110 m alt.; 22.II.2005; REU, det. J. Bardat).

*Papillidiopsis complanata* (Dixon) W. R. Buck & B. C. Tan (Ah-Peng 2007: 225).

*Papillidiopsis mahensis* (Besch.) O’Shea (Ah-Peng 2007: 225).

*Radulina borbonica* (Bél.) W. R. Buck <sup>R</sup> (Bélanger 1834: 97, as *Leskea borbonica* Bél.).

*Rhaphidorrhynchium crispans* (Besch.) Broth. <sup>E R</sup> (Bescherelle 1880a: 299, as *Rhaphidostegium crispans* Besch.).

*Rhaphidorrhynchium rubricaula* (Besch.) Broth. <sup>M</sup> (Een 1997: 30).

*Rhaphidostichum gracile* Dixon. — Voucher: (*Strasberg et al. KIP-C3C16R2*; Enclos Fouqué; 160 m alt.; 15.VI.2005; REU, det. C. Ah-Peng).

*Sematophyllum crassiusculum* (Brid.) Broth. — Voucher: (*Ellis & Wilbraham R08-452*; Grande Anse; 30 m alt.; 25.IX.2008; BM[BM000968637]).

*Sematophyllum schimperii* (Besch. ex Paris) Broth. <sup>M</sup> Dixon (1938) reported the species as new to Mauritius, however, the type of the species originates from the same island. Dixon (1938) also reports the species as being known from “Bourbon” (Réunion) and “Usambara”, but no prior mentions of this species’s presence in Réunion were made by Renauld (1898, 1909), Brotherus (1907) or Bescherelle (1880a & b). This error may have originated in Brotherus (1925: 432) since he cites “Bourbon, Usambara” without mentioning Mauritius. No other specimens or records are known for Réunion.).

*Sematophyllum sinuosulum* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880a: 302, as *Rhaphidostegium sinuosulum* Besch.).

*Trichosteleum adhaerens* (Besch.) Kindb. <sup>E R</sup> (Bescherelle 1880a: 305, as *Rhaphidostegium adhaerens* Besch.).

*Trichosteleum constrictum* (Brid.) Renaud <sup>R</sup> (Bridel 1812: 79, as *Leskea constricta* Brid.).

*Trichosteleum debettei* (Besch.) Kindb. <sup>R</sup> (Bescherelle 1880a: 303, as *Rhaphidostegium debettei* Besch.).

*Trichosteleum pervilleanum* (Schimp. ex Müll. Hal. & Geh.) W. R. Buck <sup>M</sup> (Een 1997: 32).

*Warburgiella leptorrhyncha* (A. Jaeger) Broth. <sup>R</sup> (Müller 1851: 313, as “*Hypnum leptorrhynchum*” Müll. Hal.).

Family SERPOTORTELLACEAE W. D. Reese & R. H. Zander

*Serpotortella chenagonii* (Renaud & Cardot) W. D. Reese & R. H. Zander <sup>M</sup> (Reese & Zander 1987: 234).

*Serpotortella cyrtophylla* (Besch.) W. D. Reese & R. H. Zander <sup>R</sup> (Bescherelle 1880b: 347, as *Syrrophodon cyrtophyllus* Besch.).

Family SPHAGNACEAE Dumort.

*Sphagnum capense* Hornsch. (Crum 1992: 276, as *S. bourbonense* H. A. Crum <sup>R</sup>).

\**Sphagnum capillifolium* (Ehrh.) Hedw. (Record apparently based on a specimen in PC, collected by Rodriguez in Réunion, under the name “*Sphagnum acutifolium* var. australe” [PC0072010]. It is unknown who referred this material to *S. capillifolium*. The specimen requires a confirmation.)

<sup>N</sup>*Sphagnum cavernulosum* Flatberg & Whinam. — Voucher: (Shaw 17496; Bélouve: trail to Caverne Dufour; 1500-1860 m alt.; 23.VIII.2013; DUKE, det. J. Shaw).

*Sphagnum ceylonicum* Mitt. ex Warnst. (Warnstorf 1911: 135, as *S. kerstenii* Hampe <sup>R</sup>).

*Sphagnum condensatum* Brid. <sup>E R</sup> (Bridel 1798: 26).

*Sphagnum cuspidatum* Ehrh. ex Hoffm. (Blockeel *et al.* 2006: 153).

*Sphagnum davidii* Warnst. (Eddy 1985: 124).

*Sphagnum ericetorum* Brid. <sup>R</sup> (Bridel 1806: 19).

