

## Checklist of the bryophytes of the Guadeloupe archipelago and Martinique (French West Indies)

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**Abstract** – Checklists of the bryophytes of the Guadeloupe archipelago (including La Désirade, Marie-Galante and Les Saintes archipelago) and Martinique are presented based on published data, herbarium specimens and fieldwork. 613 species taxa, including 361 of liverworts, 242 of mosses and 10 of hornworts, are recorded from the Guadeloupe archipelago and 355 species (190 liverworts, 156 mosses, 9 hornworts) from Martinique. Fifty species (20 liverworts, 29 mosses, 1 hornwort) are new to the Guadeloupe archipelago and 21 (8 liverworts, 13 mosses) are new to Martinique.

**Checklist / Bryophytes / Mosses / Liverworts / hornworts / Guadeloupe archipelago / Martinique**

### INTRODUCTION

The Guadeloupe archipelago and Martinique are French overseas departments in the Lesser Antilles in the eastern Caribbean Sea (Fig. 1), and belong to the French West Indies. The Guadeloupe archipelago (1700 km<sup>2</sup>) consists of a main island, Guadeloupe, usually treated as a single biogeographic unit, including two parts, Basse-Terre and Grande-Terre separated by a narrow sea channel, the *Rivière Salée*. Smaller islands belonging to the archipelago are La Désirade (27 km<sup>2</sup>), Marie-Galante (158 km<sup>2</sup>) and a small archipelago, Les Saintes (14 km<sup>2</sup>), with two main islands, Terre de Haut and Terre de Bas. Basse-Terre and Les Saintes archipelago belong to the recent (Upper Miocene) inner volcanic arc with the highest summit of the Lesser Antilles, the active volcano La Soufrière (1467 m). Grande-Terre as well as Marie-Galante and La Désirade belong to the older outer arc, made of Plio-Quaternary coral reef platforms (Feuillet *et al.*, 2001). Martinique (1128 km<sup>2</sup>) is volcanic in its north part with Mount Pelée (1397 m), a still active volcano, being the highest peak. The extreme south of the island and the extreme east (Caravelle), belonging to the older outer arc, are made up of limestone.

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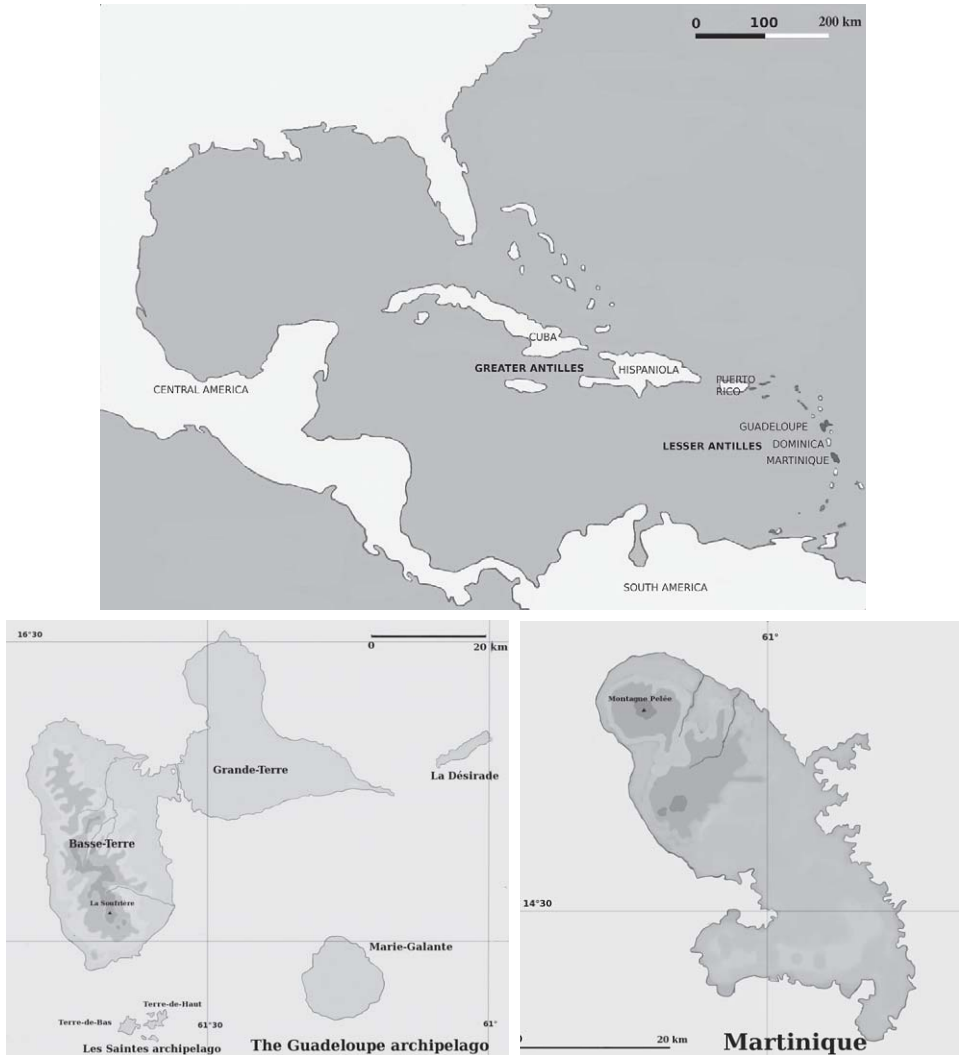


Fig. 1. Maps of the study areas.

The climate of the Lesser Antilles is tropical maritime and the islands are subjected to the north-east trade winds. Annual rainfall varies from less than 1.000 mm in dry coastal regions to more than 10.000 mm on the highest summits. The great variation in substrate and climate of the islands has resulted in a rich flora.

Since 1839, the French West Indian islands have been explored for bryophytes. In 1870 T. Husnot published a first catalogue of the bryophytes of the islands based on his collections made in 1868 (Husnot, 1870). Collections made by Beaupertuis (1839), Perrotet (1842), Grateloup (1844), L'Herminier (1843-1862), Duchassaing (1847), Husnot (1868) and Marie & Lefebvre (1877) lead to two publications by Bescherelle (mosses in 1876, liverworts in 1893). Some bryophytes

collected by Duss were described by Stephani (1901, 1902) for liverworts and by Brotherus (1903) for mosses.

In 1903, Duss published a list of mosses and a list of liverworts and hornworts, based on the material he collected between 1887 and 1903. This list along with some new data from the Questel collection (1940) was updated by Pagán (1942). Since then, many short lists of bryophytes collected in Guadeloupe have been published: Questel (1951), S. Jovet-Ast (1949, 1950, 1957) and in Martinique: Stehlé (1944), Arnell (1959). The lists for Guadeloupe published by S. Jovet-Ast were based on her own materials and the P. and V. Allorge collections. More recently, Welch & Crum (1970) published moss lists for Martinique, including material collected by Maurice (1966-1967). In 1977, Foucault reported about 500 taxa of bryophytes in his flora of bryophytes of Guadeloupe. Gradstein (1993) reported a part of his collection in Guadeloupe and Schäfer-Verwimp & Reiner-Drehwald (2009) reported 29 new hepatics and two new mosses from Guadeloupe, based on the collections of A. Schäfer-Verwimp and his wife made in 2002.

The purpose of the present publication is to provide updated checklists for Guadeloupe, Marie-Galante, La Désirade, Les Saintes archipelago and Martinique.

Further to the publications on the liverworts of St. Vincent (Fulford 1984), on the mosses of Dominica (Bartram, 1955) and the liverworts and hornworts of Dominica (Schäfer-Verwimp, 2010), the present article aims at taking part in a more precise view of the bryophyte flora of the Lesser Antilles.

## MATERIAL AND METHODS

The data presented in this paper were compiled from the literature, herbarium material, and fieldwork. Species occurrence on the islands is documented by citation of the first literature report and by selected additional titles referring to herbarium specimens; in some cases by citation of unpublished herbarium material (collector, collection number, herbarium acronym). For each island, Marchantiophyta (liverworts), Anthocerotophyta (hornworts) and Bryophyta (mosses) are treated separately. A list of taxa for each main islands of Les Saintes archipelago (Terre de Haut and Terre de Bas) is presented. New species records are preceded by an asterisk. In citation of collections, *ELB* = E. Lavocat Bernard and *SV & V* = A. Schäfer-Verwimp & I. Verwimp. An exclamation mark following the taxon name indicates that the species have been collected by the authors (!<sup>1</sup> for fieldwork of ELB in Guadeloupe and Martinique from 1990 to 2010; !<sup>2</sup> for fieldwork of SV & V in Guadeloupe in 2002; !<sup>1,2</sup> for fieldwork of both authors). Number in bold in brackets refer to notes.

In the Synopsis of families and genera of bryophytes, islands are cited abbreviated followed by the number of species in brackets. Islands are abbreviated as follows: G = Guadeloupe, M = Martinique, DES = La Désirade, STES = Les Saintes archipelago, MGTE = Marie-Galante. The classification follows Renzaglia *et al.* (2009) for Anthocerotophyta, Crandall-Stotler *et al.* (2009) for Marchantiophyta and Goffinet *et al.* (2009) for Bryophyta.

**SYNOPSIS OF THE FAMILIES AND GENERA  
OF BRYOPHYTES RECORDED FROM GUADELOUPE ARCHIPELAGO  
AND MARTINIQUE**

**ANTHOCEROTOPHYTA**

**Leiosporocerotaceae***Leiosporoceros* G (1), M (1)**Anthocerotaceae***Anthoceros* G (2), M (3)**Notothyladaceae***Notothylas* G (1)*Phaeoceros* G (2), M (2)**Dendrocerotaceae***Dendroceros* G (1), M (1)*Megaceros* G (2), M (1)*Nothoceros* G (1), M (1)

**MARCHANTIOPHYTA**

**HAPLOMITRIOPSISIDA****Haplomitriaceae***Haplomitrium* Nees G (1), M (1)*Bryopteris* G (1)*Caudalejeunea* G (1)*Ceratolejeunea* G (11), M (8)*Cheilolejeunea* G (14), M (6), DES (2)*Cololejeunea* G (20), M (7)*Colura* G (5), M (3)*Cyclolejeunea* G (6), M (5)*Dicranolejeunea* G (1), M (1)*Diplasiolejeunea* G (11), M (2)*Drepanolejeunea* G (14), M (7)*Frullanooides* G (2), M (1)*Harpalejeunea* G (6), M (4)*Lejeunea* G (24), M (7), DES (2),  
MGTE (4), STES (2)*Lepidolejeunea* G (2), M (1)*Leptolejeunea* G (3), M (3)*Lopholejeunea* G (3), M (1)*Marchesinia* M (1)*Mastigolejeunea* MGTE (1)*Metalejeunea* G (1), M (1)*Microlejeunea* G (4), M (3), STES (1)*Neurolejeunea* G (1), M (3), DES (1)*Odontolejeunea* G (2), M (1)*Omphalanthus* G (1), M (1)*Oryzolejeunea* G (1)*Physantholejeunea* G (1)*Pictolejeunea* G (1)*Prionolejeunea* G (9), M (3)*Rectolejeunea* G (3)*Schiffneriolejeunea* G (1), M (1)*Stictolejeunea* G (1), M (1) MGTE (1)*Symbiezidium* G (2), M (2)*Taxilejeunea* G (7), M (5)*Xylolejeunea* G (1), M (1)**Trichocoleaceae***Trichocolea* G (8), M (5)**MARCHANTIOPSISIDA****Marchantiaceae***Marchantia* G (2), M (2)**Ricciaceae***Riccia* G (2), M (3) STES (2), DES (2)**Monocleaceae***Monoclea* G (1), M (1)**Dumortieraceae***Dumortiera* G (1), M (1)**JUNGERMANNIOPSISIDA****Fossombroniaceae***Fossombronia* G (1), M (1)**Pallaviciniaceae***Pallavicinia* G (1), M (1)*Symphyogyna* G (7), M (6)**Metzgeriaceae***Metzgeria* G (9), M (4)**Aneuraceae***Riccardia* G (13), M (7)**Porellaceae***Porella* G (1)**Radulaceae***Radula* G (23), M (9)**Frullaniaceae***Frullania* G (14), M (9), STES (1)**Lejeuneaceae***Acanthocoleus* G (1)*Anoplolejeunea* G (1), M (1)*Archilejeunea* G (2)*Aureolejeunea* G (1)

**Herbertaceae**

*Herbertus* G (3), M (2)

**Lepidoziaceae**

*Bazzania* G (14), M (9)

*Kurzia* G (2)

*Lepidozia* G (1), M (1)

*Micropterygium* G (2), M (2)

*Monodactyloopsis* G (1)

*Paracromastigum* G (1), M (1)

*Telaranea* G (2), M (1)

*Zoopsidella* G (1)

**Lophocoleaceae**

*Chiloscyphus* G (7), M (4)

*Heteroscyphus* G (1)

*Leptoscyphus* G (4), M (1)

**Plagiochilaceae**

*Plagiochila* G (30), M (17), DES (2),  
MGTE (1)

**Adelanthaceae**

*Pseudomarsupidium* G (1)

**Jamesoniellaceae**

*Syzygiella* G (4), M (3)

**Cephaloziaceae**

*Alobiella* G (1), M (1)

*Alobiellopsis* G (1), M (1)

*Anomoclada* G (1), M (1)

*Cephalozia* G (2)

*Nowellia* G (1)

*Odontoschisma* G (3), M (2)

**Cephaloziellaceae**

*Cephaloziella* G (1), M (1)

*Cephaloziopsis* G (1), M (1)

*Cylindrocolea* G (1)

*Kymatocalyx* G (1)

**Scapaniaceae**

*Anastrophyllum* G (1)

**Balantiopsidaceae**

*Isotachis* G (5), M (4)

*Neesioscyphus* G (1), M (1)

**Acrobolbaceae**

*Tylimanthus* G (1), M (1)

**Calypogeiaceae**

*Calypogeia* G (9), M (3)

*Mnioloma* G (2)

**Solenostomataceae**

*Nardia* G (1), M (1)

*Solenostoma* G (1), M (2)

**BRYOPHYTA**

**SPHAGNOPSISIDA**

**Sphagnaceae**

*Sphagnum* G (3)

**POLYTRICHOPSISIDA**

**Polytrichaceae**

*Pogonatum* G (1), M (1)

*Steeerobryon* G (1)

**BRYOPSISIDA**

**Funariaceae**

*Entosthodon* G (1), M (1)

**Fissidentaceae**

*Fissidens* G (24), M (10), STES (8),  
MGTE (5), DES (3)

**Ditrichaceae.**

*Rhamphidium* G (1), M (1)

**Bruchiaceae**

*Trematodon* G (1)

**Dicranaceae**

*Dicranella* G (8), M (6)

*Eucamptodontopsis* G (1), M (1)

*Leucoloma* G (5), M (3)

**Leucobryaceae**

*Bryohumbertia* G (1)

*Campylopus* G (3), M (1)

*Leucobryum* G (5), M (2)

*Microcampylopus* G (1)

*Pilopogon* G (1)

**Calymperaceae**

*Calymperes* G (9), M (5), MGTE (1),  
STES (2)

*Leucophanes* Brid. G (1)

*Octoblepharum* G (3), M (1), MGTE  
(1), DES (1)

*Syrrhobodon* G (11), M (7)

**Pottiaceae**

*Anoetangium* G (1), M (1)

*Barbula* G (3), M(3)

*Hyophila* G (1), M (1), MGTE (1),  
DES (1), STES (1)

*Hyophiladelphus* G (1), M (1), DES (1),  
STES (1)

*Luisierella* G (1), DES (1), STES (1)

*Splachnobryum* G (1), M (1)

*Trichostomum* G (2), M (1), MGTE (1),  
DES (1), STES (1)

*Uleobryum* DES (1)

*Weissia* G (2), M (1), MGTE (1), DES (1),  
STES (2)

**Bryaceae**

- Brachymenium* G (1), M (1)  
*Bryum* G (6), M (5), MGTE (1), STES (3)  
*Rhodobryum* G (3), M (2)

**Mniaceae**

- Epipterygium* G (1), M (1)  
*Pohlia* G (1)

**Bartramiaceae**

- Breutelia* G (4), M (3)  
*Philonotis* G (7), M (5), STES (2)

**Orthotrichaceae**

- Groutiella* G (4), M (3)  
*Macromitrium* G (9), M (6)  
*Schlotheimia* G (2)

**Rhacocarpaceae**

- Rhacocarpus* G (1)

**Rhizogoniaceae**

- Pyrrhobryum* G (1), M (1)

**Racopilaceae**

- Racopilum* G (1)

**Daltoniaceae**

- Daltonia* G (2), M (1)  
*Leskeodon* G (4), M (2)

**Hookeriaceae**

- Crossomitrium* G (2), M (2)

**Leucomiaceae**

- Leucomium* G (1), M (1)  
*Rhynchostegiopsis* G (1), MGTE (1)

**Pilotrichaceae**

- Actinodontium* G (1), M (1)  
*Brymela* G (1)  
*Callicostella* G (4), M (3), MGTE (1)  
*Cyclodictyon* G (2), M (3)  
*Hemiragis* G (1), M (1)  
*Hookeriopsis* G (2), M (2)  
*Hypnella* G (2), M (2)  
*Lepidopilidium* G (1)  
*Lepidopilum* G (4), M (3)  
*Pilotrichidium* G (1), M (1)  
*Pilotrichum* G (6), M (7)  
*Thamniopsis* G (1), M (1)  
*Trachyxiphium* G (1), M (1)

**Amblystegiaceae**

- Campylium* G (1)

**Leskeaceae**

- Haplocladium* G (1)

**Thuidiaceae**

- Cyrto-hypnum* G (3), M (1), MGTE (1)  
*Thuidium* G (2), M (1)

**Stereophyllaceae**

- Entodontopsis* G (1), STES (1)

- Eulacophyllum* G (1), M (1), STES (1),  
 DES (1)

**Brachytheciaceae**

- Meteoridium* G (1), M (1)  
*Squamidium* G (2), M (2)  
*Zelometeorium* G (1), M (1), MGTE (1)

**Meteoriaceae**

- Lepyrodontopsis* G (1), M (1)  
*Meteorium* G (2), M (1)  
*Pseudotrachypus* G (1), M (1)  
*Trachypus* M (1)

**Hypnaceae**

- Chryso-hypnum* G (1), M (1), MGTE (1)  
*Ectropothecium* G (1), M (1)  
*Hypnum* G (2)  
*Mittenothamnium* G (1), M (1)  
*Rhacopilopsis* G (1), M (1)  
*Taxiphyllum* G (1)  
*Vesicularia* G (3), M (2), MGTE (2),  
 DES (1)

**Pylaisiadelphaceae**

- Aptychella* G (1), M (1)  
*Isopterygium* G (3), M (4)  
*Pterogonidium* G (1), M (1)  
*Taxithelium* G (2), M (2), MGTE (1),  
 STES (1)

**Sematophyllaceae**

- Acroporium* G (3), M (4), MGTE (1),  
 STES (1)  
*Meiothecium* G (1), M (1)  
*Rhaphidostichum* G (1), M (1)  
*Sematophyllum* G (6), M (4), MGTE (1),  
 DES (1)  
*Trichosteleum* G (6), M (2)

**Prionodontaceae**

- Prionodon* G (1)

**Pterobryaceae**

- Orthostichopsis* G (1), M (2)  
*Pirella* G (4), M (3)  
*Pterobryon* G (1), M (1)

**Phyllogoniaceae**

- Phyllogonium* G (2), M (2)

**Neckeraceae**

- Homalia* G (1), M (1)  
*Homaliiodendron* G (1)  
*Isodrepanium* G (1), M (1)  
*Neckeropsis* G (2), M (2), MGTE (2)  
*Pinnatella* G (1)  
*Porotrichum* G (1), M (1)

**Lembophyllaceae**

- Pilotrichella* G (1)



**ALPHABETICAL LISTS OF THE SPECIES  
OF BRYOPHYTES RECORDED FROM THE GUADELOUPE  
ARCHIPELAGO AND MARTINIQUE**

**Hornworts (Anthocertophyta)**

**GUADELOUPE ARCHIPELAGO**

**GUADELOUPE**

*Anthoceros cavernosus* Steph. (Pagán, 1942 as *Anthoceros gottschei* Steph.)

