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Checklist of the liverworts and hornworts of French Polynesia

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ABSTRACT

The present publication is the first modern catalogue of the liverworts and hornworts of French Polynesia and accepts 161 species of liverworts and 5 species of hornworts. In addition, 40 species are doubtful records of French Polynesia and 45 species are excluded. The checklist is mainly based on a compilation of published records; a few unpublished new records are included as well. The region has been explored very unevenly and liverwort and hornwort records are available for only ten islands of French Polynesia. Several islands of considerable surface area and elevation such as Fatu Hiva, Tahuata, Ua Pou and Ua Huka in the Marquesas, and Huahine and Tahaa in the Society Islands remain completely unexplored. In the Tuamotu Archipelago, only one atoll of the 60 has been surveyed (Makemo) and the number of reports for Gambier islands is quite low. The hepatic flora of French Polynesia appears to be relatively poor in species as compared to other Pacific island groups, such as the Fiji Islands (301 spp.) and New Caledonia (475 spp.) which are large continental islands (over 18 000 km²). Nevertheless, their floras show strong similarities at the family level. One species, *Treubia tahitensis* (Nadeaud) Besch., is only known from French Polynesia and may be considered endemic. The lack of endemic hepatic species in French Polynesia may be explained by the relatively small size, rather low elevation, low habitat diversity and recent geological age of the islands. It supports the notion that oceanic barriers do not operate as a major impediment to bryophyte dispersal.

KEY WORDS

Anthocerophyta,
hornworts,
Marchantiophyta,
liverworts,
endemism,
bryophytes,
Pacific region,
French Polynesia.

RÉSUMÉ

Catalogue des hépatiques et anthocérotes de la Polynésie française.

Le présent article est le premier catalogue des hépatiques et anthocérotes de la Polynésie française; il compte 161 espèces d'hépatiques et 5 espèces d'anthocérotes. De plus, 40 espèces sont considérées comme douteuses et 45 espèces sont exclues. Ce catalogue repose essentiellement sur une compilation des données publiées et quelques nouveautés inédites sont également incluses. La région a été explorée de façon très inégale et les données relatives aux hépatiques et aux anthocérotes ne sont disponibles que pour dix îles de Polynésie française. Plusieurs îles de surface et d'altitude conséquentes, comme Fatu Hiva, Tahuata, Ua Pou et Ua Huka aux Marquises et Bora-Bora, Tahaa et Huahine dans les îles de la Société, restent totalement inexplorées. Dans l'archipel des Tuamotou seul l'atoll Makemo, sur les 60 que compte l'archipel, a été exploré et pour les Gambier le nombre de données restent très réduites. La flore hépatique de Polynésie française semble être relativement pauvre en espèces par rapport à d'autres groupes insulaires du Pacifique, comme les îles Fidji (301 spp.) et la Nouvelle-Calédonie (475 spp.), mais ces îles sont nettement plus vastes (plus de 18 000 km²). Néanmoins, leurs flores présentent de fortes similitudes au niveau des familles. Une seule espèce, *Treubia tahitensis* (Nadeaud) Besch., n'est connue que de la Polynésie française et peut être considérée comme endémique. L'absence d'espèce d'hépatique endémique en Polynésie française peut s'expliquer par la taille relativement petite des îles, souvent de basse altitude induisant un manque de diversité en habitats, associé à un âge géologique assez récent pour les grandes îles comme Tahiti. De ce fait ces critères géomorphologiques et écologiques soutiennent l'idée que les barrières océaniques ne fonctionnent pas comme un obstacle majeur à la dispersion des bryophytes.

MOTS CLÉS
Anthocerophyta,
anthocerotae,
Marchantiophyta,
hepaticae,
endémisme,
bryophytes,
région Pacifique,
Polynésie française.

INTRODUCTION

The present paper is part of a recent series of catalogues and evaluations of the bryophyte diversity of the French overseas territories, e.g., Réunion Island (Ah-Peng & Bardat 2010; Ah-Peng *et al.* 2010), French Guiana (e.g., Gradstein & Ilkiu-Borges 2009), French West Indies (Lavocat-Bernard & Schäfer-Verwimp 2011) and New Caledonia (Thouvenot & Bardat 2010, 2013; Thouvenot *et al.* 2011). Since the French political reform of 2003, these territories are called “overseas collectivities” (COM) and are provided with a degree of autonomy within the French Republic under article 74 of the Constitution.

The overseas collectivity of French Polynesia covers a vast oceanic territory of over 5.5 million km² in the southern Pacific Ocean and comprises 118 islands and islets arranged in four coral or volcanic archipelagos: the Society islands, the Marquesas islands, the Tuamotu islands (including the Gambier islands) and the Austral (sometimes called Tubuai) islands (Table 1). These islands cover a land surface of 3521 km² for a population of 270 000 inhabitants (2011 census). The four main islands, covering about two third of the total land surface, are Tahiti (1045 km²) and Raiatea (171 km²) in the Society, and Nuku Hiva (340 km²) and Hiva Oa (315 km²) in the Marquesas. The highest elevation in French Polynesia is Mt Orohena on Tahiti, 2241 m. This is the highest point in the South Pacific.

Data on the bryophyte diversity of French Polynesia, in particular liverworts and hornworts, are rather limited (Table 1). The first enumeration of the species of liverworts and hornworts of French Polynesia was published by the French botanist Edélestan Jardin enumerating 11 taxa from the Marquesas in

his 1857 paper *Essai sur l'histoire naturelle de l'archipel de Mendana ou des Marquises*. This paper seems to have been largely overlooked by subsequent authors. Another early botanist was Dr Jean Nadeaud, a surgeon of the French Navy who resided in Tahiti during 1856-1859 and again in 1896. In his important paper of 1873, *Énumération des plantes indigènes de l'île de Tahiti*, Nadeaud reported 40 liverworts and 2 hornworts from Tahiti. A second enumeration was published by Bescherelle (1898) who listed 117 species, most of them identified by F. Stephani. Almost all Bescherelle's records were from Tahiti, and four species were recorded from the Marquesas (island of Nuka Hiva). After Bescherelle's publication, no list has been published dealing specifically with French Polynesia. A synthesis of the records from French Polynesia up to 1983 appeared in the catalogue of Polynesia by Miller *et al.* (1983). Due to the format of the latter catalogue it is difficult to find the sources of several reports. Numerous new records were published by Hürlimann (1960, 1974, 1976, 1978, 1983, 1985, 1987, 1989, 1991, 1993, 1995, 1998) in his important series of papers on the liverworts of the South Pacific.

As shown in Table 1, liverwort and hornwort records are available for twelve islands of French Polynesia. Several islands of relatively large surface area (>35 km²) and elevation (over 600 m), such as Fatu Hiva, Tahuata, Ua Pou, Ua Huka in the Marquesas Islands and Huahine, Maupiti and Tahaa in the Society Islands, remain completely unexplored and need attention.

The geological age of the main volcanic islands is quite variable. The archipelago of Tuamotu is oldest (between 9.5 and 60 Myr) while the Society Islands are significantly more recent (between 1.4 and 4.3 Myr), with Tahiti being the youngest island (0.6-1.3 Myr). The geological age of the

TABLE 1. — The main islands and atolls of French Polynesia. Geological age corresponds to the oldest dated rocks of the islands.

	Bryophyte data (+ = available)	Physiography	Surface (km ²)	Highest elevation (m)	Geological age (Myr)
Marquesas		11 islands and sand banks			
Fatu Hiva			84	960	1.6
Motu Nao		Sand bank			
Nuku Hiva	+		387	1224	4.8
Hiva Oa	+		316	1213	3.1
Fatu Uku			1.3	361	2.6
Mohotani			15	520	2.5
Tahuata			61	1050	2.9
Ua Pou			105	1230	4.0
Ua Huka			84	884	3.6
Eiao			43.8	576	5.7
Hatutaa			6.6	428	
Society Islands					
Windward Islands					
Moorea	+		142	1207	1.7
Tahiti	+		1045	2241	1.3
Mehetia			2	435	
Maiao			8	159	
Tetiaroa		atoll			
Leeward Islands					
Raiatea	+		171	1017	2.8
Tahaa			90	590	3.1
Bora-Bora	+		29	727	3.5
Huahine			75	669	3.4
Maupiti			11	380	4.3
Tupai		atoll			
Motu One		atoll			
Manuae		atoll			
Maupihaa		atoll			
Tuamotu Islands		64 atolls and raised atolls			
Makemo	+	atoll	56		
Gambier Islands	+	14 islands			
Mangareva	+		15.4	441	5.0
Austral Islands (Tubuai Islands)		5 main islands and rocky islets			
Rapa	+		40	650	5.0
Marotiri		4 rocky islets	<1	113	
Rurutu	+		32	389	1.5
Tubuai	+		45	422	12.0
Raivavae			20	437	7.0
Rimatara			9	83	19.5
Maria		atoll			

Marquesas is about the same as that of the Society Islands (respectively between 1.3 and 5.5 and 0.03 and 6.6 Myr) (Meyer & Salvat 2009).

METHODS AND PRESENTATION

The present checklist is based on a compilation of all published records of species and infraspecific taxa of liverworts and hornworts from French Polynesia. In addition, some unpublished new records from Moorea based on the recent collections of E. Kraichak and others (UC; det. S. R. Gradstein), are included. Important sources of information were the library of the Natural History Museum of Paris and the ELPT database (von Konrat *et al.* 2010). The format of the checklist follows Söderström *et al.* (2010). Primary references (providing details on specimens and/or exact localities) are in bold face, secondary ones (lacking details) are in normal font. Nomenclature follows Söderström *et al.* (2016) with a few later updates (Catalogue of Life; Söderström *et al.* 2019)

and author abbreviations are according to the IPNI database. Taxa doubtfully present in French Polynesia, rejected records and synonyms are listed separately. The list of synonyms only contains names used for French Polynesia.

Following von Konrat *et al.* (2010) and Söderström *et al.* (2016), four confidence levels are used for taxa, as follows: ? = problem with the taxon name (invalid, illegitimate, orphaned); * = serious doubts about the value of the taxon; ** = probably a good taxon (default value); *** = accepted, a good taxon as currently understood.

RESULTS AND DISCUSSION

This checklist accepts 161 species of liverworts (in 54 genera and 28 families) and 5 species of hornworts (3 genera, 2 families) for French Polynesia. The hepatic flora of French Polynesia is relatively poor as compared to other Pacific island groups, such as the Fiji Islands with 301 species (Söderström *et al.* 2011; Pócs *et al.* 2011; Pócs 2012a) and

New Caledonia with 475 species (Thouvenot *et al.* 2011; Thouvenot & Bardat 2013). Nevertheless, the hepatic floras of these three archipelagos show strong similarities at the family level and the proportional number of species per family. Of 44 families recorded from the three areas, 30 occur in French Polynesia, 32 in the Fiji islands and 39 in New Caledonia (data not shown). Moreover, 25 families common to the three archipelagos contain 97% of the species of Fiji and about 94% of the species of French Polynesia and New Caledonia. Families found in New Caledonia but not in Fiji and French Polynesia include Adelanthaceae, Balantiopsidaceae, Cephaloziellaceae, Fossombroniaceae, Goebeliellaceae and Haplomitriaceae, totalling 12 species. Cyathodiaceae and Targioniaceae (totalling two species) are found only in French Polynesia, and Pseudolepicoleaceae (2 species) are only recorded from the Fiji islands and not in French Polynesia and New Caledonia.

The relative specific richness of the various common families is rather similar in French Polynesia, Fiji and New Caledonia with a strong proportion of Lejeuneaceae, followed by Radulaceae, Plagiochilaceae, Lepidoziaceae and Frullaniaceae. These five families represent the main part of the liverworts and hornworts for the archipelagos, accounting for about 74% of the species of Fiji, 65% of those of French Polynesia and 64% of those of New Caledonia. A major difference between the three areas is the strong presence of Lophocoleaceae in New Caledonia.

ENDEMISM

One species, *Treubia tahitensis* (Nadeaud) Besch., is only known from French Polynesia and may be considered endemic. This species is only known from a single, old collection from the 19th century and nothing is known about its morphological variation. Beschelle (1898) suggested that *T. tahitensis* might be identical to *T. insignis* K.I. Goebel but Schuster & Scott (1969) saw enough differences to maintain it as a separate species. It should be noted that Miller *et al.* (1983) cited two species of *Treubia* for Tahiti, *T. insignis* and *T. tahitensis*, although only one collection for this genus is known from the island. Such errors are unfortunately not uncommon in the latter work and shows that one should be cautious accepting records based only on Miller *et al.* (1983).

This lack of endemic hepatic species in French Polynesia may be explained by the relatively small size of the islands, their relatively low elevation (Table 1) and lack of habitat diversity except for Tahiti. Moreover, bryophytes are highly mobile organisms which may colonize islands and archipelagos at a rapid pace provided that suitable ecological conditions are met (Patiño *et al.* 2013). Oceanic barriers do not operate as a major impediment for migration, as is supported by the substantial allele sharing between islands and continents (e.g., Vanderpoorten *et al.* 2008; Hutsemékers *et al.* 2011) and the low levels of endemism on islands as compared with seed plants (e.g., Gradstein & Weber 1982; Vanderpoorten *et al.* 2011; Patiño & Vanderpoorten 2018). The lack of endemism among the liverworts and hornworts of French Polynesia agrees with this notion.

LIST OF ACCEPTED SPECIES AND INFRASPECIFIC TAXA

ANTHOCEROTOPHYTA Rothm.

ex Stotler & Crand.-Stotl.

Genus *Dendroceros* Nees

****D. crispatus* (Hook.) Nees

REPORTS. — SOCIETY ISLANDS. Tahiti. New to the Pacific [Tairapu Peninsula, above the animal experimental station, 14.IX.1964, leg. H. Whittier 2252, det. J. Proskauer (GOET-22880)], Peñalosa *et al.* 2019.

NOTE

We do not know what the second hand report in Peñalosa *et al.* (2019) is based on.

****D. javanicus* (Nees) Nees

REPORTS. — MARQUESAS. Nuku Hiua. Beschelle 1898, Stephani 1909b, Miller *et al.* 1983.

SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Dendroceros fenestratus*. — Moorea. New to Moorea [leg. B.D. Mishler M37A, det. S.R. Gradstein (UC)]. Type of *Dendroceros fenestratus*. — Tahiti. Nadeaud 1873, Ångström 1873, 1876, Beschelle 1898, Schiffner 1898, Gibbs 1909, Stephani 1909b, Hürlimann 1960, Bonner 1965 as *Dendroceros fenestratus*, Inoue & Miller 1965, Miller *et al.* 1983 also as *Dendroceros fenestratus*, Villarreal *et al.* 2015.

***D. tahitensis* Ångstr.

REPORTS. — SOCIETY ISLANDS. Ångström 1875, Whittier & Whittier 1987. — Moorea. Syntype, Ångström 1873, Beschelle 1898, Stephani 1917a, Bonner 1965, Miller *et al.* 1983, Garcia *et al.* 2012. Tahiti. Stephani 1909b, Miller *et al.* 1983.

***D. vesconianus* Gottsche

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type, Beschelle 1898, Bonner 1965, Miller *et al.* 1983, Garcia *et al.* 2012.

Genus *Megaceros* Campb.

****M. flagellaris* (Mitt.) Steph.

REPORTS. — SOCIETY ISLANDS. Ångström 1875 as *Anthoceros grandis*, Whittier & Whittier 1987 as *Megaceros grandis*, *Megaceros vescoanus* and *Anthoceros vesconianus*, Garcia *et al.* 2012, Ruklani *et al.* 2016. — Moorea. New to Moorea [leg. E. Kraichak 249, det. S.R. Gradstein (UC)]. — Tahiti. Type of *Anthoceros vesconianus* and *Anthoceros grandis*, Ångström 1873 as *Anthoceros grandis*, Beschelle 1898 as *Anthoceros grandis* and *Anthoceros vesconianus*, Schiffner 1898 as *Anthoceros grandis*, Stephani 1916 as *Megaceros vesconianus* and *Megaceros grandis*, Herzog 1926 as *Megaceros grandis* and *Megaceros* 'Vescoanus', Hürlimann 1960 as *Megaceros vesconianus*, Bonner 1962b as *Anthoceros vesconianus* and *Anthoceros grandis*, Hasegawa 1983, Miller *et al.* 1983 as *Megaceros* 'vescoanus', *Megaceros grandis* and *Anthoceros grandis*, Geissler & Bischler 1985

as *Megaceros vesconianus*, Piippo 1993a, Bapna & Kachroo 2000a, Koponen *et al.* 2000, Hasegawa 2002, Chantanaorrapint 2014, Piippo & Koponen 2014.

Genus *Phaeoceros* Prosk.

****P. carolinianus* (Michx.) Prosk.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Phaeoceros laevis* subsp. *carolinianus*. — Tahiti. Hürlimann 1960 as *Anthoceros communis*, Miller *et al.* 1983 as *Phaeoceros laevis* subsp. *carolinianus*.

MARCHANTIOPHYTA Stotler & Crand.-Stotl.

Genus *Acrobolbus* Nees

****A. knightii* (Mitt.) Briscoe

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Tylimanthus knightii*, Enroth 1991 as *Marsupidium knightii*, Piippo 1992 as *Marsupidium knightii*. — Tahiti. Type of *Marsupidium tabitense* and *Tylimanthus tabitensis*, Bescherelle 1898 as *Tylimanthus tabitensis*, Stephani 1908b as *Marsupidium tabitense*, Grolle 1962, 1969, 1972, 1989 all as *Marsupidium knightii*, Engel & Grolle 1971 as *Marsupidium knightii*, Miller *et al.* 1983 as *Marsupidium tabitense*, *Tylimanthus tabitensis* and *Tylimanthus knightii*, Geissler & Bischler 1985 as *Marsupidium tabitense*, 1990 as *Tylimanthus tabitensis*, Piippo 1985a as *Marsupidium knightii*, Hürlimann 1989 as *Marsupidium knightii*, Engel & Glenny 2008a as *Marsupidium knightii*.

Genus *Acrolejeunea* Schiffn.

****A. aulacophora* (Mont.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Nadeaud 1873 as *Phragmicoma aulacophora* Gradstein 1975, Miller *et al.* 1983, Hürlimann 1989. TUAMOTU ISLANDS. Geissler & Bischler 1989 as *Ptychocoleus aulacophorus*. — Makemo. Gradstein 1975, Miller *et al.* 1983. — Gambier. Type of *Phragmicoma aulacophora*, Montagne 1843, 1845, 1856 all as *Phragmicoma aulacophora*, Gottsche *et al.* 1847 as *Phragmicoma aulacophora*, Mitten 1873 as *Phragmicoma aulacophora*, Stephani 1890a as *Phragmicoma aulacophora*, Verdoorn 1934b as *Ptychocoleus aulacophorus*, Gradstein 1975, Miller *et al.* 1983 also as *Marchesinia aulacophora*, *Ptychocoleus aulacophorus*, *Lejeunea aulacophora* and *Phragmicoma aulacophora*, Geissler & Bischler 1989 as *Phragmicoma aulacophora*, Thiers & Gradstein 1989.

****A. pycnoclada* (Taylor) Schiffn.

REPORTS. — MARQUESAS. Jardin 1857 as *Ptychanthus pycnocladus* [*'Ptychantes'*]. SOCIETY ISLANDS. Miller *et al.* 1983 as *Ptychocoleus pycnocladus*, Whittier & Whittier 1987. — Tahiti. Jardin 1860 as *Ptychanthus 'pycnocladus'*, Verdoorn 1934a, 1934b both as *Ptychocoleus pycnocladus*, Miller *et al.* 1963 as *Ptychocoleus pycnocladus*, Bischler 1965 as *Ptychocoleus pycnocladus*, Miller 1968 as *Ptychocoleus pycnocladus*, Swanson & Miller 1969 as *Ptychocoleus pycnocladus*, Kamimura 1974 as *Ptychocoleus pycnocladus*, Mizutani 1977, Miller *et al.* 1983,

Singh *et al.* 2016b.

TUAMOTU ISLANDS. Makemo. Miller & Doty 1954 as *Ptychocoleus pycnocladus*, Miller *et al.* 1983.

***— subsp. *pycnoclada*

REPORTS. — SOCIETY ISLANDS. Tahiti. Gradstein 1975, Hürlimann 1989.

****A. securifolia* (Nees) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Nadeaud 1873 as *Phragmicoma securifolia*, Miller *et al.* 1983 as *Lejeunea pallida*.

***— subsp. *pallida* (Ångstr.) Gradst.

REPORTS. — SOCIETY ISLANDS. Moorea. New to Moorea [leg. E. Kraichak 715, det. S.R. Gradstein (UC)]. — Tahiti. Type of *Phragmicoma pallida*, Ångström 1873, 1875 both as *Phragmicoma pallida*, Bescherelle 1898 as *Lejeunea pallida*, Stephani 1912b as *Ptychocoleus pallidus*, Gradstein 1975, Miller *et al.* 1983, Miller *et al.* 1983 as *Phragmicoma pallida* and *Ptychocoleus pallidus*, van Slageren & Berendsen 1985, Geissler & Bischler 1989 as *Phragmicoma pallida* and *Ptychocoleus pallidus*, Hürlimann 1989, Sun *et al.* 2018.

