

Check list of the bryophytes of Réunion Island (France)

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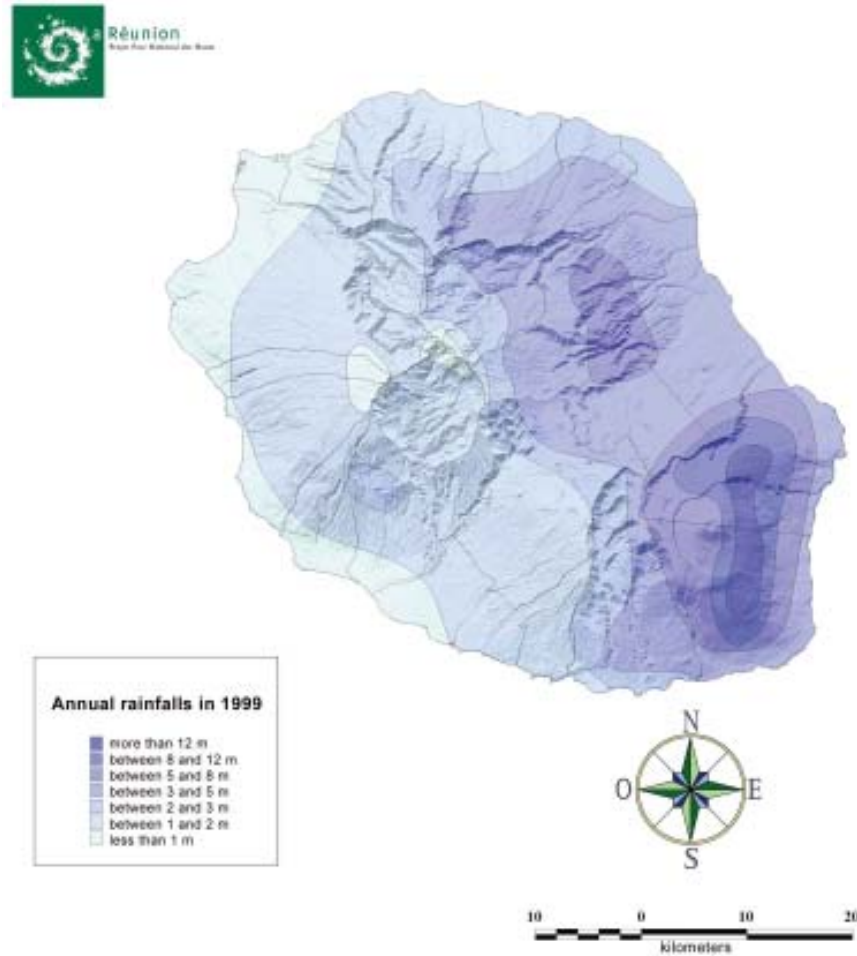
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Abstract: A systematic, literature-based compilation of bryophytes of Réunion Island has been made, with the additional examination of herbarium specimens. The list of 148 genera and 404 species and infraspecific taxa of mosses and 87 genera and 241 species and infraspecific taxa of hepatics and hornworts are here reported, including four mosses reported as new to Réunion.

Introduction

Réunion Island is a French overseas department in the western Indian Ocean. This tropical island in the southern hemisphere is the remnants of a huge volcano, with an elliptical shape and an area of 2511 km² with its highest point at Le Piton des Neiges (3069 m), and still retains one of the most active volcanoes in the world, the Piton de la Fournaise, which reaches 2631 m. The island is characterized by the presence of primary

ecosystems (forest, lands, altitudinal grass) in a good state of conservation for the occidental Indian Ocean area. The presence of the two big volcanoes leads to the presence of a high diversity of biotopes. The resulting biodiversity reflects both the variation in altitude and the volcanic activity. Finally, an important contrast in the rainfall increases even more the ecological gradient of the island.



Annual rainfalls of Réunion Island (Source: Mission Parc National, 2003)

At present, 30 % of the surface of the island is still covered by natural forests. A good knowledge of the specific and functional diversity is required for the conservation of primary vegetation. In the past, the bryoflora of the island was collected intermittently, and few results were published. Generally, previous authors produced monographs that comprise the whole archipelago of Mascarenes and Madagascar.

The first bryological inventory of Réunion Island dates to the end of the 19th century, when Bescherelle wrote the first

synthesis (Bescherelle 1878, 1880), followed by the works of Renauld (1897). Other researchers collected bryophytes in the 20th century, (Jovet-Ast, 1958; Een, 1976; Onraedt 1977; Een, 1989; Bischler 1990; Jovet-Ast 1993; Arts & Yamada 1998), and Müller (2000, 2002) in the 21st century. Crosby and Schultze-Motel (1983) published a check-list of the western Indian Ocean Islands.

Existing bibliographies do not furnish an adequate assessment of the bryological richness of the island. Frahm (2003) estimates for Réunion island 376 Musci and 227 Hepaticae.

The authors believe that these figures do not adequately represent the bryological richness of the island, and that it is necessary to update these data with the aim of promoting and opening research fields on the ecology of insular tropical bryophytes.

Methodology

In view of the phytogeographic interest in La Réunion island, this check list is intended to make available a summary of both Musci and Hepaticae reported in this area. This work is based on reports in the literature and has been mostly based on the recent publications of O'Shea (2003) and Wigginton (2002, 2004). Our compilation is divided into 3 parts: the list of the Musci, the list of Hepaticae and Hornworts, and finally a third part that will summarize the data into tables.

Generally, the **nomenclature** used refers to the works of O'Shea (2003) & Wigginton (2004). However, for the species of wide distribution and present notably in Europe (cosmopolitan or circumboreal species), we used for the Musci the nomenclature of Corley, Crundwell et al. (1981) and Corley & Crundwell (1991) and for the Hepaticae and Hornworts the work of Grolle & Long (2000). For example: *Sphagnum nemoreum* Scop. is mentioned with the name of *Sphagnum capillifolium* (Ehrh.) Hedw. var. *capillifolium*, another example is *Loeskeobryum brevirostre* (Brid.) M.Fleisch. ex Broth., mentioned as *Hylocomium brevirostre* (Brid.) Bruch, Schimp. & W.Gümbel

The **endemicity** proposed for the species is a strict endemicity for Réunion Island: this is indicated in the species list by the letter **B** for Bourbon, the former name of Réunion Island. However this criteria remains relative and depends on both collecting and taxonomic work on Réunion as well as in neighbouring areas. In the same way, the identification of some taxa should be treated cautiously: for example, the presence of the *Schistidium apocarpum* var. *apocarpum* (Hedw.) Bruch, Schimp. & W.Gümbel on the island was reported before the

publication of Blom (1996) on the *Schistidium apocarpum* complex, and thus should be verified. It is the same for such difficult families as *Lejeuneaceae* or *Aneuraceae*.

The **check list** is presented in this way:

- Synopses of genera for Musci, Hornworts and Hepaticae are made based on the work of O'Shea (2003) and Wigginton (2004).
- Families are arranged alphabetically within each order. The number of species for each genera is reported in brackets.
- The checklists are in alphabetical order of taxon name with the current name shown in bold italic font. Except for Jovet-Ast, the authorities of names follow Brummitt & Powell (1992).
- The number of species for each genera is reported in brackets.
- The reference that follows the species name is usually the first report of the occurrence of the taxon on the island, but otherwise follows the check list of O'Shea (2003) and Wigginton (2004).
- The references from herbarium specimens, when present, are cited as: locality, ecology, altitude, collection date, collector, determiner, herbarium number, herbarium!.
- Data was current at the end of February 2005.

Synopsis of families and genera for Musci

Family **Andreaeaceae**

Andreaea (2)

Family **Anomodontaceae**

Anomodon (2)

Family **Bartramiaceae**

Anacolia (1)

Bartramia (3)

Breutelia (6)

Leiomela (1)

Philonotis (8)

Family **Brachytheciaceae**

Brachythecium (5)

Eurhynchium (1)

Palamocladium (1)

Pseudoscleropodium (1)

Rhynchostegiella (1)

Rhynchostegium (3)

Squamidium (1)

Family **Bruchiaceae**

Trematodon (3)

Family **Bryaceae**

Anomobryum (1)

Brachymenium (5)

Bryum (9)

Rhodobryum (2)

Family **Calymperaceae**

Calymperes (4)

Leucophanes (3)

Syrrhopodon (12)

Family **Catagoniaceae**

Catagonium (1)

Family **Daltoniaceae**

Calypstrochaeta (1)

Daltonia (4)

Distichophyllum (1)

Family **Dicranaceae**

Anisothecium (1)

Aongstroemia (2)

Atractylocarpus (1)

Bryohumbertia (1)

Campylopus (22)

Dicranella (3)

Dicranoloma (3)

Holomitrium (4)

Leptotrichella (1)

Leucoloma (19)

Pseudephemerum (1)

Family **Ditrichaceae**

Ceratodon (1)

Ditrichum (2)

Garckea (1)

Family **Entodontaceae**

Entodon (3)

Family **Eustichiaceae**

Eustichia (1)

Family **Fabroniaceae**

Rhizofabronia (1)

Family **Fissidentaceae**

Fissidens (13)

Family **Funariaceae**

Entosthodon (2)

Funaria (3)

Physcomitrium (1)

Family **Grimmiaceae**

Grimmia (3)

Gymnostomiella (1)

Racomitrium (3)

Schistidium (1)

Family **Hedwigiaceae**

Hedwigidium (1)

Family Hookeriaceae	Family Neckeraceae
<i>Hookeria</i> (1)	<i>Homaliodendron</i> (1)
<i>Chaetomitrium</i> (1)	<i>Neckera</i> (1)
Family Hylocomiaceae	<i>Neckeropsis</i> (2)
<i>Hylocomium</i> (1)	<i>Pinnatella</i> (1)
Family Hypnaceae	<i>Porothamnium</i> (2)
<i>Ectropothecium</i> (5)	<i>Porotrichum</i> (3)
<i>Hypnum</i> (6)	Family Orthodontiaceae
<i>Isopterygium</i> (4)	<i>Orthodontium</i> (1)
<i>Mittenothamnium</i> (5)	Family Orthotrichaceae
<i>Phyllocladon</i> (2)	<i>Cardotiella</i> (2)
<i>Taxithelium</i> (1)	<i>Leiomitrium</i> (1)
<i>Vesicularia</i> (5)	<i>Macrocoma</i> (1)
Family Hypopterygiaceae	<i>Macromitrium</i> (10)
<i>Lopidium</i> (1)	<i>Schlotheimia</i> (13)
<i>Hypopterygium</i> (1)	<i>Ulota</i> (1)
Family Leptodontaceae	<i>Zygodon</i> (2)
<i>Leptodon</i> (1)	Family Pterigynandraceae
Family Leskeaceae	<i>Trachyphyllum</i> (1)
<i>Schwetschkea</i> (1)	Family Phyllogoniaceae
Family Leucobryaceae	<i>Phyllogonium</i> (3)
<i>Leucobryum</i> (5)	Family Pilotrichaceae
<i>Octoblepharum</i> (1)	<i>Callicostella</i> (2)
Family Leucodontaceae	<i>Cyclodictyon</i> (6)
<i>Felipponea</i> (1)	<i>Lepidopilidium</i> (3)
<i>Pterogonium</i> (2)	<i>Lepidopilum</i> (1)
Family Leucomiaceae	<i>Pilotrichella</i> (3)
<i>Leucomium</i> (1)	Family Plagiotheciaceae
Family Meteoriaceae	<i>Plagiothecium</i> (1)
<i>Aerobryidium</i> (1)	Family Polytrichaceae
<i>Aerobryopsis</i> (1)	<i>Atrichum</i> (1)
<i>Floribundaria</i> (2)	<i>Pogonatum</i> (7)
<i>Orthostichella</i> (1)	<i>Polytrichum</i> (3)
<i>Papillaria</i> (1)	Family Pottiaceae
Family Mniaceae	<i>Anoetangium</i> (4)
<i>Mielichhoferia</i> (1)	<i>Astomum</i> (1)
<i>Pseudopohlia</i> (1)	<i>Barbula</i> (2)
<i>Plagiomnium</i> (1)	<i>Bryoerythrophyllum</i> (1)