\**Sphagnum magellanicum* Brid. subsp. *magellanicum* (Ah-Peng *et al.* 2010a: 290). This record should be confirmed given recent changes to the circumscription of the species by Hassel *et al.* (2018).

*Sphagnum perichaetiale* Hampe (Eddy 1985: 87).

<sup>N</sup>*Sphagnum reichardtii* Hampe ex Warnst. — Voucher: (*Ch. d'Alleizette s.n.*, Plaine des Palmistes, VI.1905 PC[PC0087184], det. *s.d.* & conf. Indorf & conf. N. Wilding).

*Sphagnum rutenbergii* Müll. Hal. <sup>M</sup> (Warnstorf 1891: 172, as *S. palidum* Warnst. <sup>R</sup>).

*Sphagnum strictum* subsp. *pappeanum* (Müll. Hal.) A. Eddy (Eddy 1985: 158).

*Sphagnum truncatum* var. *bordasii* (Besch.) A. Eddy <sup>M</sup> (Eddy 1985: 106).

*Sphagnum tumidulum* Besch. var. *tumidulum* <sup>R</sup> (Bescherelle 1880a: 329).

*Sphagnum tumidulum* var. *confusum* A. Eddy <sup>E R</sup> (Eddy 1985: 120).

*Sphagnum violascens* Müll. Hal. (Warnstorf 1911: 92, as *S. obtusiusculum* var. *pallescens* Warnst. <sup>R</sup>).

Family SPLACHNACEAE Grev. & Arn.

*Tayloria isleana* (Besch.) Broth. <sup>R</sup> (Bescherelle 1880b: 373, as *Orthodon isleanus* Besch.).

*Tayloria orthodonta* (P. Beauv.) Spruce <sup>R</sup> (Palisot de Beauvois 1805: 48, as *Bryum orthodontum* P. Beauv.).

Family STEREOPHYLLACEAE W. R. Buck & Ireland

*Stereophyllum radiculosum* (Hook.) Spruce. — Voucher: (Arts REU18/34; Cirque de Cilaos; 10.III.1997; BR[BR5040319321941]; det. T. Arts).

Family SYMPHYDONTACEAE M. Fleisch.

*Chaetomitrium borbonicum* Besch. <sup>R</sup> (Bescherelle 1880a: 286).

*Phyllocladon perplanicaulis* (Broth.) G. Kis (Kis 2002: 163).

*Phyllocladon truncatulus* (Müll. Hal.) W. R. Buck (Kis 2002: 165).

*Symphiodon pygmaeus* (Broth.) S. He & Snider <sup>M</sup> (He & Snider 2000: 65).

Family THUIDIACEAE Schimp.

*Pelekium versicolor* (Hornsch. ex Müll. Hal.) Touw (Bescherelle 1880b: 289, as *T. borbonicum* Besch. <sup>R</sup>).

*Thuidium aculeoserratum* Renaud & Cardot <sup>M</sup> (Touw 1976: 149).

*Thuidium assimile* (Mitt.) A. Jaeger (Bescherelle 1880a: 290, as *T. matarumense* Besch. <sup>R</sup>).

*Thuidium tamariscinum* (Hedw.) Schimp. (Müller 1851: 485, as *Hypnum mascarenicum* Müll. Hal. <sup>R</sup>).

EXCLUDED NAMES

*Barbula indica* auct. non (Willd. ex Schrad.) Spreng. — Reported by Sollman & Een (1996: 2), and based on a common misapplication of this name. The correct name for the collection is *Hydrogonium orientale* (F. Weber) Jan Kúčera.

*Bazzania erosa* (Reinw., Blume & Nees) Trevis. — Reported by Bélanger (1834: 109) as *Jungermannia erosa* Reinw., Blume & Nees without reference to a specimen, which was presumably collected by Bory de Saint-Vincent. No specimens could be located and the species is not known to occur elsewhere in the Africa region.

*Bryopteris diffusa* (Sw.) Nees — Reported only once by Montagne (1846: 225) as *Frullania diffusa* (Sw.) Nees. No specimens could be located and the species is not known to occur elsewhere in the Africa region.