*Anthoceros tuberculatus* Lehm. et Lindenb. (Pagán, 1942 as *Anthoceros cucullatus* Steph.) !<sup>1</sup>

*Dendroceros crispus* (Sw.) Nees (Pagán, 1942) !<sup>1,2</sup>

*Leiosporoceros dussii* (Steph.) Hässel (Pagán, 1942 as *Aspiromitus leiosporus* (Gottsche) Steph.)

*Megaceros alatifrons* Steph. (Pagán, 1942)

*Megaceros solidus* Steph. (Stephani, 1916; the type, Pagán, 1942). **Known only from Guadeloupe.**

\**Notothylas breutelii* Gottsche (*ELB* 1397) !<sup>1</sup>

*Nothoceros vincentianus* (Lehm. et Lindenb.) J.C. Villarreal (Pagán, 1942 as

*Megaceros vincentianus* (Lehm. et Lindenb.) Campb.)

*Phaeoceros flexivalvis* (Nees et Gottsche) Hässel (Pagán, 1942 as *Anthoceros flexivalvis* Gottsche et Nees)

*Phaeoceros laevis* (L.) Prosk. (Pagán, 1942 as *Anthoceros laevis* L.) !<sup>1</sup>

**MARTINIQUE**

*Anthoceros cavernosus* Steph. (Stephani, 1916, the type ; Hässel de Menéndez 1990)

*Anthoceros punctatus* L. (Stephani, 1916, type of *A. hispidus* St.)

*Anthoceros tuberculatus* Lehm. et Lindenb. (Duss, 1903 as *Anthoceros cucullatus* Steph.)

*Dendroceros crispus* (Sw.) Nees (Duss, 1903) !<sup>1</sup>

*Leiosporoceros dussii* (Steph.) Hässel (Arnell, 1959 as *Phaeoceros dussii* Steph.)

*Megaceros alatifrons* Steph. (Duss, 1903 as *Anthoceros alatifrons* Steph.)

*Nothoceros vincentianus* (Lehm. et Lindenb.) J.C. Villarreal (Duss, 1903 as *Anthoceros vincentinus* Steph.)

*Phaeoceros flexivalvis* (Nees et Gottsche) Hässel (Stephani, 1916, type of *Anthoceros rupicolus*, syn. of *Phaeoceros flexivalvis* fide Hässel de Menéndez, 1989)

*Phaeoceros laevis* (L.) Prosk. (Duss, 1903 as *Anthoceros laevis* Lehm.)

**Liverworts (Marchantiophyta)**

**GUADELOUPE ARCHIPELAGO**

**GUADELOUPE**

*Acanthocoleus aberrans* var. *laevis* Gradst. (Gradstein, 1994)

*Alobiella husnotii* (Gottsche) Schiffn. (Fulford, 1968) !<sup>1,2</sup>

*Alobiellopsis dominicensis* (Spruce) Fulf. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>

*Anastrophyllum tubulosum* (Nees) Grolle (Pagán, 1942 as *A. conforme* (Lindenb. et Gottsche) Steph.) !<sup>2</sup>

- Anomoclada portoricensis* (Hampe et Gottsche) Vána (Pagán, 1942 as *Odontoschisma portoricense* (Hampe et Gottsche) Steph.) !<sup>1</sup>  
*Anoplolejeunea conferta* (Meissn.) A. Evans (Eggers, 2004)  
*Archilejeunea parviflora* (Nees) Schiffn. (Pagán, 1942 as *Marchesinia cruegeri* (Lindenb.) Steph.)  
*Archilejeunea herminieri* Steph. (Herminier type Guadeloupe, s.n. (G 20789 holo); Gradstein & Buskes 1985)  
 \**Aureolejeunea fulva* R.M. Schust. (*ELB 1014 NY, 1015 NY*) !<sup>1</sup>  
*Bazzania aurescens* Spruce (Fulford, 1963 as *Bazzania quadricrenata* (Gottsche) Pagán) !<sup>1</sup>  
*Bazzania bidens* (Lindenb. et Gottsche) Trevis. (Fulford, 1963)  
*Bazzania cuneistipula* (Gottsche et Lindenb.) Trevis. (Fulford, 1963) !<sup>2</sup>  
*Bazzania falcata* (Lindenb.) Trevis. (Fulford, 1963) !<sup>1</sup>  
*Bazzania gracilis* (Hampe et Gottsche) Steph. (Fulford, 1963)  
*Bazzania herminieri* (Steph.) Pagán (Fulford, 1963)  
*Bazzania hookeri* (Lindenb.) Trevis. (Fulford, 1963) !<sup>1,2</sup>  
*Bazzania longa* (Nees) Trevis. var. *longa* (Fulford, 1963)  
*Bazzania longistipula* (Lindenb.) Trevis. (Fulford, 1963) !<sup>1,2</sup>  
*Bazzania platystipula* Fulf. (Jovet-Ast, 1949a)  
*Bazzania pycnophylla* (Taylor) Trevis. (Fulford, 1963)  
*Bazzania schwaneckiana* (Hampe et Gottsche) Trevis. (Fulford, 1963) !<sup>1,2</sup>  
*Bazzania stolonifera* (Swartz) Trevis. (Fulford, 1963)  
*Bazzania wrightii* (Gottsche) Steph. (Fulford, 1963)  
*Bryopteris filicina* (Swartz) Nees (Gradstein, 1994) !<sup>1</sup>  
*Calypogeia biapiculata* (Spruce) Steph. (Bischler, 1962)  
*Calypogeia heterophylla* (Steph.) Steph. (Bischler, 1962)  
 \**Calypogeia laxa* Lindenb. et Gottsche (*ELB 767*) !<sup>1</sup>  
*Calypogeia lophocoleoides* Steph. (Fulford, 1968) !<sup>2</sup>  
*Calypogeia miquelii* Mont. (Pagán, 1942) !<sup>1</sup>  
*Calypogeia peruviana* Nees et Mont. (Fulford, 1968) !<sup>2</sup>  
*Calypogeia rhombifolia* (Spruce) Steph. (Bischler, 1962)  
*Calypogeia subintegra* (Gottsche et al.) Bischl. (Bischler, 1962)  
*Calypogeia subintegra* (Gottsche, Lindenb. et Nees) Bischl. var. *dussiana* Bischl. (Bischler, 1962)  
*Cephalozia crassifolia* (Lindenb. et Gottsche) Fulf. (Fulford, 1968 as *C. caribbeana* Fulf.) !<sup>1</sup>  
*Cephalozia crossii* Spruce (Fulford, 1968 as *C. dussii* Fulf.)  
*Cephaloziella antillana* (Besch. et Spruce) Fulf. (Fulford, 1976)  
*Cephaloziopsis intertexta* Gottsche (Fulford, 1976 as *Cladopodiella intertexta* (Gottsche) Fulf.) !<sup>1</sup>  
*Ceratolejeunea brevinervis* (Spruce) A. Evans (Dauphin, 2003) !<sup>2</sup>  
*Ceratolejeunea ceratantha* (Nees et Mont.) Schiffn. (Pagán, 1942) (1)  
*Ceratolejeunea coarina* (Gottsche) Schiffn. (Dauphin, 2003) !<sup>2</sup>  
*Ceratolejeunea cornuta* (Lindenb.) Steph. (Dauphin, 2003) !<sup>1,2</sup>  
*Ceratolejeunea cubensis* (Mont.) Schiffn. (Dauphin, 2003) !<sup>2</sup>  
*Ceratolejeunea dentistipula* Gottsche ex Steph. (Dauphin, 2003)  
*Ceratolejeunea fallax* (Lehm. et Lindenb.) Bonner (Dauphin, 2003) !<sup>2</sup>  
*Ceratolejeunea filaria* (Taylor ex Lehm.) Steph. (Dauphin, 2003) !<sup>2</sup>  
*Ceratolejeunea laetefusca* (Austin) R.M. Schust. (Dauphin, 2003)  
*Ceratolejeunea patentissima* (Hampe et Gottsche) A. Evans (Dauphin, 2003)  
*Ceratolejeunea spinosa* (Gottsche) Schiffn. (Dauphin, 2003)



- Cheilolejeunea acutangula* (Nees) Grolle (Pagán, 1942 as *Strepsilejeunea lobulata* (Lindenb.) Steph.) !<sup>1</sup>
- Cheilolejeunea adnata* (Kunze) Grolle (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Cheilolejeunea clausa* (Nees et Mont.) R.M. Schust (Pagán, 1942 as *Euosmolejeunea clausa* (Nees et Mont.) A. Evans)
- Cheilolejeunea dussii* Steph. (Pagán, 1942) **known only from Guadeloupe**
- Cheilolejeunea falcata* Steph. (Pagán, 1942) **known only from Guadeloupe**
- Cheilolejeunea holostipa* (Spruce) Grolle et R.L. Zhu (Jovet-Ast, 1949a as *Cyrtolejeunea holostipa* (Spruce) A. Evans) !<sup>1,2</sup>
- Cheilolejeunea inflexa* (Hampe et Lehm.) Grolle (Grolle, 1979) !<sup>1,2</sup>
- Cheilolejeunea lineata* (Lehm. et Lindenb.) Schiffn. (Pagán, 1942 as *Cystolejeunea lineata* (Lehm. et Lindenb.) A. Evans) !<sup>1,2</sup>
- Cheilolejeunea lurida* (Lindenb.) Steph. (Schäfer-Verwimp & Reiner-Drehwald, 2009 as *C. oncophylla* (Ångstr.) Grolle et E.Reiner) !<sup>1,2</sup>
- Cheilolejeunea ovistipula* Steph. (Pagán, 1942) **known only from Guadeloupe**
- Cheilolejeunea rigidula* (Mont.) R.M. Schust. (Pagán, 1942 as *Euosmolejeunea duriuscula* (Nees) Steph.) !<sup>2</sup>
- Cheilolejeunea trifaria* (Reinw., Blume et Nees) Mizut. (Stephani, 1890 as *Lejeunea vermicularis* Lindenb.; Pagán, 1942 as *Euosmolejeunea trifaria* (Reinw., Bl. et Nees) Steph.) !<sup>2</sup>
- Cheilolejeunea uncioloba* (Lindenb.) Malombe (Schäfer-Verwimp & Reiner-Drehwald, 2009 as *Leucolejeunea uncioloba* (Lindenb.) A. Evans) !<sup>2</sup>
- Cheilolejeunea xanthocarpa* (Lehm. et Lindenb.) Malombe (Fulford, 1987 as *Leucolejeunea xanthocarpa* (Lehm. et Lindenb.) A. Evans) !<sup>1,2</sup>
- Chiloscyphus breutelii* (Gottsche) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea trapezoidea* Mont.) !<sup>1,2</sup>
- Chiloscyphus coadunatus* (Sw.) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea coadunata* (Sw.) Nees)
- Chiloscyphus connatus* (Sw.) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea connata* (Sw.) Nees)
- Chiloscyphus guadeloupensis* (Steph.) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea guadeloupensis* Steph.)
- Chiloscyphus liebmannianus* (Gottsche) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea liebmanniana* Gottsche) !<sup>2</sup>
- Chiloscyphus martianus* (Nees) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea martiana* Nees) !<sup>1</sup>
- Chiloscyphus perissodontus* (Spruce) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea perissodonta* (Spruce) Steph.)
- Cololejeunea antillana* Pócs (Eggers, 2004 as *Aphanolejeunea longifolia* Ast)
- Cololejeunea camillii* (Lehm.) A. Evans (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Cololejeunea cardiocarpa* (Mont.) A. Evans (Jovet-Ast, 1949b as *Leptocolea cardiocarpa* (Mont.) A. Evans)
- Cololejeunea costaricensis* (Bernecker) Bernecker et Pócs (Schäfer-Verwimp & Reiner-Drehwald, 2009 as *Aphanolejeunea costaricensis* Bernecker) !<sup>2</sup>
- Cololejeunea cremersii* Tixier (Tixier, 1991 as *C. fefeana* Tixier) !<sup>2</sup>
- Cololejeunea diaphana* A. Evans (Jovet-Ast, 1947 as *C. subdiaphana* Ast) !<sup>1</sup>
- Cololejeunea gracilis* (Ast) Pócs (Jovet-Ast, 1947 as *Aphanolejeunea gracilis* Ast) !<sup>2</sup>
- Cololejeunea guadelupensis* Tixier (Tixier, 1991, the type; Eggers, 2004)
- Cololejeunea marginata* (Lehm. et Lindenb.) Schiffn. (Stephani, 1890)

- Cololejeunea microscopica* (Tayl.) Schiffn. var. *africana* (Jovet-Ast, 1947 as *Aphanolejeunea verrucosa* Ast) !<sup>2</sup>
- Cololejeunea microscopica* (Tayl.) Schiffn. var. *exigua* (Jovet-Ast, 1947 as *Aphanolejeunea exigua* Evans)
- Cololejeunea minutissima* (Smith) Schiffn. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Cololejeunea obliqua* (Nees et Mont.) Schiffn. (Jovet-Ast, 1947 as *Leptocolea scabriflora* (Gott.) Evans) !<sup>1,2</sup>
- \**Cololejeunea pterocolea* Herzog (*SV & V 22414/C*)
- Cololejeunea sicaefolia* (Gottsche) Pócs et Bernecker (Schäfer-Verwimp & Reiner-Drehwald, 2009 as *Aphanolejeunea sicaefolia* (Gottsche) A. Evans) !<sup>2</sup>
- Cololejeunea sintenisii* (Steph.) Pócs (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Cololejeunea subcardiocalpa* Tixier (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Cololejeunea submarginata* Tixier (Tixier, 1980, the type)
- \**Cololejeunea subsphaeroidea* (R.M. Schust.) Pócs (*SV & V 22287/B*)
- \**Cololejeunea verwimpai* Tixier (*SV & V 22119/A*)
- Colura cylindrica* Herzog (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Colura rhynchophora* Ast (Jovet-Ast, 1948) !<sup>2</sup>
- Colura sagittistipula* (Spruce) Steph. (Jovet-Ast, 1949a as *Colura lyrata* Steph.)
- Colura tenuicornis* (A. Evans) Steph. (Jovet-Ast, 1954) !<sup>2</sup>
- Colura tortifolia* (Mont.) Steph. (Jovet-Ast, 1947, 1949a) !<sup>2</sup>
- Cyclolejeunea accedens* (Gottsche) A. Evans (Jovet-Ast, 1947)
- Cyclolejeunea chitonina* (Taylor) A. Evans (Schäfer-Verwimp, 1999) !<sup>2</sup>
- Cyclolejeunea convexistipa* (Lehm et Lindenb.) A. Evans (Jovet-Ast, 1947) !<sup>1,2</sup>
- Cyclolejeunea luteola* (Spruce) Grolle (Pagán, 1942 as *Rectolejeunea flavicans* (Willd.) Schiffn.) !<sup>2</sup>
- Cyclolejeunea peruviana* (Lehm. et Lindenb.) A. Evans (Pagán, 1942; Jovet-Ast, 1947; both as *Cyclolejeunea mimula* Steph.) !<sup>2</sup>
- Cyclolejeunea spectabilis* Steph. (Stephani, 1913, the type; Arnell, 1959)
- \**Cylindrocolea rhibantha* (Mont.) R.M. Schust. (*ELB 727, 801*) !<sup>1</sup>
- Dicranolejeunea axillaris* (Nees et Mont.) Schiffn. (Gradstein, 1994) !<sup>1,2</sup>
- Diplasiolejeunea alata* Ast (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Diplasiolejeunea armatiloba* Steph. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Diplasiolejeunea brunnea* Steph. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Diplasiolejeunea caribea* Tixier (Tixier, 1985; Schäfer-Verwimp, 2004) !<sup>2</sup>
- Diplasiolejeunea cavifolia* Steph. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Diplasiolejeunea evansii* Tixier (Tixier, 1985; Schäfer-Verwimp, 2004)
- Diplasiolejeunea leiocarpa* Ast (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Diplasiolejeunea pellucida* var. *malleiformis* A. Evans (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Diplasiolejeunea rudolphiana* Steph. (Schäfer-Verwimp & Pócs, 2009) !<sup>1,2</sup>
- Diplasiolejeunea unidentata* (Lehm. et Lindenb.) Schiffn. (Jovet-Ast, 1947) !<sup>2</sup>
- Diplasiolejeunea zacatepecensis* Tixier (Tixier, 1985; Schäfer-Verwimp, 2004)
- Drepanolejeunea anoplantha* (Spruce) Steph. (Bischler, 1964) !<sup>2</sup>
- Drepanolejeunea bidens* Steph. (Bischler, 1964) !<sup>1</sup>
- Drepanolejeunea biocellata* A. Evans (Bischler, 1964)
- Drepanolejeunea crucianella* (Taylor) A. Evans (Bischler, 1964) !<sup>1,2</sup>