<i>Didymodon</i> (1)	<i>Trichosteleum</i> (4)
<i>Hymenostylium</i> (2)	<i>Warburgiella</i> (1)
<i>Hyophila</i> (1)	<i>Wijkia</i> (1)
<i>Leptodontium</i> (5)	Family Serpotortellaceae
<i>Leptophascum</i> (1)	<i>Serpotortella</i> (2)
<i>Pseudosymblepharis</i> (2)	Family Sphagnaceae
<i>Tortella</i> (2)	<i>Sphagnum</i> (14)
<i>Trichostomum</i> (5)	Family Splachnaceae
<i>Weissia</i> (3)	<i>Tayloria</i> (2)
Family Prionodontaceae	Family Stereophyllaceae
<i>Prionodon</i> (1)	<i>Stereophyllum</i> (1)
Family Pterobryaceae	Family Symphyodon
<i>Calyptothecium</i> (2)	<i>Symphyodon</i> (1)
<i>Hildebrandtiella</i> (2)	Family Thuidiaceae
<i>Jaegerina</i> (2)	<i>Pelekium</i> (1)
<i>Orthostichidium</i> (1)	<i>Thuidium</i> (3)
<i>Orthostichopsis</i> (5)	Family Trachypodaceae
Family Ptychomitriaceae	<i>Trachypodopsis</i> (1)
<i>Ptychomitrium</i> (1)	<i>Trachypus</i> (2)
Family Racopilaceae	
<i>Racopilum</i> (6)	
Family Rhabdoweisiaceae	
<i>Amphidium</i> (1)	
Family Rhacocarpaceae	
<i>Rhacocarpus</i> (1)	
Family Rhizogoniaceae	
<i>Pyrrhobryum</i> (2)	
Family Rutenbergiaceae	
<i>Rutenbergia</i> (2)	
Family Seligeriaceae	
<i>Blindia</i> (2)	
Family Sematophyllaceae	
<i>Acroporium</i> (1)	
<i>Macrohymenium</i> (1)	
<i>Meiothecium</i> (1)	
<i>Radulina</i> (1)	
<i>Rhaphidorrhynchium</i> (2)	
<i>Sematophyllum</i> (4)	

Synopsis of families and genera for Hepaticae and Hornworts

Division Marchantiophyta (Hepaticae, Liverworts)

Class MARCHANTIOPSIDA

Subclass Marchantiidae

Order MARCHANTIALES

Family Aytoniaceae

Asterella (1)

Plagiochasma (2)

Family Exormothecaceae

Exormotheca (1)

Family Marchantiaceae

Dumortiera (1)

Marchantia (3)

Family Ricciaceae

Riccia (4)

Family Targioniaceae

Targionia (1)

Family Wiesnerallaceae

Wiesnerella (2)

Class JUNGERMANNIOPSIDA

Subclass Metzgeriidae

Order METZGERIALES

Family Aneuraceae

Aneura (1+3*)

Riccardia (5)

Family Fossombroniaceae

Fossombronia (4)

Family Metzgeriaceae

Metzgeria (5)

Family Pallaviciniaceae

Jensenia (1)

Pallavicinia (1)

Symphyogyna (2)

Symphyogynopsis (1)

Subclass Jungermanniidae

Order JUNGERMANNIALES

Family Acrobolbaceae

Lethocolea (1)

Marsupidium (1)

Tylimanthus (1)

Family Adelanthaceae

Adelanthus (2)

Family Arnelliaceae

Gongylanthus (2)

Family Balantiopsaceae

Isotachis (1)

Family Calypogeiaceae

Calypogeia (6)

Mnioloma (1)

Family Cephaloziaceae

Cephalozia (1)

Iwatsukia (1)

Odontoschisma (1)

Family **Cephaloziellaceae***Allisoniella* (1)*Cephaloziella* (2)*Kymatocalyx* (1)Family **Exomorthecaceae***Exomortheca* (1)Family **Geocalycaceae***Clasmatocolea* (1)*Conoscyphus* (1)*Geocalyx* (1)*Heteroscyphus* (3)*Leptoscyphus* (1)*Lophocolea* (10)Family **Gymnomitriaceae***Marsupella* (1)Family **Herbertaceae***Herbertus* (2)Family **Jubulaceae***Frullania* (17)Family **Jungermanniaceae***Anastrophyllum* (2)*Andrewsianthus* (1)*Cryptochila* (1)*Gottschelia* (1)*Jamesoniella* (2)*Jungermannia* (5)*Nardia* (1)*Notoscyphus* (1)*Plicanthus* (1)*Syzygiella* (1)Family **Lejeuneaceae****Ptychanthoideae****Ptychantheae***Acrolejeunea* (2)*Bryopteris* (1)*Lopholejeunea* (9)*Marchesinia* (1)*Mastigolejeunea* (3)*Schiffneriolejeunea* (3)*Thysananthus* (1)**Lejeuneoideae****Brachiolejeuneae***Acanthocoleus* (1)*Odontolejeunea* (1)*Stictolejeunea* (1)**Cololejeuneae***Cololejeunea* (15)*Colura* (5)*Diplasiolejeunea* (1)**Lejeuneae***Ceratolejeunea* (2)*Cheilolejeunea* (10)*Drepanolejeunea* (4)*Haplolejeunea* (1)*Lejeunea* (10)*Lepidolejeunea* (1)*Leucolejeunea* (2)*Microlejeunea* (1)*Prionolejeunea* (1)*Taxilejeunea* (2)Family **Lepidoziaceae***Arachniopsis* (2)*Bazzania* (4)*Kurzia* (1)*Lepidozia* (1)*Telaranea* (1)Family **Mastigophoraceae***Mastigophora* (1)Family **Plagiochilaceae***Plagiochila* (18)Family **Pleuroziaceae***Pleurozia* (1)Family **Porellaceae***Porella* (2)Family **Radulaceae***Radula* (12)Family **Schistochilaceae***Gottschea* (2)

Division Anthocerotophyta (Hornworts)

Class ANTHOCEROTOPSIDA

Order ANTHOCEROTALES

Family **Dendrocerotaceae**Family **Anthocerotaceae***Dendroceros* (1)*Anthoceros* (1)*Phaeoceros* (1)

Musci reported from Réunion Island

Taxa

Andreaeaceae*Andreaea borbonica* Besch. (Een 1993a)*Andreaea tsaratananae* Thér. (Een 1993a)**Anomodontaceae***Anomodon pseudotristis* (Müll.Hal.) Kindb. (Müller 2000)*Anomodon tristis* (Ces.) Sull. & Lesq. (Müller 2002)**Bartramiaceae***Anacolia laevisphaera* Taylor (Een 1993a)*Bartramia gigantea* Bory (Fransén 2004)*Bartramia ithyphylla* subsp. *patens* (Brid.) Fransén (Een 1993a, Fransén 2004)*Bartramia longifolia* Hook. (Een 1993; Fransén 2004)*Breutelia borbonica* De Sloover (Een 1993a)*Breutelia gnaphalea* (P.Beauv.) Mitt. (Een 1993a)*Breutelia magdalenae* De Sloover (Een 1993a)*Breutelia perrieri* Thér. (Een 1993a)*Breutelia stenodictyon* (Renauld & Cardot) Broth. (Een 1993a)*Breutelia stuhlmannii* Broth. (de Sloover 1975)*Leiomela bartramioides* (Hook.) Paris (Een 1993a)*Philonotis bescherellei* Thér., **B** (Een 1993a)*Philonotis gracilescens* Schimp. (Een 1993a)*Philonotis hastata* (Duby) Wijk & Margad. (Een 1993a)*Philonotis mauritiana* Ångstr. (Een 1993a)*Philonotis perigonalis* Besch., **B** (Een 1993a)*Philonotis scabrifolia* (Hook.f. & Wilson) Braithw. (Müller & Schäfer-Verwimp 1999)*Philonotis submarchica* Besch., **B** (Een 1993a)*Philonotis submarchica* var. *plumosa* Renauld & Cardot, **B** (Een 1993a)**Brachytheciaceae***Brachythecium borgenii* (Hampe) A.Jaeger (Een 1993a, 1997)*Brachythecium chauvetii* Renauld & Cardot, **B** (Een 1993a, 1997)*Brachythecium decurrens* Cardot (Een 1997)*Brachythecium plumosum* (Hedw.) Bruch, Schimp. & W.Gümbel (Een 1997)*Brachythecium valentinii* Besch., **B** (Een 1993a)*Eurhynchium acicladium* Besch., **B** (Een 1993a)*Palamocladium leskeoides* (Hook.) E. Britton (Townsend 1969; Een 1993a, 1997; Hofmann 1997)*Pseudoscleropodium purum* (Hedw.) M.Fleisch. (Een 1993a, 1997)

Rhynchostegiella tenelliformis (Renauld & Cardot) Broth., **B** (Een 1993a, 1997)
Rhynchostegium comorae (Müll.Hal.) A. Jaeger (Een 1997)
Rhynchostegium distans Besch. (Een 1997)
Rhynchostegium pseudodistans Cardot (Een 1997)
Squamidium brasiliense (Hornsch.) Broth. (Allen & Crosby 1986; Een 1993a; Delgadillo M. 1995)

Bruchiaceae

Trematodon borbonicus Besch., **B** (Een 1993a)
Trematodon paradoxus Hornsch. (Een 1993a)
Trematodon subambiguus Besch. (Een 1993a)

Bryaceae

Anomobryum laceratum Besch., **B** (Ochi 1972) (Een 1993a)
Brachymenium eurychelium Besch. (Ochi 1972)
Brachymenium exile (Dozy & Molk.) Bosch & Sande Lac. (Shaw, Allen et al. 1998)
Brachymenium leptophyllum (Bruch & Schimp. ex Müll.Hal.) Bruch & Schimp. ex A.Jaeger (Müller 2000)
Brachymenium pulchrum Hook. (Een 1993a)
Brachymenium spathidophyllum Besch., **B** (Een 1993a)
Bryum apiculatum Schwägr. (Ochi 1972; Een 1993a)
Bryum argenteum var. *argenteum* Hedw. (Ochi 1972; Een 1993a)
Bryum argenteum var. *submuticum* Besch., **B** (Een 1993a)
Bryum aubertii (Schwägr.) Brid. (Ochi 1972)
Bryum billardierei var. *billardierei* Schwägr. (Ochi 1972; Mohamed 1979; Een 1993a)
Bryum cadetii Bizot & Onr., **B** (Bizot 1974; Een 1993a)
Bryum cellulare Hook. (Ochi 1973; Een 1993a; Delgadillo M. 1995)
Bryum coronatum Schwägr. (Een 1993a)
Bryum pseudotriquetrum var. *pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Scherb. (Müller 2000)
Rhodobryum commersonii (Schwägr.) Brid. (Ochi 1972; Een 1993a)
Rhodobryum giganteum (Schwägr.) Paris (Een 1993a)

Calympereaceae

Calymperes hispidum Renauld & Cardot (Een 1993a)
Calymperes palisotii Schwägr. (Müller 2000)
Calymperes taitense (Sull.) Mitt. (Een 1993a; Orbán 1995)
Leucophanes angustifolium Renauld & Cardot (Een 1993a; Salazar Allen 1993a, b)
Leucophanes hildebrandtii Müll.Hal. (Een 1993a)
Leucophanes rodriguezii Müll.Hal. (Salazar Allen 1993a)
Syrrhopodon armatus ssp. *insularus* (Bizot & Onr.) Orbán & W.D.Reese (Orbán 1977)
Syrrhopodon asper Mitt. (Een 1993a)
Syrrhopodon gardneri (Hook.) Schwägr. (Orbán 1981; Een 1993a)
Syrrhopodon gaudichaudii Mont. (Orbán 1981)
Syrrhopodon involutus Schwägr. (Orbán 1981)
Syrrhopodon mahensis var. *mahensis* Besch., **B** (Een 1993a)
Syrrhopodon mauritanus Müll.Hal. ex Ångstr. (Orbán 1978, 1981)
Syrrhopodon parasiticus (Brid.) Besch. (Müller 2002)
Syrrhopodon prolifer var. *acanthoneuros* (Müll.Hal.) Müll.Hal. (Orbán 1981)
Syrrhopodon prolifer var. *hispidocostatus* (Renauld & Cardot in Renauld) Orbán & W.D.Reese (Orbán 1981)
Syrrhopodon prolifer var. *prolifer* Schwägr. (Een 1993a)

Syrrhopodon prolifer var. *seychellarum* Orbán, 14 Km W of Ste Anne, Ravine d' Etang, 21°5'20"S, 55°38'10"E, very wet forest with many tree ferns, and rocks affected by the spray of the huge Annette falls at 530-560 m alt., 29th august 1994, Orbán 9434/CH; det. Orbán, REU!
Syrrhopodon rodriguezii Renauld & Cardot, **B** (Orbán 1981)

Catagoniaceae

Catagonium nitens ssp. *nitens* (Brid.) Cardot (Lin 1984; Een 1993a, 1997)

Daltoniaceae

Calyptrochaeta asplenioides (Brid.) Crosby (Een 1993a)
Daltonia angustifolia var. *angustifolia* Dozy & Molk. (Een 1993a)
Daltonia latimarginata Besch. (Een 1993a)
Daltonia onraedtii Bizot, **B** (Bizot 1974; Een 1993a)
Distichophyllum mascarenicum Besch. (Een 1993a)