*Cheilolejeunea lineata* (Lehm. & Lindenb.) Schiffn. — *Fide* Evans (1906: 18) the type locality was incorrectly given as “insula Bourboniae” by Lehmann (1832: 53). Excluded from Réunion by

- Grolle (1995: 143) who wrote: “An easily recognizable taxon... known only from the Neotropics, where it is widespread...”
- Chiastocaulon oppositum* (Reinw., Blume & Nees) S. D.F. Patzak, M. A.M. Renner, Schäf.-Verw. & Heinrichs. — Reported by Chantanaorrapint *et al.* (2004: 91) as *Plagiochilium oppositum* (Reinw., Blume et Nees) S. Hatt. without reference to a specimen. No specimens could be located and the species is not known to occur elsewhere in the Africa region.
- Cololejeunea triapiculata* (Herzog) Tixier — Reported by Renner (2011: 567) without reference to a specimen. No specimens could be located and the species is not known to occur elsewhere in the Africa region apart from a mention for the Seychelles in the same publication.
- Colura amboinensis* Steph. — A poorly understood taxon, reported by Schiffner (1890: 35) as “*Colurolejeunea superba*” without reference to a specimen. No additional reports or specimens could be located.
- Colura karstenii* K. I. Goebel — Reported by Schiffner (1890: 35) as “*Colurolejeunea superba* var. *latifolia*”, however, no herbarium specimens were cited and none could be located. The species is not known to occur in the Africa region and was excluded by Grolle (1995: 143).
- Dendroceros crispus* (Sw.) Nees. — Reported by Bélanger (1834: 113) as *Anthoceros crispus* Sw. without reference to a specimen, which was presumably collected by Bory de Saint-Vincent. No specimens could be located and the species is not known to occur elsewhere in the Africa region.
- Diplasiolejeunea unidentata* (Lehm. & Lindenb.) Schiffn. — Reported by Ah-Peng (2007: 222), as “*D. cf. rudolphinea* Steph.”, however, the specimen is inadequate and cannot be confidently determined to species level.
- Diplasiolejeunea villaumei* Steph. — Mistakenly indicated as present for Réunion by Pócs & Vána (2015).
- Drepanolejeunea cf. angustifolia* (Mitt.) Grolle. — Reported by Ah-Peng *et al.* (2007: 657), however, the specimen is inadequate and cannot be confidently determined to species level.
- Frullania affinis* Nees & Mont. — A nomen dubium according to Vanden Berghen (1976); perhaps synonymous with *Frullania ecklonii* (Spreng.) Gottsche, Lindenb. & Nees *vide* Arnell (1963: 138). Records from the Indian Ocean Islands are treated as doubtful by Grolle (1995: 146).
- Frullania ecklonii* (Spreng.) Gottsche, Lindenb. & Nees — Reported by Beschereille (1895: 4) but indicated as doubtful by Grolle (1995: 146). No additional reports of the species for the island are known and no representative herbarium specimens could be located.
- Frullania obscurifolia* Mitt. — Mistakenly indicated as present for Réunion by Pócs (1980).
- Gymnomitrium laceratum* (Steph.) Horik. — Recorded as present by Vána (2003: 115) but without reference to a specimen. No additional reports of the species for the island are known and no representative herbarium specimens could be located.
- Hedwigidium integrifolium* auct. non (P. Beauv.) Dixon ex C. E.O. Jensen — Reported by Een (1976: 215) based on a common misapplication of this name. The correct name for Een’s collection is *Hedwigidium imberbe* (Sm.) Bruch & Schimp.
- Holomitrium cylindraceum* (P. Beauv.) Trevis. var. *cylindraceum* M. — No published reference or herbarium specimens found for Réunion. Earlier records, according to Crosby *et al.* (1983), were based on *H. affine* Cardot & Thér. and *H. vaginatum* (Hook.) Brid., which are not here considered to be synonymous with *H. cylindraceum* var. *cylindraceum*.
- Hypnum jutlandicum* Holmen & E. Warncke. — The record for the island is based on the nomen nudum “*Hypnum afrocupressiforme* Müll. Hal.”, which O’Shea (2006) incorrectly cited as a synonym of *Hypnum cupressiforme* var. *ericetorum* Schimp. (synonym of *Hypnum jutlandicum*) based on a misinterpretation of Renauld & Cardot’s (1915) discussion of the species, and where it is clearly indicated as a synonym of *Hypnum cupressiforme* Hedw.
- Leptoscyphus amphibolius* (Nees) Grolle. — Reported only once by Montagne (1846: 251) as *Chiloscyphus amphibolius* (Nees) Nees., however, no herbarium specimens were cited and none could be located. The species is not known to occur in the Africa region.
- Leucobryum javense* (Brid.) Mitt. — The original record of this species from Réunion is from Bridel (1806) who cited a collection by Bory St. Vincent, from Réunion, in his original description of “*Sphagnum iridans*”. Unfortunately, along with the collection by Bory St. Vincent, Bridel further cited the type of an already published name, *Sphagnum javense* Brid. (synonym of *Leucobryum javense*), collected by Commerson in Java, making “*S. iridans*” a superfluous name that is illegitimate according to the Code (Turland *et al.* 2018: Art. 52.1). Bridel (1826), presumably aware of his error, later cited the Bory St. Vincent material as belonging with *S. javense* and indeed this was subsequently reflected in the arrangement of his herbarium at B (Zippel 2006). Beschereille (1880b) later designated the same Bory St. Vincent collection, which Bridel referred *S. javense*, as the type of *Leucobryum boryanum* Besch.
- Leucobryum juniperoideum* (Brid.) Müll. Hal. — Reported by Bridel (1826: 409), as *Dicranum juniperoideum* Brid. Specimens in PC originally referred to *L. juniperoideum* from Réunion island have been studied and redetermined by Q. Dejonghe as *Leucobryum isleanum*. Bonnot (1965), in “*Leucobryum juniperoideum* (Brid.) C. Müll. dans la bryoflore française,” considered specimens of *L. juniperoideum* from Réunion inseparable with those of *L. isleanum*, and unlike European material of *L. juniperoideum*. These findings are supported by a recent morpho-anatomical and molecular study by Dejonghe (unpublished).
- Leucobryum perrotii* Renauld & Cardot M. — Reported by Cardot (1904: 102). The only collection known for Réunion (PC [PC0080789!]) has been studied and is better referred to *Leucobryum mayottense*. In addition, morphological and molecular analyses of several samples taken in the area where this collection is thought to have been made, provide no support for the presence of the species on the island (Q. Dejonghe unpublished).
- Loeskeobryum brevirostre* (Brid.) M. Fleisch. ex Broth. — The record for this taxon is based on the name *Hypnum interruptum* Brid., which was published based on a Réunion type. Bridel (1819) later reduced *H. interruptum* to a variety of *Hypnum brevirostre* Brid. However, the resulting combination “*Hypnum brevirostre* var. *interruptum*” is illegitimate since *H. interruptum* is the older name. The authors of Index Muscorum mistakenly treated *Hypnum interruptum* and “*Hypnum brevirostre* var. *interruptum*” as heterotypic names, hence the latter combination has been treated as legitimate until now. O’Shea (2006) treated *H. interruptum* as a synonym of *Loeskeobryum brevirostre* while at the same time treating “*Hypnum brevirostre* var. *interruptum*” as a synonym of *Hylocomium splendens* (Hedw.) Schimp. The type material of *H. interruptum* in B is clearly not referable to *Hylocomium*