- Drepanolejeunea dissitifolia* A. Evans (Jovet-Ast, 1949)  
*Drepanolejeunea evansii* Bischl. (Bischler, 1964)  
*Drepanolejeunea inchoata* (Meissn.) Schiffn. (Bischler, 1964) !<sup>2</sup>  
*Drepanolejeunea infundibulata* (Spruce) Steph. (Bischler, 1964) !<sup>1,2</sup>  
*Drepanolejeunea lichenicola* (Spruce) Steph. (Bischler, 1964) !<sup>1,2</sup>  
*Drepanolejeunea mosenii* (Steph.) Bischl. (Bischler, 1968) !<sup>2</sup>  
*Drepanolejeunea orthophylla* (Nees et Mont.) Bischl. (Fulford & Sharp, 1990)  
*Drepanolejeunea submuricata* R.M. Schust. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>  
*Drepanolejeunea trigonophylla* Steph. (Bischler, 1964)  
*Drepanolejeunea valiae* Ast (Bischler, 1964) **known only from Guadeloupe**  
*Dumortiera hirsuta* (Sw.) Nees (Bischler-Causse *et al.*, 2005) !<sup>1</sup>  
*Fossombronia porphyrorhiza* (Nees) Prosk. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>  
*Frullania atrata* (Sw.) Nees (Clark & Svihla, 1945) !<sup>1</sup>  
*Frullania beyrichiana* (Lehm. et Lindenb.) Lehm. et Lindenb. (Clark & Svihla, 1946)  
*Frullania brasiliensis* Raddi (Pagán, 1942) !<sup>1</sup>  
*Frullania breuteliana* Gottsche (Stotler, 1969)  
*Frullania caulisequa* (Nees) Nees (Clark & Svihla, 1948b as *F. gymnostis* Nees et Mont.)  
*Frullania guadalupensis* Gottsche ex Steph. (Clark & Svihla, 1952) !<sup>1</sup> **known only from Guadeloupe**  
*Frullania intumescens* (Lehm. et Lindenb.) Lehm. et Lindenb. (Stephani, 1985)  
*Frullania involuta* Hampe ex Steph. (Pagán, 1942)  
*Frullania kunzei* (Lehm. et Lindenb.) Lehm. et Lindenb. (Jovet-Ast, 1949a)  
*Frullania minima* Steph. (Pagán, 1942) **known only from Guadeloupe**  
*Frullania riojaneirensis* (Raddi) Ångstr. (Pagán, 1942) !<sup>1</sup>  
*Frullania subtilissima* (Nees et Mont.) Lindenb. (Pagán, 1942) !<sup>2</sup>  
*Frullania trigona* L. Clark et Frye (Clark & Svihla, 1948a) **known only from the type Guadeloupe**  
*Frullania urbanii* Steph. (Pagán, 1942) **known only from Guadeloupe**  
 \**Frullanoïdes bahamensis* (A. Evans) Van Slageren (*ELB 1420*)  
*Frullanoïdes corticalis* (Lehm. et Lindenb.) Van Slageren (Gradstein, 1994)  
*Haplomitrium blumei* (Nees) Schust. (Fulford, 1963 as *Calobryum andinum* (Spruce) Steph.) !<sup>1,2</sup>  
*Harpalejeunea emarginata* Ast (Grolle et Reiner-Drehwald, 1999)  
*Harpalejeunea herzogii* Ast (Jovet-Ast, 1955; Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup> **known only from Guadeloupe**  
*Harpalejeunea stricta* (Lindenb. et Gottsche) Steph. (Fulford & Sharp, 1990) !<sup>1</sup>  
*Harpalejeunea subacuta* A. Evans (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>  
*Harpalejeunea tridens* (Besch. et Spruce) Steph. (Grolle & Reiner-Drehwald, 1999) !<sup>2</sup>  
*Harpalejeunea uncinata* Steph. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>  
*Herbertus juniperoïdeus* (Sw.) Grolle subsp. *juniperoïdeus* (NY Specimen ID 544398, Herbarium of William Mitten, det. Feldberg 2006) !<sup>2</sup>  
*Herbertus juniperoïdeus* (Sw.) Grolle subsp. *bivittatus* (Spruce) Feldberg et Heinrichs (Feldberg et Heinrichs, 2006) !<sup>1,2</sup>  
*Herbertus juniperoïdeus* (Sw.) Grolle subsp. *pensilis* (Tayl.) Feldberg et Heinrichs (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>

- Heteroscyphus elliottii* (Steph.) Pagán (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Isotachis aubertii* (Schwägr.) Mitt. (Fulford, 1963) !<sup>1</sup>
- Isotachis erythrorhiza* (Lehm. et Lindenb.) Steph. (Fulford, 1963) !<sup>1,2</sup>
- Isotachis multiceps* (Lindenb. et Gottsche) Gottsche (Fulford, 1963) !<sup>1,2</sup>
- Isotachis serrulata* (Sw.) Gottsche (Fulford, 1963 as *I. serrulata* and *I. haematodes* Lehm. et Lindenb.) !<sup>1,2</sup>
- Isotachis tenax* Steph. (Fulford, 1963) !<sup>1</sup>
- \**Kurzia brasiliensis* (Steph.) Grolle (*ELB 1020*) !<sup>1</sup>
- Kurzia capillaris* (Sw.) Grolle (Fulford, 1966 as *Microlepidozia capillaris* (Sw.) Fulf. and *M. verrucosa* (Steph.) Fulf.) !<sup>1,2</sup>
- Kymatocalyx dominicensis* (Spruce) Vána (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea adpressa* Nees (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Lejeunea ambigua* Lindenb. et Gottsche (Pagán, 1942 as *Trachylejeunea ambigua* (Lindenb. et Gottsche) Steph.)
- Lejeunea aphanes* Spruce (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Lejeunea asperrima* Spruce (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea bermudiana* (A. Evans) R.M. Schust. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea boryana* Mont. (Pagán, 1942 as *Crossotolejeunea boryana* (Mont.) Schiffn.)
- Lejeunea caulicalyx* (Steph.) E. Reiner et Goda (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea cerina* (Lehm. et Lindenb.) Gottsche (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Lejeunea cladogyna* A. Evans (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea controversa* Gottsche (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea corynantha* Spruce (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea flava* (Sw.) Nees (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea fulfordiae* (Ast) R.L. Zhu (Jovet-Ast, 1948 type of *Amblyolejeunea fulfordiae* Ast; Zhu et Cheng 2008)
- Lejeunea grossitexta* (Steph.) E. Reiner et Goda (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea huctumalcensis* Lindenb. et Gottsche (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- \**Lejeunea laeta* Lehm. (*ELB 1147 NY*) !<sup>1</sup>
- Lejeunea laetevirens* Nees et Mont. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Lejeunea minutiloba* A. Evans (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea paucidentata* (Steph.) Grolle (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea pulverulenta* (Gottsche ex Steph.) E. Reiner (Reiner-Drehwald, 2005)
- Lejeunea sporadica* Besch. et Spruce (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea subspathulata* Spruce (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Lejeunea tapajosensis* Spruce (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Lejeunea trinitensis* Lindenb. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>1,2</sup>
- Lepidolejeunea grossepapulosa* (Steph.) Piippo (Ilkiu Borges, 2005)
- Lepidolejeunea involuta* (Gottsche) Grolle (Duss, 1903 as *Lejeunea orba* Gottsche) !<sup>1,2</sup>
- Lepidozia patens* Lindenb. (Fulford, 1966) !<sup>1,2</sup>



- Leptolejeunea elliptica* (Lehm. et Lindenb.) Schiffn. (Schäfer-Verwimp & Pócs, 2009) !<sup>2</sup>
- Leptolejeunea moniliata* Steph. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Leptolejeunea radicata* (Nees ex Mont.) Grolle (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Leptoscyphus cuneifolius* (Hook.) Mitt. subsp. *fragilis* (J.B. Jack et Steph.) Grolle (Fulford, 1976)
- Leptoscyphus gibbosus* (Tayl.) Mitt. (Fulford, 1976) !<sup>2</sup>
- Leptoscyphus intermedius* Grolle (Vanderpoorten & Long, 2006) !<sup>2</sup>
- Leptoscyphus ovatus* (Spruce) Grolle (Fulford, 1976)
- Lopholejeunea eulopha* (Tayl.) Schiffn. (Gradstein, 1994 as *L. quelchii* Steph.)
- Lopholejeunea nigricans* (Lindenb.) Schiffn. (Gradstein, 1994) !<sup>2</sup>
- Lopholejeunea subfusca* (Nees) Schiffn. (Gradstein, 1994)
- Marchantia chenopoda* Lindenb. (Bischler-Causse et al., 2005) !<sup>1</sup>
- Marchantia inflexa* Nees et Mont. (Bischler-Causse et al., 2005) !<sup>1</sup>
- Metalejeunea cucullata* (Reinw., Blume et Nees) Grolle (Bischler et al., 1963 as *Microlejeunea monoica* Bischl.)
- Metzgeria albinea* Spruce var. *albinea* (Costa, 2008) !<sup>1,2</sup>
- Metzgeria albinea* Spruce var. *angusta* (Steph.) Costa et Gradst. (Costa, 2008)
- \**Metzgeria ciliata* Raddi (*SVetV* 22447) !<sup>2</sup>
- \**Metzgeria crassipilis* (Lindenb.) A. Evans (*SVetV* 22486) !<sup>2</sup>
- Metzgeria furcata* (L.) Dumort. (Pagán, 1942; Jovet-Ast, 1947) (2)
- Metzgeria herminieri* Schiffn. (Costa, 2008)
- Metzgeria lechleri* Steph. (Costa, 2008)
- Metzgeria leptoneura* Spruce (Costa, 2008)
- Metzgeria procera* Mitt. (Costa, 2008)
- Microlejeunea acutifolia* Steph. (Bischer et al., 1963) !<sup>1,2</sup>
- Microlejeunea bullata* (Tayl.) Steph. (Jovet-Ast, 1947; Bischler et al., 1963) !<sup>1</sup>
- Microlejeunea epiphylla* Bischl. (Bischler et al., 1963, the type) !<sup>2</sup>
- Microlejeunea stricta* (Gottsche, Lindenb. et Nees) Steph. (Bischler et al., 1963) !<sup>2</sup>
- Micropterygium carinatum* (Grev.) Reimers (Fulford, 1966) !<sup>2</sup>
- Micropterygium trachyphyllum* Reimers (Fulford, 1966) !<sup>1</sup>
- Mnioloma cellulorum* (Spreng.) R.M. Schust. (Fulford, 1968 as *Calypogeia cellulosa* (Spreng.) Steph.)
- Mnioloma crenulatum* (Bischl.) R.M. Schust. (Fulford, 1968 as *Calypogeia crenulata* Bischl.)
- Monoclea gottschei* subsp. *elongata* Gradst. et R. Mues (Bischler-Causse et al., 2005) !<sup>1,2</sup>
- Monodactylopsis minima* (R.M. Schust.) R.M. Schust. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>
- Nardia succulenta* (Rich. ex Lehm.) Spruce (Duss, 1903 as *Jungermannia succulenta* Lehm. et Lindenb.; Pagán, 1942 as *Apotomanthus succulentus* (Rich.) Schiffn.) !<sup>1</sup>
- Neesioscyphus bicuspidatus* (Steph.) Grolle (Fulford & Sharp, 1990) !<sup>1,2</sup>
- Neurolejeunea breutelii* (Gottsche) A. Evans (Duss, 1903; Gradstein, 1994) !<sup>2</sup>
- Nowellia dominicensis* Steph. (Fulford, 1968 as *N. wrightii* (Gott. ex Spruce) Steph.) !<sup>2</sup>
- Odontolejeunea decemdentata* (Spruce) Steph. (Pagán, 1942 as *O. tocoriensis* Steph.) !<sup>1</sup>
- Odontolejeunea lunulata* (Weber) Schiffn. (Duss, 1903; Gradstein, 1994) !<sup>1,2</sup>
- Odontoschisma denudatum* (Nees) Dumort. (Fulford, 1968) !<sup>1,2</sup>
- Odontoschisma longiflorum* (Taylor) Steph. (Fulford, 1968) !<sup>1,2</sup>

- Odontoschisma prostratum* (Sw.) Trevis. (Fulford, 1968)  
*Omphalanthus filiformis* (Sw.) Nees (Duss, 1903) !<sup>1,2</sup>  
*Oryzolejeunea saccatiloba* (Steph.) Gradst. (Jovet-Ast, 1949a as *Archilejeunea saccatiloba* Steph.) !<sup>2</sup>  
*Pallavicinia lyellii* (Hook.) Gray (Duss, 1904 as *P. Husnoti* Steph. var. *inermis*; Pagán, 1942) !<sup>1</sup>  
*Paracromastigum pachyrrhizum* (Nees) Fulf. (Fulford, 1968 as *Leucosarmentum bifidum* (Steph.) Fulf.) !<sup>1,2</sup>  
*Physantholejeunea portoricensis* (Hampe et Gottsche.) R.M. Schust. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>  
*Pictolejeunea picta* (Gottsche ex Steph.) Grolle (Grolle, 1977)  
*Plagiochila adiantoides* (Sw.) Lindenb. (Heinrichs, 2002) !<sup>1</sup>  
*Plagiochila aerea* Taylor (Heinrichs, 2002) !<sup>1,2</sup>  
*Plagiochila angustispina* Steph. (Fulford & Sharp, 1990)  
*Plagiochila bicornis* Hampe et Gottsche (Duss, 1903 as *Tylimanthus marginatus* Hampe et Steph.)  
*Plagiochila bidens* Gottsche (Duss, 1903) !<sup>1</sup>  
*Plagiochila breuteliana* Lindenb. (Heinrichs, 2002) !<sup>1</sup>  
*Plagiochila connata* Lindenb. et Gottsche (Fulford & Sharp, 1990)  
*Plagiochila contigua* Gottsche (Pagán, 1942)  
*Plagiochila cristata* (Sw.) Lindenb. (Pagán, 1942)  
*Plagiochila desciscens* Steph. (Pagán, 1942) **known only from Guadeloupe**  
*\*Plagiochila disticha* (Lehm. et Lindenb.) Lindenb. (*ELB 890*) !<sup>1</sup>  
*Plagiochila divaricata* Lindenb. (Duss, 1903)  
*Plagiochila dominicensis* Tayl. (Heinrichs, 2002)  
*Plagiochila germani* Steph. (Pagán, 1942) **known only from Guadeloupe**  
*Plagiochila grateloupii* Mont. (Duss, 1903)  
*Plagiochila gymnocalycina* (Lehm. et Lindenb.) Mont. (Schiffner & Arnell, 1964) !<sup>1</sup>  
*Plagiochila herminieri* Steph. (Pagán, 1942) **known only from Guadeloupe**  
*Plagiochila husnotii* Steph. (Heinrichs, 2002)  
*Plagiochila macrostachya* Lindenb. (Heinrichs, 2002) !<sup>1</sup>  
*Plagiochila montagnei* Nees (Pagán, 1942 as *P. hypnoides* Lindenb.) !<sup>1</sup>  
*Plagiochila perrottetiana* Mont. et Gottsche (Duss, 1903)  
*Plagiochila rutilans* Lindenb. (Heinrichs et al. 2001) !<sup>1</sup>  
*Plagiochila saxicola* Steph. (Pagán, 1942) **known only from Guadeloupe**  
*Plagiochila simplex* (Sw.) Lindenb. (Duss, 1903) !<sup>1</sup>  
*Plagiochila stricta* Lindenb. (Duss, 1903)  
*Plagiochila superba* Nees (Heinrichs, 2002)  
*Plagiochila sylvicultrix* Spruce (Pagán, 1942)  
*Plagiochila tamariscina* Steph. (Duss, 1903)  
*Plagiochila tenuis* Lindenb. (Pagán, 1942)  
*Plagiochila vincentina* Lindenb. (Heinrichs, 2002) !<sup>1,2</sup>  
*Porella leiboldii* (Lehm. et Lindenb.) Trevis. (So, 2005)  
*Prionolejeunea aemula* (Gottsche) A. Evans (Ilkiu Borges, 2005) !<sup>1,2</sup>  
*Prionolejeunea ampliretis* Herzog (Ilkiu-Borges, 2006) !<sup>1,2</sup>  
*Prionolejeunea arguta* (Nees) Steph. (Ilkiu-Borges, 2006)  
*Prionolejeunea decora* (Tayl.) Steph. (Ilkiu-Borges, 2006) !<sup>2</sup>  
*Prionolejeunea denticulata* (Weber) Schiffn. (Ilkiu-Borges, 2006) !<sup>1,2</sup>  
*Prionolejeunea grollei* Ilkiu-Borges et Schäfer-Verwimp (Ilkiu Borges, 2006) !<sup>1,2</sup>  
*Prionolejeunea guadelupensis* (Lindenb.) Steph. (Ilkiu Borges, 2006)  
*Prionolejeunea mucronata* (Sande Lac.) Steph. (Ilkiu Borges, 2006) !<sup>2</sup>