Genus *Anastrophyllum* (Spruce.) Steph.

****A. fissum* Steph.

REPORTS. — SOCIETY ISLANDS. — Tahiti. Bescherelle 1898.

****A. piligerum* (Nees) Steph.

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983 as *Jungermannia piligera*, Whittier & Whittier 1987, Váña & Engel 2013. — Tahiti. Nadeaud 1873 as *Jungermannia piligera*, Váña & Piippo 1989b, Váña 1991b, Bapna & Kachroo 2000b.

Genus *Bazzania* Gray

***B. obtuneata* (Steph.) H.A. Mill.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Mastigobryum obtuneatum*, Bescherelle 1898 as *Mastigobryum obtuneatum*, Stephani 1908d as *Mastigobryum obtuneatum* Herzog 1926 as *Mastigobryum obtuneatum*, Miller *et al.* 1983 also as *Mastigobryum obtuneatum*, Geissler & Bischler 1985 as *Mastigobryum obtuneatum*.

***B. patentistipa* (Sande Lac.) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Bescherelle 1898 as *Mastigobryum patentistipum*, Stephani 1908d as *Mastigobryum patentistipum*, Jovet-Ast 1951a, Bonner 1963a, Miller *et al.* 1983 also as *Mastigobryum patentistipum*.

***B. squarrosa* (Steph.) H.A.Mill.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Mastigobryum squarrosus*, Stephani 1908c as *Mastigobryum squarrosus*, Miller et al. 1983 also as *Mastigobryum squarrosus*, Geissler & Bischler 1985 as *Mastigobryum squarrosus*.

***B. temariana* (Steph.) H.A.Mill.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Mastigobryum temarianum*, Stephani 1909a as *Mastigobryum temarianum*, Herzog 1926 as *Mastigobryum temarianum*, Miller et al. 1983 also as *Mastigobryum temarianum*, Geissler & Bischler 1985 as *Mastigobryum temarianum*, Hürlimann 1985.

****B. tridens* (Reinw., Blume & Nees) Trevis.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Bazzania australis*. — Tahiti. Nadeaud 1873 as *Mastigobryum australe*, Miller et al. 1983 as *Bazzania australis*.

****B. vittata* (Gottsche) Trevis.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. J. Nitta 267H, det. S.R. Gradstein (UC)]. — Tahiti. Bescherele 1898 as *Mastigobryum vittatum*, Stephani 1909a as *Mastigobryum vittatum*, Evans 1932, Hattori 1951, Kitagawa 1967, 1978, Tixier 1974, Miller et al. 1983, Hürlimann 1985.

Genus *Caudalejeunea* Schiffn.

****C. reniloba* (Gottsche) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. E. Kraichak 450, det. S.R. Gradstein (UC)]. — Tahiti. Verdoorn 1934a, 1934b, 1937, Jovet-Ast 1958, Miller 1968, Swanson & Miller 1969, Tixier 1970a, b, Mizutani 1977, Miller et al. 1983, Hürlimann 1989.

Genus *Ceratolejeunea* (Spruce) J.B.Jack & Steph.

***C. belangeriana* (Gottsche) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Ceratolejeunea renistipula*, Whittier & Whittier 1987 as *Ceratolejeunea oceanica*. — Raiatea. Mitten 1873 as *Lejeunea oceanica*, Bescherele 1898 as *Lejeunea oceanica*, Bonner 1953 as *Ceratolejeunea oceanica*, Miller et al. 1983 as *Ceratolejeunea oceanica*, *Brachiolejeunea oceanica* and *Lejeunea oceanica*, Geissler & Bischler 1987 as *Lejeunea oceanica*, Sreebha et al. 2015. — Moorea. New [leg. B.E. Carter 3902, det. S.R. Gradstein (UC)], Pócs 2011b. — Tahiti. Lectotype of *Ceratolejeunea renistipula*, Stephani 1895b, 1913 both as *Ceratolejeunea renistipula*, Bescherele 1898 as *Lejeunea renistipula*, Zwickel 1932 as *Ceratolejeunea renistipula*, Bonner 1953, 1963b both as *Ceratolejeunea renistipula*, Inoue & Miller 1965 as *Ceratolejeunea renistipula*, Bischler 1966 as *Ceratolejeunea renistipula*, Tixier 1974 as *Ceratolejeunea renistipula*, Mizutani 1981 as *Ceratolejeunea oceanica*, Miller et al. 1983 as *Ceratolejeunea oceanica*, *Ceratolejeunea renistipula* and *Lejeunea renistipula*, Yamaguchi 1984 as *Ceratole-*

jeunea oceanica, Hürlimann 1995, Zhu et al. 2005, Renner 2013, Braggins et al. 2014, Singh et al. 2016b.

***C. coalita* (Ångstr.) Steph.

REPORTS. — SOCIETY ISLANDS. Ångström 1875 as *Lejeunea coalita*, Whittier & Whittier 1987. — Tahiti. Type of *Lejeunea coalita*, Ångström 1873 as *Lejeunea coalita*, Bescherele 1898 as *Lejeunea coalita*, Stephani 1913, Herzog 1926, Bonner 1953, 1963b, Miller et al. 1983 also as *Lejeunea coalita*, Geissler & Bischler 1987 as *Lejeunea coalita*, Scheben et al. 2016.

****C. cornuta* (Lindenb.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Ceratolejeunea tahitensis*. — Tahiti. Syntype of *Ceratolejeunea tahitensis*, Stephani 1913 as *Ceratolejeunea tahitensis*, Jovet-Ast 1951c as *Ceratolejeunea maritima*, Bonner 1953, 1963b both as *Ceratolejeunea tahitensis*, Inoue & Miller 1965 as *Ceratolejeunea tahitensis*, Swanson & Miller 1969 as *Ceratolejeunea tahitensis*, Miller et al. 1983 as *Ceratolejeunea tahitensis*, Pócs & Chantanaorrapint 2015.

Genus *Cheilolejeunea* (Spruce) Steph.

***C. ceylanica* (Gottsche) R.M.Schust. & Kachroo

REPORTS. — SOCIETY ISLANDS. Tahiti. Hürlimann 1995.

***C. cookiensis* (Steph.) R.M.Schust. & Kachroo

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Mizutani 1967, 1972a both as *Cheilolejeunea parkinsonii*, Schuster 1980a, Miller et al. 1983 also as *Cheilolejeunea parkinsonii*.

****C. intertexta* (Lindenb.) Steph.

REPORTS. — [MARQUESAS. Stephani 1915 as *Eulejeunea corallina*, Mizutani 1972a, 1975, 1977, Miller et al. 1983 also as *E. corallina*.] SOCIETY ISLANDS. Whittier & Whittier 1987, Zhang 2003. — Moorea. New to Moorea [leg. B. E. Carter 4029 det. S.R. Gradstein (UC)]. — Tahiti. Miller 1956, Mizutani 1967, 1972a, 1982, Grolle 1979c, Miller et al. 1983, Asthana et al. 1995, Hürlimann 1995, Zhu & So 1999, Piippo et al. 2002, Malombe 2007, Pócs et al. 2007.

NOTE

Reports of *Cheilolejeunea intertexta* from the Marquesas are all from Marshall Is (Radak I. was erroneously placed in Marquesas by Stephani 1915).

****C. trapezia* (Nees) Kachroo & R.M.Schust.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b both as *Lejeunea trapezia*, Schiffner 1898 as *Pycnolejeunea trapezia* var. *minor*, Miller et al. 1983, Zhu & Grolle 2004.

****C. trifaria* (Reinw., Blume & Nees) Mizut.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Lejeunea teretiuscula* and *Lejeunea sayeri*, Zhang 2003. — Moorea. New [leg. *E. Kraichak* 266, 687, det. S.R. Gradstein (UC)], Miller *et al.* 1983, Bastos 2017. — Tahiti. Type of *Lejeunea paritiicola* and *Lejeunea sayeri*, Montagne 1848a, 1848b both as *Lejeunea teretiuscula*, Reichardt 1866, 1869, 1870 all as *Lejeunea paritiicola*, Ångström 1873 as *Lejeunea polyploca*, Mitten 1873 as *Lejeunea polyploca*, Bescherelle 1898 as *Lejeunea paritiicola*, *Lejeunea trifaria* and *Lejeunea sayeri*, Bischler 1966 as *Euosmolejeunea sayeri*, Mizutani 1972a, 1982, Miller *et al.* 1983 also as *Euosmolejeunea uvifera*, *Lejeunea paritiicola*, *Lejeunea polyploca*, *Lejeunea sayeri* and *Lejeunea teretiuscula*, Geissler & Bischler 1987 as *Lejeunea paritiicola*, Hürlimann 1995, Bastos 2017.

Genus *Chiastocaulon* Carl

****C. oppositum* (Reinw., Blume & Nees) S.D.F.Patzak, M.A.M.Renner, Schäf.-Verw. & Heinrichs

REPORTS. — SOCIETY ISLANDS. — Moorea. New to SE Pacific [leg. *J. Nitta* 321G p.p., det. S.R. Gradstein (UC)].

Genus *Cololejeunea* (Spruce) Steph.

***C. florencei* Tixier

REPORTS. — MARQUESAS. Eggers & Pócs 2010. — Nuku Hiua. Holotype, Tixier 1993, Crosby & Engel 2006.

***C. mooreaensis* Tixier

REPORTS. — SOCIETY ISLANDS. — Moorea. Type, Hürlimann 1987, Crosby & Engel 2006, Eggers & Pócs 2010. — Tahiti. Hürlimann 1987, Eggers & Pócs 2010.

****C. pacifica* Pócs

REPORTS. — SOCIETY ISLANDS. — Tahiti. Pócs 2012a, Chantanaorrapint & Pócs 2014.

***C. pseudocuspidata* Tixier

REPORTS. — SOCIETY ISLANDS. — Tahiti. Type, Hürlimann 1987, Crosby & Engel 2006.

****C. societatis* Tixier

REPORTS. — SOCIETY ISLANDS. Pócs *et al.* 2018. — Tahiti. Type, Hürlimann 1987, Crosby & Engel 2006, Eggers & Pócs 2010, Pócs *et al.* 2011.

***C. tahitensis* Tixier

REPORTS. — SOCIETY ISLANDS. Tahiti. Type, Tixier 1993, Crosby & Engel 2006.

Genus *Colura* (Dumort.) Dumort.

****C. conica* (Sande Lac.) K.I.Goebel

REPORTS. — SOCIETY ISLANDS. Tahiti. Hürlimann 1987.

****C. superba* (Mont.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Pócs 2013. — Tahiti. Type of *Colurolejeunea superba* var. *dentata*, *Lejeunea superba* var. *dentata*, and *Lejeunea superba*, Montagne 1848a, 1848b, 1856 all as *Lejeunea superba*, Mitten 1873 as *Lejeunea superba*, Schiffner 1890 as *Colurolejeunea superba* var. *dentata*, Stephani 1896 as *Colurolejeunea superba*, 1916, Bescherelle 1898 as *Lejeunea superba*, Pearson 1922, Herzog 1926, Jovet-Ast 1951b, 1953, Bonner 1963b also as *Colurolejeunea superba* var. *dentata*, Inoue & Miller 1965, Grolle 1967, Miller 1968, Tixier 1973b, Miller *et al.* 1983 also as *Lejeunea superba* var. *dentata* and *Lejeunea superba*, Geissler & Bischler 1987 as *Lejeunea superba* var. *dentata*, Geissler & Bischler 1987 as *Lejeunea superba*, Hürlimann 1987, Szabó 1997.

****C. tenuicornis* (A.Evans) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Jovet-Ast 1953, Arnell 1957, 1963, Grolle 1965, Miller *et al.* 1983, Hürlimann 1987.

Genus *Cuspidatula* Steph.

****C. contracta* (Reinw., Blume & Nees) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Stephani 1901, Herzog 1926, Bonner 1962b as *Anastrophyllum contractum*, 1963b, Kitagawa 1970, 1981 as *Jamesoniella contracta*, Grolle 1971, Bizot & Pócs 1974, Miller *et al.* 1983, Váňa & Piippo 1989b as *Jamesoniella contracta*, Váňa 1991b as *Jamesoniella contracta*, Schuster 2002, Engel & Glenn 2008b.

****C. flexicaulis* (Nees) Váňa & L.Söderstr.

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983 as *Crossogyna flexicaulis*, Whittier & Whittier 1987 as *Jamesoniella flexicaulis*. — Tahiti. Bescherelle 1898 as *Jungermannia flexicaulis*, Stephani 1901 as *Jamesoniella flexicaulis*, Grolle 1965, 1971 both as *Jamesoniella flexicaulis*, Bonner 1966 as *Jamesoniella flexicaulis*, Inoue & Miller 1968 as *Jamesoniella flexicaulis*, Kitagawa 1978, 1981 both as *Jamesoniella flexicaulis*, Miller *et al.* 1983 as *Jamesoniella flexicaulis*, Schuster 1983, 2002 both as *Jamesoniella flexicaulis*, Váňa & Piippo 1989b as *Jamesoniella flexicaulis*, Váňa 1991b as *Jamesoniella flexicaulis*, Bapna & Kachroo 2000b as *Jamesoniella flexicaulis*.

****C. monodon* (Taylor) Steph.

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983 as *Anastrophyllum monodon*, Whittier & Whittier 1987. — Tahiti. Nadeaud 1873 as *Jungermannia monodon novae-hollandiae*, Miller *et al.* 1983 also as *Jungermannia monodon* var. *novae-hollandiae*.

****C. robusta* (Austin) Váňa & L.Söderstr.

REPORTS. — SOCIETY ISLANDS. Miller et al. 1983 as *Crosogyna robusta*. — Tahiti. Bescherelle 1898 as *Anastrophyllum macrophyllum*, Stephani 1901 as *Jamesoniella macrophylla*, Bonner 1966 as *Jamesoniella macrophylla*, Miller et al. 1983 as *Jamesoniella macrophylla*.

Genus *Cyathodium* Kunze

****C. foetidissimum* Schiffn.

REPORTS. — MARQUESAS. Nuku Hiua. Bescherelle 1898, Stephani 1898, Miller et al. 1983, Srivastava & Dixit 1996. — Ua Huka. Sakurai et al. 2018. SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Nadeaud 1873 as *Cyathodium cavernarum* (cf. Miller et al. 1983), Bescherelle 1898, Stephani 1898, Schiffner 1939, Hürlimann 1960, Bonner 1963b, Miller et al. 1983 also as *Cyathodium cavernarum* [*Cyathodium cavernarum* Nadeaud'], Piippo 1988, Srivastava & Dixit 1996, Sakurai et al. 2018.

Genus *Denotarisia* Grolle

****D. linguifolia* (De Not.) Grolle

REPORTS. — SOCIETY ISLANDS. Pócs et al. 2019. — Tahiti. Grolle 1971, Miller et al. 1983, Váňa & Piippo 1989b, Váňa 1991b, Schuster 2002.

Genus *Drepanolejeunea* (Spruce) Steph.

****D. pentadactyla* (Mont.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Lectotype of *Lejeunea pentadactyla*, Montagne 1848a, 1848b, 1856 all as *Lejeunea pentadactyla*, Mitten 1873 as *Lejeunea pentadactyla*, Bescherelle 1898 as *Lejeunea pentadactyla*, Stephani 1913, Bonner 1965, Miller et al. 1983 also as *Lejeunea pentadactyla*, Geissler & Bischler 1987 as *Lejeunea pentadactyla*, Hürlimann 1995, Zhu & So 1999, 2001, Asthana & Shukla 2009, Blockeel et al. 2009, Eggers & Pócs 2010, Pócs 2011a, Dey et al. 2013.

****D. ternatensis* (Gottsche) Schiffn.

REPORTS. — SOCIETY ISLANDS. Moorea. New to SE Pacific [leg. E. Kraichak 570, det. S.R. Gradstein (UC)].

****D. vesiculosa* (Mitt.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. E. Kraichak 589, det. S.R. Gradstein (UC)]. — Tahiti. Herzog 1939 as *Drepanolejeunea vesiculosa* subsp. *euvesiculosa*, Jovet-Ast & Tixier 1962 as *Drepanolejeunea vesiculosa* subsp. *euvesiculosa*, Bonner 1965 as *Drepanolejeunea vesiculosa* subsp. *euvesiculosa*, Pócs et al. 1967, Swanson & Miller 1969, Mizutani 1977, 1978, Udari & Awasthi 1982, Miller et al. 1983 also as *Drepanolejeunea vesiculosa* subsp. *euvesiculosa*, Parihar et al. 1994, Hürlimann 1995, Zhu & So 1999, 2001, Bagpa & Kachroo 2000b, Dey et al. 2013, Singh et al. 2016b, Siregar et al. 2017.

Genus *Dumortiera* Nees

****D. hirsuta* (Sw.) Nees

REPORTS. — SOCIETY ISLANDS. Miller et al. 1983 as *Dumortiera trichocephala*, Whittier & Whittier 1987, Váňa et al. 2014. — Tahiti. Montagne 1848a, 1848b, Ångström 1873, Nadeaud 1873, Bescherelle 1898, Stephani 1899a, Herzog 1926, Frye & Clark 1937, Arnell 1958, Hürlimann 1960.

*— subsp. *hirsuta*

REPORTS. — SOCIETY ISLANDS. Moorea. Miller et al. 1983 as *Dumortiera hirsuta* var. *hirsuta*. — Tahiti. Arnell 1963 as *Dumortiera hirsuta* var. *hirsuta*, Miller et al. 1983 as *Dumortiera hirsuta* var. *hirsuta*, Schuster 1992b.

*— subsp. *nepalensis* (Taylor) R.M.Schust.

REPORTS. — SOCIETY ISLANDS. Tahiti. Reichardt 1870 as *Dumortiera trichocephala*, Bescherelle 1898 as *Dumortiera trichocephala*, Stephani 1899a as *Dumortiera trichocephala*, Bonner 1965 as *Dumortiera trichocephala*.

Genus *Frullania* Raddi

***F. apiculata* (Reinw., Blume & Nees) Nees

REPORTS. — MARQUESAS. Jardin 1857 as *Frullania mertensiana*. SOCIETY ISLANDS. — Moorea. New to Moorea [leg. E. Kraichak 604, det. S.R. Gradstein (UC)]. — Tahiti. Montagne 1848a, 1848b, Reichardt 1870, Bescherelle 1898, Schiffner 1898, Clark 1955, Hattori 1974a, Miller et al. 1983 as *Frullania uncifolia*.

**— var. *apiculata*

REPORTS. — SOCIETY ISLANDS. — Tahiti. Type of *Frullania uncifolia*, Reichardt 1870 as *Frullania explicata*, Nadeaud 1873 as *Frullania pacificae*, Bescherelle 1898 as *Frullania explicata*, Stephani 1911a as *Frullania uncifolia*, Bonner 1965 as *Frullania uncifolia*, Miller et al. 1983.

**— var. *goebelii* Schiffn.

REPORTS. — SOCIETY ISLANDS. Tahiti. Thiers 1983 as *Frullania oceanica*.

****F. calcarata* Ångstr.

REPORTS. — SOCIETY ISLANDS. Ångström 1875, Whittier & Whittier 1987. — [Moorea. Miller et al. 1983.] — Tahiti. Type and Type of *Frullania panchetiana* and *Frullania pancheriana*, Ångström 1873, Bescherelle 1898 also as *Frullania pancheriana*, Stephani 1910, Verdoorn 1930, Bonner 1965 also as *Frullania panchetiana*, Hattori 1973b, 1982, Miller et al. 1983 also as *Frullania panchetiana*, Hattori & Piippo 1986, Singh et al. 2016b.

NOTE

We are not aware of any first hand report from Moorea.

****F. cordistipula* (Reinw., Blume & Nees) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b, Merrill & Merritt 1910, Miller *et al.* 1983.

*— var. *tahitica* Gottsche ex Besch.

REPORTS. — SOCIETY ISLANDS. — Tahiti. Type, Bescherelle 1898, Bonner 1965, Miller *et al.* 1983.

****F. ericoides* (Nees) Mont.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Frullania squarrosa*. — Moorea. New to Moorea [leg. B.E. Carter 3874, det. S.R. Gradstein (UC)]. — Tahiti. Gottsche *et al.* 1845, Montagne 1845 as *Frullania aeolotis*, Jardin 1860 as *Frullania 'aeolotes'*, Miller *et al.* 1983 also as *Frullania squarrosa* and *Frullania aeolotis*.

TUAMOTU ISLANDS. — Gambier. Gottsche *et al.* 1845, Montagne 1845 as *Frullania aeolotis*, Miller *et al.* 1983 also as *Frullania deloti*, *Frullania aeolotis* and *Frullania squarrosa*.

TUBUAI ISLANDS. — Rurutu. Verdoorn 1937 as *Frullania squarrosa* f. *ericoides*.

**F. jacquinotii* Gottsche

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. E. Kraichak 715, det. S.R. Gradstein (UC)]. — Tahiti. Type and Type of *Frullania curvirostris* var. *setchellii*, Bescherelle 1898, Bonner 1965, Hattori 1981, Miller *et al.* 1983 also as *Frullania curvirostris* var. *setchellii*.