Dicranaceae

Anisothecium cardotti (R.Br.bis) Ochyra (Müller 2002)
Aongstroemia filiformis (P.Beauv.) Wijk & Margad. (Een 1993a) (Delgadillo M. 1995)
Aongstroemia julacea (Hook.) Mitt. (Een 1993a)
Atractylocarpus madagascariensis (Thér.) Padberg & J.-P.Frahm (Townsend 1987)
Bryohumbertia filifolia var. *filifolia* (Hornschn.) J.-P.Frahm (Een 1993a)
Campylopus arcocarpus ssp. *madecassus* (Besch.) J.-P.Frahm (Frahm 1985)
Campylopus arcuatus (Brid.) A.Jaeger (Frahm 1985)
Campylopus aureonitens (Müll.Hal.) A. Jaeger (Frahm 1985)
Campylopus bartramiaceus (Müll.Hal.) Thér. (Een 1993a)
Campylopus crateris Besch. (Crosby, Schultze-Motel et al. 1983; Frahm 1985)
Campylopus flexuosus var. *flexuosus* (Hedw.) Brid. (Frahm 1985)
Campylopus flexuosus var. *incacorrals* (Herzog) J.-P.Frahm (Een 1989)
Campylopus fragilis ssp. *fragilis* (Brid.) Bruch, Schimp. & W.Gümbel (Een 1993a)
Campylopus hildebrandtii (Müll.Hal.) A.Jaeger (Frahm 1985; Een 1989)
Campylopus introflexus (Hedw.) Brid. (Frahm 1985)
Campylopus jamesonii (Hook.) A.Jaeger (Crosby, Schultze-Motel et al. 1983; Frahm 1985)
Campylopus julaceus ssp. *arbogastii* (Renauld & Cardot) J.-P.Frahm (Frahm 1985)
Campylopus nanophyllus Müll.Hal. ex Broth. (Frahm 1985)
Campylopus nivalis var. *nivalis* (Brid.) Brid. (Frahm 1985)
Campylopus pilifer ssp. *pilifer* Brid. (Frahm 1985)
Campylopus praetermissus J.-P.Frahm (Een 1989)
Campylopus pyriformis var. *pyriformis* (Schultz) Brid. (Een 1989)
Campylopus robillardii Besch. (Frahm 1985)
Campylopus schmidii (Müll.Hal.) A.Jaeger (Crosby, Schultze-Motel et al. 1983; Frahm 1985)
Campylopus smaragdinus (Brid.) A.Jaeger (Bizot 1974; Frahm 1985)
Campylopus thwaitesii (Mitt.) A.Jaeger (Frahm 1985)
Campylopus trachylepharon ssp. *comatus* (Renauld & Cardot) J.-P.Frahm (Een 1989)
Dicranella cratericola Besch., **B** (Een 1993a)
Dicranella flavipes Besch., **B** (Een 1993a)
Dicranella subsubulata (Hampe ex Müll.Hal.) A.Jaeger (Müller 2000)
Dicranoloma billardierei (Brid. ex Anon.) Paris (Een 1993a)
Dicranoloma billardierei var. *scopareolum* (Müll.Hal.) Thér. (Een 1993a)
Dicranoloma borbonicum Renauld & Cardot, **B** (Een 1993a)
Holomitrium borbonicum Besch. (Een 1993a)
Holomitrium borbonicum var. *hamatum* (Müll.Hal.) Thér. (Een 1993a)
Holomitrium cylindraceum var. *cucullatum* (Besch.) Wijk & Margad. (Een 1993a)

- Holomitrium cylindraceum* var. *cylindraceum* (P.Beauv.) Wijk & Margad. (Een 1993a)
Leptotrichella lutaria (Besch.) Ochyra, **B** (Een 1993a)
Leucoloma bifidum (Brid.) Brid. (La Farge 2002a)
Leucoloma boivinianum var. *boivinianum* Besch. (Een 1993a)
Leucoloma candidulum Besch. (Een 1993a)
Leucoloma capillifolium Renauld, La Réunion Plaine des Osmondes dans l'enclos de la Fournaise, sur les arbres ou arbustes, alt 900 m, 14/12/1970, Leg. Gimalac, det. Bizot, N° MNHN 17204, PC !
Leucoloma cinclidotioides Besch. (Een 1993a; La Farge 2002a)
Leucoloma cirrosulum Renauld, Mare Longue, sur troncs morts couchés, 100 m, rec. Cadet; det. Bizot (1.02.1972), N° MNHN 19401, PC !
Leucoloma fuscifolium Besch. (Een 1993a)
Leucoloma fuscifolium var. *crispatum* Renauld (Een 1993a)
Leucoloma lepervancheri Besch. (Een 1993a; La Farge 2002a)
Leucoloma longifolium (Brid.) Wijk & Margad. (Een 1993a; La Farge 2002b)
Leucoloma mafatense Renauld, **B** (Een 1993a; La Farge 2002a)
Leucoloma membranaceum La Farge
Leucoloma onraedtii La Farge, **B** (Bizot 1974; Een 1993a; La Farge 2002b)
Leucoloma persecundum Besch. Bourbon, Leg. Rodriguez, Herbarium Renauld, PC !
Leucoloma rutenbergii var. *elatum* Renauld (Een 1989)
Leucoloma sanctae-mariae Besch., Réunion, Herbarium Bizot 8470, N° MNHN 21046, PC !
Leucoloma seychellense Besch. (Een 1993a; La Farge 2002a)
Leucoloma sinuosulum Müll.Hal. ex Besch. (Een 1993a)
Leucoloma subcespitulans Besch., **B** (Een 1993a)
Pseudophemerum nitidum (Hedw.) Reimers (Müller 2000)

Ditrichaceae

- Ceratodon purpureus* ssp. *convolutus* (Reichardt) Burley (Burley & Pritchard 1990; Een 1993a)
Ditrichum difficile (Duby) M.Fleisch. (Een 1993a)
Ditrichum punctulatum Mitt. (Müller 2000)
Garckea flexuosa (Griff.) Margad. & Nork. (Een 1993a)

Entodontaceae

- Entodon dregeanus* var. *borbonicus* Renauld & Cardot, **B** (Een 1993a)
Entodon geminidens (Besch.) Broth. (Buck 1980)
Entodon macropodus (Hedw.) Müll.Hal. (Een 1997)

Eustichiaceae

- Eustichia longirostris* (Brid.) Brid. (Een 1993a)

Fabroniaceae

- Rhizofabronia persoonii* var. *persoonii* (Schwägr.) M.Fleisch. (Een 1993a, 1997)

Fissidentaceae

- Fissidens asplenioides* Hedw. (Een 1993a)
Fissidens brevifrons Mitt. (Bizot 1974; Een 1993a)
Fissidens crispulus Brid. (Bruggeman-Nannenga 1997)
Fissidens darntyi Schimp. (Een 1993a)
Fissidens ellipticus Besch. (Een 1993a)
Fissidens intramarginatus (Hampe) Mitt. (Een 1993a)
Fissidens ovatus Brid. (Een 1993a)
Fissidens palmifolius (P.Beauv.) Broth. (Pursell 1987; Een 1993a)
Fissidens pellucidus var. *pellucidus* Hornsch. (Bruggeman-Nannenga 1993)
Fissidens planifrons Besch. (Blockeel, Arts et al. 2003)
Fissidens plumosus Hornsch. (Een 1993a)

- Fissidens pseudoplumosus* Bizot & Onr., **B** (Bizot 1974; Een 1993a)
Fissidens sciophyllus fo. *sciophyllus* Mitt. (Bruggeman-Nannenga 1993)
- Entosthodon borbonicus* Besch. (Een 1993a)
Entosthodon lepervanchei Besch., **B** (Een 1993a)
Funaria hygrometrica var. *calvescens* (Schwägr.) Kindb. (Een 1993a)
Funaria hygrometrica var. *hygrometrica* Hedw. (Een 1993a)
Funaria hygrometrica var. *mauritianae* (Besch.) Paris (Een 1993a)
Physcomitrium spathulatum var. *spathulatum* (Hornsch.) Müll.Hal. (Müller 2000)

Funariaceae

- Grimmia elongata* Kaulf. (Een 1993a; Muñoz 1999)
Grimmia laevigata (Brid.) Brid. (Een 1993a)
Grimmia longirostris Hook. (Grev. 1996; Muñoz 1998)
Gymnostomiella vernicosa var. *tenerum* (Müll.Hal. ex Dusén) Arts (Arts 1998)
Racomitrium lanuginosum (Hedw.) Brid. (Een 1993a)
Racomitrium membranaceum (Mitt.) Paris (de Sloover 1977; Ochyra & Hertel 1990; Een 1993a)
Racomitrium subsecundum (Hook. & Grev.) Mitt. & Wilson (Een 1993a)
Schistidium apocarpum var. *apocarpum* (Hedw.) Bruch, Schimp. & W.Gümbel (Een 1993a)

Grimmiaceae

Hedwigiaceae

- Hedwigidium integrifolium* (P.Beauv.) Dixon in C.E.O.Jensen (Een 1993a)

Hookeriaceae

- Hookeria splachnifolia* (Brid.) Arn., **B** (Een 1993a)
Chaetomitrium borbonicum Besch. (Een 1993a)

Hylocomiaceae

- Hylocomium brevirostre* (Brid.) Bruch, Schimp. & W.Gümbel (Een 1993a)

Hypnaceae

- Ectropothecium occultum* Renaud & Cardot (Een 1993a)
Ectropothecium regulare (Brid.) A. Jaeger (Een 1993a, 1997)
Ectropothecium regulare var. *laxitextum* Thér., **B** (Een 1993a)
Ectropothecium valentinii Besch. (Een 1993a)
Ectropothecium viridulum (Brid.) A. Jaeger, **B** (Een 1993a)
Hypnum bicolor Bél., **B** (Een 1993a)
Hypnum boryanum Schwägr., **B** (Een 1993a)
Hypnum cupressiforme var. *cupressiforme* Hedw. (Een 1997)
Hypnum jutlandicum Holmen & E.Warncke (Een 1993a)
Hypnum macrogynum Besch. (Een 1993a, 1997)
Hypnum radiatum Schwägr., **B** (Een 1993a)
Isopterygium citrinellum Renaud & Cardot, **B** (Een 1993a)
Isopterygium intortum (P.Beauv.) A. Jaeger (Een 1993a)
Isopterygium molle Thér., **B** (Een 1993a)
Isopterygium radicans (Brid.) A. Jaeger, **B** (Een 1993a)
Mittenothamnium bescherellei (Renaud & Cardot) Cardot, **B** (Een 1993a)
Mittenothamnium limosum (Besch.) Cardot (Een 1993a)
Mittenothamnium madagassum (Besch.) Cardot (Een 1993a, 1997)
Mittenothamnium microthamnioides (Geh.) Wijk & Margad. (Een 1997)
Mittenothamnium reptans (Hedw.) Cardot (Een 1993a, 1997)
Phyllodon perplanicaulis (Broth.) Kis (Kis 2002)
Phyllodon truncatulus (Müll. Hal.) W.R.Buck (Kis 2002)
Taxithelium pseudo-amoenum (Bél.) Renaud (Een 1993a)