- Prionolejeunea scaberula* (Spruce) Steph. (Ilkiu-Borges, 2006) !<sup>2</sup>  
*Pseudomarsupidium decipiens* (Hook.) Grolle (Pagán, 1942 as *Marsupidium brevifolium* Steph. and *Adelanthus brevicaulis* Steph.; Grolle, 1972 as *Adelanthus decipiens* Steph.)  
*Radula angulata* Steph. (Yamada, 1991)  
*Radula antilleana* Castle (Yamada, 1988)  
*Radula campanulata* Lindenb. et Gottsche (Yamada, 1993)  
*Radula decora* Gottsche ex Steph. (Pagán, 1942) (3)  
*Radula elliotii* Castle (Yamada, 1988) !<sup>1</sup>  
*Radula evansii* Castle (Jovet-Ast, 1949a)  
*Radula fendleri* Gottsche ex Steph. (Yamada, 1988)  
*Radula flaccida* Lindenb. et Gottsche (Jovet-Ast, 1949a) !<sup>2</sup>  
*Radula gottscheana* Taylor (Foucault, 1977 as *Radula boryana* (F. Weber) Nees) (4)  
*Radula husnotii* Castle (Yamada, 1988)  
*Radula inflexa* Gottsche ex Steph. (Yamada, 1980)  
*Radula javanica* Gottsche (Yamada, 1988 as *Radula macrostachya* Lindenb. et Gottsche) !<sup>1</sup>  
*Radula kegelii* Gottsche ex Steph. (Fulford, 1987) !<sup>1</sup>  
*Radula laxiramea* Steph. (Yamada, 1991)  
*Radula neotropica* Castle (Castle, 1959, 1969)  
*Radula obovata* Castle (Yamada, 1988)  
*Radula paganii* Castle (Yamada, 1988)  
*Radula portoricensis* Steph. (Yamada, 1988)  
*Radula stenocalyx* Mont. (Yamada, 1993)  
*Radula subinflata* Lindenb. et Gottsche (Yamada & Gradstein, 1991)  
*Radula subsimplex* Steph. (Stephani, 1884, the type; Yamada, 1980) **known only from the type collection**  
*Radula taylorii* Steph. (Duss, 1903)  
*Radula varilobula* Castle (Yamada, 1983) !<sup>1</sup>  
*Rectolejeunea berteroa* (Gottsche ex Steph.) A. Evans (Eggers, 2004) !<sup>2</sup>  
*Rectolejeunea dussii* Steph. (Stephani, 1914, the type)  
*\*Rectolejeunea emarginuliflora* (Gottsche) A. Evans (*SV et V 22184/E*) !<sup>2</sup>  
*Riccardia chamedryfolia* (With.) Grolle (Pagán, 1942 as *R. sinuata* (Dumort.) Trevis.) !<sup>1</sup>  
*Riccardia diablolina* (Spruce) Pagán (Pagán, 1942)  
*Riccardia digitiloba* (Spruce) Pagán (Pagán, 1942) !<sup>1,2</sup>  
*Riccardia distans* (Spruce) Pagán (Pagán, 1942)  
*Riccardia fendleri* (Spruce) Pagán (Pagán, 1942)  
*Riccardia fucoidea* (Sw.) Schiffn. (Pagán, 1942 as *R. fucoidea* (Sw.) Schiffn.) !<sup>1,2</sup>  
*Riccardia grossidens* (Steph.) Pagán (Stephani, 1893, the type; Pagán, 1942)  
*Riccardia innovans* (Steph.) Pagán (Stephani, 1917, the type; Pagán, 1942) **known only from Guadeloupe**  
*Riccardia leptophylla* (Spruce) Herz. (Meenks, 1987)  
*Riccardia planifrons* (Spruce) Pagán (Pagán, 1942)  
*Riccardia stipatiflora* (Steph.) Pagán (Pagán, 1942)  
*Riccardia subsimplex* (Steph.) Pagán (Pagán, 1942)  
*Riccardia virgata* (Gottsche ex Steph.) Pagán (Stephani, 1888, the type of *Aneura virgata* Gottsche; Pagán, 1942)  
*\*Riccia cf. stenophylla* Spruce (*ELB 196*) !<sup>1</sup>  
*Riccia subplana* Steph. (Bischler-Causse et al., 2005) !<sup>1</sup>  
*Schiffneriolejeunea polycarpa* (Nees) Gradst. (Pagán, 1942 as *Ptychocoleus polycarpus* (Nees) Trevis.) !<sup>1</sup>

- Solenostoma amplexifolium* (Hampe ex Lehm.) Váňa et Schäfer-Verwimp (Pagán, 1942 as *Tylimanthus amplexifolius* (Hampe) Steph.)  
*Stictolejeunea squamata* (Willd. ex Weber) Schiffn. (Gradstein, 1994) !<sup>2</sup>  
*Symbiezidium barbiflorum* (Lindenb. et Gottsche) A. Evans (Gradstein, 1994)  
*Symbiezidium transversale* var. *hookerianum* (Gottsche) Gradst. et van Beek (Gradstein, 1994)  
*Symphyogyna aspera* Steph. (Pagán, 1942)  
*Symphyogyna brasiliensis* Nees et Mont. (Pagán, 1942)  
*Symphyogyna brongniartii* Mont. (Pagán, 1939) !<sup>1</sup>  
*Symphyogyna digitisquama* Steph. (Pagán, 1942)  
*Symphyogyna marginata* Steph. (Pagán, 1942)  
*Symphyogyna sinuata* (Sw.) Mont. et Nees (Duss, 1903)  
*Symphyogyna trivittata* Spruce (Pagán, 1942)  
*Szygiella integerrima* Steph. (Pagán, 1942)  
*Szygiella macrocalyx* (Mont.) Spruce (Duss, 1903) !<sup>1</sup>  
*Szygiella perfoliata* (Sw.) Spruce (Duss, 1903) !<sup>1,2</sup>  
*Szygiella setulosa* Steph. (Dauphin, 2005)  
*Taxilejeunea biapiculata* Steph. (Duss, 1903)  
*Taxilejeunea debilis* (Lehm. et Lindenb.) Steph. (Duss, 1903)  
*Taxilejeunea irregularis* Steph. (Stephani 1914, the type; Pagán, 1942) **known only from Guadeloupe**  
*\*Taxilejeunea isocalycina* (Spruce) Steph. (ELB 1327 NY) !<sup>1</sup>  
*Taxilejeunea linguafolia* Steph. (Jovet-Ast, 1949a) **known only from Guadeloupe**  
*\*Taxilejeunea pterigonia* (Lehm. et Lindenb.) Schiffn. (ELB 1325 NY) !<sup>1</sup>  
*Taxilejeunea sulphurea* (Lehm. et Lindenb.) Schiffn. (Pagán, 1942)  
*Telaranea nematodes* (Austin) Howe (Engel, 2004) !<sup>1</sup>  
*Telaranea sejuncta* (Ångstr.) Arnell (Fulford, 1966)  
*Trichocolea brevifissa* Steph. (Jovet-Ast, 1960) !<sup>2</sup>  
*Trichocolea elliottii* Steph. (Fulford, 1963)  
*Trichocolea filicaulis* Steph. (Fulford, 1963)  
*Trichocolea flaccida* (Spruce) J. B. Jack et Steph. (Fulford, 1963)  
*Trichocolea floccosa* Herz. et Hatcher (Jovet-Ast, 1960)  
*Trichocolea paraphyllina* (Spruce) Steph. (Fulford, 1963)  
*Trichocolea sprucei* Steph. (Fulford, 1963, 1987) !<sup>2</sup>  
*Trichocolea tomentosa* (Sw.) Gottsche (Pagán, 1942) !<sup>1</sup>  
*Tylimanthus laxus* (Lindenb.) Spruce (Burghardt & Gradstein, 2008) !<sup>1,2</sup>  
*Xylolejeunea crenata* (Nees et Mont.) X.L. He et Grolle (He & Grolle, 2001) !<sup>2</sup>  
*Zoopsidella antillana* (Steph.) R.M. Schust. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>

## MARIE-GALANTE

- \*Lejeunea adpressa* Nees (ELB 1032) !<sup>1</sup>  
*\*Lejeunea laetevirens* Nees et Mont. (ELB 1132 NY) !<sup>1</sup>  
*\*Lejeunea phyllobola* Nees et Mont. (ELB 1133) !<sup>1</sup>  
*\*Lejeunea trinitensis* Lindenb. (ELB 1030) !<sup>1</sup>  
*\*Mastigolejeunea auriculata* (Wilson) Schiffn. (ELB 1036, ELB 1037) !<sup>1</sup>  
*\*Plagiochila micropteryx* Gottsche (ELB 1129) !<sup>1</sup>  
*\*Stictolejeunea squamata* (Willd. ex Weber) Schiffn. (ELB 1131 NY) !<sup>1</sup>

## LA DÉSIDERADE

- \*Cheilolejeunea holostipa* (Spruce) Grolle et R.L. Zhu (ELB 626) !<sup>1</sup>  
*\*Cheilolejeunea trifaria* (Reinw., Blume et Nees) Mizut. (ELB 949 NY) !<sup>1</sup>

- \**Lejeunea cladogyna* A. Evans (*ELB 944 NY*) !<sup>1</sup>
- \**Lejeunea phyllobola* Nees et Mont. (*ELB 955 NY*) !<sup>1</sup>
- \**Neurolejeunea breutelii* (Gottsche) A. Evans (*ELB 939 NY, ELB 948 NY*) !<sup>1</sup>
- \**Plagiochila micropteryx* Gottsche (*ELB 938*) !<sup>1</sup>
- \**Plagiochila montagnei* Nees (*ELB 627*) !<sup>1</sup>
- Riccia subplana* Steph. (Bischler-Causse *et al.*, 2005)
- Riccia weinionis* Steph. (Bischler-Causse *et al.*, 2005)

#### LES SAINTES ARCHIPELAGO

- Terre de Haut

- Lejeunea laetevirens* Nees et Mont. (Sloover, 1983)
- Microlejeunea epiphylla* Bischl. (Sloover, 1983)
- Riccia weinionis* Steph. (Bischler-Causse *et al.*, 2005) !<sup>1</sup>
- Riccia subplana* Steph. (Bischler-Causse *et al.*, 2005)

- Terre de Bas

- \**Lejeunea cladogyna* A. Evans (*ELB 1118 NY*) !<sup>1</sup>
- \**Riccia weinonis* Steph. (*ELB 136*) !<sup>1</sup>
- \**Frullania gibbosa* Nees (*ELB 817*) !<sup>1</sup>

#### MARTINIQUE

- Alobiella husnotii* (Gottsche) Schiffn. (Duss, 1903)
- Alobiellopsis dominicensis* (Spruce) Fulf. (Fulford, 1968)
- Anomoclada portoricensis* (Hampe et Gottsche) Váña (Pagán, 1942 as *Odontoschisma portoricense* Hampe et Gottsche) Steph.
- Anoplolejeunea conferta* (Meissn. ex Spreng.) A. Evans (Arnell, 1959)
- Bazzania aurescens* Spruce (Arnell, 1959 as *B. quadricrenata* (Gottsche) Pagán) !<sup>1</sup>
- Bazzania bidens* (Lindenb. et Gottsche) Trevis. (Fulford, 1963)
- Bazzania cuneistipula* (Gottsche et Lindenb.) Trevis. (Fulford, 1963)
- Bazzania gracilis* (Hampe et Gottsche) Steph. (Fulford, 1963)
- Bazzania herminieri* (Steph.) Pagán (Fulford, 1963)
- Bazzania hookeri* (Lindenb.) Trevis. (Fulford, 1963) !<sup>1</sup>
- Bazzania longa* (Nees) Trevis. var. *longa* (Fulford, 1963)
- Bazzania schwaneckiana* (Hampe et Gottsche) Trevis. (Fulford, 1963)
- Bazzania stolonifera* (Swartz) Trevis. (Fulford, 1963)
- Calypogeia biapiculata* (Spruce) Steph. (Bischler, 1962)
- Calypogeia lophocoleoides* Steph. (Bischler, 1962)
- Calypogeia peruviana* Nees et Mont. (Fulford, 1968)
- Caudalejeunea lehmanniana* (Gottsche.) A. Evans (Gradstein, 1994)
- Cephaloziella antillana* (Besch. et Spruce) Fulf. (Fulford, 1976)
- Cephaloziopsis intertexta* (Gottsche) R.M. Schust. (Fulford, 1976 as *Cladopodiella intertexta* (Gottsche) Fulf.)
- Ceratolejeunea brevinervis* (Spruce) A. Evans (Arnell, 1959)
- Ceratolejeunea coarina* (Gottsche.) Schiffn. (Pagán, 1942 as *C. connata* Steph.)
- Ceratolejeunea cornuta* (Lindenb.) Steph. (Dauphin, 2003) !<sup>1</sup>
- Ceratolejeunea cubensis* (Mont.) Schiffn. (Fulford & Sharp, 1990) !<sup>1</sup>
- Ceratolejeunea fallax* (Lehm. et Lindenb.) Bonner (Dauphin, 2003)
- Ceratolejeunea filaria* (Tayl. ex Lehm.) Steph. (Dauphin, 2003)
- Ceratolejeunea patentissima* (Hampe et Gottsche.) A. Evans (Fulford, 1945)
- Ceratolejeunea spinosa* (Gottsche.) Schiffn. (Duss, 1903 as *Lejeunea spinosa* Gottsche)

- Cheilolejeunea clausa* (Nees et Mont.) R.M. Schust. (Arnell, 1959 as *Euosmolejeunea clausa* (Nees et Mont.) A. Evans)
- Cheilolejeunea inflexa* (Hampe et Lehm.) Grolle (Duss, 1903 as *Lejeunea inflexa* Hampe)
- Cheilolejeunea lineata* (Lehm. et Lindenb.) Schiffn. (Arnell, 1959 as *Cystolejeunea lineata* (Lehm. et Lindenb.) A. Evans) !<sup>1</sup>
- Cheilolejeunea rigidula* (Mont.) R.M. Schust. (Duss, 1903 as *Lejeunea duriuscula* Nees)
- Cheilolejeunea trifaria* (Reinw., Blume et Nees) Mizut. (Duss, 1903 as *Lejeunea trifaria* Nees)
- Cheilolejeunea xanthocarpa* (Lehm. et Lindenb.) Malombe (Fulford, 1987 as *Leucolejeunea xanthocarpa* (Lehm. et Lindenb.) A. Evans)
- Chiloscyphus breutelii* (Gottsche) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea trapezoides* Mont.)
- Chiloscyphus coadunatus* (Sw.) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea coadunata* (Sw.) Nees)
- Chiloscyphus guadeloupensis* (Steph.) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea guadeloupensis* Steph.)
- Chiloscyphus perissodontus* (Spruce) J.J. Engel et R.M. Schust. (Fulford, 1976 as *Lophocolea perissodonta* (Spruce) Steph.)
- Cololejeunea antillana* Pócs (Eggers, 2004 as *Aphanolejeunea longifolia* Ast)
- Cololejeunea cingens* (Herzog) Bernecker et Pócs (Eggers, 2004 as *Aphanolejeunea cingens* Herzog)
- Cololejeunea diaphana* A. Evans (Eggers, 2004 as *Aphanolejeunea truncatifolia* Horik)
- Cololejeunea microscopica* (Tayl.) Schiffn. var. *africana* (Jovet-Ast, 1947 as *Aphanolejeunea verrucosa* Ast)
- Cololejeunea microscopica* (Tayl.) Schiffn. var. *exigua* (Jovet-Ast, 1947 as *Aphanolejeunea exigua* A. Evans)
- Cololejeunea obliqua* (Nees et Mont.) Schiffn. (Arnell, 1959 as *C. mosenii* (Steph.) Arnell)
- Cololejeunea sicaefolia* (Gottsche) Pócs et Bernecker (Arnell, 1959 as *Aphanolejeunea sicaefolia* A. Evans)
- Colura rhynchophora* Ast (Eggers, 2004)
- Colura tenuicornis* (A. Evans) Steph. (Jovet-Ast, 1953)
- Colura tortifolia* (Mont.) Steph. (Jovet-Ast, 1953)
- Cyclolejeunea accedens* (Gottsche) A. Evans (Jovet-Ast, 1947)
- Cyclolejeunea chitonia* (Tayl.) A. Evans (Duss, 1903 as *Odontolejeunea subbifida* Steph.)
- Cyclolejeunea convexistipa* (Lehm. et Lindenb.) A. Evans (Arnell, 1959; Grolle, 1984)
- Cyclolejeunea luteola* (Spruce) Grolle (Grolle, 1984)
- Cyclolejeunea spectabilis* Steph. (Arnell, 1959)
- Dicranolejeunea axillaris* (Nees et Mont.) Schiffn. (Duss, 1903; Gradstein, 1994)
- Diplasiolejeunea armatiloba* Steph. (Arnell, 1959)
- Diplasiolejeunea unidentata*. (Lehm. et Lindenb.) Schiffn. (Fulford & Sharp, 1990)
- Drepanolejeunea bidens* Steph. (Bischler, 1964)
- Drepanolejeunea biocellata* A. Evans (Bischler, 1964)
- Drepanolejeunea evansii* Bischl. (Bischler, 1964)
- Drepanolejeunea inchoata* (Meissn.) Schiffn. (Bischler, 1964)
- Drepanolejeunea infundibulata* (Spruce) Steph. (Bischler, 1964)