****F. monocera* (Hook.f. & Taylor) Gottsche, Lindenb. & Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Verdoorn 1930 as *Frullania hampeana*, Hattori 1952a as *Frullania hampeana* var. *hampeana*, Kamimura 1952, 1961 both as *Frullania hampeana*, Bonner 1965 as *Frullania hampeana*, Miller *et al.* 1983, Bapna & Kachroo 2000b. [TUAMOTU ISLANDS. Iverson 1963 as *Frullania hampeana*, Miller *et al.* 1983.]

NOTE

We are not aware of any first hand report from Tuamotu Is. of *Frullania monocera*.

***F. nadeaudii* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type and type of *Frullania bescherellei* var. *explanata*, Stephani 1911a, Bonner 1965 also as *Frullania bescherellei* var. *explanata*, Hattori 1981, Miller *et al.* 1983, Schuster 1992a.

****F. nodulosa* (Reinw., Blume & Nees) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Mitten 1873, Bescherelle 1898, Verdoorn 1930, Hattori 1951, 1980 as *Frullania nodulosa* var. *nodulosa*, Swanson & Miller 1969, Miller *et al.* 1983.

****F. reflexistipula* Sande Lac.

REPORTS. — SOCIETY ISLANDS. Ångström 1875 as *Frullania setulosa*, Miller *et al.* 1983 as *Frullania floribundaria*, Hattori 1986a as *Frullania reflexistipula* var. *novocaledonica*, Whittier & Whittier 1987. — Tahiti. Type of *Frullania floribunda* and *Frullania setulosa*, Ångström 1873 as *Frullania setulosa*, Stephani 1894 as *Frullania floribunda*, 1910 as *Frullania setulosa* and *Frullania floribunda*, Bescherelle 1898 as *Frullania setulosa*, 1898 as *Frullania floribunda*, Verdoorn 1930, Bonner 1965 as *Frullania floribunda* and *Frullania setulosa*, Hattori 1973b, 1974a, b, 1975b, 1976, 1982, 1986b, 1988, Miller *et al.* 1983 as *Frullania setulosa* and *Frullania floribunda*.

**— var. *reflexistipula*

REPORTS. — SOCIETY ISLANDS. Tahiti. Miller *et al.* 1983, Hattori & Piippo 1986.

****F. rio-janeirensis* (Raddi) Ångstr.

REPORTS. — SOCIETY ISLANDS. Hattori 1986a, Whittier & Whittier 1987 as *Frullania galeata*, Piippo *et al.* 1998. — Tahiti. Verdoorn 1937 as *Frullania galeata*, Miller *et al.* 1983 as *Frullania galeata*.

TUBUAI ISLANDS. — Rapa-Iti (Rapa I). Verdoorn 1937 as *Frullania galeata*, Miller *et al.* 1983 as *Frullania galeata*.

****F. serrata* Gottsche

REPORTS. — MARQUESAS. Syntype of *Frullania tahitensis*, Stephani 1911a as *Frullania tahitensis*, Verdoorn 1930, Iverson 1963, Bonner 1965 as *Frullania tahitensis*, Pócs 1971, Hattori 1973a, Kamimura 1974, Miller *et al.* 1983 also as *Frullania tahitensis*, Singh *et al.* 2008.

SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Syn-types of *Frullania tahitensis* and *Frullania latistipula*, Bescherelle 1898 as *Frullania latistipula*, Stephani 1911a as *Frullania latistipula* and *Frullania tahitensis*, Verdoorn 1930, Iverson 1963, Bonner 1965 as *Frullania latistipula* and *Frullania tahitensis*, Hattori 1973a, 1974a, 1975b Kamimura 1974, Vanden Berghen 1976, Miller *et al.* 1983 also as *Frullania tahitensis* and *Frullania latistipula*, Bapna & Kachroo 2000b, Singh *et al.* 2008.

Genus *Fuscocephaloziosis* Fulford

****F. connivens* (Dicks.) Vána & L.Söderstr. subsp. *sandwicensis* (Mont.) Vána & L.Söderstr.

REPORTS. — SOCIETY ISLANDS. Tahiti. Vána 1988 as *Cephalozia connivens* subsp. *sandwicensis*, Hürlimann 1989 as *Cephalozia 'sandwicensis'*, Hodgetts *et al.* 2020.

Genus *Herbertus* Gray

***H. gracilis* (Mont.) Kuntze

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. *J. Nitta* 321G, det. S.R. Gradstein (UC)]. — Tahiti. Nadeaud 1873 as *Sendtnera gracilis*, Miller *et al.* 1983.

***H. longifissus* Steph.

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983 as *Schisma longifissum*, Whittier & Whittier 1987. — Tahiti. Stephani 1909c as *Schisma longifissum*, Hattori 1952b as '*Herberta longifissa*', Tixier 1962 as '*Herberta longifissa*', Kachroo 1970 as '*Herberta longifissa*', Miller *et al.* 1983, Piippo *et al.* 1998, Bapna & Kachroo 2000a, So 2003b.

Genus *Heteroscyphus* Schiffn.

****H. argutus* (Reinw., Blume & Nees) Schiffn.

REPORTS. — SOCIETY ISLANDS. Piippo 1985b, Whittier & Whittier 1987. — [Moorea. Miller *et al.* 1983.] — Tahiti. Type of *Chiloscyphus argutus* f. *paucidens*, Nadeaud 1873 as *Chiloscyphus argutus*, Bescherelle 1898 as *Chiloscyphus argutus* and its f. *paucidens*, Miller *et al.* 1983.

NOTE

We are not aware of any first hand report of *Heteroscyphus argutus* from Moorea.

***H. nadeaudii* (Steph.) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Chiloscyphus nadeaudii*, Stephani 1907b, 1911b both as *Chiloscyphus nadeaudii*, Herzog 1926 as *Chiloscyphus nadeaudii*, Bonner 1963b as *Chiloscyphus nadeaudii*, 1966, Miller *et al.* 1983 also as *Chiloscyphus nadeaudii*.

****H. splendens* (Lehm. & Lindenb.) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Heteroscyphus decurrens*. — Tahiti. Bescherelle 1898 as *Chiloscyphus decurrens*, Miller *et al.* 1983 as *Heteroscyphus decurrens*, Hürlimann 1998.

****H. succulentus* (Gottsche) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Enroth 1991. — Tahiti. Bescherelle 1898 as *Chiloscyphus succulentus*, Stephani 1907a as *Chiloscyphus succulentus*, Bonner 1966, Kitagawa 1973 as *Chiloscyphus succulentus*, Miller *et al.* 1983 as *Chiloscyphus succulentus*, Piippo 1985b, 1989b, 1993b, Piippo *et al.* 2002.

***H. zollingeri* (Gottsche) Schiffn.

REPORTS. — SOCIETY ISLANDS. Tahiti. Hürlimann 1998.

Genus *Jackiella* Schiffn.

****J. javanica* Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Enroth 1991, Zhang 2003. — [Moorea. Miller *et al.* 1983.] — Tahiti. Stephani 1908a, Herzog 1926, Hattori 1952b, Grolle 1967, 1970, Miller *et al.* 1983, Piippo 1985a, Hürlimann 1989, Long & Grolle 1990, Vaña 1992.

NOTE

We are not aware of any first hand report of *Jackiella javanica* from Moorea.

**— var. *cavifolia* Schiffn.

REPORTS. — SOCIETY ISLANDS. — Tahiti. Bapna & Kachroo 2000a.

**— var. *javanica*

REPORTS. — SOCIETY ISLANDS. Srivastava 1998. — Tahiti. Bapna & Kachroo 2000a.

Genus *Lejeunea* Lib.

***L. anisophylla* Mont.

REPORTS. — SOCIETY ISLANDS. Moorea. New to Moorea [leg. *B.E. Carter* 3977, det. S.R. Gradstein (UC), leg. *E. Kraichak* 284, 430, det. S.R. Gradstein (UC)]. — Tahiti. Hürlimann 1993, Zhu & So 2001, Zhang 2003, Lai *et al.* 2007, Dey *et al.* 2009, Pócs 2010, Singh *et al.* 2010, 2016b, Pócs *et al.* 2011, Dey & Singh 2012.

***L. caviloba* (Steph.) Besch.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Bescherelle 1898, Bischler 1966, Miller *et al.* 1983, Hürlimann 1993.

***L. cocoes* Mitt.

REPORTS. — SOCIETY ISLANDS. Moorea. New to SE Pacific [leg. *E. Kraichak* 360, det. S.R. Gradstein (UC); earlier only known from Fiji in the Pacific].

***L. discreta* Lindenb. var. *gracilipes* (Taylor) G.E.Lee & Heinrichs

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Lejeunea gracilipes*. — Tahiti. Ångström 1873 as *Omphalanthus gracilipes*, Bescherelle 1898 as *Lejeunea gracilipes*, Miller *et al.* 1983

as *Omphalanthus gracilipes* and *Lejeunea gracilipes*, Pócs & Wei 2017 as *Lejeunea gracilipes*.

****L. exilis* (Reinw., Blume & Nees) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Microlejeunea exilis*, Pócs *et al.* 2011. — Tahiti. **Montagne 1848a** as *Lejeunea cucullata exilis*, **Montagne 1848b** as *Lejeunea cucullata exilis*, Miller *et al.* 1983 *Lejeunea cucullata* var. *exilis*, *Microlejeunea exilis* and *Lejeunea exilis*.

****L. flava* (Sw.) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Lectotype of *Lejeunea uvifera*, **Montagne 1848a**, **1848b**, **1856** all as *Lejeunea uvifera*, **Bescherelle 1898** also as *Lejeunea uvifera*, Stephani 1914 as *Euosmolejeunea uvifera*, Herzog 1926 as *Euosmolejeunea uvifera*, Bonner 1965 as *Euosmolejeunea uvifera*, **Bischler 1966** as *Euosmolejeunea uvifera*, **Grolle 1981**, Miller *et al.* 1983 also as *Lejeunea uvifera*, **Geissler & Bischler 1987** as *Lejeunea uvifera*, Lücking 1995.

** — subsp. *flava*

REPORTS. — SOCIETY ISLANDS. Vána & Engel 2013.

** — subsp. *orientalis* R.M.Schust.

REPORTS. — SOCIETY ISLANDS. Tahiti. Hürlimann 1993.

***L. jardinii* Spruce

REPORTS. — MARQUESAS. Nuku Hiua. Type, Spruce 1889, Stephani 1915, Miller *et al.* 1983, Geissler & Bischler 1987.

***L. microloba* Taylor

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Lejeunea chalmersii*. — Tahiti. Type of *Trachylejeunea erosula*, Stephani 1913 as *Trachylejeunea erosula*, Herzog 1926 as *Trachylejeunea erosula*, Mizutani 1972b as *Lejeunea chalmersii*, **Grolle 1979a**, Miller *et al.* 1983 also as *Trachylejeunea erosula* and *Lejeunea chalmersii*, **Thiers 1986**, Geissler & Bischler 1990 as *Trachylejeunea erosula*, Zhu & Reiner-Drehwald 2004 as *Lejeunea chalmersii*.

***L. pacifica* Mont.

REPORTS. — MARQUESAS. Jardin 1857. ?Nuku Hiua. Miller *et al.* 1983. SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. **Bescherelle 1898**, Miller *et al.* 1983.

NOTE

We assume that Miller *et al.* (1983) base the report on Jardin (1857) although they do not cite it and Jardin do not specify island.

****L. patersonii* (Steph.) Steph.

REPORTS. — SOCIETY ISLANDS. Tahiti. Hürlimann 1993, Lee *et al.* 2014, Pócs & Wei 2017.

****L. umbilicata* (Nees) Nees

REPORTS. — SOCIETY ISLANDS. Tahiti. Hürlimann 1993.

Genus *Lepicolea* Dumort.

****L. attenuata* (Mitt.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. **Bescherelle 1898**, Miller *et al.* 1983.

****L. rara* (Steph.) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Lepicolea loriana*, Enroth 1991, Pócs *et al.* 2011. — Moorea. **New to Moorea** [leg. J. Nitta 267H, det. S.R. Gradstein (UC)]. — Tahiti. **Scott 1960** as *Lepicolea loriana*, Grolle 1965, 1968 both as *Lepicolea loriana*, Kitagawa 1978 as *Lepicolea loriana*, Hürlimann 1983 as *Lepicolea loriana*, Miller *et al.* 1983 as *Lepicolea loriana*, Piippo 1984a, Schuster 2000.

NOTE

Lepicolea rara is possibly a species complex and warrants further investigation (Schuster 2000).

Genus *Lepidozia* (Dumort.) Dumort.

***L. longifolia* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Lepidozia longifolia*, **Bescherelle 1898** as *Lepidozia longifolia*, Miller *et al.* 1983.

***L. subtrichodes* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type, Stephani 1909a, Miller *et al.* 1983, Geissler & Bischler 1985.

****L. trichodes* (Reinw., Blume & Nees) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Enroth 1991. — Tahiti. **Montagne 1848a**, **1848b**, **Bescherelle 1898**, Schiffner 1898, Mizutani 1968, 1974, Pócs 1968, Kamimura 1975, Kitagawa 1978, Miller *et al.* 1983, Piippo 1984b, Lin *et al.* 1992.

Genus *Leptolejeunea* (Spruce) Steph.

***L. denticulata* Steph.

REPORTS. — SOCIETY ISLANDS. Tahiti. Stephani 1890b.

****L. elliptica* (Lehm. & Lindenb.) Besch.

REPORTS. — SOCIETY ISLANDS. Type of *Lejeunea elliptica* γ *maior*, Gottsche *et al.* 1845 as *Lejeunea elliptica* γ *maior*, Miller *et al.* 1983 as *Lejeunea elliptica*, Geissler & Bischler 1987 as *Lejeunea elliptica maior*, Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b both as *Lejeunea elliptica*, Schiffner 1898, Frye & Clark 1947, Schuster 1967, Mizutani 1975, Miller *et al.* 1983 also as *Lejeunea elliptica* var. γ *maior*, Schuster 1983, Bapna & Kachroo 2000b.

****L. epiphylla* (Mitt.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Pócs & Ninh 2012. — Moorea. New to Moorea [leg. E. Kraichak 514 p.p., 757, det. S.R. Gradstein (UC)], Miller *et al.* 1983. — Tahiti. Herzog 1942, Jovet-Ast 1958, Tixier 1966, 1967b, 1970a, b, 1973a, b, 1980, Pócs *et al.* 1967, Mizutani 1975, 1978, Miller *et al.* 1983, Onraedt 1991, Zhu & So 1999, Bapna & Kachroo 2000b, Singh *et al.* 2010.

NOTE

We do not know on what Miller *et al.* (1983) base their report from Moorea.

***L. lepinii* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type, Stephani 1913, Herzog 1926, Miller *et al.* 1983, Geissler & Bischler 1985.

****L. maculata* (Mitt.) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Leptolejeunea radiata*. — Moorea. New to Moorea [leg. E. Kraichak 411, 783, det. S.R. Gradstein (UC)], Miller *et al.* 1983. — Tahiti. Herzog 1942 as *Leptolejeunea radiata*, Miller *et al.* 1983 as *Leptolejeunea radiata*, Hürlimann 1995.

NOTE

We do not know on what Miller *et al.* (1983) base their report from Moorea.

****L. subacuta* Steph. ex A.Evans

REPORTS. — SOCIETY ISLANDS. Tahiti. Schuster 1980a as *Leptolejeunea elliptica* subsp. *subacuta*, Hürlimann 1995.

****L. vitrea* (Nees) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Lejeunea vitrea obtusa*, Montagne 1848a as *Lejeunea vitrea*, Montagne 1848b as *Lejeunea vitrea*, Ångström 1873 as *Lejeunea vitrea* β *obtusa*, Bescherelle 1898 as *Lejeunea vitrea* β *obtusa*, Schiffner 1898, Miller *et al.* 1983 also as *Lejeunea vitrea* var. β *obtusa*, Geissler & Bischler 1987 as *Lejeunea vitrea* β *obtusa*.

Genus *Lopholejeunea* (Spruce) Steph.

****L. eulopha* (Taylor) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Lopholejeunea vescoana*. — Moorea. New [leg. E. Kraichak 595, det. S.R. Gradstein (UC)], Ångström 1873 as *Lejeunea eulopha*, Miller *et al.* 1983. — Tahiti. Type of *Lopholejeunea novae-guineae* and *Lopholejeunea vescoana*, Ångström 1873 as *Lejeunea eulopha*, Bescherelle 1898 as *Lejeunea eulopha*, Stephani 1912b as *Lopholejeunea novae-guineae*, Verdoorn 1934a, Hattori 1951, Tixier 1970b, 1975, Kamimura 1974, Miller *et al.* 1983 also as *Lopholejeunea novae-guineae*, *Phragmicoma eulopha* and *Lopholejeunea vescoana*, Geissler & Bischler 1985 as *Lopholejeunea novae-guineae* and *Lopholejeunea vescoana*, Bapna & Kachroo 2000b, Gradstein *et al.* 2002, Zhu & Gradstein 2005.

****L. nigricans* (Lindenb.) Schiffn.

REPORTS. — SOCIETY ISLANDS. Moorea. New to Moorea [leg. E. Kraichak 822, det. S.R. Gradstein (UC)]. — Tahiti. Bescherelle 1898 as *Lejeunea gibbosa*, Stephani 1912b as *Brachiolejeunea gibbosa*, Bonner 1963a as *Brachiolejeunea gibbosa*, Miller *et al.* 1983 as *Lopholejeunea subnuda* as *Brachiolejeunea gibbosa*, Singh *et al.* 2016b.

****L. subfusca* (Nees) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. E. Kraichak 131, 450 p., 465, det. S.R. Gradstein (UC)]. — Tahiti. Reichardt 1870 as *Lejeunea subfusca*, Bescherelle 1898 as *Lejeunea subfusca*, Schiffner 1898 as *Lopholejeunea sagrana* var. *subfusca*, Verdoorn 1934a, 1934b, Hattori 1951, 1952a, 1966, Jovet-Ast 1958, Mizutani 1961, 1977, 1994, Miller *et al.* 1963, Inoue & Miller 1965, Tixier 1966, 1967a, b, 1971, 1980, Pócs *et al.* 1967, Miller 1968, Swanson & Miller 1969, Kamimura 1974, Schuster 1980a, Tixier 1980, Miller *et al.* 1983 also as *Lopholejeunea sagrana*, Hürlimann 1991, Bapna & Kachroo 2000b, Srivastava & Sharma 2000, Easa 2003, Zhu & Gradstein 2005, Nair *et al.* 2006, Singh *et al.* 2010, 2016b.

Genus *Marchantia* L.

****M. hexaptera* Reichardt

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Marchantia tahitensis* and *Marchantia breviloba*. — Moorea. New [leg. B.D. Mischler M21A, det. S.R. Gradstein (UC)], Bischler-Causse 1989. — Tahiti. Type and Types of *Marchantia breviloba* and *Marchantia tahitensis*, Montagne 1848a as *Marchantia chenopoda* [cf. Bischler-Causse 1989], Jardin 1860 as *Marchantia amboinensis* [cf. Bischler-Causse 1989], Reichardt 1866, 1869, 1870, Nadeaud 1873 as *Marchantia tahitensis*, Bescherelle 1898 also as *Marchantia breviloba*, Stephani 1899b, Herzog 1926, Miller *et al.* 1983 also as *Marchantia breviloba* and *Marchantia tahitensis*, Bischler 1984, Geissler & Bischler 1985 also as *Marchantia breviloba* and *Marchantia tahitensis*, Bischler-Causse 1989.

Genus *Mastigophora* Nees****M. diclados* (Brid. ex F.Weber) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. *J. Nitta* 319A, det. S.R. Gradstein (UC)]. — Tahiti. Montagne 1848a, 1848b both as *Sendtnera fissa* and *Sendtnera diclados*, Nadeaud 1873 as *Sendtnera diclados scorpioides*, Bescherelle 1898, Schiffner 1898, Inoue & Miller 1965, Hürlimann 1983, Miller *et al.* 1983, Komala *et al.* 2010.

Genus *Metalejeunea* Grolle****M. cucullata* (Reinw., Blume & Nees) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Microlejeunea cucullata*. — Tahiti. Montagne 1848a, 1848b both as *Lejeunea cucullata*, Schiffner 1898 as *Eulejeunea cucullata*, Jovet-Ast 1958 as *Microlejeunea albicans*, Bischler *et al.* 1961 as *Microlejeunea cucullata*, Miller *et al.* 1962, 1963 both as *Microlejeunea cucullata*, Inoue & Miller 1965 as *Microlejeunea cucullata*, Pócs *et al.* 1967 as *Microlejeunea cucullata*, Swanson & Miller 1969 as *Microlejeunea cucullata*, Pócs 1971 as *Microlejeunea cucullata*, Mizutani 1977 as *Lejeunea cucullata*, Miller *et al.* 1983 as *Microlejeunea cucullata*, Hürlimann 1993 as *Lejeunea cucullata*.