TABLE 1. — Summary, by division, of the number of Families, Genera, Species, Intraspecific taxa, Endemic species and percentage Endemism.

	Families	Genera	Species	Intraspecific taxa	Endemic species	Endemism (%)
Anthocerotophyta	4	6	9	—	—	—
Marchantiophyta	37	96	313	16	13	4.2
Bryophyta	62	184	500	16	36	7.2
Total	103	286	822	32	49	6

*splendens* but the name also predates both names in current use for *Loeskeobryum*. A new combination has therefore been made for the plants from Réunion (see Taxonomy section above).

*Marchantia debilis* K. I. Goebel. — Mentioned only once for Réunion by Perold (1999: 101), however, no herbarium specimens were cited and none could be located.

*Marchantia pappeana* Lehm. — Reported by Vána *et al.* (1979: 17) as *Marchantia parviloba* Steph. The specimens in BR determined by Vána as *M. parviloba* are better referred to *Marchantia globosa*.

*Phyllogonium fulgens* (Hedw.) Brid. var. *fulgens*. — O’Shea (2006) cites Lin (1983) as the origin of this record for the island, however, no specimens are cited and only the presence of *P. fulgens* (not *P. fulgens* var. *fulgens*) is indicated for Réunion. Similarly, Crosby *et al.* (1983) cites Muller (1851), however, Muller cited a single specimen for the island that Bescherelle (1880a) later based his description of *P. viscosum* fo. *viride* Besch. on. No other specimens or references are known for Réunion.

*Plagiochila blepharophora* (Nees) Lindenb. — Reported only once by Lindenberg (1840: 102), however, no herbarium specimens were cited and none could be located. The species is not known to occur in the Africa region.

*Plagiochila dichotoma* (P. Beauv.) Nees & Mont. — Reported only once by Gottsche *et al.* (1844: 36) as *P. dichotoma* var.  $\beta$ , however, no herbarium specimens were cited and none could be located.