- Drepanolejeunea orthophylla* (Nees et Mont.) Bischler (Bischler, 1968)  
*Drepanolejeunea trigonophylla* Steph. (Arnell, 1959)  
*Dumortiera hirsuta* (Sw.) Nees (Bischler-Causse et al., 2005) !<sup>1</sup>  
 \**Fossombronia porphyrorhiza* (Nees) Prosk. (ELB 832) !<sup>1</sup>  
*Frullania atrata* (Sw.) Nees (Arnell, 1959)  
*Frullania arecae* (Spreng.) Gottsche (Arnell, 1959)  
*Frullania beyrichiana* (Lehm. et Lindenb.) Lehm. et Lindenb. (Duss, 1903 as *F. beyrichiana* Lehm. et Lindenb.)  
*Frullania caulisequa* (Nees) Nees (Arnell, 1959 as *F. parasitica* Lehm. et Lindenb.)  
*Frullania gibbosa* Nees (Arnell, 1959)  
*Frullania involuta* Hampe ex Stephani (Clark & Svihla, 1947)  
*Frullania kunzei* (Lehm. et Lindenb.) Lehm. et Lindenb. (Arnell, 1959 as *F. spathuliflora* Spr.)  
*Frullania riojaneirensis* (Raddi) Ångstr. (Duss, 1903)  
*Frullania subtilissima* (Nees et Mont.) Lindenb. (Duss, 1903)  
*Frullanoides corticalis* (Lehm. et Lindenb.) Van Slageren (Arnell, 1959) !<sup>1</sup>  
*Haplomitrium blumei* (Nees) R.M. Schust. (Fulford, 1963 as *Calobryum andinum* (Spruce) Steph.)  
*Harpalejeunea emarginata* Ast (Grolle & Reiner-Drehwald, 1999)  
 \**Harpalejeunea stricta* (Lindenb. et Gottsche.) Steph. (ELB 1063 NY) !<sup>1</sup>  
*Harpalejeunea tridens* (Besch. et Spruce) Steph. (Eggers, 2001)  
*Harpalejeunea uncinata* Steph. (Arnell, 1959)  
*Herbertus juniperoideus* (Sw.) Grolle subsp. *bivittatus* (Spruce) Feldberg et Heinrichs (*N.G. Slack M7* NY as *H. divergens* (Steph.) Herzog, det. Feldberg 2006) !<sup>1</sup>  
*Herbertus juniperoideus* (Sw.) Grolle subsp. *pensilis* (Tayl.) Feldberg et Heinrichs (Fulford & Sharp, 1990 as *H. pensilis* (Tayl.) Spruce)  
*Isotachis aubertii* (Schwägr.) Mitt. (Pagán, 1942)  
*Isotachis erythrorhiza* (Lehm. et Lindenb.) Steph. (Fulford, 1963)  
*Isotachis multiceps* (Lindenb. et Gottsche) Gottsche (Duss, 1903)  
*Isotachis serrulata* (Sw.) Gottsche (Fulford, 1963 as *I. serrulata* and *I. haematodes* (Lehm. et Lindenb.) Gottsche)  
*Lejeunea boryana* Mont. (Pagán, 1942 as *Crossotolejeunea boryana* (Mont.) Schiffn.)  
*Lejeunea cerina* (Lehm. et Lindenb.) Gottsche (Duss, 1903) !<sup>1</sup>  
 \**Lejeunea flava* (Sw.) Nees (ELB 1205 NY) !<sup>1</sup>  
*Lejeunea laetevirens* Nees et Mont. (Arnell, 1959 as *Microlejeunea laetevirens* A. Evans) !<sup>1</sup>  
*Lejeunea minutiloba* A. Evans (Arnell, 1959)  
*Lejeunea phyllobola* Nees et Mont. (Duss, 1903)  
*Lejeunea setiloba* Spruce (Arnell, 1959)  
*Lepidolejeunea involuta* (Gottsche) Grolle (Duss, 1903 as *Lejeunea orba* Gottsche) !<sup>1</sup>  
*Lepidozia patens* Lindenb. (Fulford, 1966)  
*Leptolejeunea elliptica* (Lehm. et Lindenb.) Schiffn. (Bischler, 1969)  
*Leptolejeunea radicata* (Nees ex Mont.) Grolle (Eggers, 2004)  
*Leptolejeunea serratifolia* Schiffn. (Arnell, 1959)  
*Leptoscyphus gibbosus* (Tayl.) Mitt. (Fulford, 1976)  
*Lopholejeunea subfusca* (Nees) Schiffn. (Gradstein, 1994) !<sup>1</sup>  
*Marchantia chenopoda* Lindenb. (Bischler-Causse et al., 2005)  
*Marchantia inflexa* Nees et Mont. (Bischler-Causse et al., 2005) !<sup>1</sup>  
*Marchesinia brachiata* (Sw.) Schiffn. (Gradstein, 1994)

- Metalejeunea cucullata* (Reinw. *et al.*) Grolle (Bischler *et al.* 1963, as *Microlejeunea monoica* Bischl.)  
*Metzgeria aurantiaca* Steph. (Arnell, 1959)  
*Metzgeria ciliata* Raddi (Costa, 2008)  
*Metzgeria leptoneura* Spruce (Costa, 2008)  
*Metzgeria procera* Mitt. (Costa, 2008)  
*Microlejeunea acutifolia* Steph. (Bischler *et al.*, 1963)  
*Microlejeunea bullata* (Tayl.) Steph. (Bischler *et al.*, 1963)  
*Microlejeunea epiphylla* Bischl. (Bischler *et al.*, 1963)  
*Micropterygium carinatum* (Grev.) Reim. (Fulford, 1966)  
*Micropterygium trachyphyllum* Reim. (Fulford, 1966)  
*Monoclea gottschei* subsp. *elongata* Gradst. *et* R. Mues (Bischler-Causse *et al.*, 2005)  
*Nardia succulenta* (Rich. *ex* Lehm.) Spruce (Duss, 1903 as *Jungermannia succulenta* Lehm. *et* Lindenb. ; Váňa, 1976)  
*Neesioscyphus bicuspidatus* (Steph.) Grolle (Duss, 1903 as *Isotachis bicuspidata* Steph.)  
*Neurolejeunea breutelii* (Gottsche) A. Evans (Evans, 1907; Gradstein, 1994)  
*Neurolejeunea catenulata* (Nees) Schiffn. (Gradstein, 1994)  
*Neurolejeunea sastreana* Gradst. (Gradstein, 1994)  
*Odontolejeunea lunulata* (Weber) Schiffn. (Gradstein, 1994)  
*Odontoschisma denudatum* (Nees) Dumort. (Duss, 1903)  
*Odontoschisma prostratum* (Sw.) Trevis. (Fulford, 1968)  
*Omphalanthus filiformis* (Sw.) Nees (Duss, 1903) !<sup>1</sup>  
*Pallavicinia lyellii* (Hook.) Gray (Duss, 1903 as *P. Husnoti* Steph. var. *inermis*) !<sup>1</sup>  
*Paracromastigum pachyrrhizum* (Nees) Fulf. (Fulford, 1968 as *Leucosarmentum bifidum* (Steph.) Fulf.)  
*Plagiochila adiantoides* (Sw.) Lindenb. (Duss, 1903)  
*Plagiochila aerea* Tayl. (Heinrichs, 2002) !<sup>1</sup>  
*Plagiochila bicornis* Hampe *et* Gottsche (Duss, 1903 as *Tylimanthus marginatus* Hampe *et* Steph.)  
*Plagiochila bidens* Gottsche (Duss, 1903)  
*Plagiochila divaricata* Lindenb. (Duss, 1903)  
*Plagiochila dominicensis* Tayl. (Heinrichs, 2002)  
*Plagiochila grateloupii* Mont. (Duss, 1903)  
\**Plagiochila micropteryx* Gottsche (*ELB 1225*) !<sup>1</sup>  
\**Plagiochila montagnei* Nees (*ELB 1177, ELB 1179*) !<sup>1</sup>  
*Plagiochila perrottetiana* Mont. *et* Gottsche (Duss, 1903)  
*Plagiochila rutilans* Lindenb. (Duss, 1903 as *P. remotifolia* Gottsche *et* Hampe) (*ELB 1224*) !<sup>1</sup>  
*Plagiochila simplex* (Sw.) Lindenb. (Fulford & Sharp, 1990)  
*Plagiochila stricta* Lindenb. (Arnell, 1959)  
*Plagiochila superba* Nees (Heinrichs, 2002)  
*Plagiochila tamariscina* Steph. (Duss, 1903)  
*Plagiochila tenuis* Lindenb. (Pagán, 1942)  
*Plagiochila vincentina* Lindenb. (Heinrichs, 2002)  
*Prionolejeunea arguta* (Nees) Steph. (Ilkiu-Borges, 2006)  
*Prionolejeunea denticulata* (F. Weber) Schiffn. (Ilkiu-Borges, 2006)  
*Prionolejeunea guadelupensis* (Lindenb.) Steph. (Ilkiu Borges, 2006)  
\**Radula antilleana* Castle (*ELB 621*) !<sup>1</sup>  
*Radula campanulata* Lindenb. *et* Gottsche (Yamada, 1993)  
*Radula decora* Gottsche *ex* Steph. (Duss, 1903) (2)



- Radula fendleri* Gottsche *ex* Steph. (Yamada, 1988)  
*Radula inflexa* Gottsche *ex* Steph. (Yamada, 1980)  
*Radula javanica* Gottsche (Yamada, 1988 as *R. macrostachya* Lindenb. *et* Gottsche.)  
*Radula obovata* Castle (Yamada, 1988)  
*Radula paganii* Castle (Yamada, 1988)  
*Radula subinflata* Lindenb. *et* Gottsche (Yamada & Gradstein, 1991)  
*Riccardia diabolina* (Spruce) Pagán (Duss, 1903 as *Aneura diabolina* Spruce)  
*Riccardia digitiloba* (Spruce) Pagán (Arnell, 1959)  
*Riccardia fucoidea* (Sw.) Schiffn. (Arnell, 1959 as *R. fucoides* (Sw.) Schiffn.)  
*Riccardia planifrons* (Spruce) Pagán (Duss, 1903 as *Aneura planifrons* Spruce)  
*Riccardia stipatiflora* (Spruce) Pagán (Duss, 1903 as *Aneura stipatiflora* Steph.)  
*Riccardia subsimplex* (Spruce) Pagán (Duss, 1903 as *Aneura subsimplex* Steph.)  
*Riccardia virgata* (Gottsche *ex* Steph.) Pagán (Duss, 1903 as *Aneura virgata* Meiss.)  
*Riccia dussiana* Steph. (Bischler-Causse *et al.*, 2005)  
*Riccia subplana* Steph. (Bischler-Causse *et al.*, 2005)  
*Riccia weinionis* Steph. (Bischler-Causse *et al.*, 2005)  
*Schiffneriolejeunea polycarpa* (Nees) Gradst. (Gradstein, 1994) !<sup>1</sup>  
*Solenostoma amplexifolium* (Hampe *ex* Lehm.) Váňa *et* Schäfer-Verwimp (Duss, 1903 as *Tylimanthus amplexifolius* (Hampe) Steph.)  
*Solenostoma callithrix* (Lindenb. *et* Gottsche) Steph. (Váňa, 1974)  
*Stictolejeunea squamata* (Willd. *ex* Weber) Schiffn. (Gradstein, 1994)  
*Symbiezidium barbiflorum* (Lindenb. *et* Gottsche) A. Evans (Gradstein, 1994)  
*Symbiezidium transversale* var. *hookerianum* (Gottsche) Gradst. *et* Van Beek (Gradstein, 1994)  
*Symphyogyna aspera* Steph. (Schäfer-Verwimp & Pócs, 2009)  
*Symphyogyna brongniartii* Mont. (Pagán, 1942)  
*Symphyogyna digitisquama* Steph. (Pagán, 1942)  
*Symphyogyna marginata* Steph. (Duss, 1903)  
*Symphyogyna sinuata* (Sw.) Mont. *et* Nees (Duss, 1903)  
*Symphyogyna trivittata* Spruce (Duss, 1903)  
*Syzygiella macrocalyx* (Mont.) Spruce (Duss, 1903)  
*Syzygiella perfoliata* (Sw.) Spruce (Duss, 1903)  
*Taxilejeunea biapiculata* Steph. (Duss, 1903)  
*Taxilejeunea debilis* (Lehm. *et* Lindenb.) Steph. (Duss, 1903)  
*\*Taxilejeunea isocalycina* (Spruce) Steph. (*ELB* 1238 NY)!<sup>1</sup>  
*Taxilejeunea pterigonia* (Lehm. *et* Lindenb.) Schiffn. (Arnell, 1959) !<sup>1</sup>  
*Taxilejeunea sulphurea* (Lehm. *et* Lindenb.) Schiffn. (Duss, 1903)  
*\*Telaranaea sejuncta* (Ångstr.) S.W. Arnell (*ELB* 823) !<sup>1</sup>  
*Trichocolea brevifissa* Steph. (Fulford, 1963)  
*Trichocolea elliottii* Steph. (Fulford, 1963)  
*Trichocolea flaccida* (Spruce) J. B. Jack *et* Steph. (Fulford, 1963)  
*Trichocolea paraphyllina* (Spruce) Steph. (Fulford, 1963)  
*Trichocolea tomentosa* (Swartz) Gottsche (Duss, 1903)  
*Tylimanthus laxus* (Lindenb.) Spruce (Burghardt & Gradstein, 2008)  
*Xylolejeunea crenata* (Nees *et* Mont.) X.L. He *et* Grolle (He & Grolle, 2001)

**Mosses (Bryophyta)**

## GUADELOUPE ARCHIPELAGO

## GUADELOUPE

- Acroporium pungens* (Hedw.) Broth. (Buck, 1998) !<sup>1,2</sup>  
*Acroporium caespitosum* (Hedw.) W.R. Buck (Buck, 1998) !<sup>2</sup>  
*Acroporium longirostre* (Brid.) W.R. Buck (Buck, 1998)  
*Actinodontium intergrifolium* (Broth.) S.P. Churchill (Buck, 1998)  
*Anoetangium aestivum* (Hedw.) Mitt. (Duss, 1903 as *A. breutelianum* Bruch et Schimp.) !<sup>1</sup>  
*\*Aptychella prolifera* (Besch.) Herzog (ELB 902 NY) !<sup>1</sup>  
*Barbula arcuata* Griff. (Zander, 1979)  
*Barbula husnotii* Schimp ex Besch. (Zander, 1979)  
*Barbula indica* (Hook.) Spreng. (Questel, 1951 as *B. cruegeri* Sond.) !<sup>2</sup>  
*Brachymenium wrightii* (Sull.) Broth. (Duss, 1903 as *Bryum wrightii* Sull.) !<sup>1</sup>  
*Breutelia inclinata* (Hampe et Lorentz) A. Jaeger (Duss, 206 NY, 58 NY; Marie 165 NY, det. D.G. Griffin May 1986)  
*Breutelia microdonta* (Mitt.) Broth. (Griffin, 1992)  
*Breutelia scoparia* (Schwägr.) A. Jaeger (Duss, 1903) !<sup>1,2</sup>  
*Breutelia tomentosa* (Schwägr. ex Brid.) A. Jaeger (Bescherelle, 1876) !<sup>1</sup>  
*\*Brymela sp.* (ELB 1155 NY) !<sup>1</sup> (5)  
*Bryohumbertia filifolia* var. *filifolia* (Hornsch) J.P. Frahm (Foucault, 1977 as *Campylopus nanofilifolius* (Müll.) Paris) !<sup>1</sup>  
*Bryum apiculatum* Schwägr. (Duss, 1903 as *B. rubrifolium* Schimp.) !<sup>1</sup>  
*Bryum argenteum* Hedw. (Duss, 1903; SV&V 22483/B, as *B. lanatum* (P. Beauv.) Brid.) !<sup>2</sup>  
*Bryum coronatum* Schimp. (Bescherelle, 1876)  
*Bryum leptocladon* Sull. (Questel, 1951 as *Anomobryum leptocladon* (Sull.) Broth.; Duss 636133 NY)  
*Bryum limbatum* C.Müll. (Bescherelle, 1876 as *Webera mnioides* Schimp.) !<sup>1</sup>  
*\*Bryum renauldii* Roell ex Ren. et Card. (ELB 391 NY) !<sup>1</sup>  
*Callicostella belangeriana* (Besch.) A. Jaeger (Buck, 1998)  
*Callicostella depressa* (Hedw.) A. Jaeger (Buck, 1998)  
*Callicostella pallida* (Hornsch.) Ångstr. (Buck, 1998) !<sup>1</sup>  
*Callicostella rivularis* (Mitt.) A. Jaeger (Buck, 1998) !<sup>1,2</sup>  
*Calymperes afzelii* Sw. (Reese, 1993) !<sup>1,2</sup>  
*Calymperes erosum* Müll. Hal. (Reese, 1993)  
*Calymperes guildingii* Hook. et Grev. (Reese, 1993) !<sup>2</sup>  
*Calymperes lonchophyllum* Schwägr. (Reese, 1993) !<sup>1,2</sup>  
*Calymperes nicaraguense* Ren. et Card. (Questel, 1951; ELB 1165 NY) !<sup>1</sup>  
*Calymperes palisotii* Schwägr. (Reese, 1993) !<sup>1,2</sup>  
*Calymperes pallidum* Mitt. (Reese, 1993)  
*Calymperes rubiginosum* (Mitt.) W.D. Reese (Foucault, 1977 as *C. rufum* Herz.) (6)  
*Calymperes venezuelanum* (Mitt.) Broth. ex Pittier (Reese, 1993) !<sup>1</sup>  
*Campylium stellatum* (Hedw.) C.E.O. Jensen (Buck, 1998)  
*\*Campylopus arctocarpus* (Hornsch.) Mitt. var. *arctocarpus* (ELB 686) !<sup>1</sup>  
*\*Campylopus flexuosus* (Hedw.) Brid. var. *flexuosus* (ELB 989) !<sup>1</sup>  
*Campylopus richardii* Brid. (Frahm, 1991) !<sup>1</sup>  
*Chryso-Hypnum diminutivum* (Hampe) W.R. Buck (Buck, 1998) !<sup>1</sup>  
*Crossomitrium epiphyllum* (Mitt.) Müll. Hal. (Buck, 1998) !<sup>2</sup>  
*Crossomitrium patrisiae* (Brid.) Müll. Hal. (Buck, 1998)