Genus *Metzgeria* Raddi****M. ciliata* Raddi

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Metzgeria decipiens*. — Tahiti. Hürlimann 1968 as *Metzgeria decipiens*, Miller *et al.* 1983 as *Metzgeria decipiens*, Kuwahara 1984a, b, 1986 all as *Metzgeria decipiens*, Piippo 1991 as *Metzgeria decipiens*, Koponen *et al.* 2000 as *Metzgeria decipiens*, Costa 2008, Vaña & Engel 2013.

****M. furcata* (L.) Corda

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. Ångström 1873, Bescherelle 1898, Miller *et al.* 1983, Kuwahara 1984b as *Metzgeria densiseta*, So 2002b. — Tahiti. Montagne 1848a, 1848b, Ångström 1873, Nadeaud 1873, Bescherelle 1898, Miller *et al.* 1983.

****M. leptoneura* Spruce

REPORTS. — SOCIETY ISLANDS. Engel 1976, Whittier & Whittier 1987 also as *Metzgeria parvipapulosa* and *Metzgeria papulosa*. — Tahiti. Type of *Metzgeria parvipapulosa* and *Metzgeria papulosa*, Bescherelle 1898 as *Metzgeria hamata*, Stephani 1899e as *Metzgeria papulosa*, Kuwahara 1960 as *Metzgeria parvipapulosa*, 1960 as *Metzgeria papulosa*, 1966 as *Metzgeria papulosa* and *Metzgeria parvipapulosa*, 1968 as *Metzgeria papulose* and *Metzgeria parvipapulosa*, 1969 as *Metzgeria papulose* and *Metzgeria parvipapulosa*, Grolle 1967 as *Metzgeria papulosa*, Kuwahara 1982 as *Metzgeria papulosa*, 1984a as *Metzgeria papulosa*, Kuwahara 1984b also as *Metzgeria papulosa*, 1986 as *Metzgeria papulose*, Hürlimann 1968, 1976 both as *Metzgeria parvipapulosa*, Miller *et al.* 1983 also as *Metzgeria papulosa* and *Metzgeria parvipapulosa*, Schuster 1983, Geissler & Bischler 1985

as *Metzgeria parvipapulosa* and *Metzgeria papulosa*, Piippo 1991, Schuster 1992a as *Metzgeria papulose* and *Metzgeria parvipapulosa*, Bapna & Kachroo 2000b, Damsholt 2002, So 2002b, Costa 2008, Singh & Singh 2009.

****M. lindbergii* Schiffn.

REPORTS. — MARQUESAS. Nuku Hiua. Stephani 1899e, Miller *et al.* 1983.

SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Metzgeria pectinata*. — Tahiti. Type of *Metzgeria tahitiana* and *Metzgeria tahitensis*, Bescherelle 1898 as *Metzgeria tahitiana*, Stephani 1899e, Herzog 1926, Hattori 1952a, Kuwahara 1960 as *Metzgeria conjugata* subsp. *japonica* and *Metzgeria tahitiana*, 1965 as *Metzgeria pectinata*, 1966 as *Metzgeria pectinata*, 1968 as *Metzgeria pectinata*, Miller *et al.* 1983 also as *Metzgeria pectinata*, *Metzgeria tahitiana* and *Metzgeria tahitensis*, Geissler & Bischler 1985 as *Metzgeria tahitiana* and *Metzgeria tahitensis*, So 2002b.

Genus *Microlejeunea* (Spruce) Steph.****M. filicuspis* (Steph.) Heinrichs, Schäf.-Verw., Pócs & S.Dong

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Drepanolejeunea filicuspis*. — Moorea. Grolle 1979b as *Harpalejeunea filicuspis*, Miller *et al.* 1983 as *Drepanolejeunea filicuspis*.

Genus *Myriocoleopsis* Schiffn.****M. minutissima* (Sm.) R.L.Zhu, Y.Yu & Pócs

REPORTS. — TUAMOTU ISLANDS. Makemo. Miller & Doty 1954 as *Cololejeunea minutissima*, Miller *et al.* 1983 as *Cololejeunea minutissima*.

Genus *Neolepidozia* Fulford & J.Taylor****N. cuneifolia* (Steph.) Fulford & J.Taylor

REPORTS. — SOCIETY ISLANDS. Tahiti. Engel & Smith Merrill 2004 as *Telaranea cuneifolia*, von Konrat *et al.* 2014.

****N. wallichiana* (Gottsche) Fulford & J.Taylor

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Bescherelle 1898 as *Lepidozia wallichiana*, Miller *et al.* 1983, Hürlimann 1985 as *Lepidozia wallichiana*.

Genus *Notoscyphus* Mitt.****N. lutescens* (Lehm. & Lindenb.) Mitt.

REPORTS. — SOCIETY ISLANDS. Moorea. New to Moorea [leg. *E. Kraichak* 581, 582, det. S.R. Gradstein (UC)]. — Tahiti. Hürlimann 1989 as *Notoscyphus parvicus*.

Genus *Pallavicinia* Gray

****P. indica* Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Stephani 1900a, Miller *et al.* 1983, Bapna & Kachroo 2000b, Manju *et al.* 2015.

****P. lyellii* (Hook.) Gray

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b both as *Steetzia lyellii*, Bescherelle 1898 as *Pallavicinia simplex*, Frye & Clark 1937, Grolle 1969, Miller *et al.* 1983, Schuster 1992a.

Genus *Plagiochasma* Lehm.

****P. rupestre* (J.R.Forst. & G.Forst.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Plagiochasma coerulescens* and *Plagiochasma subgymnandrum*, Montagne 1848a, 1848b both as *Plagiochasma australe*, Reichardt 1870 as *Plagiochasma australe*, Nadeaud 1873 as *Plagiochasma coerulescens*, Bescherelle 1898 as *Plagiochasma austral* and *Plagiochasma coerulescens*, Stephani 1898 as *Plagiochasma coerulescens*, Frye & Clark 1937, Hürlimann 1960 as *Plagiochasma subgymnandrum*, Miller *et al.* 1983 also as *Plagiochasma subgymnandrum* and *Plagiochasma coerulescens*, Geissler & Bischler 1989 as *Plagiochasma coerulescens* and *Plagiochasma subgymnandrum*, Schuster 1992b, Singh & Singh 2009.

***— var. *rupestre*

REPORTS. — SOCIETY ISLANDS. Tahiti. Jardin 1860 as *Plagiochasma validum*.

Genus *Plagiochila* (Dumort.) Dumort.

****P. abietina* (Nees) Mont. & Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Nadeaud 1873, Stephani 1903c, Bonner 1962a, Inoue 1982, Miller *et al.* 1983.

***P. alta* Steph.

REPORTS. — SOCIETY ISLANDS. Tahiti. Type of *Plagiochila taitica*, Stephani 1903d also as *Plagiochila badia*, Bonner 1962a as *Plagiochila badia*, Inoue 1970 as *Plagiochila castanea*, Hürlimann 1974 as *Plagiochila castanea*, 1983 as *Plagiochila badia*, Geissler & Bischler 1989 as *Plagiochila taitica*, So 2001c as *Plagiochila taitica*, Renner 2018, Renner *et al.* 2018.

****P. arbuscula* (Brid. ex Lehm. & Lindenb.) Lindenb.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Plagiochila longa*, Enroth 1991. — Tahiti. Type of *Plagiochila longa*, Bescherelle 1898 as *Plagiochila belangeriana*, Stephani 1903b

as *Plagiochila belangeriana*, Dugas 1928, 1929 both as *Plagiochila longa*, Inoue 1958 as *Plagiochila belangeriana*, Bonner 1962a as *Plagiochila longa* and *Plagiochila belangeriana*, Hattori 1968b as *Plagiochila belangeriana*, Inoue 1981, 1982, 1986, 1989, Miller *et al.* 1983 also as *Plagiochila castanea*, *Plagiochila badia*, *Plagiochila belangeriana*, *Plagiochila taitica*, *Plagiochila longa* and *Plagiochila alta*, Geissler & Bischler 1989 as *Plagiochila longa*, Piippo 1989a, Bapna & Kachroo 2000b, So 2000a, 2001a, c as *Plagiochila longa*, Nair *et al.* 2005, Singh *et al.* 2016b, Renner *et al.* 2018 as *Plagiochila longa*.

***P. daviesiana* Steph.

REPORTS. — SOCIETY ISLANDS. Tahiti. Renner 2018. *Plagiochila daviesiana* was synonymized with *Plagiochila junghubniana* by So (2000a) but shown to be a separate species by Renner *et al.* (2017).

***P. exinnovata* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type, Stephani 1903c, Bonner 1962a, Miller *et al.* 1983, Geissler & Bischler 1989, So & Grolle 2001, So 2001c.

****P. junghubniana* Sande Lac.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Plagiochila vescoana*. — Tahiti. Type of *Plagiochila vescoana* and *Plagiochila junghubniana*, Bescherelle 1898 as *Plagiochila junghubniana*, Stephani 1903a as *Plagiochila vescoana*, Bonner 1962a as *Plagiochila vescoana* and *Plagiochila junghubniana*, Miller *et al.* 1983 also as *Plagiochila vescoana*, Geissler & Bischler 1989 as *Plagiochila vescoana*, So 2000b, 2001a, c as *Plagiochila vescoana*, Singh *et al.* 2016b.

***P. massalongoana* Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Stephani 1903a as *Plagiochila 'massalongoa'*, Inoue & Miller 1965, Miller *et al.* 1983, Bapna & Kachroo 2000b as *Plagiochila 'massalongoa'*.

**P. owaihiensis* Nees & Lindenb.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Reichardt 1870, Bescherelle 1898, Miller *et al.* 1983, So 2000b.

***P. paucidens* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type, Stephani 1903a, Bonner 1962a, Inoue 1982, Miller *et al.* 1983, Geissler & Bischler 1989, So 2000b, c, Renner 2018.

***P. propinqua* Sande Lac.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Plagiochila tenuitexta*. — Tahiti. Type of *Plagiochila tenuitexta*, Stephani 1921 as *Plagiochila tenuitexta*, Bonner 1962a as *Plagiochila tenuitexta*, Miller *et al.* 1983 as *Plagiochila tenuitexta*, Geissler & Bischler 1989 as *Plagiochila tenuitexta*, So 2000a, 2001c as *Plagiochila tenuitexta*.

****P. ramosissima* (Hook.) Lindenb.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b, Miller *et al.* 1983.

****P. teysmannii* Sande Lac.

REPORTS. — SOCIETY ISLANDS. Tahiti. Type of *Plagiochila cespitans*, Bescherelle 1898 as *Plagiochila cespitans*, Bonner 1962a as *Plagiochila cespitans*, Geissler & Bischler 1989 as *Plagiochila cespitans*, So 2000b, 2001c as *Plagiochila cespitans*, Renner 2018.

***P. vitiensis* Mitt.

REPORTS. — SOCIETY ISLANDS. Ångström 1875 as *Plagiochila tabitensis*, Whittier & Whittier 1987 also as *Plagiochila nadeaudiana*. — Moorea. Bescherelle 1898 as *Plagiochila tabitensis*, Miller *et al.* 1983 also as *Plagiochila tabitensis*, Scott & Bradshaw 1985. — Tahiti. Type of *Plagiochila nadeaudiana* and *Plagiochila tabitensis*, Ångström 1873 as *Plagiochila tabitensis*, Bescherelle 1898 as *Plagiochila nadeaudiana* and *Plagiochila tabitensis*, Stephani 1903a as *Plagiochila tabitensis*, Dugas 1928, 1929 both as *Plagiochila nadeaudiana*, Bonner 1962a and *Plagiochila tabitensis*, Inoue 1981, 1982, 1986, Miller *et al.* 1983 also as *Plagiochila nadeaudiana*, *Plagiochila blepharophora* and *Plagiochila tabitensis*, Scott & Bradshaw 1985, Geissler & Bischler 1989 as *Plagiochila tabitensis* and *Plagiochila nadeaudiana*, So 2001b, c as *Plagiochila tabitensis*, 2001c as *Plagiochila nadeaudiana*, Renner 2018.

Genus *Pleurozia* Dumort.

****P. gigantea* (F.Weber) Lindb.

REPORTS. — MARQUESAS. Hiva Oa. Thiers 1993. SOCIETY ISLANDS. Tahiti. Thiers 1993.

Genus *Plicanthus* R.M.Schust.

****P. hirtellus* (F.Weber) R.M.Schust.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Chandonanthus hirtellus*, Enroth 1991 as *Chandonanthus hirtellus*. — Tahiti. Type of *Chandonanthus fimbriatus*, Montagne 1848a, 1848b both as *Jungermannia hirtella*, Mitten 1886 as *Chandonanthus fimbriatus*, Bescherelle 1898 as *Chandonanthus fimbriatus* and *Chandonanthus hirtellus*, Stephani 1909a as *Chandonanthus hirtellus*, Arnell 1956, 1963, 1965 all as *Chandonanthus hirtellus*, Hattori 1966, 1968a, 1971 all as *Chandonanthus hirtellus*, Pócs 1969, 1971 both as *Chandonanthus hirtellus*, Kachroo 1970 as *Chandonanthus hirtellus*, Miller *et al.* 1983 as *Chandonanthus hirtellus* and *Chandonanthus fimbriatus*, Hürlimann 1989 as *Chandonanthus hirtellus*, Bapna & Kachroo 2000b as *Chandonanthus hirtellus*, Komala *et al.* 2010b as *Chandonanthus hirtellus*, Ludwiczuk & Asakawa 2010 as *Chandonanthus hirtellus*.

Genus *Porella* L.

***P. viridissima* (Mitt.) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Madotheca tabitensis*, Bescherelle 1898 as *Madotheca*

tabitensis, Stephani 1910, 1911b both as *Madotheca tabitensis*, Hattori 1975a as *Porella viridissima* var. *viridissima*, 1986c, Miller *et al.* 1983 as *Porella subsquarrosa*, Miller *et al.* 1983 as *Porella viridissima* var. *novoguineensis*, *Madotheca tabitensis* and *Porella viridissima* var. *viridissima*, Geissler & Bischler 1985 as *Madotheca tabitensis*, Hürlimann 1989, So 2002a.

Genus *Radula* Dumort.

***R. acuta* Mitt.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Radula mucronata*. — Raiatea. Miller *et al.* 1983 as *Radula mucronata*. — Tahiti. Bescherelle 1898 as *Radula mucronata*, Miller *et al.* 1983 as *Radula mucronata*, So 2006, Singh *et al.* 2016a, 2016b.

****R. amentulosa* Mitt.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Stephani 1910, Pearson 1924, Herzog 1953, Kitagawa 1973, Yamada 1979, 1984, 1999, Miller *et al.* 1983, Yamada & Piippo 1989, So 2006, Pócs *et al.* 2019.

**R. decurrens* Mitt.

REPORTS. — SOCIETY ISLANDS. Yamada 1979, Whittier & Whittier 1987, Yamada & Piippo 1989 also as *Radula multiflora* var. *reflexilobula*. — Moorea. Yamada 1982 as *Radula multiflora* var. *reflexilobula*. — Tahiti. Bescherelle 1898, Stephani 1910, Castle 1965, Miller *et al.* 1983. TUBUAI ISLANDS. Rapa-Iti (Rapa I). Castle 1965.

****R. formosa* (C.F.W.Meissn. ex Spreng.) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b, Nadeaud 1873, Bescherelle 1898, Schiffner 1898, Stephani 1910, Jovet-Ast 1949, Castle 1950, 1968. Steere 1953, Inoue & Miller 1965, Grolle 1966, Tixier 1973a, Hürlimann 1978, Kitagawa 1979, Yamada 1979, Miller *et al.* 1983, Yamada & Piippo 1989, So 2006, Singh & Dash 2014, Singh *et al.* 2016b, Pócs *et al.* 2019.

***R. javanica* Gottsche

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Radula cordiloba*, Zhang 2003. — Bora Bora. So 2006. — Tahiti. Type of *Radula unduliflora* and *Radula subpallens*, Reichardt 1870, Nadeaud 1873 as *Radula cordiloba*, Bescherelle 1898 also as *Radula subpallens*, Schiffner 1898, Hattori 1951, Castle 1966, Miller 1968, Swanson & Miller 1969, Yamada 1975, Miller *et al.* 1983 also as *Radula cordiloba*, Geissler & Bischler 1990 as *Radula subpallens* and *Radula unduliflora*, Bapna & Kachroo 2000b, So 2006, Singh *et al.* 2016a, 2016b. TUBUAI ISLANDS. — Rurutu. Renner 2005 as *Radula cordiloba* subsp. *cordiloba*.

**R. multiflora* Gottsche ex Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Vána *et al.* 2017. — Tahiti. Type of *Radula unduliflora* and *Radula vescoana*, Castle 1965, 1968 both as *Radula unduliflora*, Yamada 1976, 1979, 1984, Hürlimann 1978, Miller *et al.* 1983 also as *Radula unduliflora*, Yamada & Piippo 1989 as *Radula multiflora* var. *multiflora*, Geissler & Bischler 1990 as *Radula unduliflora* and *Radula vescoana*, Renner & de Lange 2009, Pócs *et al.* 2011.

**R. oceania* Castle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Castle 1965, 1968, Swanson & Miller 1969, Miller *et al.* 1983.

***R. protensa* Lindenb.

REPORTS. — MARQUESAS. Nuku Hiua. Bescherelle 1898. SOCIETY ISLANDS. Whittier & Whittier 1987, Pócs *et al.* 2011. — Tahiti. Type of *Radula miqueliana* var. *tahitica*, Bescherelle 1898, Geissler & Bischler 1990 as *Radula miqueliana* var. *tahitica*.

**— var. *protensa*

REPORTS. — SOCIETY ISLANDS. Tahiti. Miller *et al.* 1983.

****R. reflexa* Nees & Mont.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Radula subsimilis*. — Moorea. New to Moorea [leg. *E. Kraichak* 453, 766, det. S.R. Gradstein (UC)]. — Tahiti. Syntype of *Radula subsimilis*, Montagne 1848a, 1848b, Nadeaud 1873, Bescherelle 1898, Schiffner 1898, Castle 1968 as *Radula subsimilis*, Yamada 1979 as *Radula subsimilis*, 2002, Miller *et al.* 1983 also as *Radula subsimilis*, Geissler & Bischler 1990 as *Radula subsimilis*, So 2006.

****R. retroflexa* Taylor

REPORTS. — MARQUESAS. Castle 1968 as *Radula miqueliana*, Hürlimann 1978 as *Radula miqueliana*, Yamada 1979 as *Radula retroflexa* var. *retroflexa*, Ellis *et al.* 2015, Singh *et al.* 2016b, Shu *et al.* 2017. — Nuku Hiua. Castle 1962 as *Radula miqueliana*, Miller *et al.* 1983 as *Radula retroflexa* var. *retroflexa*.

SOCIETY ISLANDS. — Moorea. New [leg. *B.E. Carter* 3769, 3770, det. S.R. Gradstein (UC)], Ångström 1873, Castle 1962 as *Radula miqueliana*, Miller *et al.* 1983 as *Radula retroflexa* var. *retroflexa*. — Tahiti. Type of *Lejeunea brasiliensis* var. *vescoii* and *Radula taitica*, Montagne 1848a, 1848b, Ångström 1873, Nadeaud 1873, Bescherelle 1898, Stephani 1910, Castle 1962 as *Lejeunea brasiliensis* var. *vescoii* and *Radula miqueliana*, 1968 as *Radula miqueliana*, Yamada 1975, Hürlimann 1978 as *Radula miqueliana*, Miller *et al.* 1983 as *Radula miqueliana* var. *tahitica*, *Radula retroflexa* var. *retroflexa* and *Radula taitica*, Geissler & Bischler 1987 as *Lejeunea brasiliensis* var. *vescoii* and *Radula taitica*, So 2006, Ellis *et al.* 2015, Singh *et al.* 2016b, Shu *et al.* 2017.

TUBUAI ISLANDS. Miller *et al.* 1983 as *Radula retroflexa* var. *retroflexa*. — Rapa-Iti (Rapa I). Castle 1965 as *Radula fauciloba*, Miller *et al.* 1983 as *Radula retroflexa* var. *fauciloba*. — Tubuai I. Miller *et al.* 1983 as *Radula retroflexa* var. *fauciloba*.

****R. rhombiloba* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. *E. Kraichak* 230, det. S.R. Gradstein (UC); previously only known from the type]. — Tahiti. Type, Stephani 1910, Castle 1967, 1968, Miller *et al.* 1983, Geissler & Bischler 1990, So 2006.

Genus *Reboulia* Raddi

****R. hemisphaerica* (L.) Raddi

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Miller *et al.* 1983, Bapna & Kachroo 2000b.

**— subsp. *australis* R.M.Schust.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Reboulia javanica*. — Tahiti. Nadeaud 1873 as *Reboulia javanica*, Miller *et al.* 1983 as *Reboulia javanica*.

Genus *Riccardia* Gray

***R. angustissima* (Steph.) H.A.Mill.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Aneura angustissima*, Stephani 1917b as *Aneura angustissima*, Bonner 1962b as *Aneura angustissima*, Miller *et al.* 1983 also as *Aneura angustissima*.