*Plagiochila pseudoattenuata* S. W. Arnell — The record of *P. pseudoattenuata* by Kis *s.n.* (EGR) and reported by Ah-Peng (2007: 141) is now referred to *P. punctata*. See discussion of taxon in Wigginton (2018: 86).

*Plagiochila sticticola* Mont. & Gottsche — Reported by Bescherelle & Massalongo (1889: 209), however, no herbarium specimens were cited and none could be located. The species is not known to occur in the Africa region.

*Racopilum cuspidigerum* (Schwägr.) Ångstr. — No published reference or herbarium specimens found for Réunion, and otherwise not known from the region.

*Riccardia corbierei* (Steph.) Reeb & Gradst. <sup>M</sup> — No published reference or herbarium specimens found for Réunion, but described from Madagascar and otherwise present in the region.

*Sphagnum patens* Brid. <sup>R</sup> — Treated by Eddy (1985: 83) as a nomina ambigua because no type material could be located and the original description, which is inadequate for positive identification, could equally apply to a number of different species.

*Sphagnum tenellum* (Brid.) Bory — Reported by Bridel (1798: 24) and Bory de Saint Vincent (1804: 107) without reference to a specimen. The species has never since been reported for the island

and is otherwise not known to occur in Africa or the South West Indian Ocean Islands (Michaelis 2019: 352).

*Syrrhopodon albidus* subsp. *integrifolius* (E. B. Bartram) L. T. Ellis. — The specimen that this record is based on (*Orbán 9434/CH*, REU) was redetermined as *Syrrhopodon hispidocostatus* subsp. *artsii* L. T. Ellis (Wilbraham & Ellis 2010: 40).

## CONCLUSION

Eight hundred and twenty-two bryophyte species representing 103 families and 286 genera are reported from literature and herbarium specimens, including 500 mosses, 313 liverworts, and nine hornworts (Table 1). Compared to the 2005 checklist (Ah-Peng & Bardat 2005), the total number of species on the island has increased by approximately 30 %, and the number of genera by around 20 %. The family Lejeuneaceae is the most speciose liverwort family, comprising 40 % of the island’s total liverwort diversity. Other relatively well-represented families include Frullaniaceae, Lophocoleaceae, and Plagiochilaceae, each contributing around 5–7 % to the total liverwort diversity. Among mosses, the most speciose families are Dicranaceae, Pottiaceae, Fissidentaceae, Orthotrichaceae, Bryaceae, Hypnaceae, Calymperaceae, and Sematophyllaceae, which together account for 60 % of the island’s moss diversity. The number of species considered endemic to Réunion has gradually decreased over the past two decades as knowledge of the local and regional flora has expanded. Ah-Peng & Bardat (2005) listed 87 endemic taxa (specific and infraspecific), whereas today 59 taxa are considered endemic, comprising 13 liverwort species, 36 moss species, and 10 infraspecific moss taxa.

Future research on the island’s flora should focus on three main areas: 1) targeted collection of taxa and inventorying of poorly studied habitats; 2) identification of undetermined herbarium specimens in national and international herbaria; and 3) taxonomic revisions of poorly known taxa. Promoting local research on bryophytes is another important avenue. In this context, the development of easy-to-use electronic keys, as well as the organization of training and identification workshops, will help build local capacity among stakeholders and raise awareness of this understudied group.

## Acknowledgements

This work was facilitated by funding from the DEAL (Direction de l’Environnement de l’Aménagement et du Logement) for the projects REDBRYO and SINP974. Support for field work with use of the Field Research station of Mare Longue,

managed by the Observatory of Science of the Universe of Réunion is acknowledged. We thank the curators and staff of REU, BR and PC for providing access to their collections. Thanks to Chris Cargill for help confirming the new *Megaceros* record. We are grateful to the National Park of Réunion (PNR) for granting annual collecting permits since 2007, and to the forestry offices (ONF) for providing access to forest roads. We would like to thank members of the Conservatoire Botanique National de Mascarin, ONF, and PNR for their support and collaboration in field expeditions. We thank Haruna Fimmel (University of Halle) for her assistance with compiling data on type localities. The work of J. C. Brinda was partly supported by an invited professorship at the MNHN in Paris. The MNHN provided access to the collections through the RECOLNAT national research infrastructure. Terry A. J. Hedderson thanks the ERASMUS+ office (Project MIC UCT-UR) for its continuous support of his travels to Réunion to carry out collaborative fieldwork and training in tropical bryology. We thank Anders Hagborg, Lars Söderström and an anonymous reviewer for their helpful comments and corrections on the manuscript.

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Submitted on 6 November 2024;  
accepted on 18 March 2025;  
published on 17 April 2026.