- Cyclodictyon albicaule* (Besch.) Kuntze. (Buck, 1998) !<sup>1</sup>  
*Cyclodictyon bicolor* (Schimp. ex Besch.) Kuntze (Buck, 1998) !<sup>1</sup>  
*Cyrto-Hypnum involvens* (Hedw.) W.R. Buck (Buck, 1998) !<sup>1,2</sup>  
 \**Cyrto-Hypnum scabrosulum* (Mitt.) W.R. Buck (ELB 1048 NY) !<sup>1</sup>  
 \**Cyrto-Hypnum schistocalyx* (Müll. Hal.) W.R. Buck (ELB 883 NY) !<sup>1</sup>  
*Daltonia longifolia* Taylor (Buck, 1998) !<sup>2</sup>  
*Daltonia stenophylla* Mitt. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>  
*Dicranella guadelupensis* Mitt. (Duss, 1903 as *D. homomalia* Besch.)  
 \**Dicranella brachyblepharis* (Müll. Hal.) Mitt. (ELB 1125 NY) !<sup>1</sup>  
 \**Dicranella harrisii* (Müll. Hal.) Broth. (ELB 554, 570 NY) !<sup>1</sup>  
*Dicranella hilariana* (Mont.) Mitt. (Duss, 1903 as *D. herminieri* Besch.) !<sup>1</sup>  
*Dicranella longirostris* (Schwägr.) Mitt. (Bescherelle, 1876 as *Microdus longirostris* Schwägr.; specimen Hb Bescherelle BESAB26 PC examined by ELB)  
*Dicranella perrottetii* (Mont.) Mitt. (Duss, 1903)  
*Dicranella remotifolia* Besch. (Bescherelle, 1876)  
*Dicranella reticulata* (Müll. Hal.) Paris (Duss, Specimen ID: 620504 NY, det. W. S. Sullivant)  
*Ecetropothecium leptochaeton* (Schwägr.) W.R. Buck (Buck, 1998)  
*Entodontopsis leucostega* (Brid.) W.R. Buck et Ireland (Buck, 1998) !<sup>1,2</sup>  
*Entosthodon bonplandii* (Hook.) Mitt. (N. G. Slack G59 NY; Frère Fabius LeBlanc 2021 NY) !<sup>2</sup>  
 \**Epipterygium wrightii* (Sull.) Lindb. (ELB 770 NY) !<sup>1</sup>  
*Eucamptodontopsis pilifera* (Mitt.) Broth. (Duss, 1903 as *Holomitrium piliferum* Mitt.) !<sup>2</sup>  
*Eulacophyllum cultelliforme* (Sull.) W.R. Buck (Buck, 1998) !<sup>1,2</sup>  
*Fissidens asplenioides* Hedw. (Pursell, 2007) !<sup>1,2</sup>  
*Fissidens elegans* Brid. (Pursell, 2007) !<sup>1</sup>  
*Fissidens flaccidus* Mitt. (Pursell, 2007)  
*Fissidens guianensis* var. *guianensis* Mont. (Foucault, 1977 as *F. guianensis* Mont.) !<sup>1</sup>  
 \**Fissidens inaequalis* Mitt. (ELB 1135) !<sup>1</sup>  
*Fissidens intrmarginatus* (Hampe) A. Jaeger (Pursell, 2007)  
*Fissidens lagenarius* var. *lagenarius* Mitt. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>  
*Fissidens lagenarius* var. *muriculatus* (Spruce ex Mitt.) Pursell (Pursell, 2007)  
*Fissidens oblongifolius* Hook. et Wilson (Pursell, 2007) !<sup>1</sup>  
*Fissidens ornatus* Herzog (Pursell, 2007)  
 \**Fissidens pallidinervis* Mitt. (ELB 1087 NY) !<sup>1</sup>  
*Fissidens pellucidus* var. *pellucidus* Hornsch. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>  
*Fissidens polypodioides* Hedw. (Pursell, 2007) !<sup>1,2</sup>  
*Fissidens radicans* Mont. (Pursell, 2007) !<sup>1</sup>  
*Fissidens rochensis* Broth. (Pursell, 2007)  
 \**Fissidens santa-clarensis* Thér. (ELB 867) !<sup>1</sup>  
*Fissidens stenopteryx* Besch. (Pursell, 2007)  
 \**Fissidens serratus* var. *serratus* Müll. Hal. (ELB 856, 1034) !<sup>1</sup>  
 \**Fissidens steerei* Grout (ELB 885 NY) !<sup>1</sup>  
*Fissidens submarginatus* Bruch (Pursell, 2007)  
*Fissidens tumescens* Pursell et F. Müll. (Pursell & Müller, 2008)  
*Fissidens weirii* Mitt. var. *hemicraspedophyllus* Pursell (Pursell, 2007) !<sup>1</sup>  
*Fissidens weirii* var. *weirii* Mitt. (Pursell, 2007) !<sup>1</sup>  
*Fissidens zollingeri* Mont. (Pursell, 2007) !<sup>1</sup>

- Groutiella apiculata* (Hook) Crum *et* Steere (Duss, 1903 as *Macromitrium brevipes* Müll. Hal.) !<sup>2</sup>
- Groutiella husnotii* (Schimp. *ex* Besch.) H.A. Crum *et* Steere (Duss, 1903 as *Macromitrium husnotii* Schimp.)
- Groutiella mucronifolia* (Hook. *et* Grev.) Crum *et* Steere (Duss, 1903 as *Macromitrium mucronifolium* (Hook. *et* Grev.) Schwägr.) !<sup>1</sup>
- Groutiella tomentosa* (Hornsch.) Wijk. *et* Marg. (Bescherelle, 1876 as *Macromitrium fragile* Mitt.)
- Haplocladium microphyllum* (Hedw.) Broth. (Foucault, 1977) !<sup>1,2</sup>
- Hemiragis aurea* (Brid.) Kindb. (Buck, 1998)
- Homalia glabella* (Hedw.) Bruch *et* Schimp. (Buck, 1998) !<sup>1,2</sup>
- Homali dendron piniforme* (Brid.) Enroth (Buck, 1998) !<sup>1,2</sup>
- Hookeriopsis leiophylla* (Besch.) A. Jaeger (Buck, 1998)
- Hookeriopsis luteorufescens* (Besch.) A. Jaeger (Buck, 1998)
- Hyophila involuta* (Hook) Jaegr. (Duss, 1903 as *H. mollis* Broth.; Foucault, 1977) !<sup>1</sup>
- Hyophiladelphus agrarius* (Hedw.) R.H. Zander (Zander, 1979) !<sup>1,2</sup>
- Hypnella leptorrhyncha* (Hook. *et* Grev.) A. Jaeger (Buck, 1998) !<sup>1,2</sup>
- Hypnella pallescens* (Hook.) A. Jaeger (Buck, 1998)
- Hypnum cupressiforme* Hedw. (Bescherelle, 1876)
- Hypnum polypterum* (Mitt.) Broth. (Buck, 1998)
- Isodrepanium lentulum* (Wilson) E. Britton (Buck, 1998)
- Isopterygium brachyneuron* (Müll. Hal.) Mitt. (Buck, 1998)
- Isopterygium tenerum* (Sw.) Mitt. (Buck, 1998)
- Isopterygium tenerifolium* Mitt. (Buck, 1998)
- Lepidopilidium portoricense* (Müll. Hal.) H.A. Crum (Buck, 1998) !<sup>2</sup>
- Lepidopilum polytrichoides* (Hedw.) Brid. (Buck, 1998) !<sup>1</sup>
- Lepidopilum brevipes* Mitt. (Duss, 1903 as *L. antillarum* Besch.)
- Lepidopilum longifolium* Hampe (Buck, 1998)
- Lepidopilum scabrisetum* (Schwägr.) Steere (Buck, 1998) !<sup>1,2</sup>
- Lepyrodontopsis trichophylla* (Hedw.) Broth. (Buck, 1998) !<sup>1,2</sup>
- Leskeodon andicola* (Mitt.) Broth. (Buck, 1998) !<sup>1,2</sup>
- Leskeodon auratus* (Müll. Hal.) Broth. (Buck, 1998)
- Leskeodon cubensis* (Mitt.) Ther. (Buck, 1998) !<sup>2</sup>
- Leskeodon palmarum* (Mitt.) Broth. (Buck, 1998)
- \**Leucobryum albicans* (Schwägr.) Lindb. (*ELB* 450 NY) !<sup>1</sup>
- Leucobryum antillarum* Schimp. *ex* Besch. (Duss, 1903) !<sup>1</sup>
- Leucobryum crispum* Müll. Hal. (Foucault, 1977) !<sup>1</sup>
- Leucobryum giganteum* Müll. Hal. (Foucault, 1977) !<sup>1</sup>
- Leucobryum martianum* (Hornsch) Hampe *ex* Müll. Hal. (Duss, 1903) !<sup>1</sup>
- Leucoloma albulum* (Sull.) A. Jaeger (Duss, 1903)
- Leucoloma cruegerianum* (Müll. Hal.) A. Jaeger (Questel, 1951; *ELB* 1294 NY) !<sup>1</sup>
- Leucoloma mariei* Besch. (Foucault, 1977; specimen Bescherelle leg. Marie BESB865, PC examined by ELB)
- Leucoloma serrulatum* Brid. (Duss, 1903) !<sup>1</sup>
- Leucoloma tortellum* (Mitt.) A. Jaeger (Duss, 1903) !<sup>1,2</sup>
- Leucomium strumosum* (Hornsch.) Mitt. (Buck, 1998) !<sup>2</sup>
- Leucophanes molleri* Müll. Hal. (Salazar Allen, 1993) !<sup>2</sup>
- \**Luisierella barbula* (Schwägr.) Steere (*ELB* 1050 NY) !<sup>1</sup>
- Macromitrium cirrosum* (Hedw.) Brid. (Duss, 1903 as *M. cirrosum* Brid.) !<sup>2</sup>
- Macromitrium clavatum* Schimp. *ex* Grout (Yano, 2004 as *M. clavatum* Grout)
- Macromitrium dubium* Schimp. *ex* Müll. Hal. (Duss, 1903)



- Macromitrium leprieurii* Mont. (Goffinet, 1993)  
*Macromitrium perichaetiale* (Hook. et Grev.) Müll. Hal. (Duss, 1903)  
*Macromitrium podocarpi* Müll. (Foucault, 1977) (7)  
*Macromitrium richardii* Schwägr. (Duss, 1903 as *M. insularum* Mitt.)  
*Macromitrium scoparium* Mitt. (Foucault, 1977) !<sup>1</sup>  
*Macromitrium strictifolium* Müll. Hal. (Duss, 1903)  
*Meiothecium boryanum* (Müll. Hal.) Mitt. (Buck, 1998) !<sup>1,2</sup>  
*Meteoridium remotifolium* (Müll. Hal.) Manuel (Buck, 1998) !<sup>1</sup>  
*Meteorium deppeii* (Müll. Hal.) Mitt. (Buck, 1998) !<sup>1</sup>  
*Meteorium nigrescens* (Hedw.) Dozy et Molk. (Buck, 1998) !<sup>1,2</sup>  
\**Microcampylopus leucogaster* (Müll. Hal.) B.H. Allen (*ELB 841 NY*) !<sup>1</sup>  
*Mittenothamnium reptans* (Hedw.) Card. (Buck, 1998) !<sup>1</sup>  
*Neckeropsis disticha* (Hedw.) Kindb. (Buck, 1998) !<sup>1,2</sup>  
*Neckeropsis undulata* (Hedw.) Reichardt (Buck, 1998) !<sup>1</sup>  
*Octoblepharum albidum* Hedw. (Duss, 1903) !<sup>1,2</sup>  
*Octoblepharum pulvinatum* (Dozy et Molk.) Mitt. (Foucault, 1977) !<sup>1,2</sup>  
*Octoblepharum erectifolium* Mitt. ex Williams (Sloover, 1981) !<sup>1</sup>  
*Orthostichopsis praetermissa* W.R. Buck (Buck, 1998) !<sup>2</sup>  
*Philonotis elongata* (Dism.) Crum et Steere (Foucault, 1977) !<sup>2</sup>  
\**Philonotis hastata* (Duby) Wijk et Margad. (*ELB 437 NY*) !<sup>1</sup>  
\**Philonotis longiseta* (Michx.) Britt. (*ELB 1342*) !<sup>1</sup>  
*Philonotis sphaerocarpa* (Hedw.) Brid. (Bescherelle, 1876)  
*Philonotis uncinata* var. *uncinata* (Schwägr.) Brid. (Duss, 1903) !<sup>1</sup> (8)  
*Philonotis uncinata* var. *glaucescens* (Hornsch.) Florsch. (Questel, 1951) (8)  
*Philonotis uncinata* var. *gracillima* (Hornsch.) Florsch. (Questel, 1951 as *P. gracillima* (Hornsch.) Par.) (8)  
*Phyllogonium fulgens* (Hedw.) Brid. (Buck, 1998) !<sup>1</sup>  
*Phyllogonium viride* Brid. (Buck, 1998)  
*Pilopogon guadeloupensis* (Brid.) Frahm. (Frahm, 1991) !<sup>1</sup>  
*Pilotrichella flexilis* (Hedw.) Ängstr. (Buck, 1998)  
*Pilotrichidium antillarum* Besch. (Buck, 1998) !<sup>1</sup>  
*Pilotrichum bipinnatum* (Schwägr.) Brid. (Buck, 1998) !<sup>1</sup>  
*Pilotrichum debile* Besch. (Buck, 1998)  
*Pilotrichum divaricatum* Mitt. (Buck, 1998) !<sup>1</sup>  
*Pilotrichum evanescens* (Müll. Hal.) Crosby (Buck, 1998) !<sup>1,2</sup>  
*Pilotrichum husnotii* Schimp. ex Besch. (Buck, 1998) !<sup>1,2</sup>  
*Pilotrichum procerum* Mitt. (Buck, 1998) !<sup>1,2</sup>  
\**Pinnatella minuta* (Mitt.) Broth. (*ELB 1297 NY*) !<sup>1</sup>  
*Pirella angustifolia* (Müll. Hal.) Arzeni (Buck, 1998) !<sup>2</sup>  
*Pirella cymbifolia* (Sull.) Card. (Buck, 1998)  
*Pirella husnotiana* (Besch.) Card. (Buck, 1998)  
*Pirella pohlii* (Schwägr.) Card. (Foucault, 1977)  
*Pogonatum tortile* (Sw.) Brid. (Duss, 1903) !<sup>1,2</sup>  
*Pohlia papillosa* (Müll. Hal. ex Jaeg.) Broth. (Bescherelle, 1876 as *Brachymenium subglobosum* Schimp.)  
*Porotrichum mutabile* Hampe (Buck, 1998) !<sup>1</sup>  
\**Prionodon densus* (Hedw.) Müll. Hal. (*ELB 1338 NY*) !<sup>1</sup>  
\**Pseudotrachypus martinicensis* (Broth.) W.R. Buck (*ELB 376, 401*) !<sup>1</sup>  
\**Pterobryon densum* Hornsch. (*ELB 405,451*) !<sup>1</sup>  
*Pterogonidium pulchellum* (Hook.) Müll. Hal. (Buck, 1998)  
*Pyrrhobryum spiniforme* (Hedw.) Mitt. (Duss, 1903 as *Rhizogonium spiniforme* L.) !<sup>1</sup>  
*Racopilum tomentosum* (Hedw.) Brid. (*Marie 135 NY*; Foucault, 1977)

- Rhacocarpus purpurascens* (Brid.) Paris (Duss, 1903 as *R. flavopilus* Sp.) !<sup>1</sup>  
*Rhacopilopsis trinitensis* (Müll. Hal.) E. Britton (Buck, 1998) !<sup>1,2</sup>  
*Rhamphidium dicranoides* (Müll. Hal.) Paris (Duss, 1903 as *Trichostomum dicranelloides* Schimp.) !<sup>1</sup>  
*Rhaphidostichum schwaneckeanum* (Müll. Hal.) Broth. (Buck, 1998)  
*Rhodobryum beyrichianum* (Hornsch.) Müll. Hal. (Duss, 1903 as *Bryum antillarum* Schimp.) !<sup>1</sup> (9)  
*Rhodobryum commersonii* (Schwägr.) Paris (*Duss 1716* NY, det. H. Ochi 27 Aug 1974 as *Bryum commersonii* (Schwägr.) Brid.) (9)  
*Rhodobryum dominguense* (Brid.) Besch. (Foucault, 1977) (9)  
*Rhynchostegiopsis flexuosa* (Sull.) Müll. Hal. (Buck, 1998)  
*Schlotheimia appressifolia* Mitt. (Atwood, 2009)  
*\*Schlotheimia rugifolia* (Hook.) Schwägr. (*ELB 473* NY) !<sup>1</sup>  
*Sematophyllum adnatum* (Michx.) E. Britton (Buck, 1998) !<sup>1</sup>  
*Sematophyllum galipense* (Müll. Hal.) Mitt. (Buck, 1998) !<sup>1,2</sup>  
*Sematophyllum subpinnatum* (Brid.) E. Britton (Buck, 1998) !<sup>2</sup>  
*Sematophyllum subsimplex* (Hedw.) Mitt. (Buck, 1998)  
*Sematophyllum swartzii* (Schwägr.) Welch *et* Crum (Buck, 1998) !<sup>2</sup>  
*Sematophyllum tequendamense* (Hampe) Mitt. (Buck, 1998)  
*Sphagnum meridense* (Hampe) Müll. Hal. (Foucault, 1977) !<sup>1</sup>  
*Sphagnum perichaetiale* Hampe (Duss, 1903 as *S. guadalupense* Schimp.) !<sup>1</sup>  
*Sphagnum portoricense* Hampe (Duss, 1903)  
*Splachnobryum obtusum* (Brid.) Müll. Hal. (Duss, 1903 as *S. mariei* Besch.)  
*Squamidium leucotrichum* (Taylor) Broth. (Buck, 1998) !<sup>1</sup>  
*Squamidium nigricans* (Hook.) Broth. (Buck, 1998)  
*Stereobryon subulirostrum* (Schimp. *ex* Besch.) G.L. Sm. (Sloover, 1981)  
*Syrhopodon circinatus* (Brid.) Mitten (Reese, 1993)  
*Syrhopodon gaudichaudii* Mont. (Reese, 1993) !<sup>1</sup>  
*Syrhopodon incompletus* var. *incompletus* Schwägr. (Reese, 1993) !<sup>1,2</sup>  
*Syrhopodon incompletus* var. *berteroanus* (Brid.) Reese (Reese, 1993)  
*Syrhopodon ligulatus* Mont. (Reese, 1993) !<sup>2</sup>  
*Syrhopodon lycopodioides* (Sw. *ex* Brid.) Müll. Hal. (Reese, 1993) !<sup>1,2</sup>  
*Syrhopodon parasiticus* (Brid.) Besch. (Schäfer-Verwimp & Reiner-Drehwald, 2009) !<sup>2</sup>  
*Syrhopodon prolifer* Schwägr. var. *cincinnatus* (Hampe) Reese (Reese, 1993)  
*Syrhopodon prolifer* Schwägr. var. *prolifer* (Foucault, 1977 as *S. prolifer* Schwägr.) !<sup>1</sup>  
*Syrhopodon prolifer* var. *scaber* (Mitt.) Reese (Reese, 1993) !<sup>1,2</sup>  
*Syrhopodon rigidus* Hook. *et* Grev. (Reese, 1993) !<sup>1,2</sup>  
*\*Taxiphyllum taxirameum* (Mitt.) M. Fleisch. (*ELB 1268* NY) !<sup>1</sup>  
*Taxithelium planum* (Brid.) Mitt. (Buck, 1998) !<sup>1,2</sup>  
*Taxithelium pluripunctatum* (Renault *et* Cardot) W.R. Buck (Duss, 1903 as *T. thelidiellum* Besch.)  
*Thamniopsis undata* (Hedw.) W.R. Buck (Buck, 1998) !<sup>2</sup>  
*Thuidium tomentosum* Schimp. (Buck, 1998) !<sup>1,2</sup>  
*Thuidium urceolatum* Lorentz (Buck, 1998)  
*Trachyxiophium guadalupense* (Brid.) W.R. Buck (Buck, 1998) !<sup>1,2</sup>  
*Trematodon longicollis* Michx. (Bescherelle, 1876 as *T. tenellus* Sch.)  
*Trichosteleum sentosum* (Sull.) A. Jaeger (Buck, 1998) !<sup>2</sup>  
*Trichosteleum microstegium* (Besch.) A. Jaeger (Buck, 1998)  
*Trichosteleum brachydictyon* (Besch.) A. Jaeger (Buck, 1998)  
*Trichosteleum glaucinum* (Besch.) A. Jaeger (Buck, 1998) **known only from the type**