****R. graeffei* (Steph.) Hewson

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Riccardia nadeaudiana*. — Moorea. New to Moorea [leg. *E. Kraichak* 242 (female), 767 (male), det. S.R. Gradstein (UC)]. — Tahiti. Type of *Aneura nadeaudiana*, Stephani 1899c as *Aneura fuscescens*, 1917b as *Aneura nadeaudiana*, Bonner 1962b as *Aneura nadeaudiana*, Hürlimann 1976 also as *Riccardia nadeaudiana*, Miller *et al.* 1983 also as *Aneura nadeaudiana*, *Riccardia nadeaudiana* and *Aneura fuscescens*, Furuki 1991, 2002, 2006, Singh & Singh 2015, Singh *et al.* 2016b.

***R. hyalina* (Steph.) H.A.Mill.

REPORTS. — MARQUESAS. Nuku Hiua. Type of *Aneura hyalina*, Bescherelle 1898 as *Aneura hyalina*, Stephani 1917b as *Aneura hyalina*, Bonner 1962b as *Aneura hyalina*, Miller *et al.* 1983 also as *Aneura hyalina*.

***R. nadeaudii* (Steph.) Hürl.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Aneura nadeaudii*, Bescherelle 1898 as *Aneura nadeaudii*, Stephani 1899d as *Aneura nadeaudii*, Gibbs 1909 as *Aneura nadeaudii*, Bonner 1962b as *Aneura nadeaudii*, Hürlimann 1976, Miller *et al.* 1983 also as *Aneura nadeaudii*.

***R. tahitensis* (Steph.) Hürl.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Aneura tahitensis*, **Bescherelle 1898** as *Aneura tahitensis*, **Stephani 1899d** as *Aneura tahitensis*, Herzog 1926 as *Aneura tahitensis*, **Bonner 1962b** as *Aneura tahitensis*, **Hürlimann 1976**, Miller *et al.* 1983, Miller *et al.* 1983 as *Aneura tahitensis*.

Genus *Saccogynidium* Grolle***S. muricellum* (De Not.) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Enroth 1991. — Tahiti. **Bescherelle 1898** as *Saccogyna muricella*, **Grolle & Schultze-Motel 1972**, Miller *et al.* 1983 also as *Saccogyna muricella*, Piippo 1985b, Hürlimann 1998, Gao *et al.* 2001.

***S. rigidulum* (Nees) Grolle

REPORTS. — SOCIETY ISLANDS. Piippo 1985b, Enroth 1991. — Tahiti. **Bescherelle 1898** as *Saccogyna granulata*, **Stephani 1908a** as *Saccogyna rigidula*, **Hattori 1951** as *Saccogyna rigidula*, **Grolle 1960**, 1965, 1968, Inoue & Miller 1965, Miller *et al.* 1983 also as *Saccogyna granulata*.

Genus *Schiffneriolejeunea* Verd.****S. tumida* (Nees) Gradst.

REPORTS. — MARQUESAS. **Stephani 1895a** as *Acrolejeunea marquesana*, **Bonner 1962b** as *Acrolejeunea marquesana*. — Nuku Hiua. Type of *Acrolejeunea marquesana*, **Stephani 1912b** as *Ptychocoleus marquesanus*, **Gradstein & Terken 1981**. SOCIETY ISLANDS. Tahiti. Type of *Lejeunea marquesiana*, **Bescherelle 1898** as *Lejeunea marquesiana*, **Stephani 1912b** as *Ptychocoleus marquesanus*, **Gradstein & Terken 1981**, **Geissler & Bischler 1987** as *Lejeunea marquesiana*, **Hürlimann 1989**.

*** — var. *haskarliana* (Gottsche) Gradst. & Terken

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Schiffneriolejeunea haskarliana*, **Gradstein 2015**, Wang *et al.* 2016. — Moorea. New to Moorea [leg. *E. Kraichak 259*, det. S.R. Gradstein (UC)]. — Tahiti. Montagne 1848a, 1848b as *Phragmicoma haskarliana*, **Bescherelle 1898** as *Lejeunea haskarliana*, **Schiffner 1898** as *Acrolejeunea haskarliana*, **Verdoorn 1934a**, **1934b** as *Ptychocoleus haskarlianus*, **Amakawa 1960** as *Ptychocoleus haskarlianus*, **Mizutani 1977** as *Schiffneriolejeunea haskarliana*, **Mizutani 1978** as *Schiffneriolejeunea haskarliana*, **Miller et al. 1983** as *Lejeunea haskarliana* and *Acrolejeunea haskarliana*.

Genus *Schistochila* Dumort.****S. aligera* (Nees & Blume) J.B.Jack & Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Schistochilaster 'aligerum'*, *Schistochilaster 'cuspidilobum'* and *Schistochilaster 'philippinense'*. — Tahiti. Type of *Schistochila cuspidiloba*, **Nadeaud 1873** as *Gottschea aligera*, **Nadeaud 1873**

as *Gottschea philippinensis*, **Bescherelle 1898** as *Schistochila philippinensis*, **Stephani 1909c** as *Schistochila cuspidiloba*, Herzog 1926 as *Schistochila cuspidiloba*, **Hässel 1976** as *Paraschistochila cuspidiloba*, **Miller et al. 1983** *Paraschistochila 'cuspidilobum'*, *Schistochilaster 'philippinense'*, *Gottschea aligera*, *Schistochilaster aliger*, *Schistochilaster 'cuspidilobum'*, *Schistochila 'cuspidilobum'* and *Gottschea philippinensis 'philippinense'*, **Geissler & Bischler 1990** as *Schistochila cuspidiloba*, **Hürlimann 1998** as *Schistochila philippinensis*, **Hürlimann 1998**, **So 2003a**, **2003c**, **Juengprayoon et al. 2015**.

****S. blumei* (Nees) Trevis.

REPORTS. — SOCIETY ISLANDS. Tahiti. **Nadeaud 1873** as *Gottschea blumei*, **Miller et al. 1983** as *Gottschea blumei*.

****S. nadeaudiana* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Schistochila dentiloba*. — Tahiti. Type and Type of *Schistochila dentiloba*, **Stephani 1909c** also as *Schistochila dentiloba*, Herzog 1926 also as *Schistochila dentiloba*, **Miller et al. 1983** also as *Schistochila dentiloba*, **Geissler & Bischler 1990** also as *Schistochila dentiloba*, **So 2003c**.

****S. reinwardtii* (Nees) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. **Bescherelle 1898**, **Miller et al. 1983**.

Genus *Schizophyllopsis* Vána & L.Söderstr.***S. lanciloba* (Steph.) Vána & L.Söderstr.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Anastrophyllum lancilobum*. — Tahiti. Type of *Anastrophyllum lancilobum*, **Stephani 1917b** as *Anastrophyllum lancilobum*, Herzog 1926 as *Anastrophyllum lancilobum*, **Bonner 1962b** as *Anastrophyllum lancilobum*, **Miller et al. 1983** as *Anastrophyllum lancilobum*, **Vána et al. 2013a** as *Schizophyllopsis lancilobum*, **2013b**.

Genus *Solenostoma* Mitt.****S. haskarlianum* (Nees) R.M.Schust. ex Vána & D.G.Long

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Jungermannia haskarliana*. — Tahiti. **Hürlimann 1974** as *Jungermannia haskarliana*, **Vána 1975a**, 1991a both as *Jungermannia haskarliana*, **Miller et al. 1983** as *Jungermannia haskarliana*, **Vána & Inoue 1983** as *Jungermannia haskarliana*, **Vána & Piippo 1989a** as *Jungermannia haskarliana*

****S. micranthum* (Mitt.) Vána, Hentschel & Heinrichs

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Plectocolea micrantha*. — Tahiti. **Hürlimann 1974** as *Jungermannia micrantha*, **Vána 1975a**, **b** both as *Jungermannia micrantha*, **Miller**

et al. 1983 as *Plectocolea micrantha*, *Jungermannia micrantha* and *Jungermannia 'taylorii'* Nadeaud'.

Genus *Spruceanthus* Verd.

****S. olivaceus* (Hook.f. et Taylor) X.Q.Shi, R.L.Zhu & Gradst.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Archilejeunea olivacea*. — Raiatea. Mitten 1873 as *Phragmicoma olivacea*, Bescherelle 1898 as *Lejeunea olivacea*, Miller et al. 1983 as *Lejeunea olivacea*, *Phragmicoma olivacea* and *Archilejeunea olivacea*.

****S. planiusculus* (Mitt.) X.Q.Shi, R.L.Zhu & Gradst.

REPORTS. — SOCIETY ISLANDS. Moorea. New [leg. E. Kraichak 131 p., det. S.R. Gradstein (UC)], Miller et al. 1983 as *Spruceanthus marianus*. — Tahiti. Type of *Archilejeunea caramuensis* var. *denticulata*, Bonner 1962b as *Archilejeunea caramuensis* var. *denticulata*, Miller et al. 1983 as *Spruceanthus marianus*, Hürlimann 1991 as *Archilejeunea planiuscula*.

****S. polymorphus* (Sande Lac.) Verd.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New to Moorea [leg. E. Kraichak 145, 276, 368, 457, det. S.R. Gradstein (UC)]. — Tahiti. Type of *Brachiolejeunea apiculata*, Original material of *Lejeunea apiculata*, Bescherelle 1898 as *Lejeunea apiculata*, Verdoorn 1934a as *Thysananthus polymorphus*, 1934b, Hattori 1952a, Mizutani 1961, 1977, Pócs et al. 1967, Miller et al. 1983 also as *Lejeunea apiculata*, Zhu & So 1999 as *Archilejeunea polymorpha*, Zhang 2003 as *Archilejeunea polymorpha*.

Genus *Symphyogyna* Nees & Mont.

****S. undulata* Colenso

REPORTS. — SOCIETY ISLANDS. Enroth 1991. — Tahiti. Grolle & Piippo 1986.

Genus *Symphyogynopsis* Grolle

****S. gottscheana* (Mont. & Nees) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Symphyogyna filicum*, *Symphyogyna exincrassata* and *Symphyogyna vitiensis*. — Tahiti. Type of *Symphyogyna exincrassata*, *Symphyogyna exincrassata* and *Symphyogyna filicum*, Nadeaud 1873 as *Symphyogyna filicum*, Bescherelle 1898 as *Symphyogyna vitiensis* and *Symphyogyna exincrassata*, Stephani 1900a as *Symphyogyna exincrassata*, Herzog 1926 as *Symphyogyna exincrassata*, Hürlimann 1968 as *Symphyogyna filicum*, Miller et al. 1983 as *Symphyogyna exincrassata* and *Symphyogyna filicum*, Grolle & Piippo 1986 as *Symphyogynopsis filicum*, Grolle 1987, Geissler & Bischler 1990 as *Symphyogyna exincrassata* and *Symphyogyna exincrassata*, Furuki 2002 as *Symphyogynopsis filicum*, Chantanaorrapint et al. 2003, 2004 both as *Symphyogynopsis filicum*.

Genus *Targionia* L.

****T. hypophylla* L.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Hürlimann 1960, Miller et al. 1983.

Genus *Thysananthus* Lindenb.

****T. frauenfeldii* Reichardt

REPORTS. — SOCIETY ISLANDS. Ångström 1875 as *Phragmicoma gibbosa*, Whittier & Whittier 1987 as *Mastigolejeunea frauenfeldii*. — Moorea. Sukkharak & Gradstein 2014a, 2014b as *Mastigolejeunea frauenfeldii*. — Tahiti. Type and Type of *Phragmicoma gibbosa*, Reichardt 1866, 1869, 1870, Ångström 1873 as *Phragmicoma gibbosa*, Stephani 1890a, 1897 as *Brachiolejeunea frauenfeldii*, Bescherelle 1898 as *Lejeunea frauenfeldii*, Verdoorn 1934a as *Mastigolejeunea frauenfeldii*, Bonner 1963a as *Brachiolejeunea frauenfeldii*, 1965 as *Mastigolejeunea frauenfeldii*, Miller et al. 1983 as *Lejeunea frauenfeldii*, *Mastigolejeunea frauenfeldii*, *Phragmicoma gibbosa*, *Brachiolejeunea frauenfeldii* and *Thysananthus frauenfeldii*, Geissler & Bischler 1989 as *Phragmicoma gibbosa*, 1990, Sukkharak & Gradstein 2014a, 2014b both as *Mastigolejeunea frauenfeldii*, Sukkharak 2015. TUBUAI ISLANDS. Rapa-Iti (Rapa I). Sukkharak & Gradstein 2014b as *Mastigolejeunea frauenfeldii*.

****T. humilis* (Gottsche) Sukkharak & Gradst.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Mastigolejeunea humilis*. — Moorea. Verdoorn 1934b as *Mastigolejeunea humilis*, Miller et al. 1983 as *Lejeunea virens*, as *Mastigolejeunea humilis*, *Mastigolejeunea virens* and *Thysananthus virens*, Sukkharak & Gradstein 2014b as *Mastigolejeunea humilis*. — Tahiti. Type of *Lejeunea tabitica*, Bescherelle 1898 as *Lejeunea tabitica*, Verdoorn 1934a, 1934b both as *Mastigolejeunea humilis*, Bischler 1965 as *Mastigolejeunea humilis*, Tixier 1966, 1970a, 1973b, 1975 all as *Mastigolejeunea humilis*, Mizutani 1977 as *Mastigolejeunea humilis*, Miller et al. 1983 as *Mastigolejeunea humilis*, *Phragmicoma versicolor*, *Phragmicoma taitica*, *Phragmicoma polyantha*, *Mastigolejeunea virens*, *Thysananthus virens*, *Lejeunea virens*, *Lejeunea tabitica*, *Mastigolejeunea taitica*, *Lejeunea taitica* and *Archilejeunea tabitensis*, Awasthi & Udar 1984 as *Mastigolejeunea humilis*, Bapna & Kachroo 2000b as *Mastigolejeunea humilis* var. *humilis*. TUBUAI ISLANDS. Rapa-Iti (Rapa I). Verdoorn 1937 as *Mastigolejeunea humilis*.

****T. ligulatus* (Lehm. & Lindenb.) Sukkharak & Gradst.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Mastigolejeunea ligulata*. — Moorea. Sukkharak & Gradstein 2014b as *Mastigolejeunea ligulata*. — Tahiti. Type of *Mastigolejeunea novo-hibernica*, Mitten 1873 as *Phragmicoma ligulata*, Bescherelle 1898 as *Lejeunea ligulata*, Schiffner 1898 as *Mastigolejeunea ligulata*, Stephani 1912a as *Mastigolejeunea novo-hibernica*, Swanson & Miller 1969 as *Mastigolejeunea ligulata*, Miller et al. 1983 as *Mastigolejeunea ligulata*, *Lejeunea ligulate* and *Phragmicoma ligulata*, Mizutani 1986 as *Mastigolejeunea ligulata*, Sukkharak & Gradstein 2014b as *Mastigolejeunea ligulata*, Singh et al. 2016b as *Mastigolejeunea ligulata*.

****T. repletus* (Taylor) Sukkharak & Gradst.

REPORTS. — SOCIETY ISLANDS. Tahiti. Sukkharak & Gradstein 2014b as *Mastigolejeunea repleta*.

****T. retusus* (Reinw., Blume & Nees) B.M.Thiers & Gradst.

REPORTS. — SOCIETY ISLANDS. Tahiti. Bischler 1965 as *Ptychanthus striatus* var. *retusus*, Miller *et al.* 1983 as *Ptychanthus striatus* var. *retusus*.

****T. virens* Ångstr.

REPORTS. — SOCIETY ISLANDS. Ångström 1875. — Moorea. Type, New [leg. *E. Kraichak* 285. 420, det. S.R. Gradstein (UC)], Ångström 1873, Bescherelle 1898 as *Lejeunea virens*, Thiers & Gradstein 1989 as *Mastigolejeunea virens*, Geissler & Bischler 1990, Gradstein *et al.* 2002 as *Mastigolejeunea virens*, Haerida *et al.* 2010 as *Mastigolejeunea virens*, Sukkharak 2011, 2015, Sukkharak & Gradstein 2014b as *Mastigolejeunea virens*, Wang *et al.* 2016 as *Mastigolejeunea virens*. — Tahiti. Syntype and Type of *Archilejeunea tahitensis*, *Mastigolejeunea taitica* and *Phragmicoma taitica*, Ångström 1873, Stephani 1890a as *Phragmicoma taitica*, 1896 as *Mastigolejeunea taitica*, 1911a as *Archilejeunea tahitensis*, 1912a also as *Mastigolejeunea virens*, Herzog 1926, Bonner 1962b as *Archilejeunea tahitensis*, Mizutani 1986 as *Mastigolejeunea virens*, Hürlimann 1989 as *Mastigolejeunea virens*, Singh *et al.* 2016b as *Mastigolejeunea virens*.
TUAMOTU ISLANDS. Gambier. Sukkharak & Gradstein 2014b as *Mastigolejeunea virens*.

Genus *Treubia* K.I.Goebel

****T. tahitensis* (Nadeaud) Besch.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Type of *Gottschea tahitensis*, Nadeaud 1873 as *Gottschea tahitensis*, Bescherelle 1898, Bonner 1966 as *Gottschea tahitensis*, Schuster & Scott 1969, Miller *et al.* 1983 also as *Gottschea tahitensis*, Schuster & Konstantinova 1995, Pfeiffer *et al.* 2002.

Genus *Trichocolea* Dumort.

****T. pluma* (Reinw., Blume & Nees) Mont.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Moorea. New [leg. *B.E. Carter* 3910, det. S.R. Gradstein (UC)], Miller *et al.* 1983, Katagiri *et al.* 2013. — Tahiti. Bescherelle 1898, Hürlimann 1983, Miller *et al.* 1983, Ludwiczuk & Asakawa 2010, Katagiri *et al.* 2013.

****T. tomentella* (Ehrh.) Dumort.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b, Frye & Clark 1943, Le Gallo 1951, Schuster 1966, Miller *et al.* 1983.

INVALID NAMES

A number of taxa are published from French Polynesia under invalid names. We have not been able to trace any specimen that the following reports may be based on and, thus, not been able to refer them to any valid taxon.

Genus *Alobiella* (Spruce) Schifffn.

?*A. grandistipula* Herzog *nom. inval.*

REPORTS. — SOCIETY ISLANDS. Tahiti. Type, Herzog 1926.

NOTE

We do not know where to refer Herzog's invalidly described *Alobiella grandistipula*. It is only mentioned in a paragraph on floristic elements in the Pacific without any further comments.

Genus *Aneura* Dumort.

?*A. pacifica* Steph. ex Besch. *nom. inval.*

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983, Whittier & Whittier 1987. — Tahiti. Type, Bescherelle 1898.

NOTE

The invalid *Aneura pacifica* from Tahiti is probably a *Riccardia* sp. (Miller *et al.* 1983) but the identity is still to be determined.

Genus *Bryopteris* (Nees) Lindenb.

?*B. rigida* Herzog *nom. inval.*

REPORTS. — SOCIETY ISLANDS. Tahiti. Type, Herzog 1926.

NOTE

We do not know where to refer Herzog's invalidly described *Bryopteris rigida*. It is only mentioned in a paragraph on floristic elements in the Pacific without any further comments.

Genus *Lejeunea* Lib.

?*L. translucida* Gottsche *nom. inval.*

REPORTS. — SOCIETY ISLANDS. Tahiti. Original material, Gottsche 1882, Geissler & Bischler 1987.

NOTE

The identity of the invalidly described *Lejeunea translucida* (leg. *Vesco*) is unknown to us.

Genus *Lepidozia* (Dumort.) Dumort.

?*L. contigua* Steph. *nom. inval.*

REPORTS. — SOCIETY ISLANDS. Tahiti. Miller *et al.* 1983.

NOTE

Miller *et al.* (1983) did not know where to refer the invalidly published *Lepidozia contigua*.

Genus *Mastigophora* Nees

?*M. longifissa* Steph. ex Besch. *nom. inval.*

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Original material, Bescherelle 1898.

NOTE

Miller *et al.* 1983 did not know where to refer the invalidly published *Mastigophora longifissa*.

Genus *Odontoschisma* (Dumort.) Dumort.

?*O. tahitense* Steph. ex Besch. *nom. inval.*

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Original material, Bescherelle 1898, Miller *et al.* 1983, Geissler & Bischler 1989, So 2004, Gradstein & Ilkiu-Borges 2015.

NOTE

Miller *et al.* (1983) and So (2004) did not know where to refer *Odontoschisma tahitense* from Tahiti. The original material could not be located (Gradstein & Ilkiu-Borges 2015).

Genus *Plagiochila* (Dumort.) Dumort.

?*P. lepinei* Steph. ex Besch. *nom. inval.*

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Original material, Bescherelle 1898, Bonner 1962a, Miller *et al.* 1983, Geissler & Bischler 1989, So 2001c.

NOTE

The invalidly described *Plagiochila lepinei* seems only to be known from the original material and none seems to have studied it since its description.

Genus *Trichocolea* Dumort.

?*T. tomentella* var. *javanica-pluma* Nadeaud

REPORTS. — SOCIETY ISLANDS. Tahiti. Type, Nadeaud 1873.

TAXA REPORTED BUT DOUBTFULLY OCCURRING IN FRENCH POLYNESIA

ANTHOCEROTOPHYTA Rothm.

ex Stotler & Crand.-Stotl.

Genus *Phaeoceros* Prosk.