- Vesicularia galerulata* (Duby) Broth. (Een 1993a)
Vesicularia lepervanchei (Besch.) Broth. (Een 1993a)
Vesicularia rodriguezii (Renauld & Cardot) Broth., **B** (Een 1993a)
Vesicularia scaturigina (Brid.) Broth. (Een 1993a)
Vesicularia subsphaerica (Müll.Hal.) Broth., **B** (Een 1993a)
- Hypopterygiaceae**
- Hypopterygium tamarisci* (Sw. ex Sw.) Brid. ex Müll.Hal. (Een 1993a; Kruijer 1997, 2002)
Lopidium struthiopteris (Brid.) M.Fleisch. (Een 1993a, 1997; Kruijer 1997, 2002)
- Leptodontaceae**
- Leptodon fuciformis* (Brid.) Enroth (Enroth 1992; Een 1993a)
- Leskeaceae**
- Schwetschkea grateloupii* (Mont.) Müll.Hal. (Een 1993a)
- Leucobryaceae**
- Leucobryum javense* (Brid.) Mitt., **B** (Een 1993a)
Leucobryum juniperoideum (Brid.) Müll.Hal. (Een 1993a)
Leucobryum boryanum Besch. (Een 1993a)
Leucobryum isleanum Besch. (Een 1993a)
Leucobryum mayottense Cardot (Een 1993a)
Octoblepharum albidum Hedw. (Een 1993a)
- Leucodontaceae**
- Felipponea assimilis* (Müll.Hal.) O'Shea (Een 1976, 1993a)
Pterogonium gracile (Hedw.) Sm. (Een 1993a, 1997)
Pterogonium gracile var. *madagassum* (Geh.) M.Fleisch. (Een 1993a)
- Leucomiaceae**
- Leucomium strumosum* (Hornsch.) Mitt. (Müller 2000)
- Meteoriaceae**
- Aerobryidium subpiligerum* var. *majus* (Renauld & Cardot) Wijk & Margad., **B** (Een 1993a)
Aerobryopsis capensis (Müll.Hal.) M.Fleisch. (Een 1993a)
Floribundaria floribunda (Dozy & Molk.) M.Fleisch. (Een 1993a)
Floribundaria vaginans (Welw. & Duby) Broth. (Een 1993a, 1997)
Orthostichella pentasticha (Brid.) W.R.Buck (Een 1993a)
Papillaria africana (Müll.Hal.) A. Jaeger (Een 1993a, 1997)
- Mniaceae**
- Mielichhoferia borbonica* Thér., **B** (Een 1993a)
Plagiomnium rhynchophorum var. *rhynchophorum* (Hook.) T.J.Kop. (Koponen 1981; Een 1993a)
Pseudopohlia microstoma (Harv.) Mizush. (Een 1993a)
- Neckeraceae**
- Homaliodendron exiguum* (Bosch & Sande Lac.) M.Fleisch. (Een 1993a)
Neckera valentiniana Besch. (Een 1993a)
Neckeropsis lepineana (Mont.) M.Fleisch. (Een 1993a)
Neckeropsis madecassa (Besch.) M.Fleisch. (Enroth 1993)
Pinnatella minuta (Mitt.) Broth. (Enroth 1994)
Porothamnium stipitatum (Mitt.) Touw ex De Sloover (de Sloover 1983; Een 1993a)
Porothamnium variifolioides De Sloover (de Sloover 1983)
Porotrichum elongatum (Welw. & Duby) A.Gepp (de Sloover 1983)
Porotrichum madagassum Kiaer ex Besch. (de Sloover 1983; Een 1997)
Porotrichum usagarum Mitt. (de Sloover 1983)
- Orthodontiaceae**
- Orthodontium loreifolium* Besch. (Een 1993a)

Orthotrichaceae

- Cardotiella appendiculata* (Renauld & Cardot) Vitt (Een 1993a)
Cardotiella subappendiculata (Broth.) Vitt (Vitt 1981)
Leiomitrium plicatum (P.Beauv.) Mitt. (Een 1993a)
Macrocoma tenuis ssp. *tenuis* (Hook. & Grev.) Vitt (Een 1993a)
Macromitrium belangeri Müll.Hal., **B** (Een 1993a)
Macromitrium fasciculare Mitt. (Een 1993a)
Macromitrium fimbriatum (P.Beauv.) Schwägr. (Een 1993a)
Macromitrium gimalacii Bizot & Onr., **B** (Een 1993a)
Macromitrium mauritanum Schwägr. (Een 1993a)
Macromitrium pallidum (P.Beauv.) Wijk & Margad. (Een 1993a)
Macromitrium rufescens Besch. (Een 1993a)
Macromitrium scleropodium Besch. (Een 1993a)
Macromitrium serpens (Bruch ex Hook. & Grev.) Brid. (Een 1993a)
Macromitrium voeltzkowii Broth. (Een 1993a)
Schlotheimia angulosa P.Beauv. (Een 1993a)
Schlotheimia badiella Besch. (Een 1993a)
Schlotheimia badiella var. *helicophylla* Besch. (Een 1993a)
Schlotheimia badiella var. *longicaulis* Besch., **B** (Een 1993a)
Schlotheimia brachyphylla Renauld & Cardot, **B** (Een 1993a)
Schlotheimia fornicata Duby (Een 1993a)
Schlotheimia illecebra Schimp. ex Besch. (Een 1993a)
Schlotheimia malacophylla Besch. (Een 1993a)
Schlotheimia microcarpa Geh. (Een 1993a)
Schlotheimia richardii Besch. (Een 1993a)
Schlotheimia robillardii Duby (Een 1993a)
Schlotheimia squarrosa Brid. (Delgadillo M. 1995)
Schlotheimia subfornicata Thér. (Een 1993a)
Ulota fulva Brid. (Een 1993a)
Zygodon intermedius Bruch, Schimp. & W.Gümbel (Een 1993b)
Zygodon reinwardtii (Hornsch.) A.Braun (Een 1993a)

Trachyphyllum inflexum (Harv.) A.Gepp (Buck 1979)

Pterigynandraceae

Phyllogoniaceae

- Phyllogonium fulgens* var. *fulgens* (Hedw.) Brid., **B** (Lin 1983; Een 1993a)
Phyllogonium viride Brid., **B** (Lin 1983)
Phyllogonium viscosum (P.Beauv.) Mitt. (Lin 1983, 1985; Een 1993a; Delgadillo M. 1995)

Pilotrichaceae

- Callicostella fissidentella* (Besch.) Kindb. (Een 1993a)
Callicostella salaziae (Besch.) Broth. (Een 1993a)
Cyclodictyon albicans (Hedw.) Kuntze, **B** (Een 1993a)
Cyclodictyon aubertii (P.Beauv.) Kuntze (Een 1993a, 1997)
Cyclodictyon borbonicum (Besch.) Broth. (Een 1993a)
Cyclodictyon brevifolium Broth. (Een 1993a)
Cyclodictyon perrottetii Demaret & P.de La Varde, **B** (Een 1993a)
Cyclodictyon vesiculosum (Brid.) Kuntze (Een 1993a)
Lepidopilidium cespitosum (Besch.) Broth. (Een 1993a, 1997)
Lepidopilidium flexuosum (Besch.) Paris, **B** (Een 1993a, 1997)
Lepidopilidium isleanum (Besch.) Broth., **B** (Een 1993a)
Lepidopilum hirsutum Besch., **B** (Een 1993a)

Pilotrichella isleana var. *isleana* Besch. (Een 1993a, 1997)
Pilotrichella mascarenica (Müll.Hal.) A. Jaeger (Een 1993a)
Pilotrichella phleoides (Brid.) A. Jaeger, **B** (Een 1993a)

Plagiotheciaceae

Plagiothecium nitens Dixon (Een 1997)

Polytrichaceae

Atrichum androgynum (Müll.Hal.) A. Jaeger (Een 1993a) (de Sloover 1986)
Pogonatum belangeri (Müll.Hal.) A. Jaeger (Hyvönen 1989)
Pogonatum convolutum (Hedw.) P.Beauv. (de Sloover 1986; Hyvönen 1989)
Pogonatum gracilifolium Besch. (Hyvönen 1989)
Pogonatum perichaetiale ssp. *oligodus* (Müll.Hal.) Hyvönen (de Sloover 1986; Hyvönen 1989)
Pogonatum proliferum (Griff.) Mitt. (Een 1993b, a)
Pogonatum urnigerum (Hedw.) P.Beauv. (Müller 2002)
Pogonatum usambaricum (Broth.) Paris (Hyvönen 1989)
Polytrichum commune var. *commune* Hedw. (de Sloover 1986)
Polytrichum piliferum Hedw. (Müller & Schäfer-Verwimp 1999)
Polytrichum subpilosum P.Beauv. (de Sloover 1986; Een 1993a)

Pottiaceae

Anoetangium aestivum (Hedw.) Mitt. (Sollman & Een 1996)
Anoetangium borbonense Besch. (Een 1993a)
Anoetangium mafatense Renauld & Cardot (Een 1993a)
Anoetangium raphidostegium Besch. (Een 1993a)
Astomum borbonicum Bizot & Onr., **B** (Een 1993a) (Bizot 1974)
Barbula indica var. *indica* (Hook.) Spreng. in Steud. (Sollman & Een 1996)
Barbula unguiculata Hedw. (Müller 2000)
Bryoerythrophyllum campylocarpum (Müll.Hal.) H. A. Crum (Sollman & Een 1996)
Didymodon maschalogenus (Renauld & Cardot) Broth. (Een 1993b)
Hymenostylium recurvirostrum (Hedw.) Dixon (Müller 2002)
Hymenostylium scaturiginosum (Müll.Hal.) Broth. (Een 1993a)
Hyophila involuta (Hook.) A. Jaeger (Een 1993a; Sollman & Een 1996)
Leptodontium flexifolium (Dicks.) Hampe (de Sloover 1987)
Leptodontium longicaule ssp. *stellatum* (Brid.) De Sloover (de Sloover 1987)
Leptodontium longicaule var. *longicaule* Mitt. (de Sloover 1987; Delgadillo M. 1995)
Leptodontium longicaule var. *microruncinatum* (Dusén) R.H.Zander, (Een 1993b, Delgadillo, 1995)
Leptodontium pungens (Mitt.) Kindb. (de Sloover 1987)
Leptodontium viticulosoides var. *viticulosoides* (P.Beauv.) Wijk & Margad. (de Sloover 1987; Een 1993a; Delgadillo M. 1995)
Leptophascum leptophyllum (Müll.Hal.) J. Guerra & M.J.Cano (Müller 2000)
Pseudosymblepharis bombayensis (Müll.Hal.) P.Sollm. (Sollman & Een 1996)
Pseudosymblepharis circinnatula (Broth. in Voeltzk.) R.H.Zander (Een 1993a)
Tortella humilis (Hedw.) Jenn. (Müller & Schäfer-Verwimp 1999)
Tortella vernicosa (Renauld & Cardot) Broth., **B** (Een 1993a)
Trichostomum brachydontium ssp. *mutabile* (Bruch) Giacom., **B** (Een 1997)
Trichostomum brachydontium var. *brachydontium* Bruch (Een 1993a; Sollman & Een 1996)
Trichostomum cardotii Bizot, **B** (Een 1993a)
Trichostomum crispulum var. *crispulum* Bruch (Müller 2000)
Trichostomum tenuirostre var. *tenuirostre* (Hook. & Taylor) Lindb. (Een 1993a)
Weissia ayresii Schimp. (Een 1993a)
Weissia controversa var. *controversa* Hedw. (Een 1993a)

Weissia ricciae Brid., **B** (Een 1993a)

Prionodontaceae

Prionodon ciliatus Besch. (Een 1993a, 1997)

Pterobryaceae

Calyptothecium acutifolium var. *acutifolium* (Brid.) Broth. (Argent 1973; Een 1993a)

Calyptothecium acutifolium var. *antitrichioides* (Besch.) Paris (Argent 1973; Een 1993a)

Hildebrandtiella pachyclada Besch. (Argent 1973; Een 1993a)

Hildebrandtiella rotundifolia Renauld (Een 1993a)

Jaegerina solitaria (Brid.) A.Jaeger (Een 1993a, 1997)

Jaegerina solitaria var. *ramosa* Besch., **B** (Een 1993a)

Orthostichidium involutifolium ssp. *thomeanum* (Broth.) Argent (Een 1993a)

Orthostichopsis debilinervis (Renauld & Cardot) Broth., **B** (Een 1993a)

Orthostichopsis longinervis (Renauld & Cardot) Broth. (Een 1997)

Orthostichopsis subimbricata (Hampe) Broth. (Argent 1973; Een 1997)

Orthostichopsis subimbricata var. *borbonica* (Renauld & Cardot) Cardot, **B** (Een 1993a)

Orthostichopsis sublivens (Besch.) Broth., **B** (Een 1993a)

Ptychomitriaceae

Ptychomitrium subcrispatum Thér. & P.de La Varde (de Sloover 1976)

Racopilaceae

Racopilum africanum Mitt. (Een 1993a, 1997)

Racopilum ayresii Mitt., **B** (Een 1993a)

Racopilum capense Müll.Hal. ex Broth. (Een 1993a)

Racopilum mauritianum Müll.Hal. ex Besch. (Een 1993a, 1997)

Racopilum schmidii (Müll.Hal.) Mitt., **B** (Een 1993a)

Racopilum tomentosum (Hedw.) Brid. (Een 1993a)

Rhabdoweisiaceae

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

Rhacocarpaceae

Rhacocarpus purpurascens (Brid.) Paris (Een 1993a; Delgadillo M. 1995; Frahm 1996)

Rhizogoniaceae

Pyrrhobryum spiniforme (Hedw.) Mitt. (Een 1993a)

Pyrrhobryum spiniforme var. *brevifolium* (Besch.) Manuel, **B** (Een 1993a)

Rutenbergiaceae

Rutenbergia borbonica Besch. (Een 1993a)

Rutenbergia prionodon (Besch.) Renauld (Een 1993a)

Seligeriaceae

Blindia acuta (Hedw.) Bruch, Schimp. & W.Gümbel (de Sloover 1979)