- Trichosteleum subdemissum* (Besch.) A. Jaeger (Buck, 1998)  
*Trichosteleum vinctinum* (Mitt.) A. Jaeger (Duss, 1903 as *Rhaphidostegium vinctinum* Mitt.) !<sup>2</sup>  
 \**Trichostomum portoricense* Crum et Steere (*ELB 1080 NY*) !<sup>1</sup>  
*Trichostomum sinaloensis* (Bartr.) Zand. (Duss, 1903 as *Hyophylla guadalupensis* Broth.) !<sup>1</sup>  
*Vesicularia vesicularis* var. *rutilans* (Brid.) W.R. Buck (Buck, 1998) !<sup>1</sup>  
*Vesicularia vesicularis* var. *portoricensis* (Brid.) W.R. Buck (Buck, 1998) !<sup>1</sup>  
 \**Vesicularia vesicularis* var. *vesicularis* (Schwägr.) Broth. (*ELB 881, ELB 882*) !<sup>1</sup>  
*Weissia controversa* Hedw. (Foucault, 1977 as *W. controversa* Hedw. var. *australis* (Aust.) Schorn.) !<sup>1</sup>  
 \**Weissia jamaicensis* (Mitt.) Grout (*ELB 1463*) !<sup>1</sup>  
*Zelometeorium patulum* (Hedw.) Manuel (Buck, 1998) !<sup>1</sup>

MARIE-GALANTE

- \**Acroporium longirostre* (Brid.) W.R. Buck (*ELB 485 NY*) !<sup>1</sup>  
 \**Bryum apiculatum* Schwägr. (*ELB 1074*) !<sup>1</sup>  
 \**Callicostella rivularis* (Mitt.) A. Jaeger (*ELB 486*) !<sup>1</sup>  
 \**Calymperes palisotii* Schwägr. (*ELB 478*) !<sup>1</sup>  
 \**Chryso-Hypnum diminituvum* (Hampe) W.R. Buck (*ELB 1031*) !<sup>1</sup>  
 \**Cyrto-Hypnum involvens* (Hedw.) W.R. Buck (*ELB 498*) !<sup>1</sup>  
 \**Fissidens elegans* Brid. (*ELB 484*) !<sup>1</sup>  
 \**Fissidens santa-clarensis* Thér. (*ELB 475,483*) !<sup>1</sup>  
 \**Fissidens serratus* var. *serratus* Müll. Hal. (*ELB 1044*) !<sup>1</sup>  
 \**Fissidens weirii* var. *weirii* Mitt. (*ELB 1134*) !<sup>1</sup>  
 \**Fissidens zollingeri* Mont. (*ELB 409*) !<sup>1</sup>  
 \**Hyophila involuta* (Hook) A. Jaeger (*ELB 479*) !<sup>1</sup>  
 \**Neckeropsis disticha* (Hedw.) Kindb. (*ELB 1033*) !<sup>1</sup>  
 \**Neckeropsis undulata* (Hedw.) Reichardt (*ELB 1041*) !<sup>1</sup>  
 \**Octoblepharum albidum* Hedw. (*ELB 476, 477*) !<sup>1</sup>  
 \**Rhynchostegiopsis flexuosa* (Sull.) Müll. Hal. (*ELB 482*) !<sup>1</sup>  
 \**Sematophyllum adnatum* (Michx.) E. Britton (*ELB 494*) !<sup>1</sup>  
 \**Taxithelium planum* (Brid.) Mitt. (*ELB 491*) !<sup>1</sup>  
 \**Trichostomum sinaloensis* (Bartr.) R.H. Zander (*ELB 1128*) !<sup>1</sup>  
 \**Vesicularia vesicularis* var. *portoricensis* (Brid.) W.R. Buck (*ELB 410*) !<sup>1</sup>  
 \**Vesicularia vesicularis* var. *rutilans* (Brid.) W.R. Buck (*ELB 1035*) !<sup>1</sup>  
 \**Weissia jamaicensis* (Mitt.) Grout (*ELB 481*) !<sup>1</sup>  
 \**Zelometeorium patulum* (Hedw.) Manuel (*ELB 542*) !<sup>1</sup>

LA DÉsirADE

- \**Eulacophyllum cultelliforme* (Sull.) W.R. Buck (*ELB 940*) !<sup>1</sup>  
 \**Fissidens hornschurchii* Mont. (*ELB 952 NY*) !<sup>1</sup>  
 \**Fissidens palmatus* Hedw. (*ELB 950 NY,951 NY*) !<sup>1</sup>  
 \**Fissidens submarginatus* Bruch. (*ELB 945*) !<sup>1</sup>  
 \**Hyophila involuta* (Hook.) A. Jaeger (*ELB 941, 942*) !<sup>1</sup>  
 \**Hyophiladelphus agrarius* (Hedw.) R.H. Zander (*ELB 657, 678*) !<sup>1</sup>  
 \**Luisierella barbula* (Schwägr.) Steere (*ELB 958 NY*) !<sup>1</sup>  
 \**Octoblepharum albidum* Hedw. (*ELB 630*) !<sup>1</sup>  
 \**Sematophyllum adnatum* (Michx.) E. Britton (*ELB 954*) !<sup>1</sup>  
 \**Trichostomum sinaloensis* (Bartr.) R.H. Zander (*ELB 959*) !<sup>1</sup>  
 \**Ulebryum cf. peruvianum* Broth. (*ELB 956*) !<sup>1</sup>  
 \**Vesicularia vesicularis* var. *rutilans* (Brid.) W.R. Buck (*ELB 943*) !<sup>1</sup>

\**Weissia controversa* Hedw. (ELB 957) !<sup>1</sup>

#### LES SAINTES ARCHIPELAGO

- Terre de Haut

*Acroporium longirostre* (Brid.) W.R. Buck (Sloover, 1983)

\**Bryum apiculatum* Schwägr. (ELB 1107) !<sup>1</sup>

*Bryum capillare* Hedw. (Sloover, 1983)

*Calymperes afzelii* Sw. (Sloover, 1983)

*Calymperes palisotii* Schwägr. (Sloover, 1983) !<sup>1</sup>

*Fissidens angustifolius* Sull. (Pursell, 2007)

*Fissidens elegans* Brid. (Sloover, 1983) !<sup>1</sup>

*Fissidens hornschuchii* Mont. (Pursell, 2007)

*Fissidens pallidinervis* Mitt. (Pursell, 2007)

\**Fissidens weirii* var. *weirii* Mitt. (ELB 1112) !<sup>1</sup>

*Fissidens zollingeri* Mont. (Pursell, 2007) !<sup>1</sup>

*Hyophila involuta* (Hook) Jaegr. (Sloover, 1983)

*Hyophiladelphus agrarius* (Hedw.) R.H. Zander (Sloover, 1983)

*Luisierella barbula* (Schwägr.) Steere (Sloover, 1983)

*Philonotis sphaerocarpa* (Hedw.) Brid. (Sloover, 1983)

*Trichostomum sinaloensis* (Bartr.) Zand. (Sloover, 1983)

\**Weissia breutelii* Müll. Hal. (ELB 1108 NY) !<sup>1</sup>

*Weissia jamaicensis* (Mitt.) Grout (Sloover, 1983)

- Terre de Bas

\**Bryum leptocladon* Sull. (ELB 812 NY) !<sup>1</sup>

\**Calymperes palisotii* Schwägr. (ELB 808) !<sup>1</sup>

\**Entodontopsis leucostega* (Brid.) W.R. Buck et Ireland (ELB 1115) !<sup>1</sup>

\**Eulacophyllum cultelliforme* (Sull.) W.R. Buck (ELB 1113) !<sup>1</sup>

\**Fissidens angustifolius* Sull. (ELB 810) !<sup>1</sup>

\**Fissidens hornschuchii* Mont. (ELB 814 NY) !<sup>1</sup>

\**Fissidens submarginatus* Bruch (ELB 809) !<sup>1</sup>

\**Fissidens steerei* Grout (ELB 1117) !<sup>1</sup>

\**Fissidens zollingeri* Mont. (ELB 815) !<sup>1</sup>

\**Philonotis uncinata* var. *glaucescens* (Hornsch.) Florsch. (ELB 811 NY) !<sup>1</sup> (8)

\**Taxithelium planum* (Brid.) Mitt. (ELB 1116) !<sup>1</sup>

#### MARTINIQUE

\**Acroporium estrellae* (Müll. Hal.) W.R. Buck (ELB 1212 NY) !<sup>1</sup>

*Acroporium pungens* (Hedw.) Broth. (Buck, 1998) !<sup>1</sup>

*Acroporium caespitosum* (Hedw.) W.R. Buck (Buck, 1998)

*Acroporium longirostre* (Brid.) W.R. Buck (Buck, 1998)

*Actinodontium intergrifolium* (Broth.) S.P. Churchill (Buck, 1998)

*Anoetangium aestivum* (Hedw.) Mitt. (Welch & Crum, 1970)

\**Aptychella prolifera* (Besch.) Herzog (ELB 1172) !<sup>1</sup>

*Barbula arcuata* Griff. (Welch et Crum, 1970 as *B. subulifolia* Sull.)

*Barbula husnotii* Schimp ex Besch. (Zander, 1979)

*Barbula indica* (Hook.) Spreng. (Zander, 1979)

*Brachymenium wrightii* (Sull.) Broth. (Duss, 1903 as *Bryum wrightii* Sull.)

*Breutelia inclinata* (Hampe et Lorentz) A. Jaeger (Duss 275 NY, det. D.G. Griffin May 1986)

*Breutelia scoparia* (Schwägr.) A. Jaeger (Duss, 1903) !<sup>1</sup>

*Breutelia tomentosa* (Sw. ex Brid.) A. Jaeger (Crosby 4703 NY) !<sup>1</sup>

- Bryum apiculatum* Schwägr. (Welch & Crum, 1970 as *Pohlia cruegeri* (Hampe) Andrews) !<sup>1</sup>  
*Bryum argenteum* Hedw. (Duss, 1903)  
 \**Bryum capillare* Hedw. (ELB 1074) !<sup>1</sup>  
*Bryum leptocladon* Sull. (Crum et Steere, 1957)  
*Bryum limbatum* Müll. Hal. (*M. Stehlé* 4088 NY)  
*Callicostella belangeriana* (Besch.) A. Jaeger (Buck, 1998)  
*Callicostella pallida* (Hornsch.) Ångstr. (Duss, 1903 as *Hookeria radicans* Besch.)  
*Callicostella rivularis* (Mitt.) A. Jaeger (Buck, 1998) !<sup>1</sup>  
 \**Calymperes afzelii* Sw. (ELB 827, 1185) !<sup>1</sup>  
*Calymperes erosum* Müll. Hal. (Reese, 1993)  
*Calymperes guildingii* Hook. et Grev. (Reese, 1993)  
*Calymperes lonchophyllum* Schwägr. (Reese, 1993) !<sup>1</sup>  
*Calymperes palisotii* Schwägr. (Reese, 1993) !<sup>1</sup>  
*Campylopus richardii* Brid. (Frahm, 1991)  
*Chryso-Hypnum diminitivum* (Hampe) W.R. Buck (Buck, 1998) !<sup>1</sup>  
*Crossomitrium epiphyllum* (Mitt.) Müll. (Buck, 1998)  
*Crossomitrium patrisiae* (Brid.) Müll. (Buck, 1998)  
*Cyclodictyon albicans* (Hedw.) Kuntze (Duss, 1903 as *Hookeria subalbicaulis* var. *gracilis* Broth., nom.nud.; ELB 622) !<sup>1</sup>  
*Cyclodictyon albicaule* (Besch.) Kuntze (Buck, 1998) !<sup>1</sup>  
*Cyclodictyon bicolor* (Schimp. ex Besch.) Kuntze (Buck, 1998)  
*Cyrt-Hypnum involvens* (Hedw.) W.R. Buck (Welch & Crum, 1970 as *Thuidium involvens* (Hedw.) Mitt.)  
*Daltonia longifolia* Taylor (Buck, 1998) !<sup>1</sup>  
*Dicranella guadelupensis* Mitt. (*Duss* 177 NY as *D. perrotteti* Mont. det. R. S. Williams)  
*Dicranella hilariana* (Mont.) Mitt. (Welch & Crum, 1970 as *D. subinclinata* Lor.)  
*Dicranella longirostris* (Schwägr.) Mitt. (Bescherelle, 1876 as *Microdus longirostris* Schwägr.)  
*Dicranella martinicae* Broth. (Duss, 1903)  
*Dicranella perrottetii* (Mont.) Mitt. (Duss, 1903)  
*Dicranella remotifolia* Besch. (Bescherelle, 1876)  
*Ectropothecium leptochaeton* (Schwägr.) W.R. Buck (Buck, 1998)  
*Entosthodon bonplandii* (Hook.) Mitt. (Duss, 1903 as *E. husnoti* Schimp.)  
*Epipterygium wrightii* (Sull.) Lindenb. (Shaw, 1984) !<sup>1</sup>  
*Eucampodontopsis pilifera* (Mitt.) Broth. (Duss, 1903 as *Holomitrium piliferum* Mitt.)  
*Eulacophyllum cultelliforme* (Sull.) W.R. Buck (Buck, 1998)  
*Fissidens asplenioides* Hedw. (Pursell, 2007) !<sup>1</sup>  
*Fissidens dissitifolius* Sull. (Pursell, 2007)  
*Fissidens elegans* Brid. (Pursell, 2007) !<sup>1</sup>  
*Fissidens flaccidus* Mitt. (Pursell, 2007) !<sup>1</sup>  
 \**Fissidens hornschurchii* Mont. (ELB 1075 NY) !<sup>1</sup>  
*Fissidens intromarginatus* (Hampe) A. Jaeger (Pursell, 2007) !<sup>1</sup>  
 \**Fissidens palmatus* Hedw. (ELB 1171) !<sup>1</sup>  
*Fissidens polypodioides* Hedw. (Pursell, 2007)  
 \**Fissidens radicans* Mont. (ELB 1057, 1072) !<sup>1</sup>  
*Fissidens zollingeri* Mont. (Pursell, 2007) !<sup>1</sup>  
*Groutiella apiculata* (Hook.) Crum et Steere (Welch & Crum, 1970) !<sup>1</sup>  
*Groutiella husnotii* (Schimp. ex Besch.) Crum et Steere (*Stehlé* 3884 NY det. B. Goffinet, Jan 1994)

- Groutiella mucronifolia* (Hook. et Grev.) Crum et Steere (Duss, 1903 as *Macromitrium mucronifolium* Schwägr.)  
*Hemiragis aurea* (Brid.) Kindb. (Buck, 1998) !<sup>1</sup>  
 \**Homalia glabella* (Hedw.) Bruch et Schimp. (*ELB 1220*) !<sup>1</sup>  
*Hookeriopsis leiophylla* (Besch.) A. Jaeger (Buck, 1998)  
*Hookeriopsis luteorufescens* (Besch.) A. Jaeger (Buck, 1998)  
*Hyophila involuta* (Hook) Jaegr. (Welch & Crum, 1970) !<sup>1</sup>  
*Hyophiladelphus agrarius* (Hedw.) R.H. Zander (Zander, 1979)  
*Hypnella leptorrhyncha* (Hook. et Grev.) A. Jaeger (Buck, 1998)  
*Hypnella pallescens* (Hook.) A. Jaeger (Buck, 1998)  
*Isodrepanium lentulum* (Wilson) E. Britton (Buck, 1998)  
*Isopterygium brachyneuron* (Müll. Hal.) Mitt. (Buck, 1998)  
*Isopterygium subbrevisetum* (Hampe) Broth. (Buck, 1998)  
*Isopterygium tenerum* (Sw.) Mitt. (Buck, 1998)  
*Isopterygium tenerifolium* Mitt. (Buck, 1998) !<sup>1</sup>  
*Lepidopilum polytrichoides* (Hedw.) Brid. (Buck, 1998) !<sup>1</sup>  
*Lepidopilum brevipes* Mitt. (Duss, 1903 as *L. antillarum* Besch.)  
*Lepidopilum scabrisetum* (Schwägr.) Steere (Buck, 1998) !<sup>1</sup>  
*Lepyrodontopsis trichophylla* (Hedw.) Broth. (Buck, 1998)  
*Leskeodon cubensis* (Mitt.) Ther. (Buck, 1998)  
*Leskeodon palmarum* (Mitt.) Broth. (Buck, 1998)  
*Leucobryum antillarum* Schimp. ex Besch. (Duss, 1903) !<sup>1</sup>  
*Leucobryum polakowskyi* (Müll. Hal. ex Besch.) Cardot (Welch & Crum, 1970)  
*Leucoloma albulum* (Sull.) Jaeg. (Duss, 1903)  
*Leucoloma cruegerianum* (Müll. Hal.) A. Jaeger (Welch & Crum, 1970) !<sup>1</sup>  
*Leucoloma serrulatum* Brid. (Duss, 1903) !<sup>1</sup>  
*Leucomium strumosum* (Hornsch.) Mitt. (Buck, 1998)  
*Macromitrium cirrosom* (Hedw.) Brid. (Welch & Crum, 1970) !<sup>1</sup>  
*Macromitrium dubium* Schimp. ex Müll. Hal. (Duss, 1903)  
*Macromitrium leprieurii* Mont. (Allen, 2002)  
*Macromitrium perichaetiale* (Hook. et Grev.) Müll. Hal. (Duss, 1903 as *M. perichaetiale* Hook. et Grev.)  
*Macromitrium scoparium* Mitt. (Bescherelle, 1879) !<sup>1</sup>  
*Macromitrium strictifolium* Müll. Hal. (Duss, 1903)  
*Meiothecium boryanum* (Müll. Hal.) Mitt. (Buck, 1998)  
*Meteoridium remotifolium* (Müll. Hal.) Manuel (Buck, 1998) !<sup>1</sup>  
*Meteorium deppei* (Müll. Hal.) Mitt. (Buck, 1998) !<sup>1</sup>  
*Mittenothamnium reptans* (Hedw.) Card. (Buck, 1998)  
*Neckeropsis disticha* (Hedw.) Kindb. (Buck, 1998) !<sup>1</sup>  
*Neckeropsis undulata* (Hedw.) Reichardt (Buck, 1998) !<sup>1</sup>  
*Octoblepharum albidum* Hedw. (Welch & Crum, 1970) !<sup>1</sup>  
*Orthostichopsis tetragona* (Hedw.) Broth. (Buck, 1998)  
*Orthostichopsis praetermissa* W.R. Buck (Buck, 1998)  
*Philonotis elongata* (Dism.) Crum et Steere (*Crosby 4700 NY*)  
*Philonotis sphaerocarpa* (Hedw.) Brid. (Welch & Crum, 1970)  
*Philonotis uncinata* var. *uncinata* (Schwägr.) Brid. (Welch & Crum, 1970) !<sup>1</sup> (8)  
*Philonotis uncinata* var. *glaucescens* (Hornsch.) Florsch. (Welch & Crum, 1970 as *P. glaucescens* (Hornsch.) Par.) (8)  
*Philonotis uncinata* var. *gracillima* (Hornsch.) Florsch. (Welch & Crum, 1970 as *P. gracillima* (Hornsch.) Par.) (8)  
*Phyllogonium fulgens* (Hedw.) Brid. (Buck, 1998) !<sup>1</sup>  
*Phyllogonium viride* Brid. (Buck, 1998)