****P. laevis* (L.) Prosk.

REPORTS. — SOCIETY ISLANDS. Guillemin 1836 as *Anthoceros laevis*, Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b both as *Anthoceros laevis*, Bescherelle 1898 as *Anthoceros laevis*, Frye & Clark 1947 as *Anthoceros laevis*, Miller *et al.* 1983 as *Phaeoceros laevis* subsp. *laevis*, Schuster 1992b as *Anthoceros laevis*.

NOTE

All reports of *Phaeoceros laevis* from the Pacific are s. lat. They probably represent the more widespread *Phaeoceros carolinianus* or some related species.

MARCHANTIOPHYTA Stotler & Crand.-Stotl.

Genus *Aneura* Dumort.

****A. pinguis* (L.) Dumort.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Nadeaud 1873, Miller *et al.* 1983.

NOTE

Aneura pinguis is a species complex (Long *et al.* unpubl.) and reports from the Pacific almost certainly belong to some other (possibly undescribed) species.

Genus *Bazzania* Gray

****B. adnexa* (Lehm. & Lindenb.) Trevis.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b both as *Mastigobryum novae-hollandiae*, Miller *et al.* 1983 also as *Bazzania novae-hollandiae* and *Mastigobryum novae-hollandiae*.

NOTE

There is only one old report of *Bazzania adnexa* from the Pacific, and in absence of recent reports the identity must be questioned.

****B. monilineris* (Lehm. & Lindenb.) Trevis.

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983 as *Mastigobryum monilineris*, Whittier & Whittier 1987. — Tahiti. Nadeaud 1873 as *Mastigobryum monilineris*, Miller *et al.* 1983 [with a '?'], Engel & Glennly 2008b.

NOTE

There is only one old report of *Bazzania monilinervis* from the Pacific, and in absence of recent reports the identity must be questioned.

****B. praerupta* (Reinw., Blume & Nees) Trevis.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Bazzania cordistipula*. — Tahiti. Nadeaud 1873 as *Mastigobryum cordistipulum*, Miller *et al.* 1983 as *Bazzania cordistipula*.

NOTE

There is only one old report of *Bazzania praerupta* from French Polynesia. It's occurrence there is possible as it occurs on Hawaii, but is in need of confirmation.

**B. sumbavensis* (Gottsche ex Steph.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Tixier 1974, Miller *et al.* 1983.

NOTE

Bazzania sumbavensis is possibly conspecific with *Bazzania japonica* (Söderström *et al.* 2010). We are not aware of any first hand report from French Polynesia.

Genus *Chiastocaulon* Carl

****C. dendroides* (Nees) Carl

REPORTS. — SOCIETY ISLANDS. Tahiti. Inoue 1982 as *Plagi-ochila dendroides*, Renner *et al.* 2016, Shu *et al.* 2017.

NOTE

We are not aware of any first hand report of *Chiastocaulon dendroides* from French Polynesia.

Genus *Cololejeunea* (Spruce) Steph.

***C. cordiflora* Steph.

REPORTS. — SOCIETY ISLANDS. Hürlimann 1987, Pócs 2012b.

NOTE

We are not aware of any first hand report of *Cololejeunea cordiflora* from French Polynesia.

****C. verrucosa* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Pócs & Ninh 2012, Pócs 2012b (with a '?'). — Tahiti. Miller *et al.* 1983.

NOTE

We are not aware of any first hand report of *Cololejeunea verrucosa* from French Polynesia. Pócs (2012b) questioned its occurrence there.

Genus *Colura* (Dumort.) Dumort.

****C. apiculata* (Schiffn.) Steph.

REPORTS. — SOCIETY ISLANDS. Tahiti. Miller *et al.* 1983 as *Colurolejeunea apiculata*.

NOTE

We are not aware of any first hand report of *Colura apiculata* from the Society Islands.

Genus *Drepanolejeunea* (Spruce) Steph.

**D. hampeana* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Bonner 1965, Miller *et al.* 1983.

NOTE

We are not aware of any first hand report of *Drepanolejeunea hampeana* from the Pacific.

***D. laevis* (Mitt.) Steph.

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983, Whittier & Whittier 1987.

NOTE

Drepanolejeunea laevis is only known from the type collected on "South Sea Islands" which sometimes has been interpreted as the Society Islands.

Genus *Frullania* Raddi

****F. hypoleuca* Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Miller *et al.* 1983 also as *Frullania explicata* [Miller *et al.* 1983 got the synonymy wrong], von Konrat & Braggins 2001.

NOTE

We are not aware of any first hand report of *Frullania hypoleuca* from French Polynesia.

****F. meyeniana* Lindenb.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Pócs *et al.* 1967, Bapna & Kachroo 2000b.

NOTE

We are not aware of any first hand report of *Frullania meyeniana* from French Polynesia. Hattori & Lin (1985) questioned its occurrence there.

**— var. *meyeniana*

REPORTS. — SOCIETY ISLANDS. Hattori & Lin 1985. — Tahiti. Miller *et al.* 1983.

****F. neurota* Taylor

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Miller *et al.* 1983.

NOTE

We are not aware of any first hand report of *Frullania neurota* from French Polynesia.

Genus *Lobatiriccardia* (Mizut. & S.Hatt.) Furuki

****L. alterniloba* (Hook.f. & Taylor) Furuki

REPORTS. — MARQUESAS. Jardin 1857 as *Pellia carnosa*.

NOTE

Lobatiriccardia alterniloba is not recorded from SE Pacific after 1857 and the correctness of the report is questioned.

Genus *Lepidolejeunea* R.M.Schust.

****L. bidentula* (Steph.) R.M.Schust.

REPORTS. — SOCIETY ISLANDS. Tahiti. Miller *et al.* 1983 as *Ceratolejeunea auriculata*.

NOTE

We are not aware of any first hand report of *Lepidolejeunea bidentula* from the Society Islands.

Genus *Metzgeria* Raddi

***M. scobina* Mitt.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Bescherelle 1898, Kuwahara 1960 (doubting earlier reports), Miller *et al.* 1983 (with a '?').

NOTE

Metzgeria scobina is a taxon from SE Asia and Australia. Kuwahara (1960) doubted the report from Tahiti.

Genus *Pallavicinia* Gray

***P. cylindrica* (Austin) A.Evans

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Miller *et al.* 1983 also as *Pallavicinia simplex*.

NOTE

We are not aware of any first hand report from French Polynesia of *Pallavicinia cylindrica*.

****P. levieri* Schiffn.

REPORTS. — SOCIETY ISLANDS. Tahiti. Syntype of *Blytia levieri*, Stephani 1900a, Campbell 1915 also as *Blytia levieri*, Miller *et al.* 1983 as *Blytia levieri*.

NOTE

The identity of the syntype of *Pallavicinia levieri* from Tahiti is unclear. We are not aware of any further report from French Polynesia.

Genus *Plagiochila* (Dumort.) Dumort.

****P. blepharophora* (Nees) Lindenb.

REPORTS. — SOCIETY ISLANDS. Tahiti. Nadeaud 1873.

NOTE

Plagiochila blepharophora is widespread in SE Asia but its occurrence on Tahiti was questioned by Miller *et al.* (1983) as a possible confusion with *Plagiochila vitiensis*.

****P. deflexa* Mont. & Gottsche

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Dugas 1928, 1929 both as *Plagiochila caespitosa*, Miller *et al.* 1983 also as *Plagiochila cespitans* and *Plagiochila caespitosa*.

NOTE

Plagiochila deflexa is a New World taxon extending its occurrence to Hawaii. It was rejected from Samoa as *Plagiochila bialata* by Inoue (1981). The identity of the reports from Tahiti is unknown.

****P. sciophila* Nees

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983 as *Plagiochila acanthophylla*. — Tahiti. Bescherelle 1898 as *Plagiochila orientalis*, Bonner 1962a as *Plagiochila acanthophylla*, Pócs 1971 as *Plagiochila acanthophylla*, Miller *et al.* 1983 as *Plagiochila orientalis* (*sensu* Steph. 1914).

NOTE

Plagiochila sciophila is widespread in the Pacific but the occurrence on Tahiti was questioned by Miller *et al.* (1983).

****P. trabeculata* Steph.

REPORTS. — SOCIETY ISLANDS. Tahiti. Dugas 1928, 1929.

NOTE

The report of *Plagiochila trabeculata* from Tahiti is the only one from the Pacific and its correctness should be questioned.

Genus *Podomitrium* Mitt.

****P. malaccense* (Steph.) Campb.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Miller *et al.* 1983.

NOTE

Podomitrium malaccensis is only reported second hand from Tahiti, and only with doubts.

Genus *Ptychanthus* Nees

****P. striatus* (Lehm. & Lindenb.) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Miller *et al.* 1983.

NOTE

We are not aware of any first hand report of *Ptychanthus striatus* from French Polynesia.

Genus *Radula* Dumort.

****R. campanigera* Mont.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Stephani 1910, Schuster 1980b, Miller *et al.* 1983, Bapna & Kachroo 2000b, Singh Deo & Singh 2017, Singh & Dash 2018.

NOTE

We are not aware of any first hand report of *Radula campanigera* from French Polynesia in spite of the genus having been well studied by Castle and Yamada in the past.

***— subsp. *campanigera*

REPORTS. — SOCIETY ISLANDS. — Tahiti. Yamada 1979.

****R. novae-hollandiae* Hampe

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Bescherelle 1898, Miller *et al.* 1983 (with a '?').

NOTE

Radula novae-hollandiae is a taxon from Australia and New Caledonia. The old reports from Tahiti are doubtful.

***R. nymannii* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987, Pócs & Podani 2015. — Tahiti. Swanson & Miller 1969, Yamada 1979, Miller *et al.* 1983, Yamada & Piippo 1989, Promma & Chantanaorrapint 2015, Singh *et al.* 2016a, b, Singh & Dash 2017, Pócs & Kovács 2019.

NOTE

We are not aware of any first hand report of *Radula nymannii* from the French Polynesia.

***R. tjibodensis* K.I.Goebel

REPORTS. — SOCIETY ISLANDS. Tahiti. Pócs *et al.* 1967. (with a "?").

NOTE

Radula tjibodensis was reported from Tahiti only with a ?.

****R. ventricosa* Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Radula subpallens*. — Tahiti. Miller *et al.* 1983 as *Radula subpallens*.

NOTE

We are not aware of any first hand report of *Radula ventricosa* from the Pacific.

Genus *Riccardia* Gray

****R. alba* (Colenso) E.A.Br.

REPORTS. — SOCIETY ISLANDS. Tahiti. Hürlimann 1976 as *Riccardia samoana*, Brown & Braggins 1989.

NOTE

We are not aware of any first hand report of *Riccardia alba* from French Polynesia.

****R. multifida* (L.) Gray

REPORTS. — SOCIETY ISLANDS. Guillemin 1836 as *Jungermannia multifida*, Whittier & Whittier 1987. — Tahiti. Nadeaud 1873 as *Aneura multifida*, Bescherelle 1898 as *Aneura multifida*, Miller *et al.* 1983 also as *Jungermannia multifida* (with a '?').

NOTE

Miller *et al.* (1983) questioned the identity of the old reports of *Riccardia multifida* from Tahiti.

Genus *Riccia* L.

****R. crystallina* L.

REPORTS. — SOCIETY ISLANDS. Tahiti. Nadeaud 1864 as *Riccia ochrospora*.

NOTE

There is only one old record of *Riccia crystallina* from the Pacific, and the identity should be questioned.

Genus *Sandeothallus* R.M.Schust

***S. radiculosus* (Schiffn.) R.M.Schust.

REPORTS. — SOCIETY ISLANDS. Schuster 1983 as *Calycularia radiculosa*.

NOTE

We are not aware of any first hand report of *Sandeothallus radiculosus* from French Polynesia.

Genus *Schizophyllopsis* Vána & L.Söderstr.

****S. bidens* (Reinw., Blume & Nees) Vána & L.Söderstr.

REPORTS. — SOCIETY ISLANDS. Tahiti. Hattori 1971 as *Anastrophyllum bidens* (with a '?').

NOTE

Schizophyllopsis bidens has only been reported from French Polynesia with a question mark.

Genus *Solenostoma* Mitt.

****S. truncatum* (Nees) R.M.Schust. ex Vána & D.G.Long

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Jungermannia polyrhiza*. — Tahiti. Nadeaud 1873 as *Jungermannia polyrhiza*, Vána 1975a, 1991a both as *Jungermannia truncata* (with doubt), Miller *et al.* 1983 as *Jungermannia polyrhiza*, Vána & Piippo 1989a as *Jungermannia truncata*, Piippo *et al.* 1998 as *Jungermannia truncata*, Vána *et al.* 2005 as *Jungermannia truncata*.

NOTE

Vána (1975a) assumed that the report of *Solenostoma truncatum* from Tahiti was *Jungermannia micrantha* but he could not study it.

Genus *Thysananthus* Lindenb.

****T. comosus* Lindenb.

REPORTS. — MARQUESAS. — Jardin 1857.

NOTE

Thysananthus comosus is never recorded from French Polynesia after Jardin and is closest mentioned (without any specification) from Samoa by Pócs *et al.* (1967; no further report) and the Caroline Islands (Sukkharak 2015). Thus, we regard the occurrence as doubtful.

****T. fruticosus* (Lindenb. & Gottsche) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Miller *et al.* 1983 also as *Lejeunea filicina* (*sensu* Gottsche, Lindenb. & Nees).

NOTE

We are not aware of any first hand report of *Thysananthus fruticosus* from French Polynesia although it has been confirmed as close as from the Cook Islands.

Genus *Treubia* K.I.Goebel

****T. insignis* K.I.Goebel

REPORTS. — SOCIETY ISLANDS. Tahiti. Stephani 1900b, Campbell 1915, Rodway 1916, Pearson 1922, Herzog 1926.

NOTE

Miller *et al.* (1983) questioned the old reports of *Treubia insignis* from Tahiti.

**— subsp. *insignis*

REPORTS. — SOCIETY ISLANDS. Tahiti. Miller *et al.* 1983 (with a '?').

TAXA REPORTED BUT REJECTED FROM FRENCH POLYNESIA

ANTHOCEROTOPHYTA Rothm.
ex Stotler & Crand.-Stotl.
Genus *Anthoceros* L.

**A. javanicoides* H.A.Mill.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 .

NOTE

Anthoceros javanicoides was only mentioned by Whittier & Whittier (1987) but it can not be found in the reference they refer to, and thus rejected as an error.

Genus *Dendroceros* Nees

***D. crassinervis* (Nees) Gottsche

REPORTS. — MARQUESAS. Jardin 1857 as *Anthoceros crassinervis*.

NOTE

Dendroceros crassinervis is a Neotropical taxon with some doubtful reports from India and a report from Samoa that is rejected as *Dendroceros granulatus* by Hasegawa (1982). We thus reject the old report from the Marquesas as something else.

****D. crispus* (Sw.) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b, Miller *et al.* 1983.

NOTE

Dendroceros crispus is a neotropical species and older reports are certainly identification errors.

MARCHANTIOPHYTA Stotler & Crand.-Stotl.

Genus *Acrolejeunea* (Spruce) Schiffn.

****A. fertilis* (Reinw., Blume & Nees) Schiffn.

REPORTS. — SOCIETY ISLANDS. Tahiti. Verdoorn 1934a, 1934b as *Ptychocoleus fertilis*.

NOTE

Gradstein (1975) rejected the report by Verdoorn (1934b) as *Acrolejeunea aulacophora* or *Acrolejeunea securifolia*.

****A. infusata* (Mitt.) Jian Wang bis & Gradst.

REPORTS. — SOCIETY ISLANDS. Tahiti. Bapna & Kachroo 2000b as *Trocholejeunea infusata*.

NOTE

We are not aware of any first hand report of *Acrolejeunea infusata* and regard the report as an error.

****A. sandwicensis* (Gottsche) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Trocholejeunea sandwicensis*, Zhang 2003 as *Trocholejeunea sandwicensis*.

— Tahiti. Bescherele 1898 as *Lejeunea 'sandwicensis'*, Verdoorn 1934a, 1934b both as *Brachiolejeunea sandwicensis*, Hattori 1952a as *Brachiolejeunea sandwicensis*, Mizutani 1961 as *Brachiolejeunea sandwicensis*, Tixier 1970a as *Brachiolejeunea sandwicensis*, Pócs 1971 as *Brachiolejeunea sandwicensis*, Mizutani 1978 as *Trocholejeunea sandwicensis*, Miller *et al.* 1983 as *Trocholejeunea sandwicensis*, Bapna & Kachroo 2000b as *Trocholejeunea sandwicensis*.

NOTE

Sun *et al.* (2018) rejected earlier reports of *Acrolejeunea sandwicensis* from French Polynesia as *Acrolejeunea securifolia* subsp. *pallida*.

Genus *Bryopteris* (Nees) Lindenb.

****B. filicina* (Sw.) Nees

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Bryopteris fruticulosa*. — Tahiti. Reichardt 1870, Stephani 1890a (rejecting report as mislabelled), Bescherele 1898 as *Lejeunea filicina*, Evans 1907 (doubting the origin of the specimen), Pagán 1939b, Stotler & Crandall-Stotler 1974 as *Bryopteris fruticulosa* subsp. *monoica*, Miller *et al.* 1983 as *Bryopteris fruticulosa*.

NOTE

Bryopteris filicina is a Neotropical taxon and the old reports from Tahiti are to be rejected as other species or possibly mislabelled.

Genus *Cheilolejeunea* (Spruce) Steph.

****C. clausa* (Nees & Mont.) R.M.Schust.

REPORTS. — SOCIETY ISLANDS. Tahiti. Reichardt 1870 as *Lejeunea opaca*, Bescherele 1898 as *Lejeunea opaca*.

NOTE

Cheilolejeunea clausa is a Neotropical taxon and the old reports from Tahiti were rejected as *Cheilolejeunea cookiensis* by Miller *et al.* (1983).

****C. mariana* (Gottsche) B.M.Thiers & Gradst.

REPORTS. — SOCIETY ISLANDS. Moorea. Miller *et al.* 1983 as *Spruceanthus marianus*. — Tahiti. Verdoorn 1934a, 1934b both as *Archilejeunea mariana*, Hattori 1951 as *Archilejeunea mariana*, Swanson & Miller 1969 as *Archilejeunea mariana*, Tixier 1972 as *Archilejeunea mariana*, Mizutani 1977 as *Spruceanthus marianus*, Miller *et al.* 1983 as *Archilejeunea caramuensis* var. *denticulata* and *Spruceanthus marianus*.

NOTE

Cheilolejeunea mariana has generally been confused with *Spruceanthus planiusculus* (Thiers & Gradstein 1989) and should be rejected from the Pacific except the Marianas.

Genus *Cololejeunea* (Spruce) Steph.

****C. cardiocarpa* (Mont.) A. Evans

REPORTS. — SOCIETY ISLANDS. Tahiti. Hürlimann 1987, Fulford & Sharp 1990 as *Leptocolea cardiocarpa*, Pócs *et al.* 2011, Müller 2015.

NOTE

Pócs (2012a) rejected all reports of *Cololejeunea cardiocarpa* from Tahiti as *Cololejeunea pacifica*.

****C. haskarliana* (Lehm.) Schiffn.

REPORTS. — SOCIETY ISLANDS. Tahiti. Bescherelle 1898 as *Lejeunea haskarliana*.

NOTE

The report is not based on any *Cololejeunea* as Bescherelle place it in subg. “*Acrolejeunea*”.

Genus *Cyathodium* Kunze

****C. cavernarum* Kunze

REPORTS. — SOCIETY ISLANDS. Tahiti. Nadeaud 1873.

NOTE

Cyathodium cavernarum has only been reported once from the Pacific and was rejected as *C. foetidissimum* in Miller *et al.* (1983).

Genus *Drepanolejeunea* (Spruce) Steph.

****D. inchoata* (C.F.W.Meissn.) Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Reichardt 1870 as *Lejeunea inchoata*, Bescherelle 1898 as *Lejeunea inchoata*, Miller *et al.* 1983 also as *Lejeunea inchoata*.

NOTE

Drepanolejeunea inchoata is a Neotropical species and reports from Tahiti probably belong to *Drepanolejeunea thwaitesiana*.

Genus *Frullania* Raddi

****F. atrata* (Sw.) Nees ex Mont.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Nadeaud 1873, Miller *et al.* 1983 (with a ‘?’).

NOTE

Frullania atrata is a Neotropical species and the old record by Nadeaud should be rejected.

***F. pancheri* Gottsche

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Miller *et al.* 1983 (with a ‘?’).

NOTE

Frullania pancheri is only known from New Caledonia (Thouvenot *et al.* 2011) and the unsupported reports from Tahiti must be rejected.

***F. pusilla* Mitt.

REPORTS. — SOCIETY ISLANDS. Hattori 1986a [rejecting earlier records as *Fnadeaudii*]. — Tahiti. Stephani 1910 as *Frullania bescherellei*, Pearson 1922 as *Frullania bescherellei*, Bonner 1965 as *Frullania bescherellei*, Hattori 1981 as *Frullania bescherellei* (with a ‘?’).

NOTE

Hattori (1986a) rejected reports of *Frullania pusilla* from Tahiti as *Frullania nadeaudii*.