Blindia magellanica Schimp. ex Müll.Hal. (Een 1993a)

Sematophyllaceae

Acroporium megasporum (Duby) M.Fleisch. (Een 1993a)

Macrohymenium acidodon (Mont.) Dozy & Molk. (Eakin 1976; Een 1993a)

Meiothecium madagascariense (Brid.) Broth. (Een 1997)

Radulina borbonica (Bél.) W.R.Buck (Een 1993a, 1997)

Rhaphidorrhynchium crispans (Besch.) Broth., **B** (Een 1993a)

Rhaphidorrhynchium rubricaule (Besch.) Broth. (Een 1993a, 1997)

Sematophyllum crassiusculum (Brid.) Broth. (Een 1993a)

Sematophyllum schimperi (Besch.) Broth. (Een 1993a)

Sematophyllum sinuosulum (Besch.) Broth. (Een 1993a)

Sematophyllum subpinnatum (Brid.) E. Britton (Een 1993a)

Trichosteleum adhaerens (Besch.) Kindb., **B** (Een 1993a)

Trichosteleum constrictum (Brid.) Renauld, **B** (Een 1993a)
Trichosteleum debettei (Besch.) Kindb. (Een 1993a)
Trichosteleum pervilleanum (Schimp.) W. R. Buck (Een 1997)
Warburgiella leptorrhyncha (Müll.Hal.) Broth. (Een 1993a)
Wijkia protensa (Renauld & Cardot) H.A.Crum, **B**

Serpotortellaceae

Serpotortella chenagonii (Renauld & Cardot) W.D.Reese & R.H.Zander (Een 1993a)
Serpotortella cyrtophylla (Besch.) W.D.Reese & R.H.Zander (Een 1993a)

Sphagnaceae

Sphagnum bourbonense H.A.Crum, **B** (Crum 1992)
Sphagnum capense Hornsch. (Eddy 1985)
Sphagnum capillifolium var. *capillifolium* (Ehrh.) Hedw. (Een 1993a)
Sphagnum ceylonicum Mitt. ex Warnst. (Eddy 1985)
Sphagnum condensatum Brid., **B** (Een 1993a)
Sphagnum davidii Warnst. (Eddy 1985)
Sphagnum ericetorum Brid. (Eddy 1985)
Sphagnum perichaetiale Hampe (Eddy 1985)
Sphagnum rutenbergii Müll.Hal. (Eddy 1985)
Sphagnum strictum ssp. *pappeanum* (Müll.Hal.) A.Eddy (Eddy 1985)
Sphagnum truncatum var. *bordasii* (Besch.) A.Eddy
Sphagnum tumidulum var. *confusum* A. Eddy, **B** (Eddy 1985)
Sphagnum tumidulum var. *tumidulum* Besch. (Eddy 1985)
Sphagnum violascens Müll.Hal. (Eddy 1985)

Splachnaceae

Tayloria isleana (Besch.) Broth. (Koponen & Weber 1972)
Tayloria orthodonta (P.Beauv.) Wijk & Margad. (Koponen & Weber 1972)

Stereophyllaceae

Stereophyllum radiculosum (Hook.) Mitt. (Een 1993a)

Symphyodontaceae

Symphyodon pygmaeus (Broth.) S.He & Snider (Ochyra & Pócs 1985; He & Snider 2000)

Thuidiaceae

Pelekium versicolor (Hornsch. ex Müll.Hal.) Touw (Touw 1976; de Sloover 1977; Een 1997; Touw 2001)
Thuidium aculeoserratum Renauld & Cardot (Touw 1976)
Thuidium assimile (Mitt.) A.Jaeger (Touw 1976; de Sloover 1977)
Thuidium tamariscinum (Hedw.) Bruch, Schimp. & W.Gümbel (Touw 1976; de Sloover 1977)

Trachypodaceae

Trachypodopsis serrulata var. *serrulata* (P.Beauv.) M.Fleisch. (Van Zanten 1959; Een 1993a, 1997)
Trachypus bicolor var. *hispidus* (Müll.Hal.) Cardot (Een 1997)
Trachypus bicolor var. *viridulus* (Mitt.) Zanten (Een 1993a)

Notes

- *Entodon dregeanus* is now a synonym of *Entodon macropodus* (Townsend 1991). The variety *Entodon dregeanus* var. *borbonicus* Renauld & Cardot, is also in need of revision (O'Shea, 2003).
- We found in the herbarium PC, a specimen of *Leucoloma convolutaceum* Renauld, (Leg. *Onraedt R 1217*, 30/12/1969, Herbarier Bizot, det. Bizot, n°17183, PC!), a synonym of *Leucoloma delicatulum* Renauld from Réunion Island, that O'Shea (2003) reports the presence only for Madagascar and Seychelles, but we decided not to include it in our check list because the specimen does not correspond to the other specimen from Madagascar, and thus the name given to the specimen may be erroneous.
- Allen & Magill (2003) made *Pilotrichella isleana* var. *isleana* Besch. a synonym of *Pilotrichella mascarenica* (Müll. Hal.) A.Jaeger, but after examining herbarium specimens, the authors prefer keeping the two species as distinct.

Hepaticae and Hornworts reported from Réunion Island

- Acrobolbaceae**
Lethocolea congesta (Lehm.) S.W.Arnell (Grolle 1995; Pócs 1995)
Marsupidium limbatum (Steph.) Grolle (Grolle 1995)
Tylimanthus ruwenzorensis S.W.Arnell (Grolle 1995; Pócs 1995)
- Adelanthaceae**
Adelanthus decipiens (Hook.) Mitt. (Grolle 1995)
Adelanthus lindenbergianus (Lehm.) Mitt. (Grolle 1995)
- Aneuraceae**
Aneura latissima Spruce (Grolle 1995)
Riccardia limbata (Steph.) E.W.Jones (Grolle 1995)
Riccardia longispica (Steph.) Pearson (Grolle 1995)
Riccardia nudiflora (Steph.) Grolle (Grolle 1995)
Riccardia ramosissima (Steph.) Grolle, **B** (Grolle 1995)
Riccardia saccatiflora (Steph.) S.W.Arnell (Grolle 1995; Perold 2001)
Riccardia sp. (*Aneura caespitans* Steph.) (Grolle 1995)
Riccardia sp. (*Aneura comosa* Steph.) (Grolle 1995)
Riccardia sp. (*Aneura lepervanchei* Steph.) (Grolle 1995)
- Anthocerotaceae**
Folioceros fuciformis Mont. (Grolle 1995)
Phaeoceros carolinianus (Michx.) Prosk. (Grolle 1995)
- Arnelliaceae**
Gongylanthus ericetorum (Raddi) Nees (Grolle 1995)
Gongylanthus scariosus (Lehm.) Steph. (Grolle 1995)
- Aytoniaceae**
Asterella syngenesica (Bory) Grolle (Grolle 1995)
Plagiochasma eximium (Schiffn. in Steph.) Steph. (Grolle 1995)
Plagiochasma rupestre (J.R.Forst. et G.Forst.) Steph. (Grolle 1995)
- Balantiopsaceae**
Isotachis aubertii (Schwägr.) Mitt. (Grolle 1995; Pócs 1995)
- Calypogeiaceae**
Calypogeia afrocaerulea E.W.Jones (Pócs 1995)
Calypogeia arguta Nees & Mont. (Grolle 1995; Pócs 1995)
Calypogeia bidentula (F.Weber) Nees (Grolle 1995)
Calypogeia fissa (L.) Raddi (Pócs 1995)
Calypogeia mascarenensis Bischl. (Grolle 1995; Pócs 1995)
Calypogeia microstipula (Steph.) Steph. (Grolle 1995; Pócs 1995)
Mnioloma fuscum (Lehm.) R. M. Schust. (Grolle 1995; Pócs 1995)
- Cephaloziaceae**
Cephalozia bicuspida (L.) Dumort. (Grolle 1995)
Iwatsukia jishibae (Steph.) N.Kitag. (Grolle 1995; Pócs 1995)
Odontoschisma africanum (Pearson) Sim (Müller 2000)
- Cephaloziellaceae**
Allisoniella nigra (Rodway) R.M.Schust. (Grolle 1995)
Kymatocalyx madagascariensis (Steph.) Gradst. & Váòa (Grolle 1995; Pócs 1995; Gradstein & Vána 1999)
Cephaloziella kiaeri (Austin) Douin (Grolle 1995)
Cephaloziella vaginans Steph. (Müller 2000)

Dendroceros borbonicus Steph. (Grolle 1995)

Dendrocerotaceae

Exormotheca pustulosa Mitt. (Grolle 1995)

Exomorthecaceae

Fossombronia foveolata Lindb. (Müller 2000)

Fossombronia pusilla (L.) Nees (Grolle 1995)

Fossombronia stephanii Schiffn. ex Steph., **B** (Grolle 1995)

Fossombroniaceae

Clasmatocolea vermicularis (Lehm.) Grolle (Engel 1980; Grolle 1995)

Conoscyphus trapezioides (Sande Lac.) Schiffn. (Grolle 1995; Pócs 1995)

Geocalyx orientalis Besch. & Spruce, **B** (Grolle 1995)

Heteroscyphus dubius (Gottsche) Schiffn. (Grolle 1995)

Heteroscyphus grandistipus (Steph.) Schiffn. (Grolle 1995)

Heteroscyphus splendens (Lehm. et Lindenb.) Grolle (Grolle 1995)

Leptoscyphus infuscatus (Mitt.) E.W.Jones (Grolle 1995; Pócs 1995)

Lophocolea bidentata (L.) Dumort. (Grolle 1995)

Lophocolea concreta Mont. (Grolle 1995)

Lophocolea difformis Nees (Grolle 1995)

Lophocolea fragrans (Moris & De Not.) Gottsche, Lindenb. & Nees (Grolle 1995)

Lophocolea lepervanchei Steph., **B** (Grolle 1995)

Lophocolea lucida (Spreng. ex Lehm.) Mont. (Grolle 1995)

Lophocolea martiana Nees (Grolle 1995)

Lophocolea minor Nees, (Grolle 1995)

Lophocolea muricata (Lehm.) Nees (Grolle 1995)

Lophocolea onraedtii Grolle (Grolle 1995)

Geocalycaceae

Marsupella subintegra S.W.Arnell (Grolle 1995)

Gymnotriaceae

Herbertus dicranus (Taylor ex Gottsche, Lindenb. & Nees) Trevis. (Grolle 1995)

Herbertus mascarenicus (Steph.) S.W.Arnell ex Våða (Grolle 1995)

Herbertaceae

Frullania anderssonii Ångstr. (Grolle 1995; Pócs 1995)

Frullania angulata Mitt. (Grolle 1995; Pócs 1995)

Frullania apicalis Mitt. (Grolle 1995; Pócs 1995)

Frullania apiculata (Reinw., Blume & Nees) Nees (Grolle 1995; Pócs 1995)

Frullania arecae (Spreng.) Gottsche (Grolle 1995)

Frullania borbonica Lindenb. (Grolle 1995)

Frullania cafraria Steph. (Grolle 1995)

Frullania capensis Gottsche (Grolle 1995; Pócs 1995)

Frullania diptera (Lehm.) Drège (Grolle 1995; Pócs 1995)

Frullania ericoides (Nees) Mont. (Grolle 1995)

Frullania humbertii Vanden Berghen (Grolle 1995)

Frullania lindenbergii Lehm. (Grolle 1995; Pócs 1995)

Frullania repandistipula Sande Lac. (Grolle 1995; Pócs 1995)

Frullania serrata Gottsche (Grolle 1995; Pócs 1995)

Frullania usambarana Schiffn. ex Steph. (Pócs 1995)

Frullania usambarana var. *reducta* Vanden Berghen (Grolle 1995)

Frullania variegata Steph. (Grolle 1995)

Jubulaceae

Jungermanniaceae

Anastrophyllum auritum (Lehm.) Steph. (Müller 2000)
Anastrophyllum piligerum (Reinw., Blume & Nees) Steph. (Grolle 1995)
Andrewsianthus aberrans (Nees & Mont.) Grolle (Grolle 1995; Pócs 1995)
Cryptochila grandiflora (Lindenb. & Gottsche) Grolle (Grolle 1995; Pócs 1995)
Gottschelia schizopleura (Spruce) Grolle (Grolle 1995; Pócs 1995)
Jamesoniella contracta (Reinw., Blume & Nees) N.Kitag. (Pócs 1995)
Jamesoniella purpurascens Steph. (Grolle 1995)
Jungermannia borgenii Gottsche ex Pearson (Grolle 1995)
Jungermannia onraedtii Váða (Grolle 1995)
Jungermannia perloi (Gola) Váða (Grolle 1995)
Jungermannia renauldii Steph. (Grolle 1995)
Jungermannia sphaerocarpa Hook. (Grolle 1995)
Nardia arnelliana Grolle (Grolle 1995)
Notoscyphus lutescens (Lehm. & Lindenb.) Mitt. (Grolle 1995)
Plicanthus hirtellus (F.Weber) R.M.Schuster (Grolle 1995; Pócs 1995)
Syzygiella geminifolia (Mitt.) Steph. (Grolle 1995; Pócs 1995)