- Pilotrichidium antillarum* Besch. (Buck, 1998)  
 \**Pilotrichum bipinnatum* (Schwägr.) Brid. (*ELB 1199*) !<sup>1</sup>  
*Pilotrichum debile* Besch. (Buck, 1998)  
*Pilotrichum divaricatum* Mitt. (Buck, 1998)  
*Pilotrichum evanescens* (Müll. Hal.) Crosby (Buck, 1998) !<sup>1</sup>  
*Pilotrichum husnotii* Schimp. ex Besch. (Buck, 1998)  
*Pilotrichum luciae* Crosby (Buck, 1998) **known only from Martinique**  
*Pilotrichum procerum* Mitt. (Buck, 1998) !<sup>1</sup>  
*Pireella angustifolia* (Müll. Hal.) Arzeni (Buck, 1998) !<sup>1</sup>  
 \**Pireella cymbifolia* (Sull.) Card. (*ELB 1188 NY*) !<sup>1</sup>  
*Pireella husnotiana* (Besch.) Card. (Buck, 1998)  
*Pogonatum tortile* (Sw.) Brid. (Welch & Crum, 1970)  
*Porotrichum mutabile* Hampe (Buck, 1998) !<sup>1</sup>  
*Pseudotrachypus martinicensis* (Broth.) W.R. Buck (Buck, 1998)  
*Pterogonium densum* Hornsch. (Welch & Crum, 1970)  
*Pterogonium pulchellum* (Hook.) Müll. Hal. (Buck, 1998)  
 \**Pyrrhobryum spiniforme* (Hedw.) Mitt. (*ELB 781*) !<sup>1</sup>  
*Rhacopilopsis trinitensis* (Müll. Hal.) E. Britton (Buck, 1998)  
*Rhamphidium dicranoides* (Müll. Hal.) Paris (Welch & Crum, 1970)  
*Rhaphidostichum schwaneckeanum* (Müll. Hal.) Broth. (Buck, 1998)  
*Rhodobryum beyrichianum* (Hornsch.) Müll. Hal. (Duss, 1903 as *Bryum antillarum* Schimp.) !<sup>1</sup> (9)  
*Rhodobryum commersonii* (Schwägr.) Paris (*Duss 7 NY*, det. H. Ochi Aug 1974 as *Bryum commersonii* (Schwägr.) Brid.) (9)  
 \**Sematophyllum cataractae* W.R. Buck (*ELB 1223 NY*) !<sup>1</sup>  
*Sematophyllum subpinnatum* (Brid.) E. Britton (Buck, 1998)  
*Sematophyllum galipense* (Müll. Hal.) Mitt. (Buck, 1998) !<sup>1</sup>  
 \**Sematophyllum subsimplex* (Hedw.) Mitt. (*ELB 1065*) !<sup>1</sup>  
*Splachnobryum obtusum* (Brid.) Müll. Hal. (Duss, 1903 as *S. mariei* Besch.)  
*Squamidium leucotrichum* (Taylor) Broth. (Welch & Crum, 1970)  
*Squamidium nigricans* (Hook.) Broth. (Buck, 1998)  
*Syrrhodon incompletus* Schwägr. var. *incompletus* (Reese, 1993) !<sup>1</sup>  
*Syrrhodon incompletus* Schwägr. var. *berteroanus* (Brid.) Reese (Reese, 1993)  
*Syrrhodon lycopodioides* (Sw. ex Brid.) Müll. Hal. (Reese, 1993)  
*Syrrhodon prolifer* Schwägr. var. *cinnatus* (Hampe) Reese (Reese, 1993)  
*Syrrhodon prolifer* Schwägr. var. *prolifer* (Reese, 1993)  
*Syrrhodon prolifer* Schwägr. var. *scaber* (Mitt.) Reese (Reese, 1993) !<sup>1</sup>  
*Syrrhodon rigidus* Hook. et Grev. (Reese, 1993)  
*Taxithelium planum* (Brid.) Mitt. (Buck, 1998) !<sup>1</sup>  
*Taxithelium pluripunctatum* (Ren. et Card.) W.R. Buck (Buck, 1998)  
*Thamniopsis undada* (Hedw.) W.R. Buck (Buck, 1998)  
*Thuidium tomentosum* Schimp. (Buck, 1998) !<sup>1</sup>  
*Trachypus viridulus* (Mitt.) Broth. (Buck, 1998)  
*Trachyxiphium guadalupense* (Brid.) W.R. Buck (Buck, 1998)  
*Trichosteleum sentosum* (Sull.) A. Jaeger (Buck, 1998)  
*Trichosteleum vincentinum* (Mitt.) A. Jaeger (Buck, 1998)  
*Trichostomum sinaloensis* (Bartr.) R.H. Zander (*Stehlé 3917 NY*) !<sup>1</sup>  
*Vesicularia vesicularis* var. *rutilans* (Brid.) W.R. Buck (Buck, 1998) !<sup>1</sup>  
*Vesicularia vesicularis* var. *portoricensis* (Brid.) W.R. Buck (Buck, 1998)  
*Weissia breutelii* Müll. Hal. (*Stehlé 3982 NY*)  
*Zelometeorium patulum* (Hedw.) Manuel (Buck, 1998) !<sup>1</sup>

## DISCUSSION

A total of 613 bryophyte species (361 liverworts, 242 mosses, 10 hornworts) are accepted for the Guadeloupe archipelago including 50 new records. The new records comprise 20 liverworts including two first records for the West Indies (*Cololejeunea pterocolea* and *Kurzia brasiliensis*), three new for the Lesser Antilles (*Lejeunea laeta*, *Taxilejeunea isocalycina* (also new record for Martinique) and *Frullanoides bahamensis* and one new genus of hornwort for the French Antilles, *Notothylas* (*N. breutelii*). Twenty-nine mosses are newly reported among which 9 new to the Lesser Antilles: *Cyrto-Hypnum schistocalyx*, *Dicranella harrisii*, *Fissidens santa-clarensis*, *Fissidens palmatus*, *Philonotis hastata*, *Prionodon densus*, *Schlotheimia rugifolia*, *Taxiphyllum taxirameum*, *Trichostomum portoricense*. Four genera are new to the Lesser Antilles: *Aptychella* (*A. proliger*), (new record for Martinique also), *Brymela* (*B. sp.*), *Pinnatella* (*P. minuta*) and *Prionodon* (*P. densus*).

Basse-Terre and Grande-Terre are usually treated as a single geographic unit (Guadeloupe). However, our bryophyte inventories (Lavocat Bernard, in prep.) suggest some significant bryological differences between Basse-Terre and Grande-Terre based on differences in substrate (limestone vs. volcanic soils) and vegetation types (humid vs. dry forests) of the two areas. Among the bryophytes collected exclusively in Grande-Terre, some are typically drought-tolerant, e.g. *Schiffneriolejeunea*, *Frullanoides*, *Notothylas* (Gradstein *et al.*, 2001), and *Hyophiladelphus agrarius* which often grows in direct and full sunlight (Allen, 2002); others are typical for limestone such as *Cyrto-Hypnum scabrosulum* (Buck, 1998) and *Luisierella barbula* (Allen, 2002).

Bryophytes of La Désirade and Marie-Galante, which are newly listed here, include 22 species for La Désirade (9 liverworts, 13 mosses) and 30 for Marie-Galante (7 liverworts, 23 mosses). *Fissidens palmatus* and *Mastigolejeunea auriculata* are new to the Lesser Antilles, and *Lejeunea phyllobola* and *Plagiochila micropteryx* new to the Guadeloupe archipelago.

The bryophyte flora of Les Saintes archipelago consists of an updated inventory for Terre-de-Haut with 22 taxa (4 liverworts and 18 mosses) and a primary inventory for Terre-de-Bas reporting 14 taxa (3 liverworts and 11 mosses). *Weissia breutelii* in Terre-de-Haut and *Frullania gibbosa* in Terre-de-Bas are new taxa for the Guadeloupe archipelago. The small islands of the Guadeloupe archipelago each have a somewhat different bryophyte flora. The lowland forests in the little valleys of Marie-Galante include the most humid areas among these small islands and some species such as *Zelometeorium patulum*, *Vesicularia vesicularis* var. *portoricensis*, *Neckeropsis disticha* and *Callicostella rivularis*, were only found in these areas.

The lists for Martinique include 355 species (190 liverworts, 156 mosses, 9 hornworts) including 8 liverworts and 13 mosses new to the island. *Acroporium estrellae* is new to the Lesser Antilles and *Sematophyllum cataractae* is new to the West Indies. The bryoflora of Martinique is less species-rich than that of Guadeloupe, which may be explained by the smaller size of the island, the slightly lower elevation and the less intensive exploration. Most species of Martinique are also known from the Guadeloupe archipelago except the liverworts *Caudalejeunea lehmanniana*, *Frullania arecae*, *Leptolejeunea serratifolia*, *Marchesia brachiata*, *Metzgeria aurantiaca*, *Neurolejeunea catenulata*, *Neurolejeunea sastreana* and *Riccia dussiana*, the mosses *Cyclodictyon albicans*, *Fissidens dissitifolius*, *Isopterygium subbrevisetum*, *Leucobryum polakowskyi*,



*Orthostichopsis tetragona*, *Sematophyllum cataractae*, *Trachypus viridulus*, *Trichosteleum vincentinum* and *Pilotrichum luciae* (known only from Martinique), and the hornwort *Anthoceros punctatus*. Interestingly, some species from Martinique occur in the Guadeloupe archipelago only on the small islands: *Fissidens palmatus* (Martinique and La Désirade), *Plagiochila micropteryx* (Martinique, La Désirade and Marie-Galante), *Lejeunea phyllobola* (Martinique, La Désirade and Marie-Galante), *Frullania gibbosa* (Martinique and Terre-de-Bas of Les Saintes archipelago) and *Riccia weinionis* (Martinique, La Désirade and Les Saintes archipelago).

The most important bryophyte families in the Guadeloupe archipelago and Martinique in terms of species number are Lejeuneaceae (about 50% of the total number of species), Plagioclilaceae, Radulaceae, Lepidoziaceae (especially *Bazzania*), Aneuraceae (*Riccardia*) among the liverworts and Fissidentaceae, Calymperaceae, Dicranaceae, Pottiaceae, Pilotrichaceae, Hypnaceae and Sematophyllaceae among the mosses.

**Endemicity.** Based on current knowledge, one moss, *Pilotrichum luciae*, is endemic to Martinique and 17 liverworts, one hornwort and one moss endemic to the Guadeloupe archipelago: *Cheilolejeunea dussii*, *Cheilolejeunea falcata*, *Cheilolejeunea ovisstipula*, *Drepanolejeunea valiae*, *Frullania guadalupensis*, *Frullania minima*, *Frullania trigona*, *Frullania urbanii*, *Harpalejeunea herzogii*, *Plagiochila desciscens*, *Plagiochila germani*, *Plagiochila herminieri*, *Plagiochila saxicola*, *Radula subsimplex*, *Riccardia innovans*, *Taxilejeunea irregularis*, *Taxilejeunea linguaefolia*, *Megaceros solidus*, *Trichosteleum glaucinum*. The taxonomic status of all of the Guadeloupean endemic bryophytes, with possibly one exception, remains doubtful and in need of verification, however. Only one of them, *Drepanolejeunea valiae*, has been studied in the framework of a critical taxonomic revision (Bischler, 1963) and may be therefore be considered a “proven” or confirmed endemic (Pócs, 1988). All the other species have not been studied critically and are “potential” endemics sensu Pócs.

## Notes

(1) *Ceratolejeunea ceratantha* was recorded from Guadeloupe by Pagán (1942) but not by Dauphin (2003)

(2) *Metzgeria furcata* recorded by Pagán (1942) and Jovet-Ast (1947) for Guadeloupe is not mentioned from the Lesser Antilles by Costa (2008). According to Schäfer-Verwimp (2010), the New World distribution of this species is insufficiently known. Recent phylogenetic analyses provide evidence for genetic divergence correlated with geographic distribution and existence of cryptic lineages in *M. furcata* (Fuselier *et al.*, 2009).

(3) *Radula decora* Gottsche *ex* Steph. was recorded by Duss (1903) and Pagán (1942) for Guadeloupe and Martinique. Yamada (1987), however, did not mention the species for these islands.

(4) Castle (1937) reduced *R. gottscheana* Taylor to a synonym of the palaeotropical *R. boryana*; however, Yamada (1988) keeps both as separate species. The record of *Radula boryana* by Foucault 1977 therefore should refer to *R. gottscheana* Taylor.

(5) The genus *Brymela* is new to the Lesser Antilles; collected on a rock near a small creek, northern slope above Plessis crest, National Park of Guadeloupe, rain forest, 850 m, 4 Feb sept 2010 (ELB 1155 NY). The specimen collected corresponds to any known species of this genus.

(6) *Calymperes rubiginosum* was reported as new to Guadeloupe (Bras David) by Foucault (1977) (as *C. rufum* Herz.), from Bras David. The description of Foucault is similar that of Reese (1993), but the species was not cited by Reese for the West Indies.

(7) *Macromitrium podocarpi* was cited as new to Guadeloupe by Foucault (1977) (epiphyte, Bains Jaunes forest).

(8) We follow Sharp *et al.* (1994), who recognizes three varieties in *Philonotis uncinata*: var. *uncinata*, var. *glaucescens* and var. *gracillima*. Allen (2002), however, recognizes only the species and not the varieties.

(9) *Rhodobryum beyrichianum*, *R. dominguense* and *R. commersonii* are very similar and may be conspecific. According to Allen (2002), the relationship between these species needs further study.

### Doubtful records

*Ceratolejeunea rubiginosa* Steph., reported by Jovet-Ast (1947) as *Ceratolejeunea* cf. *rubiginosa* for Guadeloupe (Bains Jaunes) but not mentioned by Fulford (1945) and Dauphin (2003).

*Cololejeunea crenata* (A. Evans) Pócs, cited by Foucault (1977) as *Aphanolejeunea crenata* without references.

*Frullania convoluta* Lindenb. et Hampe, cited by Fulford & Sharp (1990). According to Uribe (2008), this high-montane species is in the West Indies only known from high elevation in the Dominican Republic (above 2000 m), otherwise occurs only on the continent.

*Lejeunea smaragdina* Besch. et Spruce, (type from Guadeloupe), is mentioned by Schäfer-Verwimp & Reiner-Drehwal (2009) as a poorly known species and of doubtful status.

*Micropterygium exalatum* Reim., cited by Foucault (1977) for Guadeloupe. According to Gradstein (1989: 344), *Micropterygium exalatum* is very similar to *M. carinatum* and may be a synonym of the latter.

*Plagiochila dichotoma* (P. Beauv.) Nees, cited by Pagán (1942). According to Gradstein & Costa (2003), this African species is not known with certainty from the Neotropics.

*Plagiochila diversifolia* Lindenb. et Gottsche mentioned by Pagán (1942). According to Heinrichs *et al.* (2000) this Andean species of sect. *Glaucoscentes* is not known from the West Indies and has often confused with species of section *Contiguae*, which are common in the Antilles.

*Scapania gracilis* Lindb., cited by Pagán (1942) as *S. recurva* Steph. This boreal species is unknown from the Tropics. The record is probably an error for *Scapania portoricensis* Hampe & Gottsche which is the only species of *Scapania* in the West Indies, is common in neotropical mountains, and to be expected on Guadeloupe and Martinique (Gradstein, com. pers.).

*Syzygiella contigua* Steph., mentioned by Pagán (1942) for Guadeloupe. However, herbarium material of *S. contigua* from Guadeloupe (*Duss 561904*) and Martinique (*Duss 561906*) in NY was identified by H. Inoue (in sched.) as *S. macrocalyx* (Mont.) Spruce.

*Papillaria flagellifera* Müll. Hal., mentioned by Foucault (1977) as new for Guadeloupe, (Vallée de la Grande Rivière, Dugommier s.n., without herbarium). The species is not recorded for the West Indies by Buck (1994) but occurs in Brazil (Bordin & Yano, 2010). The pluripapillose cells and flagellate branches mentioned

by Foucault (1977), remind of *Meteorium nigrescens*. Further investigations are needed.

***Orthostichopsis tetragona*** (Hedw.) Broth., mentioned for Guadeloupe by Foucault (1977) without herbarium number and precise locality, seems to be a misidentification.

The long and very fine acumen of the branch leaves as described by Foucault is not corresponding to *O. tetragona*. As this species is reported for Martinique by Buck (1998), its presence in Guadeloupe is to be expected.

***Orthostichopsis tortipilis*** (Müll. Hal.) Broth., cited by Foucault (1977) as *O. crinita* from several localities in Guadeloupe. However, the leaves with short acumen as described by Foucault is not corresponding to *O. tortipilis*. This species is not reported by Buck (1998) from the Lesser Antilles.

***Henicodidium geniculatum*** (Mitt.) W.R. Buck, cited by Foucault (1977) for Guadeloupe as *Leucodontopsis geniculata*. The pluripapillose leaf cells of the species as described by Foucault is not corresponding to the genus *Henicodidium* (fide Buck, 1998).

***Dendrocryphaea lechleri*** (M. Fleisch.) Paris & Schimp. ex Thér., cited by Foucault (1977) for Guadeloupe without locality. However, this species is considered endemic to Patagonia (Müller & Pereira, 2006). Moreover, the genus *Dendrocryphaea* does not occur in the West Indies (Buck, 1998).

***Vesicularia vesicularis* var. *crassicaulis*** (Mitt.) Broth., reported by Welch & Crum, 1970 as *V. crassicaulis* for Martinique. However, according to Buck (1998), this species is a rare endemic of Cuba and all other West Indian reports are erroneous.

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