Genus *Gymnomitrium* Corda

****G. concinatum* (Lightf.) Corda

REPORTS. — SOCIETY ISLANDS. Tahiti. Stephani 1886.

NOTE

Stephani’s (1886) report must be an error for some locality in Alaska.

Genus *Heteroscyphus* Schiffn.

****H. contortuplicatus* (Nees & Mont.) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Chiloscyphus contortuplicatus*. — Tahiti. Montagne 1856 as *Geocalyx contortuplicatus* (with a ‘?’), Miller *et al.* 1983 as *Geocalyx contortuplicatus*.

NOTE

Heteroscyphus contortuplicatus is a Neotropical species.

Genus *Lepicolea* Dumort.

****L. ochroleuca* (Spreng.) Spruce

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b both as *Sendtnera ochroleuca*, Nadeaud 1873 as *Sendtnera ochroleuca*, Schiffner 1898, Miller *et al.* 1983 (with a ‘?’).

NOTE

Lepicolea ochroleuca is a Neotropical-African taxon and the old reports from Tahiti must be rejected.

Genus *Lepidozia* (Dumort.) Dumort.**L. massartiana* Schiffn. ex Steph.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Syntype, Stephani 1909a, Kitagawa 1973, Miller *et al.* 1983, Geissler & Bischler 1985.

NOTE

The syntype of *Lepidozia massartiana* from Tahiti belongs to *Telaranea cuneifolia* (Engel & Smith Merrill 2004).

Genus *Marchantia* L.****M. chenopoda* L.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b, Miller *et al.* 1983 (with a '?'), Bischler 1984.

NOTE

Marchantia chenopoda is a Neotropical taxon and the reports from Tahiti were rejected as *Marchantia hexaptera* by Bischler-Causse (1989).

****M. emarginata* Reinw., Blume & Nees subsp. *emarginata*

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Marchantia amboinensis*. — Moorea. Ångström 1873 as *Marchantia amboinensis*, Bescherelle 1898 as *Marchantia amboinensis*, Miller *et al.* 1983 as *Marchantia amboinensis*. — Tahiti. Montagne 1845 as *Marchantia amboinensis*, Gottsche *et al.* 1846 as *Marchantia amboinensis*, Montagne 1856 as *Marchantia amboinensis*, Jardin 1860 as *Marchantia amboinensis*, Ångström 1873 as *Marchantia amboinensis*, Bescherelle 1898 as *Marchantia amboinensis*, Schiffner 1898 as *Marchantia amboinensis*, Miller *et al.* 1983 as *Marchantia amboinensis*.

NOTE

Marchantia emarginata was rejected from French Polynesia by Bischler-Causse (1989).

****M. paleacea* Bertol.

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983 as *Marchantia nitida*, Whittier & Whittier 1987. — Tahiti. Hattori 1966, 1968b (with a '?'), Miller *et al.* 1983 (with a '?'), Bischler 1984, Bapna & Kachroo 2000b, Alam & Srivastava 2009.

NOTE

The reports of *Marchantia paleacea* from Tahiti were rejected as *Marchantia hexaptera* by Bischler-Causse (1989).

***— subsp. *paleacea*REPORTS. — MARQUESAS. Jardin 1857 as *Marchantia tholophora*.

SOCIETY ISLANDS. Tahiti. Mitten 1873 as *Marchantia nitida*, Bescherelle 1898 as *Marchantia nitida*, Schiffner 1898 as *Marchantia nitida*, Evans 1917 as *Marchantia nitida*, Schuster 1992b (with doubt), Singh & Singh 2009.

Genus *Metzgeria* Raddi****M. dichotoma* (Sw.) Nees

REPORTS. — MARQUESAS. Jardin 1857.

NOTE

Metzgeria dichotoma is a neotropical species and the report from the Marquesas must be rejected as some other species.

Genus *Monoclea* Hook.****M. forsteri* Hook.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 also as *Anthoceros forsteri*. — Tahiti. Nadeaud 1873 as *Anthoceros forsteri*, Bonner 1962b as *Anthoceros forsteri*, Miller *et al.* 1983 also as *Anthoceros forsteri* (with a '?').

NOTE

Monoclea forsteri is endemic to New Zealand and the report in Nadeaud (1873) must refer to some other species.

Genus *Mylia* Gray****M. taylorii* (Hook.) GrayREPORTS. — SOCIETY ISLANDS. Tahiti. Nadeaud 1873 as *Jungermannia taylorii*.

NOTE

Mylia taylorii is a Holarctic taxon and the report by Nadeaud from Tahiti must be rejected. Miller *et al.* (1983) rejects it as *Solenostoma micrantha*.

Genus *Plagiochila* (Dumort.) Dumort.****P. frondescens* (Nees) Lindenb.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Montagne 1848a, 1848b, Schiffner 1898, 1900, Schiffner & Stephani 1901, Swanson & Miller 1969, Inoue 1982, Miller *et al.* 1983, Piippo 1989a.

NOTE

Plagiochila frondescens is a SE Asiatic taxon and earlier reports from Tahiti were rejected by Inoue (1984).

***P. neesiana* Lindenb.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Nadeaud 1873, Miller *et al.* 1983 (with a '?').

NOTE

Plagiochila neesiana is a Neotropical taxon and the reports from Tahiti must be rejected.

Genus *Podomitrium* Mitt.

****P. phyllanthus* (Hook.) Mitt.

REPORTS. — SOCIETY ISLANDS. Tahiti. Montagne 1848a, 1848b both as *Steezia cladorrhizans* (with a '?'), Schiffner 1898 as *Hymenophyton phyllanthus*.

NOTE

Podomitrium phyllanthus is an Australasian taxon only reported with question marks from Tahiti. It should be rejected from Tahiti.

Genus *Porella* L.

****P. crispata* (Hook.) Trevis.

REPORTS. — MARQUESAS. Jardin 1857 as *Madotheca crispata*. SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Jardin 1860 as *Madotheca crispata*, Miller *et al.* 1983 also as *Madotheca crispata*.

NOTE

Porella crispata is a Neotropical species that should be rejected from Tahiti.

****P. elegantula* (Mont.) E.A.Hodgs.

REPORTS. — SOCIETY ISLANDS. Miller *et al.* 1983 as *Madotheca stangeri*, Whittier & Whittier 1987. — Tahiti. Mitten 1873 as *Madotheca stangeri*, Bescherelle 1898 as *Madotheca stangeri*, Miller *et al.* 1983 also as *Porella stangeri*.

NOTE

Porella elegantula was rejected as *Porella viridissima* from the Pacific by Hattori (1986c).

****P. subsquarrosa* (Nees & Mont.) Trevis.

REPORTS. — SOCIETY ISLANDS. Tahiti. Ångström 1873 as *Madotheca subsquarrosa*, Nadeaud 1873 as *Madotheca subsquarrosa*, Bescherelle 1898 as *Madotheca subsquarrosa*, Miller *et al.* 1983 as *Madotheca subsquarrosa*.

NOTE

Porella subsquarrosa is a Neotropical taxon and the old reports from Tahiti should be rejected.

Genus *Radula* Dumort.

***R. anceps* Sande Lac.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Radula apiculata*, Zhang 2003 as *Radula apiculata*. — Tahiti. Stephani 1884, 1910 both as *Radula apiculata*, Bescherelle 1898 as *Radula apiculata*, Castle 1961, 1968 both as *Radula apiculata*, Inoue & Miller 1965 as *Radula apiculata*, Kitagawa 1973, 1979 both as *Radula apiculata*, Hürlimann 1978 as *Radula apiculata*, Yamada 1979 as *Radula apiculata*, Miller *et al.* 1983 as *Radula apiculata*, Yamada & Piippo 1989 as *Radula apiculata*, Geissler & Bischler 1990 as *Radula apiculata*, Bapna & Kachroo 2000b as *Radula apiculata*.

NOTE

Radula anceps was rejected from the Pacific by So (2006).

****R. pallens* (Sw.) Nees ex Mont.

REPORTS. — SOCIETY ISLANDS. Tahiti. Montagne 1845, Jardin 1860, Miller *et al.* 1983.

NOTE

Radula pallens is a Neotropical taxon and Miller *et al.* (1983) rejected it from Tahiti.

***R. tabularis* Steph.

REPORTS. — TUBUAI ISLANDS. Hodgson 1972, Miller *et al.* 1983.

NOTE

Radula tabularis was reported referring to Castle (1963) who did not mention it from the Pacific under any name.

Genus *Riccardia* Gray

****R. chamedryfolia* (With.) Grolle

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Aneura pinnatifida*. — Tahiti. Nadeaud 1873 as *Aneura pinnatifida*, Miller *et al.* 1983 as *Aneura pinnatifida*.

NOTE

Miller *et al.* (1983) rejected *Riccardia chamaedryfolia* from Tahiti as misidentifications of other species.

****R. palmata* (Hedw.) Carruth.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Ångström 1873 as *Aneura palmata* β *laxa*, Bescherelle 1898 as *Aneura palmata* and *Aneura palmata* β *laxa*, Miller *et al.* 1983 as *A. palmata* var. *laxa*.

NOTE

Riccardia palmata is a Holarctic species and old reports from the Pacific should be rejected.

****R. poeppigiana* (Lehm. & Lindenb.)
Hassel ex Meenks & C.De Jong

REPORTS. — MARQUESAS. Jardin 1857 as *Metzgeria poeppigiana*.

NOTE

Riccardia poeppigiana is a Neotropical species that should be rejected from the Marquesas.

Genus *Schiffneriolejeunea* Verd.

****S. cumingiana* (Mont.) Gradst.

REPORTS. — MARQUESAS. Verdoorn 1934a, 1934b both as *Ptychocoleus cumingianus*, Tixier 1966, 1967b, 1972 all as *Ptychocoleus cumingianus*, Miller 1968 as *Ptychocoleus cumingianus*, Swanson & Miller 1969 as *Ptychocoleus cumingianus*, Bapna & Kachroo 2000b. — Nuku Hiua. Miller *et al.* 1983 also as *Lejeunea marquesiana*, *Ptychocoleus marquesanus* and *Acrolejeunea marquesana*.

SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Bescherelle 1898 as *Lejeunea cumingiana*, Verdoorn 1934a, 1934b both as *Ptychocoleus cumingianus*, Tixier 1966, 1967b, 1971 all as *Ptychocoleus cumingianus*, Miller 1968 as *Ptychocoleus cumingianus*, Swanson & Miller 1969 as *Ptychocoleus cumingianus*, Miller *et al.* 1983 also as *Lejeunea cumingiana* and *Ptychocoleus marquesanus*.

NOTE

All Pacific records of the rare Melanesian species *Schiffneriolejeunea cumingiana* are misidentified and should probably be referred to *Schiffneriolejeunea tumida* var. *haskarlina* (Gradstein & Terken 1981).

Genus *Schistochila* Dumort.

****S. berteriana* (Hook.) Steph.

REPORTS. — SOCIETY ISLANDS. Tahiti. Nadeaud 1873 as *Gottschea berteriana*.

NOTE

Schistochila berteriana is a S American taxon and the old report from Tahiti should be rejected.

Genus *Stictolejeunea* (Spruce) Schiffn.

****S. squamata* (Willd.) Schiffn.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Pearson 1924 (with doubt; referring to Gottsche *et al.* 1845 but they say Oiwaihi, not Tahiti), Miller *et al.* 1983.

NOTE

Stictolejeunea squamata is a Neotropical species.

Genus *Symbiezidium* Trevis.

****S. transversale* (Sw.) Trevis. var. *transversale*

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987 as *Lejeunea granulata*. — Tahiti. Montagne 1848a, 1848b both as *Lejeunea granulata*, Miller *et al.* 1983 as *Lejeunea granulata*.

NOTE

Symbiezidium transversale is a Neotropical species and all reports from the Pacific should be rejected.

Genus *Symphyogyna* Nees & Mont.

****S. hochstetteri* Nees & Mont.

REPORTS. — SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Nadeaud 1873, Miller *et al.* 1983.

NOTE

Symphyogyna hochstetteri is a southern species and the old report from Tahiti should be rejected.

Genus *Thysananthus* Lindenb.

****T. anguiformis* (Hook.f. & Taylor) Gottsche,
Lindenb. & Nees

REPORTS. — MARQUESAS. Jardin 1857. SOCIETY ISLANDS. Whittier & Whittier 1987. — Tahiti. Jardin 1860, Miller *et al.* 1983 also as *Lejeunea ophiocéphala* and *Lejeunea anguiformis* (with a '?').

NOTE

Thysananthus anguiformis is endemic to New Zealand (Sukharak 2015).

****T. auriculatus* (Wilson & Hook.) Sukharak & Gradst.

REPORTS. — SOCIETY ISLANDS. Tahiti. Montagne 1848a, 1848b both as *Phragmicoma versicolor*, Reichardt 1870 as *Phragmicoma versicolor*, Bescherelle 1898 as *Lejeunea auriculata*, Singh *et al.* 2010 as *Mastigolejeunea auriculata*.

NOTE

According to Sukharak & Gradstein (2014b) all records of *Thysananthus auriculatus* from Asia and Oceania belong to *Thysananthus humilis*.

SYNONYMS

Acrolejeunea haskarliana (Gottsche) Schiffn. = *Schiffneriolejeunea tumida* var. *haskarliana*
Acrolejeunea marquesana Steph. = *Schiffneriolejeunea tumida*
Anastrophyllum bidens (Reinw., Blume & Nees) Steph. = *Schizophyllopsis bidens*
Anastrophyllum contractum (Reinw., Blume & Nees) Steph. = *Cuspidatula contracta*
Anastrophyllum lancilobum Steph. = *Schizophyllopsis lanciloba*
Anastrophyllum macrophyllum (Ångstr.) Steph. = *Cuspidatula robusta*
Anastrophyllum monodon (Taylor) Steph. = *Cuspidatula monodon*
Aneura angustissima Steph. = *Riccardia angustissima*
Aneura fuscescens Steph. = *Riccardia graeffei*
Aneura hyalina Steph. = *Riccardia hyalina*
Aneura multifida (L.) Dumort. = *Riccardia multifida*
Aneura nadeaudiana Steph. = *Riccardia graeffei*
Aneura nadeaudii Steph. = *Riccardia nadeaudii*
Aneura nadeaudii Steph. ex Besch. nom. inval. = *Riccardia nadeaudii*
Aneura palmata (Hedw.) Dumort. = *Riccardia palmata*
Aneura palmata = *laxa* Nees = *Riccardia palmata*
Aneura pinnatifida (F.Weber) Dumort. = *Riccardia chamedryfolia*
Aneura tahitensis Steph. = *Riccardia tahitensis*
Aneura tahitensis Steph. ex Besch. nom. inval. = *Riccardia tahitensis*
Anthoceros communis Steph. = *Phaeoceros carolinianus*
Anthoceros crassinervis Nees = *Dendroceros crassinervis*
Anthoceros forsteri (Hook.) Nadeaud = *Monoclea forsteri*
Anthoceros grandis Ångstr. = *Megaceros flagellaris*
Anthoceros laevis L. = *Phaeoceros laevis*
Anthoceros vesconianus Gottsche ex Besch. = *Megaceros flagellaris*
Archilejeunea caramuensis var. *denticulata* Schiffn. = *Spruceanthus planiusculus*
Archilejeunea mariana (Gottsche) Steph. = *Cheilolejeunea mariana*
Archilejeunea olivacea (Hook.f. & Taylor) Steph. = *Spruceanthus olivaceus*
Archilejeunea planiuscula (Mitt.) Steph. = *Spruceanthus planiusculus*
Archilejeunea polymorpha (Sande Lac.) B.M.Thiers & Gradst. = *Spruceanthus polymorphus*
Archilejeunea tahitensis Steph. = *Thysananthus virens*
Bazzania australis (Mont.) Trevis. = *Bazzania tridens*
Bazzania cordistipula (Mont.) Trevis. = *Bazzania praerupta*
Bazzania novae-hollandiae (Lindenb. & Gottsche ex Nees) Carrington & Pearson nom. illeg. = *Bazzania adnexa*
Blytia levieri Steph. nom. inval. = *Pallavicinia levieri*
Brachiolejeunea apiculata Steph. = *Spruceanthus polymorphus*
Brachiolejeunea frauenfeldii (Reichardt) Steph. = *Thysananthus frauenfeldii*
Brachiolejeunea gibbosa (Ångstr.) Steph. = *Lopholejeunea nigricans*
Brachiolejeunea oceanica (Mitt.) Steph. = *Ceratolejeunea belangeriana*
Brachiolejeunea sandwicensis (Gottsche) A.Evans = *Acrolejeunea sandwicensis*

Bryopteris fruticulosa subsp. *monoica* Stotler = *Bryopteris filicina*
Bryopteris fruticulosa Taylor = *Bryopteris filicina*
Calycularia radiculosa Steph. ex Schiffn. nom. illeg. = *Sand-eothallus radiculosus*
Cephalozia connivens subsp. *sandwicensis* (Mont.) Váňa = *Fuscocephaloziopsis connivens* subsp. *sandwicensis*
Cephalozia sandwicensis (Mont.) Spruce = *Fuscocephaloziopsis connivens* subsp. *sandwicensis*
Ceratolejeunea auriculata Schiffn. = *Lepidolejeunea bidentula*
Ceratolejeunea maritima (Spruce) Steph. = *Ceratolejeunea cornuta*
Ceratolejeunea oceanica (Mitt.) Steph. = *Ceratolejeunea belangeriana*
Ceratolejeunea oceanica (Steph.) Horik. nom. illeg. = *Ceratolejeunea belangeriana*
Ceratolejeunea renistipula Steph. = *Ceratolejeunea belangeriana*
Ceratolejeunea tahitensis Steph. = *Ceratolejeunea cornuta*
Chandonanthus fimbriatus Mitt. nom. inval. = *Plicanthus hirtellus*
Chandonanthus hirtellus (F.Weber) Mitt. = *Plicanthus hirtellus*
Cheilolejeunea parkinsonii (Steph.) Mizut. = *Cheilolejeunea cookiensis*
Chiloscyphus argutus (Reinw., Blume & Nees) Nees = *Heteroscyphus argutus*
Chiloscyphus argutus f. *paucidens* Steph. ex Besch. nom. inval. = *Heteroscyphus argutus*
Chiloscyphus contortuplicatus (Nees & Mont.) Steph. = *Heteroscyphus contortuplicatus*
Chiloscyphus decurrens Nees = *Heteroscyphus splendens*
Chiloscyphus nadeaudii Steph. = *Heteroscyphus nadeaudii*
Chiloscyphus succulentus Gottsche = *Heteroscyphus succulentus*
Cololejeunea minutissima (Sm.) Steph. = *Myriocoleopsis minutissima*
Colurolejeunea apiculata Schiffn. = *Colura apiculata*
Colurolejeunea superba (Mont.) Steph. = *Colura superba*
Colurolejeunea superba var. *dentata* Schiffn. nom. inval. = *Colura superba*
Crossogyna flexicaulis (Nees) Schljakov = *Cuspidatula flexicaulis*
Crossogyna robusta (Austin) Schljakov = *Cuspidatula robusta*
Cyathodium cavernarum Nadeaud nom. inval. = *Cyathodium foetidissimum*
Dendroceros fenestratus Ångstr. = *Dendroceros javanicus*
Drepanolejeunea filicuspis Steph. = *Microlejeunea filicuspis*
Drepanolejeunea vesiculosa subsp. *euvesiculosa* Herzog nom. inval. = *Drepanolejeunea vesiculosa* subsp. *vesiculosa*
Dumortiera trichocephala (Hook.) Nees = *Dumortiera hirsuta* subsp. *nepalensis*
Eulejeunea corallina Steph. = *Cheilolejeunea intertexta*
Eulejeunea cucullata (Reinw., Blume & Nees) Schiffn. = *Metalejeunea cucullata*
Euosmolejeunea sayeri Steph. = *Cheilolejeunea trifaria*
Euosmolejeunea uvifera (Mont.) Steph. = *Lejeunea flava*
Frullania aeolotis Mont. & Nees = *Frullania ericoides*
Frullania bescherellei Steph. = *Frullania pusilla*
Frullania bescherellei var. *explanata* Pearson = *Frullania nadeaudii*
Frullania curvirostris var. *setchellii* Verd. = *Frullania jacquinotii*
Frullania deloti (Mont. & Nees) Mont. & Nees nom. inval. = *Frullania ericoides*
Frullania explicata Mont. = *Frullania apiculata* var. *apiculata*