Lejeuneaceae

Acanthocoleus madagascariensis (Steph.) Kruijt (Grolle 1995)
Acrolejeunea aulacophora (Mont.) Steph. (Grolle 1995)
Acrolejeunea emergens var. *emergens* (Mitt.) Steph. (Grolle 1995)
Acrolejeunea pycnoclada (Taylor) Schiffn. (Grolle 1995)
Bryopteris gaudichaudii Gottsche (Grolle 1995)
Ceratolejeunea belangeriana (Gottsche) Steph. (Grolle 1995)
Ceratolejeunea variabilis (Lindenb.) Schiffn. (Grolle 1995)
Cheilolejeunea cordistipula (Steph.) Grolle ex E.W.Jones (Grolle 1995)
Cheilolejeunea decursiva (Sande Lac.) R.M.Schust. (Grolle 1995)
Cheilolejeunea ecarinata Vanden Berghen, **B** (Grolle 1995; Pócs 1995)
Cheilolejeunea intertexta (Lindenb.) Steph. (Grolle 1995)
Cheilolejeunea krakakammae (Lindenb.) R.M.Schust. (Grolle 1995)
Cheilolejeunea montagnei (Gottsche) R.M.Schust. (Grolle 1995; Pócs 1995)
Cheilolejeunea serpentina (Mitt.) Mizut. (Grolle 1995)
Cheilolejeunea surrepens (Mitt.) E.W.Jones (Grolle 1995)
Cheilolejeunea trifaria (Reinw., Blume et Nees) Mizut. (Grolle 1995)
Cheilolejeunea usambarana (Steph.) Grolle (Grolle 1995)
Cololejeunea appressa (A.Evans) Benedix (Grolle 1995)
Cololejeunea bebourensis Tixier (Grolle 1995)
Cololejeunea bidentula (Steph.) E.W.Jones (Grolle 1995)
Cololejeunea bosseriana Tixier, **B** (Grolle 1995)
Cololejeunea ceatocarpa (Ångstr.) Steph., **B** (Grolle 1995)
Cololejeunea cuneata (Lehm. & Lindenb.) Herzog (Grolle 1995)
Cololejeunea decemplicata (Steph.) Tixier (Grolle 1995)
Cololejeunea duvignaudii E.W.Jones (Grolle 1995)
Cololejeunea duvignaudii var. *papillata* Tixier (Grolle 1995)
Cololejeunea haskarliana (Lehm. & Lindenb.) Schiffn. (Grolle 1995)
Cololejeunea hildebrandii (Austin) Steph. (Grolle 1995)
Cololejeunea marginata (Lehm. et Lindenb.) Schiffn. (Grolle 1995)
Cololejeunea minutissima (Sm.) Schiffn. (Grolle 1995)
Cololejeunea obliqua (Nees & Mont.) Schiffn. (Grolle 1995)
Cololejeunea peponiformis Mizut. (Grolle 1995)

- Cololejeunea takamaka* Tixier, **B** (Grolle 1995)
Colura digitalis (Mitt.) Steph. (Grolle 1995)
Colura heimii Jov.-Ast (Grolle 1995)
Colura humberitii Jov.-Ast (Grolle 1995)
Colura obesa Ast (Grolle 1995)
Colura tenuicornis (A.Evans) Steph. (Grolle 1995)
Diplasiolejeunea cornuta Steph. (Grolle 1995; Pócs 1995)
Drepanolejeunea helenae Pócs, **B** (Pócs 1997)
Drepanolejeunea madagascariensis (Steph.) Grolle (Grolle 1995)
Drepanolejeunea physaefolia (Gottsche) Steph. (Grolle 1995)
Drepanolejeunea trematodes (Nees) Bischl. (Grolle 1995)
Exormotheca pustulosa Mitt. (Grolle 1995)
Haplolejeunea sticta Grolle (Pócs 1995)
Lejeunea alata Gottsche (Grolle 1995)
Lejeunea caespitosa Lindenb. (Grolle 1995)
Lejeunea camerunensis (Steph.) E.W.Jones (Grolle 1995)
Lejeunea ecarinata (Steph.) Steph. (Grolle 1995)
Lejeunea eckloniana Lindenb. (Grolle 1995)
Lejeunea flavovirens Ångstr. (Grolle 1995)
Lejeunea papilionacea Steph. (Zhu & Grolle 2001)
Lejeunea ramosissima Steph. (Grolle 1995)
Lejeunea rodriguezii (Steph.) Steph. (Grolle 1995)
Lejeunea villaumei (Steph.) Grolle (Grolle 1995)
Lepidolejeunea delessertii (Nees et Mont.) Grolle (Grolle 1995; Pócs 1995)
Leucolejeunea rotundistipula (Lindenb. ex Lehm.) Steph. (Grolle 1995)
Leucolejeunea xanthocarpa (Lehm. & Lindenb.) A.Evans (Grolle 1995; Pócs 1995)
Lopholejeunea borbonica Steph. (Grolle 1995)
Lopholejeunea eulopha (Taylor) Schiffn. (Grolle 1995)
Lopholejeunea grandicrista Steph. (Grolle 1995)
Lopholejeunea minima Vanden Berghen, **B** (Grolle 1995)
Lopholejeunea multilacera Steph. (Grolle 1995)
Lopholejeunea nigricans (Lindenb.) Schiffn. (Grolle 1995)
Lopholejeunea paramultilacera Vanden Berghen, **B** (Grolle 1995)
Lopholejeunea quinquecarinata Vanden Berghen (Grolle 1995)
Lopholejeunea subfusca (Nees) Schiffn. (Grolle 1995; Wigginton & Grolle 1996)
Marchesinia madagassa Steph. (Grolle 1995)
Mastigolejeunea auriculata (Wils.) Schiffn. (Grolle 1995)
Mastigolejeunea rhodesica (Vanden Berghen) E.W.Jones (Grolle 1995)
Microlejeunea dispar Ast (Grolle 1995)
Odontolejeunea lunulata (F.Weber) Schiffn. (Wigginton & Grolle 1996)
Prionolejeunea grata (Gottsche) Schiffn. (Grolle 1995)
Schiffneriolejeunea pappeana (Nees) Gradst. (Grolle 1995)
Schiffneriolejeunea pappeana var. *bidentata* Gradst. & Vanden Berghen (Grolle 1995)
Schiffneriolejeunea parviloba (Steph.) Gradst. (Grolle 1995)
Stictolejeunea balfourii (Mitt.) E.W.Jones (Grolle 1995)
Taxilejeunea conformis (Mont. et Nees) Steph. (Grolle 1995)
Taxilejeunea furcicornuta Grolle (Grolle 1995; Pócs 1995)
Thysananthus spathulistipus (Reinw., Blume et Nees) Lindenb. (Grolle 1995)

Lepidoziaceae

Arachniopsis diacantha (Mont.) M.Howe (Grolle 1995)

- Arachniopsis diplopoda* Pócs (Pócs 1995)
Bazzania decrescens (Lehm. & Lindenb.) Trevis. (Grolle 1995)
Bazzania mascarena (Steph.) Herzog (Grolle 1995)
Bazzania nitida (F.Weber) Grolle (Grolle 1995)
Bazzania praerupta (Reinw., Blume & Nees) Trevis (Grolle 1995)
Kurzia capillaris ssp. *stephanii* (Renauld ex Steph.) Pócs (Grolle 1995; Pócs 1995)
Lepidozia africana Steph. (Grolle 1995; Pócs 1995)
Telaranea nematodes (Gottsche ex Austin) M.Howe (Pócs 1995)
- Marchantiaceae**
- Dumortiera hirsuta* (Sw.) Nees (Grolle 1995)
Marchantia globosa Brid. ex F.Weber (Grolle 1995)
Marchantia paleacea Bertol. (Grolle 1995)
Marchantia polymorpha L. (Grolle 1995)
- Mastigophoraceae**
- Mastigophora diclados* (Brid. ex F.Weber) Nees (Grolle 1995)
- Metzgeriaceae**
- Metzgeria consanguinea* Lindb. (Grolle 1995; So 2004)
Metzgeria furcata (L.) Dumort. (Grolle 1995)
Metzgeria leptoneura Spruce (Grolle 1995)
Metzgeria nudifrons Steph. (So 2004)
- Pallavinaceae**
- Jensenia spinosa* (Lindenb. et Gottsche) Grolle (Grolle 1995)
Pallavicinia lyellii (Hook.) Carruth. (Grolle 1995)
Symphyogyna brasiliensis Nees & Mont. (Grolle 1995)
Symphyogyna podophylla (Thunb.) Mont. & Nees (Grolle 1995)
Symphyogynopsis gottscheana (Mont. et Nees) Grolle (Grolle 1995)
- Plagiochilaceae**
- Plagiochila angusta* Lindenb. (Grolle 1995)
Plagiochila barteri Mitt. (Grolle 1995)
Plagiochila barteri var. *valida* (Steph.) Vanden Berghen (Grolle 1995)
Plagiochila boivinii Steph. (Grolle 1995)
Plagiochila boryana Gottsche ex Steph. (Grolle 1995; Pócs 1995)
Plagiochila drepanophylla Sande Lac. (Grolle 1995)
Plagiochila exigua (Taylor) Taylor (Grolle 1995)
Plagiochila flabellata Steph. (Grolle 1995)
Plagiochila incerta Gottsche (Grolle 1995)
Plagiochila integerrima Steph. (Grolle 1995)
Plagiochila paucidentata Mont. & Gottsche (Grolle 1995)
Plagiochila pectinata Willd. ex Lindenb. (Grolle 1995)
Plagiochila renauldii Steph. (Grolle 1995)
Plagiochila repanda (Schwägr.) Lindenb. (Grolle 1995)
Plagiochila rodriguezii Steph. (Grolle 1995)
Plagiochila squamulosa var. *crispulo-caudata* (Gottsche) Vanden Berghen (Grolle 1995)
Plagiochila squamulosa var. *sinuosa* (Mitt.) Vanden Berghen (Grolle 1995)
Plagiochila terebrans Nees & Mont. ex Lindenb. (Grolle 1995)
- Pleuroziaceae**
- Pleurozia gigantea* (F. Weber) Lindb. (Grolle 1995; Pócs 1995)
- Porellaceae**
- Porella prolixa* (Gottsche ex Steph.) E.W.Jones (Grolle 1995)
Porella triquetra (Steph.) E.W.Jones (Grolle 1995)

Radulaceae

- Radula ankefinensis* Gottsche ex Steph. (Grolle 1995, 2001)
Radula appressa Mitt. (Grolle 1995; Arts & Yamada 1998)
Radula boryana (F. Weber) Mont. (Grolle 1995; Arts & Yamada 1998; Grolle 2001)
Radula carringtonii J.B.Jack (Arts & Yamada 1998)
Radula comorensis Steph. (Grolle 1995; Arts & Yamada 1998)
Radula evelynae Yamada (Grolle 1995)
Radula flavifolia (Hook.f. & Taylor) Gottsche, Lindenb. & Nees (Müller 2000; Grolle 2001)
Radula madagascariensis Gottsche (Grolle 1995, 2001)
Radula quadrata Gottsche (Grolle 1995)
Radula retroflexa Taylor, **B** (Arts & Yamada 1998)
Radula stenocalyx Mont. (Grolle 1995)
Radula voluta Taylor ex Gottsche, Lindenb. & Nees (Grolle 1995; Arts & Yamada 1998)

Ricciaceae

- Riccia cavernosa* Hoffm. em. Raddi (Müller 2002)
Riccia helenae Ast, **B** (Grolle 1995)
Riccia hortorum Bory ex Lindenb. (Grolle 1995)
Riccia huebeneriana Lindenb. (Müller 2000)

Schistochilaceae

- Gottschea neesii* Mont. (Grolle 1995; Pócs 1995)
Gottschea sphagnoides (Schwägr.) Lindb. (Grolle 1995; Pócs 1995)

Targoniaceae

- Targionia hypophylla* L. (Grolle 1995)

Wiesnerellaceae

- Wiesnerella denudata* (Mitt.) Steph., **B** (Grolle 1995; Pócs 1995)
Wiesnerella javanica Schiffn., **B** (Bischler 1998)

Notes

- According to Wigginton (2004), the record of *Lophocolea minor* Nees needs verification
- All the records of *Metzgeria conjugata* Lindb. from sub-Saharan Africa are old and are treated as erroneous by Wigginton (2004).
- Dauphin (2000) placed *Ceratolejeunea variabilis* (Lindenb.) Schiffn. in synonymy with *C. cornuta*. Both species were reported from the 19th century from the East African Islands.
- *Herbertus mascarenicus* belongs to the *H. capensis* complex (Grolle 1978), but is treated as a separate species by Váða (Vána, Pócs et al. 1979).
- *Aneura caespitans* Steph. E. W. Jones, *nom inval.* is known only from Mascarenes archipelago, but according to Meenks & Pócs (1985) in Wigginton & Grolle (1996), this species could correspond to *Riccardia compacta* (Steph.) S. Arnell.
- Concerning *Aneura comosa* Steph. and *Aneura lepervanchei* Steph., we follow the work of Wigginton (2004) but the attribution to the genus *Riccardia* has not yet been followed by a new diagnosis.

Family	Genera	Species-Taxa	Endemicity
Andreaeaceae	1	2	
Anomodontaceae	1	2	
Bartramiaceae	5	1-9	4
Brachytheciaceae	7	1-3	4
Bruchiaceae	1	3	1
Bryaceae	4	1-7	4
Calymperaceae	3	1-9	2
Catagoniaceae	1	1	
Daltoniaceae	3	5	1
Dicranaceae	11	5-8	7
Ditrichaceae	3	4	
Entodontaceae	1	3	1
Eustichiaceae	1	1	
Fabroniaceae	1	1	
Fissidentaceae	1	1-3	1
Funariaceae	3	6	1
Grimmiaceae	4	8	
Hedwigiaceae	1	1	
Hookeriaceae	2	2	1
Hylocomiaceae	1	1	
Hypnaceae	7	8	11
Hypopteriaceae	2	2	
Leptodontaceae	1	1	
Leskeaceae	1	1	
Leucobryaceae	2	6	1
Leucodontaceae	2	3	
Leucomiaceae	1	1	
Meteoriaceae	5	6	1
Mniaceae	3	3	1
Neckeraceae	6	1	
Orthodontiaceae	1	1	
Orthotrichaceae	7	3	4
Pterigynandraceae	1	1	
Phyllogoniaceae	1	3	2
Pilotrichaceae	5	1-5	6
Plagiotheciaceae	1	1	
Polytrichaceae	3	1-1	
Pottiaceae	13	3-1	5
Prionodontaceae	1	1	
Pterobryaceae	5	1-2	4
Ptychomitriaceae	1	1	
Racopilaceae	1	6	2
Rhabdoweisiaceae	1	1	
Rhacocarpaceae	1	1	
Rhizogoniaceae	1	2	1
Rutenbergiaceae	1	2	
Seligeriaceae	1	2	
Sematophyllaceae	9	1-6	4
Serpotortellaceae	1	2	
Sphagnaceae	1	1-4	3
Splachnaceae	1	2	
Stereophyllaceae	1	1	
Symphyodontaceae	1	1	
Thuidiaceae	2	4	
Trachypodaceae	2	3	
Totals	148	404	72

Table 1 : Summary for the Musci of Réunion Island

Family	Genera	Species-Taxa	Endemicity
Acrobolbaceae	3	3	
Adelanthaceae	1	2	
Aneuraceae	2	9	1
Anthocerotaceae	2	2	
Arnellaceae	1	2	
Aytoniaceae	2	3	
Balantiopsaceae	1	1	
Calypogeiaceae	2	7	
Cephaloziaceae	3	3	
Cephaloziellaceae	3	4	
Dendrocerotaceae	1	1	
Exormothecaceae	1	1	
Fossombroniaceae	1	4	1
Geocalycaceae	6	1-7	2
Gymnomitriaceae	1	1	
Herbertaceae	1	2	
Jubulaceae	1	1-7	
Jungermanniaceae	10	1-6	
Lejeuneaceae	23	8	7
Lepidoziaceae	5	9	
Marchantiaceae	2	4	
Mastigophoraceae	1	1	
Metzgeriaceae	1	4	
Pallaviciniaceae	4	5	
Plagiochilaceae	1	1-8	
Pleuroziaceae	1	1	
Porellaceae	1	2	
Radulaceae	1	12	1
Ricciaceae	1	4	1
Schistochilaceae	1	2	
Targioniaceae	1	1	
Wiesnerellaceae	1	2	2
Totals	87	241	15

Table 2: Summary for the Hepaticae and Anthocerotae of Réunion Island

Conclusion

645 species and infraspecific taxa of bryophytes have been reported from literature and herbarium specimens. The diversity of bryophytes is not dissimilar to the diversity of native phanerogams estimated as 821 species (V. Boulet, Pers. Com.) in the island.

The *Bartramiaceae*, *Calymperaceae*, *Dicranaceae*, *Hypnaceae*, *Orthotrichaceae*, *Pilotrichaceae*, *Pottiaceae* and *Sematophyllaceae* are the families of Musci that contribute most of diversity. From this report, 17.9 % of Musci are considered as endemic to Réunion Island. Eleven species of the 72

endemics belong to the *Hypnaceae*, and as members of this family are quite hard to identify, probably the specimens need revision, and the endemicity should be verified by more systematic collections and identification. Concerning the Hepaticae, the level of endemicity (6.6 %) is lower than Musci, and the families most represented on the island are the *Lejeuneaceae*, *Plagiochilaceae*, *Geocalycaceae*, *Jubulaceae* and particularly *Frullaniaceae* and *Jungermanniaceae*.

This article aims to give an initial appreciation of the bryoflora of Réunion Island. In the future there will certainly be additions of

	Genera	Species	Endemics	endemicity (%)
Musci	148	404	72	17.82
Hepaticae & Anthocerotae	87	241	15	6.22
Totals	235	645	87	13,49

Table 3: Summary

new records and revisions of some groups, and this will be the basis of future work in tropical bryology in this island.

Acknowledgements

The authors wish to convey their gratitude to the National Botanical Conservatory of Mascarin specially to Daniel Lucas (Head director) and Vincent Boullet (Scientific director) for facilities and support provided in the course of the present study.

References

- Allen, B. H. & M. R. Crosby (1986). Revision of the genus *Squamidium* (Musci: Meteoriaceae). *Journal of the Hattori Botanical Laboratory* 61: 423-476.
- Allen, B.H. & Magill, R.E. (2003). A revision of *Pilotrichella* (Lembophyllaceae: Musci). *Acta Academiae Paedagogicae Agriensis, Sect. Biol.* 24: 43-83
- Argent, G. C. G. (1973). A taxonomic study of African *Pterobryaceae* and *Meteoriaceae* II. *Pterobryaceae* - continued. *Journal of Bryology* 7: 563-602.
- Arnell, S. (1965) Hepaticae collected by Mr. Gillis Een in Mauritius and Reunion in 1962. *Svensk Botanisk Tidskrift* 59: 65-84.
- Arts, T. (1998). A revision of the moss genus *Gymnostomiella* Fleisch. *Journal of Bryology* 20: 411-427.
- Arts, T. & K. Yamada (1998). Four *Radula* (Radulaceae, Hepaticae) species new to Reunion. *Bryological Research* 7: 178-180.
- Bescherelle, E. (1878). Florule bryologique de la Réunion, de Maurice, et des autres îles austro-africaines de l'Océan Indien. *Annales des Sciences Naturelles, Botanique* 9(6): 291-380.
- Bescherelle, E. (1880). Florule bryologique de la Réunion, de Maurice et des autres îles austro-africaines de l'Océan Indien. *Annales des Sciences Naturelles, Botanique* 10(6): 233-333.
- Bischler, H. (1990). Quelques Marchantiales de l'île de la Réunion. *Cryptogamie, Bryologie, Lichénologie* 11(2): 169-171.
- Bischler, H. (1998). Systematics and evolution of the genera of the Marchantiales. *Bryophytorum Bibliotheca* 51: 1-201.
- Bizot, M. (1974). *Enumeratio muscorum novarum*. *Revue Bryologique et Lichénologique* 40: 101-139.
- Blockeel, T. L., T. Arts, M. A. Bruggeman-Nannenga, G. Brusa, L. Hedenäs, I. Novotny, R. Ochyra, M. A. Sabovljevic & C. C. Townsend (2003). New national and regional bryophyte records, 6. *Journal of Bryology* 24: 329-332.
- Blom, H. H. (1996). A revision of the *Schistidium apocarpum* complex in Norway and Sweden. *Bryophytorum Bibliotheca* 49: 333.
- Bruggeman-Nannenga, M. A. (1993). Taxonomic Results of the BRYOTROP expedition to Rwanda and Zaïre. 15. Fissidentaceae. *Tropical Bryology* 8: 141-148.
- Bruggeman-Nannenga, M. A. (1997). Notes on Fissidens VI. New synonyms, new combinations and validation of some names. *Journal of the Hattori Botanical Laboratory* 81: 155-173.
- Brummitt, R. K. & C. E. Powell (1992). *Authors of Plant Names*. Kew, Royal Botanic Gardens.
- Buck, W. R. (1979). A revision of the moss genus *Trachyphyllum* Gepp (Thuidiaceae). *Brittonia* 31(3): 379-394.
- Buck, W. R. (1980). A generic revision of the Entodontaceae. *Journal of the Hattori Botanical Laboratory* 48: 71-159.

- Burley, J. S. & N. M. Pritchard (1990).** A revision of the genus *Ceratodon* (Bryophyta). *Harvard Papers in Botany* 2: 17-76.
- Corley, M. F. V. & A. C. Crundwell (1991).** Additions and amendments to the mosses of Europe and the Azores. *Journal of Bryology* 16: 337-356.
- Corley, M. F. V., A. C. Crundwell, R. Düll, M. O. Hill & A. J. E. Smith (1981).** Mosses of Europe and the Azores; annotated list of species, with synonyms from the recent literature. *Journal of Bryology* 11: 609-689.
- Crosby, M. R., U. Schultze-Motel & W. Schultze-Motel (1983).** Katalog der Laubmoose von Madagascar und den Umliegenden Inseln. *Willdenowia* 13: 187-255.
- Crum, H. (1992).** Miscellaneous notes on the genus *Sphagnum* 1-2. *Bryologist* 95: 274-279.
- de Sloover, J. L. (1975).** Note de bryologie africaine. IV. *Breutelia*. *Bulletin du Jardin Botanique National de Belgique* 45: 237-271.
- de Sloover, J. L. (1976).** Note de Bryologie africaine VII. *Pseudoephemerum*, *Bryohumbertia*, *Eucladium*, *Streptopogon*, *Ptychomitrium*, *Rhachithecium*, *Antitrichia*, *Pterogonium*, *Lindigia*, *Distichophyllum*. *Bulletin du Jardin Botanique National de Belgique* 46: 427-447.
- de Sloover, J. L. (1977).** Note de bryologie africaine. IX. *Andreaea*, *Racomitrium*, *Gymnostomiella*, *Thuidium*. *Bulletin du Jardin Botanique National de Belgique*. 47: 155-181.
- de Sloover, J. L. (1979).** Note de bryologie africaine X. *Blindia*, *Pilopogon*, *Bryoerythrophyllum*, *Orthodontium*, *Oligotrichum*. *Bulletin du Jardin Botanique National de Belgique* 49: 393-408.
- de Sloover, J. L. (1983).** Note de Bryologie africaine XII. *Porotrichum* et *Porothamnium*. *Bulletin du Jardin Botanique National de Belgique* 53: 97-152.
- de Sloover, J. L. (1986).** Note de bryologie africaine XIII. Polytrichaceae. *Bulletin du Jardin Botanique National de Belgique* 56: 241-300.
- de Sloover, J. L. (1987).** Note de bryologie africaine XIV. *Leptodontium*. *Bulletin du Jardin Botanique National de Belgique* 57: 425-451.
- Delgadillo M., C., Bello, B. & Cardenas S., A. 1995.** LATMOSS. A Catalogue of Neotropical Mosses. *Monographs in Systematic Botany from the Missouri Botanical Garden* 56: 1-191.
- Eakin, D. A. (1976).** *A taxonomic revision of the moss genera Rhegmatodon and Macrohymenium* Ann Arbor, University Microfilms International.
- Eddy, A. (1985).** A revision of African Sphagnales. *Bulletin of the British Museum (Natural History)* Botany 12(3): 77-162.
- Een, G. (1976).** Mosses from the Mascarenes. *Lindbergia* 3: 213-317.
- Een, G. (1989).** Mosses from the Mascarenes - 3. *Tropical Bryology* 1: 55-62.
- Een, G. (1993a).** Mosses from Africa 3 sensu Index Muscorum. (Manuscript on disk, dated 22/07/1993).
- Een, G. (1993b).** Mosses from the Mascarenes - 4. *Tropical Bryology* 7: 47-54.
- Een, G. (1997).** Mosses from the Mascarenes - 6. *Tropical Bryology* 13: 21-34.
- Engel, J. J. (1980).** A monograph of *Clasmatocolea*. *Fieldiana, new series* 3: 1-229.
- Enroth, J. (1992).** Corrections to *Cryptoleptodon*, *Forsstroemia* and *Leptodon* (Leptodontaceae, Musci). *Journal of the Hattori Botanical Laboratory* 71: 75-82.
- Enroth, J. (1993).** Taxonomic Results of the Bryotrop expedition to Rwanda and Zaïre. 23. Neckeraceae, Pterobryaceae, Hypopterygiaceae. *Tropical Bryology* 8: 193-198.
- Enroth, J. (1994).** A taxonomic monograph of the genus *Pinnatella* (Neckeraceae, Bryopsida). *Acta Botanica Fennica* 151: 1-90.
- Frahm, J.-P. (1985).** Afrikanische *Campylopus*-Arten (Dicranaceae, Musci). *Bryophytorum Bibliotheca* 31: 1-216.
- Frahm, J.-P. (1996).** Revision der Gattung *Rhacocarpus* Lindb. (Musci). *Cryptogamie, Bryologie, Lichénologie* 17(1): 39-65.
- Frahm, J.-P. (2003).** Manual of tropical bryology. *Tropical Bryology* 23: 195.
- Fransén, S. (2004).** A taxonomic revision of extra-Neotropical *Bartramia* section *Vaginella* C. Müll. *Lindbergia* 29: 73-107.
- Gradstein, S. R. & J. Vána (1999).** On the taxonomy of *Kymatocalyx* and *Stenorhipis* (Cephalozellaceae). *Hausknechtia* 9: 155-170.
- Greven, H. C. (1996).** *Grimmia maido* and *Grimmia sanii*, two new species from Africa. *Bryologist* 99(4): 428-432.
- Grolle, R. (1978).** Die Lebermoose der Seychellen. *Wissenschaftlichen Zeitschrift der Friedrich-Schiller-Universität Jena, Mathematisch-Naturwissenschaftliche Reihe* 27: 7-17.
- Grolle, R. (1995).** *The Hepaticae and Anthocerotae of the East African islands*. Berlin- Stuttgart, J. Cramer.
- Grolle, R. (2001).** Miscellanea hepaticologica 291-300. *Hausknechtia* 8: 59-69.
- Grolle, R. & D. G. Long (2000).** Bryological Monograph. An annotated check-list of the Hepaticae and Anthocerotae of Europe and Macaronesia. *Journal of Bryology* 22: 103-140.