- Frullania floribunda* Steph. = *Frullania reflexistipula*
Frullania floribundaria (Steph.) Steph. ex Besch. *nom. inval.* =
Frullania reflexistipula
Frullania galeata (Reinw., Blume & Nees) Dumort. = *Frullania rio-janeirensis*
Frullania hampeana Nees = *Frullania monocera*
Frullania latistipula Steph. = *Frullania serrata*
Frullania mertensiana Lindenb. & Gottsche = *Frullania apiculata*
Frullania oceanica Mitt. = *Frullania apiculata* var. *goebelii*
Frullania pacificae Taylor = *Frullania apiculata* var. *apiculata*
Frullania pancheriana Steph. ex Besch. *nom. inval.* = *Frullania calcarata*
Frullania panchetiana Steph. ex Bonner *nom. inval.* = *Frullania calcarata*
Frullania reflexistipula var. *novocaledonica* S.Hatt. = *Frullania reflexistipula*
Frullania setulosa Ångstr. = *Frullania reflexistipula*
Frullania squarrosa (Mont.) Nees = *Frullania ericoides*
Frullania squarrosa f. *ericoides* (Nees) Verd. = *Frullania ericoides*
Frullania tahitensis Steph. = *Frullania serrata*
Frullania uncifolia Gottsche ex Steph. = *Frullania apiculata* var. *apiculata*
Geocalyx contortuplicatus (Nees & Mont.) Mont. & Nees = *Heteroscyphus contortuplicatus*
Gottschea aligera (Nees & Blume) Nees = *Schistochila aligera*
Gottschea berteriana (Hook.) Nees = *Schistochila berteriana*
Gottschea blumei (Nees) Nees = *Schistochila blumei*
Gottschea philippinensis Mont. = *Schistochila aligera*
Gottschea tahitensis Nadeaud = *Treubia tahitensis*
Harpalejeunea filicuspis (Steph.) Mizut. = *Microlejeunea filicuspis*
Heteroscyphus decurrens (Nees) Schiffn. = *Heteroscyphus splendens*
Hymenophyton phyllanthus (Hook.) Steph. = *Podomitrium phyllanthus*
Jamesoniella contracta (Reinw., Blume & Nees) N.Kitag. = *Cuspidatula contracta*
Jamesoniella flexicaulis (Nees) Schiffn. = *Cuspidatula flexicaulis*
Jamesoniella macrophylla (Ångstr.) Steph. = *Cuspidatula robusta*
Jamesoniella robusta (Austin) Spruce ex Steph. = *Cuspidatula robusta*
Jungermannia flexicaulis Nees = *Cuspidatula flexicaulis*
Jungermannia haskarlana (Nees) Mitt. = *Solenostoma haskarlana*
Jungermannia hirtella F.Weber = *Plicanthus hirtellus*
Jungermannia micrantha (Mitt.) Steph. = *Solenostoma micranthum*
Jungermannia monodon = *novae-hollandiae* (Gottsche) Lehm. = *Cuspidatula monodon*
Jungermannia multifida L. = *Riccardia multifida*
Jungermannia piligera Nees = *Anastrophyllum piligerum*
Jungermannia polyrhiza Hook. = *Solenostoma truncatum*
Jungermannia taylorii Hook. = *Mylia taylorii*
Jungermannia truncata Nees = *Solenostoma truncatum*
Lejeunea apiculata Besch. = *Spruceanthus polymorphus*
Lejeunea anguiformis (Hook.f. & Taylor) Hook.f. & Taylor = *Thysananthus anguiformis*
Lejeunea aulacophora (Mont.) Prantl = *Acrolejeunea aulacophora*
Lejeunea auriculata (Wilson & Hook.) Sull. = *Thysananthus auriculatus*
Lejeunea brasiliensis var. *vescoii* Castle *nom. inval.* = *Radula retroflexa*
Lejeunea chalmersii (Steph.) Mizut. = *Lejeunea microloba*
Lejeunea coalita Ångstr. = *Ceratolejeunea coalita*
Lejeunea cucullata (Reinw., Blume & Nees) Nees = *Metalejeunea cucullata*
Lejeunea cucullata = *exilis* (Reinw., Blume & Nees) Nees = *Lejeunea exilis*
Lejeunea cumingiana (Mont.) Mitt. = *Schiffneriolejeunea cumingiana*
Lejeunea elliptica (Lehm. & Lindenb.) Mont. = *Leptolejeunea elliptica*
Lejeunea elliptica = *maior* Gottsche, Lindenb. & Nees = *Leptolejeunea elliptica*
Lejeunea eulopha Taylor = *Lopholejeunea eulopha*
Lejeunea filicina (Sw.) Nees & Mont. = *Bryopteris filicina*
Lejeunea frauenfeldii (Reichardt) Prantl = *Thysananthus frauenfeldii*
Lejeunea gibbosa Ångstr. = *Lopholejeunea nigricans*
Lejeunea gracilipes (Taylor) Spruce = *Lejeunea discreta* var. *gracilipes*
Lejeunea granulata (Nees) Nees & Mont. *nom. inval.* = *Symbiezidium transversale* var. *transversale*
Lejeunea haskarlana (Gottsche) Spruce *nom. illeg.* = *Schiffneriolejeunea tumida* var. *haskarlana*
Lejeunea haskarlana Gottsche *nom. illeg.* = *Cololejeunea haskarlana*
Lejeunea inchoata (C.F.W.Meissn.) Nees = *Drepanolejeunea inchoata*
Lejeunea ligulata (Lehm. & Lindenb.) Mitt. = *Thysananthus ligulatus*
Lejeunea marquesiana Steph. ex Besch. *nom. inval.* = *Schiffneriolejeunea tumida*
Lejeunea oceanica Mitt. = *Ceratolejeunea belangeriana*
Lejeunea olivacea (Hook.f. & Taylor) Taylor ex Gottsche, Lindenb. & Nees = *Spruceanthus olivaceus*
Lejeunea opaca Gottsche = *Cheilolejeunea clausa*
Lejeunea ophioccephala (Taylor) Mitt. = *Thysananthus anguiformis*
Lejeunea pallida (Ångstr.) Steph. *nom. illeg.* = *Acrolejeunea securifolia* subsp. *pallida*
Lejeunea paritiicola Reichardt = *Cheilolejeunea trifaria*
Lejeunea pentadactyla Mont. = *Drepanolejeunea pentadactyla*
Lejeunea polyplaca Taylor = *Cheilolejeunea trifaria*
Lejeunea renistipula (Steph.) Steph. ex Besch. *nom. illeg.* = *Ceratolejeunea belangeriana*
Lejeunea sandvicensis (Gottsche) A.Evans *nom. illeg.* = *Acrolejeunea sandvicensis*
Lejeunea sayeri (Steph.) Steph. ex Besch. = *Cheilolejeunea trifaria*
Lejeunea subfusca (Nees) Nees & Mont. = *Lopholejeunea subfusca*
Lejeunea superba Mont. = *Colura superba*
Lejeunea superba var. *dentata* Schiffn. *nom. illeg.* = *Colura superba*
Lejeunea tabitica Steph. ex Besch. *nom. inval.* = *Thysananthus humilis*
Lejeunea taitica (Gottsche) Prantl = *Thysananthus humilis*
Lejeunea teretiuscula Lindenb. = *Cheilolejeunea trifaria*
Lejeunea trapezia (Nees) Nees = *Cheilolejeunea trapezia*

- Lejeunea trifaria* Gottsche, Lindenb. & Nees = *Cheilolejeunea trifaria*
Lejeunea uvifera Mont. = *Lejeunea flava*
Lejeunea virens (Ångstr.) Steph. = *Thysananthus virens*
Lejeunea vitrea (Nees) Nees, Lindenb. & Gottsche = *Leptolejeunea vitrea*
Lejeunea vitrea = *obtusa* Ångstr. nom. inval. = *Leptolejeunea vitrea*
Lepicolea loriana Steph. = *Lepicolea rara*
Lepidozia wallichiana Gottsche = *Neolepidozia wallichiana*
Leptocolea cardiocarpa (Mont.) A.Evans = *Cololejeunea cardiocarpa*
Leptolejeunea elliptica subsp. *subacuta* (Steph. ex A.Evans) R.M.Schust. = *Leptolejeunea subacuta*
Leptolejeunea radiata (Mitt.) Steph. = *Leptolejeunea maculata*
Lopholejeunea novae-guineae Steph. = *Lopholejeunea eulopha*
Lopholejeunea sagrana (Mont.) Steph. = *Lopholejeunea subfusca*
Lopholejeunea sagrana var. *subfusca* (Nees) Schiffn. = *Lopholejeunea subfusca*
Lopholejeunea subnuda (Mitt.) Steph. = *Lopholejeunea nigricans*
Lopholejeunea vescoana Steph. = *Lopholejeunea eulopha*
Madotheca crispata (Hook.) Lehm. = *Porella crispata*
Madotheca stangeri Lindenb. & Gottsche = *Porella elegantula*
Madotheca subsquarrosa (Nees & Mont.) Nees & Mont. = *Porella subsquarrosa*
Madotheca tahitensis Steph. = *Porella viridissima*
Marchantia amboinensis Nees & Mont. = *Marchantia emarginata* subsp. *emarginata*
Marchantia breviloba Steph. ex Besch. nom. inval. = *Marchantia hexaptera*
Marchantia nitida Lehm. & Lindenb. = *Marchantia paleacea* subsp. *paleacea*
Marchantia tahitensis Nadeaud = *Marchantia hexaptera*
Marchantia tholophora Bisch. = *Marchantia paleacea* subsp. *paleacea*
Marchesinia aulacophora (Mont.) Kuntze = *Acrolejeunea aulacophora*
Marsupidium knightii Mitt. = *Acrobolbus knightii*
Marsupidium tahitense Steph. = *Acrobolbus knightii*
Mastigobryum australe (Mont.) Lindenb. = *Bazzania tridens*
Mastigobryum cordistipulum (Mont.) Lindenb. = *Bazzania praerupta*
Mastigobryum monilinerve (Lehm. & Lindenb.) Nees = *Bazzania monilinerve*
Mastigobryum novae-hollandiae Lindenb. & Gottsche ex Nees nom. illeg. = *Bazzania adnexa*
Mastigobryum obtusum Steph. = *Bazzania obtusum*
Mastigobryum patentistipum Sande Lac. = *Bazzania patentistipum*
Mastigobryum squarrosulum Steph. = *Bazzania squarrosa*
Mastigobryum temarianum Steph. = *Bazzania temarianum*
Mastigobryum vittata Gottsche = *Bazzania vittata*
Mastigolejeunea auriculata (Wilson & Hook.) Steph. = *Thysananthus auriculatus*
Mastigolejeunea frauenfeldii (Reichardt) Verd. = *Thysananthus frauenfeldii*
Mastigolejeunea humilis (Gottsche) Schiffn. = *Thysananthus humilis*
Mastigolejeunea ligulata (Lehm. & Lindenb.) Schiffn. = *Thysananthus ligulatus*
Mastigolejeunea novo-hibernica (Schiffn.) Steph. = *Thysananthus ligulatus*
Mastigolejeunea repleta (Taylor) A.Evans = *Thysananthus repletus*
Mastigolejeunea taitica (Gottsche) J.B.Jack & Steph. = *Thysananthus virens*
Mastigolejeunea virens (Ångstr.) Steph. = *Thysananthus virens*
Megaceros grandis (Ångstr.) Steph. = *Megaceros flagellaris*
Megaceros vesconianus (Gottsche ex Besch.) Steph. = *Megaceros flagellaris*
Metzgeria conjugata subsp. *japonica* (S.Hatt.) Kuwah. = *Metzgeria lindbergii*
Metzgeria decipiens (C.Massal.) Schiffn. = *Metzgeria ciliata*
Metzgeria densiseta Steph. = *Metzgeria furcata*
Metzgeria papulosa Steph. = *Metzgeria leptoneura*
Metzgeria parvipapulosa Kuwah. = *Metzgeria leptoneura*
Metzgeria pectinata Steph. = *Metzgeria lindbergii*
Metzgeria poeppigiana (Lehm. & Lindenb.) Lindenb. = *Riccardia poeppigiana*
Metzgeria tahitensis Steph. nom. inval. = *Metzgeria lindbergii*
Metzgeria tahitiana Steph. ex Besch. nom. inval. = *Metzgeria lindbergii*
Microlejeunea albicans (Nees) Steph. = *Metalejeunea cucullata*
Microlejeunea cucullata (Reinw., Blume & Nees) J.B.Jack & Steph. = *Metalejeunea cucullata*
Microlejeunea exilis (Reinw., Blume & Nees) Bischl., H.A.Mill. & Bonner = *Lejeunea exilis*
Notoscyphus paroicus Schiffn. = *Notoscyphus lutescens*
Omphalanthus gracilipes Taylor = *Lejeunea discreta* var. *gracilipes*
Pallavicinia simplex Steph. = *Pallavicinia lyellii*
Paraschistochila cuspidiloba (Steph.) R.M.Schust. nom. illeg. = *Schistochila aligera*
Pellia carnosa Hook.f. & Taylor = *Lobatiriccardia alterniloba*
Phaeoceros laevis subsp. *carolinianus* (Michx.) Prosk. = *Phaeoceros carolinianus*
Phragmicoma aulacophora Mont. = *Acrolejeunea aulacophora*
Phragmicoma eulopha (Taylor) Mitt. = *Lopholejeunea eulopha*
Phragmicoma gibbosa Ångstr. = *Thysananthus frauenfeldii*
Phragmicoma haskarliana Gottsche = *Schiffneriolejeunea tumida* var. *haskarliana*
Phragmicoma ligulata (Lehm. & Lindenb.) Gottsche, Lindenb. & Nees = *Thysananthus ligulatus*
Phragmicoma ligulata (Lehm. & Lindenb.) Mitt. nom. illeg. = *Thysananthus ligulatus*
Phragmicoma olivacea (Hook.f. & Taylor) Mitt. = *Spruceanthus olivaceus*
Phragmicoma pallida Ångstr. = *Acrolejeunea securifolia* subsp. *pallida*
Phragmicoma polyantha J.B.Jack ex Verd. nom. inval. = *Thysananthus humilis*
Phragmicoma securifolia (Nees) Nees = *Acrolejeunea securifolia*
Phragmicoma taitica Gottsche = *Thysananthus virens*
Phragmicoma versicolor Lehm. & Lindenb. nom. illeg. = *Thysananthus auriculatus*
Plagiochasma australe Nees = *Plagiochasma rupestre*
Plagiochasma coerulescens Nadeaud = *Plagiochasma rupestre*
Plagiochasma subgymnandrum Hürl. = *Plagiochasma rupestre*
Plagiochasma validum Bisch. = *Plagiochasma rupestre* var. *rupestre*

- Plagiochila acanthophylla* Gottsche = *Plagiochila sciophila*
Plagiochila badia Steph. *nom. illeg.* = *Plagiochila alta*
Plagiochila belangeriana Lindenb. = *Plagiochila arbuscula*
Plagiochila caespitosa Steph. *nom. illeg.* = *Plagiochila deflexa*
Plagiochila castanea (Steph.) Inoue = *Plagiochila alta*
Plagiochila cespitans Steph. ex Besch. *nom. inval.* = *Plagiochila teysmannii*
Plagiochila dendroides (Nees) Lindenb. = *Chiastocaulon dendroides*
Plagiochila junghuhniana Gottsche ex Besch. *nom. inval.* = *Plagiochila junghuhniana*
Plagiochila longa Dugas = *Plagiochila arbuscula*
Plagiochila nadeaudiana Steph. ex Besch. *nom. inval.* = *Plagiochila vitiensis*
Plagiochila orientalis Taylor = *Plagiochila sciophila*
Plagiochila tahitensis Ångstr. = *Plagiochila vitiensis*
Plagiochila taitica Gottsche ex Dugas *nom. inval.* = *Plagiochila alta*
Plagiochila tenuitexta Steph. = *Plagiochila propinqua*
Plagiochila vescoana Steph. = *Plagiochila junghuhniana*
Plagiochilon oppositum (Reinw., Blume & Nees) S.Hatt. = *Chiastocaulon oppositum*
Plectocolea micrantha Mitt. = *Solenostoma micranthum*
Porella stangeri (Lindenb. & Gottsche) Trevis. = *Porella elegantula*
Porella viridissima var. *novoguineensis* (S.Hatt.) S.Hatt. = *Porella viridissima*
Ptychanthus pycnocladus Taylor = *Acrolejeunea pycnoclada*
Ptychanthus striatus var. *retusus* (Reinw., Blume & Nees) Verd. = *Thysananthus retusus*
Ptychocoleus aulacophorus (Mont.) Trevis. = *Acrolejeunea aulacophora*
Ptychocoleus cumingianus (Mont.) Trevis. = *Schiffneriolejeunea cumingiana*
Ptychocoleus fertilis (Reinw., Blume & Nees) Trevis. = *Acrolejeunea fertilis*
Ptychocoleus haskarlianus (Gottsche) Steph. = *Schiffneriolejeunea tumida* var. *haskarliana*
Ptychocoleus marquesanus (Steph.) Steph. = *Schiffneriolejeunea tumida*
Ptychocoleus pallidus (Ångstr.) Trevis. = *Acrolejeunea securifolia* subsp. *pallida*
Ptychocoleus pycnocladus (Taylor) Steph. = *Acrolejeunea pycnoclada*
Pycnolejeunea trapezia var. = *minor* (Gottsche, Lindenb. & Nees) Schiffn. = *Cheilelejeunea trapezia*
Radula apiculata Sande Lac. ex Steph. = *Radula anceps*
Radula cordiloba Taylor = *Radula javanica*
Radula fauciloba Steph. = *Radula retroflexa*
Radula miqueliana Taylor = *Radula retroflexa*
Radula miqueliana var. *tahitica* Gottsche ex Besch. *nom. inval.* = *Radula protensa*
Radula mucronata Steph. = *Radula acuta*
Radula multiflora var. *reflexilobula* Grolle & K.Yamada = *Radula decurrens*
Radula retroflexa var. *fauciloba* (Steph.) K.Yamada = *Radula retroflexa*
Radula subpallens Steph. = *Radula ventricosa*
Radula subpallens Steph. ex Besch. *nom. inval.* = *Radula javanica*
Radula subsimilis Steph. = *Radula reflexa*
Radula taitica Gottsche ex Castle *nom. inval.* = *Radula retroflexa*
Radula unduliflora Castle = *Radula multiflora*
Radula unduliflora Gottsche ex Besch. *nom. inval.* = *Radula javanica*
Radula vescoana Spruce ex Castle *nom. inval.* = *Radula multiflora*
Reboulia javanica Nees = *Reboulia hemisphaerica* subsp. *australis*
Riccardia nadeaudiana (Steph.) Hürl. = *Riccardia graeffei*
Riccardia samoana (Steph.) H.A.Mill. = *Riccardia alba*
Riccia ochrospora Mont. & Nees ex Lindenb. = *Riccia crystallina*
Saccogyna granulata (Schiffn.) Schiffn. = *Saccogynidium rigidulum*
Saccogyna muricella (De Not.) Mitt. = *Saccogynidium muricellum*
Saccogyna rigidula (Nees) Schiffn. = *Saccogynidium rigidulum*
Schiffneriolejeunea haskarliana (Gottsche) Gradst. = *Schiffneriolejeunea tumida* var. *haskarliana*
Schisma longifissum (Steph.) Steph. = *Herbertus longifissus*
Schistochila cuspidiloba Steph. = *Schistochila aligera*
Schistochila dentiloba Steph. = *Schistochila nadeaudiana*
Schistochila philippinensis (Mont.) Steph. = *Schistochila aligera*
Schistochilaster aliger (Nees & Blume) H.A.Mill. = *Schistochila aligera*
Schistochilaster cuspidilobus (Steph.) H.A.Mill. = *Schistochila aligera*
Schistochilaster philippinensis (Mont.) H.A.Mill. = *Schistochila aligera*
Schizophyllum lancilobum (Steph.) Vána & L.Söderstr. = *Schizophyllopsis lanciloba*
Sendtnera diclados (Brid. ex F.Weber) Endl. ex Gottsche, Lindenb. & Nees = *Mastigophora diclados*
Sendtnera diclados = *scorpioides* (Reinw., Blume & Nees) Nees = *Mastigophora diclados*
Sendtnera fissa (Nees) Nees = *Mastigophora diclados*
Sendtnera gracilis (Mont.) Mont. & Nees = *Herbertus gracilis*
Sendtnera ochroleuca (Spreng.) Nees = *Lepicolea ochroleuca*
Spruceanthus marianus (Gottsche) Mizut. = *Cheilelejeunea mariana*
Steetzia cladorrhizans (Hook.f. & Taylor) Lehm. = *Podomitrium phyllanthus*
Steetzia lyellii (Hook.) Lehm. = *Pallavicinia lyellii*
Symphyogyna exincrassata Steph. = *Symphyogynopsis gottscheana*
Symphyogyna exincrassata Steph. ex Besch. *nom. inval.* = *Symphyogynopsis gottscheana*
Symphyogyna filicum (Nadeud) Grolle = *Symphyogynopsis gottscheana*
Symphyogyna vitiensis J.B.Jack & Steph. = *Symphyogynopsis gottscheana*
Telaranea cuneifolia (Steph.) J.J.Engel & G.L.Merr. = *Neolepidozia cuneifolia*
Thysananthus polymorphus (Sande Lac.) Schiffn. = *Spruceanthus polymorphus*
Trachylejeunea erosula Steph. = *Lejeunea microloba*
Trocholejeunea infuscata (Mitt.) Verd. = *Acrolejeunea infuscata*
Trocholejeunea sandvicensis (Gottsche) Mizut. = *Acrolejeunea sandvicensis*

Tylimanthus knightii (Mitt.) Hässel & Solari = *Acrobolbus knightii*

Tylimanthus tahitensis Steph. ex Besch. *nom. inval.* = *Acrobolbus knightii*

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