- He, S. & J. Snider (2000).** A taxonomic revision of *Symphiodon* (Musci: Symphyodontaceae). *Bryologist* 103: 52-81.
- Hofmann, H. (1997).** A monograph of the genus *Palamocladium* (Brachytheciaceae, Musci). *Lindbergia* 22: 3-20
- Hyvönen, J. (1989).** A synopsis of the genus *Pogonatum* (Polytrichaceae, Musci). *Acta Botanica Fennica* 138: 1-87.
- Jovet-Ast, S. (1958).** Un *Microlejeunea* nouveau de l'île de la Réunion. *Revue Bryologique et Lichénologique* 27(3-4): 191-194.
- Jovet-Ast, S. (1993).** Riccia (sous-genre Riccia) de l'île de la Réunion. *Journal of the Hattori Botanical Laboratory* 74: 95-103.
- Kis, G. (2002).** Comments on some African species of the moss genus *Glossadelphus* M. Fleisch. *Cryptogamie, Bryologie* 23(2): 157-169.
- Koponen, T. (1981).** A synopsis of *Mniaceae* (Bryophyta) V. Taxa in Africa South of the Sahara. *Annales Botanici Fennici* 18: 105-111.
- Koponen, T. & W. A. Weber (1972).** A revision of African Tayloriidae (Splachnaceae), including *Bryomnium*. *Annales Botanici Fennici* 9: 126-134.
- Kruijer, J. D. (1997).** British Bryological Society Expedition to Mulanje Mountain, Malawi. 6. *Hypopterygiaceae* (Musci). *Journal of Bryology* 19: 515-520.
- Kruijer, J. D. (2002).** Hypopterygiaceae of the World. *Blumea, Supplement* 13: 1-388.
- La Farge, C. (2002a).** *Leucoloma* I: A revision of subgenus *Leucoloma* (Dicranaceae, Bryopsida) in Africa and Madagascar. *Bryologist* 105: 509-590.
- La Farge, C. (2002b).** *Leucoloma* II: A revision of *Leucoloma* series *Holomitrioides* (Dicranaceae). *Bryologist* 105: 591-605.
- Lin, S.-H. (1983).** A taxonomic revision of the Phyllogoniaceae (Bryopsida). Part I. *Journal of Taiwan Museum* 36(2): 37-86.
- Lin, S.-H. (1984).** A taxonomic revision of the Phyllogoniaceae (Bryopsida). Part 2. *Journal of Taiwan Museum* 37: 1-54
- Lin, S.-H. (1985).** Mosses of the Phyllogoniaceae and other related families deposited in the Rijksherbarium. *Yushania* 2: 17-24.
- Meenks, J. & T. Pócs (1985).** East African bryophytes IX. Aneuraceae. *Abstracta Botanica* 9: 79-98.
- Mission Parc national des Hauts de la Réunion (2003).** Projet pour un parc national de nouvelle génération, tome 3 premier état des lieux p 8-9.
- Mohamed, M. A. H. (1979).** A taxonomic study of *Bryum billardieri* Schwägr. and related species. *Journal of Bryology* 10: 401-465.
- Müller, F. (2000).** Additions to the bryophyte flora of Réunion (East African Islands). *Tropical Bryology* 18: 91-95.
- Müller, F. (2002).** Additions to the bryophyte floras of Réunion and Mauritius (East African Islands). *Tropical Bryology* 21: 47-49.
- Müller, F. & A. Schäfer-Verwimp (1999).** New bryophyte taxon records for tropical countries III. *Tropical Bryology* 16: 195-210.
- Muñoz, J. (1998).** Material towards a revision of *Grimmia* (Musci, Grimmiaceae): nomenclature and taxonomy of *Grimmia longirostris*. *Annals of the Missouri Botanical Garden* 85: 352-363.
- Muñoz, J. (1999).** A revision of *Grimmia* (Musci, Grimmiaceae) in the Americas. 1: Latin America. *Annals of the Missouri Botanical Garden* 86: 118-191.
- Muñoz J. & T. Pando (2000);** A world synopsis of the genus *Grimmia* (Musci, Grimmiaceae). *Monographs in Systematic Botany from the Missouri Botanical Garden* 83: 133p.
- Ochi, H. (1972).** A Revision of the African Bryoideae, Musci (first part). *Journal of the Faculty of Education, Tottori University* 23: 1-126.
- Ochi, H. (1973).** A Revision of the African Bryoideae, Musci (second part). *Journal of the Faculty of Education, Tottori University* 24: 23-50.
- Ochyra, R. & H. Hertel (1990).** Contribution to the moss flora of the subantarctic island Marion. *Polish Botanical Studies* 1: 19-34.
- Ochyra, R. & T. Pócs (1985).** East African Bryophytes, XI. Dr. L. Péntek's collection from Mozambique. *Abstracta Botanica* 9 (Suppl. 2): 63-86.
- Onraedt, M. (1977).** Bryophytes des îles Mascareno-malgaches et Seychelles. Hepaticae: *Bazzania*. *Bulletin du Jardin Botanique National de Belgique* 47: 139-144.
- Orbán, S. (1977).** Studies on African Calymperaceae I. *Acta Botanica Academicae Scientiarum Hungaricae* 23: 167-177.
- Orbán, S. (1978).** Studies on African Calymperaceae II. *Acta Botanica Academicae Scientiarum Hungaricae*. 24: 113-120.
- Orbán, S. (1981).** Studies in african *Calymperaceae* III. Conspectus of the African species of *Syrrhopodon* Schwägr. *Acta Botanica Academicae Scientiarum Hungaricae* 27: 169-177.
- Orbán, S. (1995).** Studies on african *Calymperaceae*. VI. New data to continental Africa and Madagascar. *Acta Botanica Hungarica* 39: 227-234.
- O'Shea, B. J. (2003).** Checklist of the mosses of sub-Saharan Africa (version 4, 12/03). *Tropical Bryology Research Reports* 4: 1-176.

- Perold, S. M. (2001).** Studies in the liverwort family Aneuraceae (Metzgeriales) from southern Africa. 2. The genus *Riccardia* and its type species, *R. multifida*, with confirmation of its presence in the region. *Bothalia* 31: 183-187.
- Pócs, T. (1995).** East African Bryophytes, XIV. Hepaticae from the Indian Ocean Islands. *Fragmenta Floristica et Geobotanica* 40: 251-277.
- Pócs, T. (1997).** New or little known epiphyllous liverworts, VII. Two new Lejeuneaceae species, from the Mascarene islands. *Cryptogamie, Bryologie et Lichénologique* 18: 195-205.
- Pursell, R. A. (1987).** A taxonomic revision of *Fissidens* subgenus *Octodicerus* (Fissidentaceae). *Memoirs of the New York Botanical Garden* 45: 639-660.
- Renauld, F. (1897).** *Prodrome de la flore bryologique de Madagascar, des Mascareignes et des Comores.*
- Salazar Allen, N. (1993a).** A revision of the pantropical moss genus *Leucophanes* Brid. *Bryophytorum Bibliotheca* 46: 1-281.
- Salazar Allen, N. (1993b).** Taxonomic Results of the BRYOTROP expedition to Rwanda and Zaïre 16. Leucophanaceae. *Tropical Bryology* 8: 149-152.
- Shaw, J., B. Allen & W. R. Buck (1998).** New species of Bryaceae (Mielichhoferia, Brachymenium) from Costa Rica and Réunion. *Bryologist* 101: 600-604.
- So, M. L. (2004).** *Metzgeria* (Metzgeriaceae, Marchantiophyta) in Africa. *New Zealand Journal of Botany* 42: 271-292.
- Sollman, P. & G. Een (1996).** Mosses from the Mascarenes - 5. *Tropical Bryology* 12: 1-4.
- Touw, A. (1976).** A taxonomic revision of *Thuidium*, *Pelekium* and *Rauyiella* (Musci: Thuidiaceae) in Africa South of the Sahara. *Lindbergia* 3: 135-195.
- Touw, A. (2001).** A review of the Thuidiaceae (Musci) and a realignment of taxa traditionally accommodated in *Thuidium* sensu amplo (*Thuidium* Schimp., *Thuidiopsis* (Broth.) M.Fleisch. and *Pelekium* Mitt.) including *Aequatoriella* Gen. Nov. and *Indothuidium* Gen. Nov. *Journal of the Hattori Botanical Laboratory*. 38: 123-128.
- Townsend, C. C. (1969).** Bryophytes from Socotra. *Transactions of the British Bryological Society* 5: 790-796.
- Townsend, C. C. (1987).** Mosses new to various African countries. *Lindbergia* 12: 67-71.
- Townsend, C. C. (1991).** Notes on Mosses from Ceylon and India. 8. Another moss with three names on three continents. *Journal of Bryology* 16: 601-605.
- Van Zanten, B. O. (1959).** Trachypodaceae. A critical revision. *Blumea* 9: 477-475.
- Vána, J., T. Pócs & J. L. de Sloover (1979).** Hépatiques d'Afrique Tropicale. *Lejeunia* 98 (n. sér.): 1-23.
- Vitt, D. H. (1981).** The genera *Leiomitrium* and *Cardotiella* gen. nova (Orthotrichaceae). *Journal of the Hattori Botanical Laboratory* 49: 93-113.
- Wigginton, M. J. (2002).** Checklist and distribution of the liverworts and hornworts of sub-Saharan Africa, including the East African Islands. *Tropical Bryology Research Reports* 3: 1-88.
- Wigginton, M. J. (2004).** Checklist and distribution of the liverworts and hornworts of Sub-Saharan Africa, including the East African Islands (edition 2, September 2004). *Tropical Bryology Research Reports* 5: 1-102.
- Wigginton, M. J. & R. Grolle (1996).** Catalogue of the Hepaticae and Anthocerotae of sub-Saharan Africa. *Bryophyterum Bibliotheca* 50: 1-267.
- Zhu, R.-L. & R. Grolle (2001).** Notes on the taxonomy and distribution of *Acanthocoleus yoshinganus* and *Lejeunea papilionaceae* (Hepaticae, Lejeuneaceae). *Annales Botanici Fennici* 38: 329-336.