

Checklist of the bryophytes of Tamil Nadu, India

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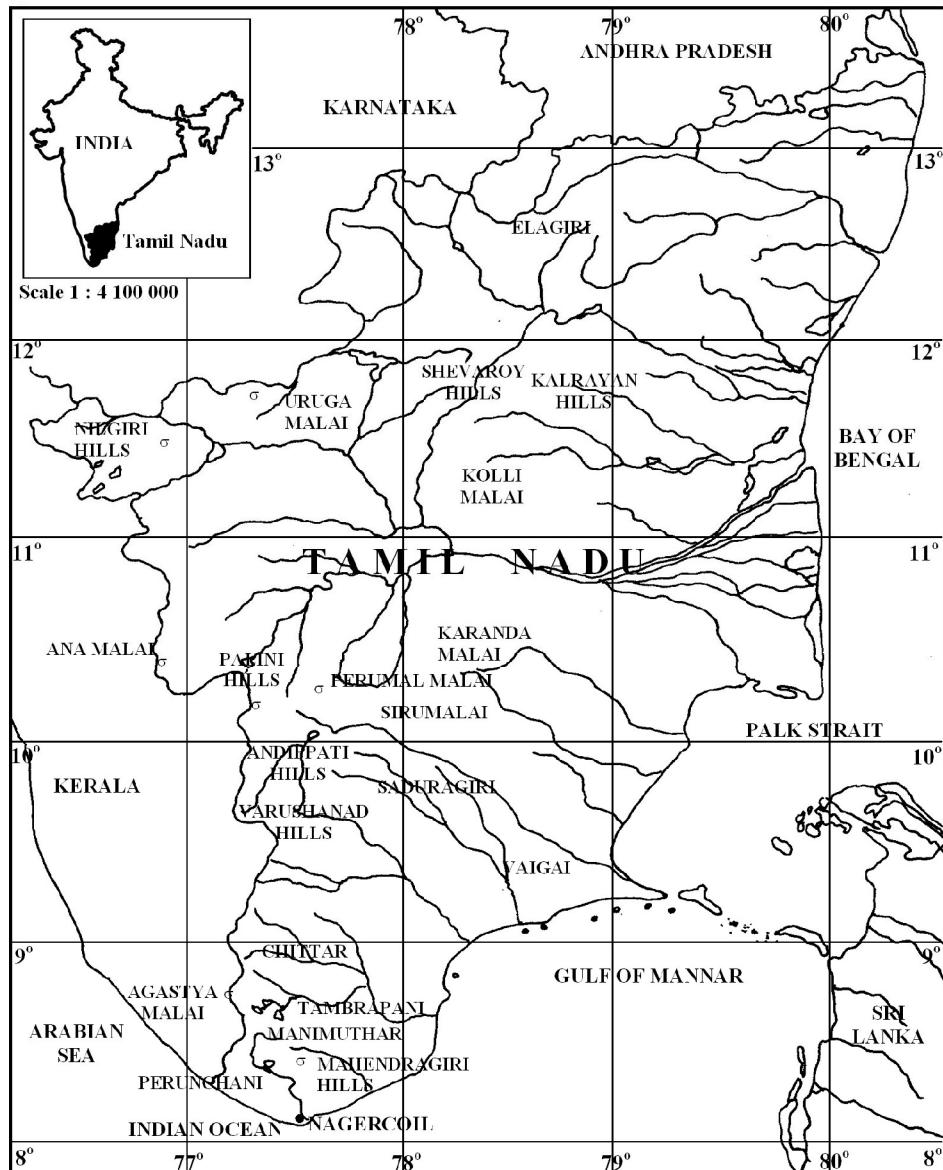
Abstract: The checklist reports 712 taxa of bryophytes from Tamil Nadu, India, comprising 211 taxa in 56 genera and 32 families of liverworts, 8 taxa in 4 genera and 2 families of hornworts, and 493 taxa in 189 genera and 44 families of mosses. Literature sources for Tamil Nadu records are included for each taxon, and an extensive synonymy is provided. For currently accepted taxa, the details of types from Tamil Nadu are indicated. A map of Tamil Nadu, a synopsis of families and genera, and a bibliography are provided.

INTRODUCTION

India is one of the 12 megabiodiversity countries in the world (Nayar, 1996). The large area and the variety of phytoclimatic conditions met within its different biogeographical zones contribute to the great diversity of the Indian flora (Singh, 1997; 2001). These biogeographical zones, with diverse topographical variations and climatic conditions, have been divided into seven bryogeographical regions. They are (1) Western Himalayas, (2) Eastern Himalayas, (3) Punjab and West Rajasthan, (4) Gangetic Plains, (5) Central India, (6) Western and Eastern Ghats and (7) Deccan Plateau (Pandé 1958). Recently, Andaman and Nicobar Islands in the Bay of Bengal have been proposed as the eighth region to be included (Singh & Semwal, 1995). Currently, about 2480 taxa of bryophytes (including infraspecific taxa) are reported from India (including island groups, and Sikkim), comprising about 722 taxa of liverworts in 128 genera and 52 families, 36 taxa in 6 genera and 2 families of hornworts (M.J.Wigginton database) and about 1623 taxa in 342 genera and 57 families of mosses (Lal, 2005).

Tamil Nadu, formerly known as the Madras State, is situated in the eastern part of the southern tip of peninsular India and comprises part of the Deccan Plateau, the Western Ghats (includes Nilgiris, Anamalais, Palnis and Agasthyamalai) and the Eastern Ghats (includes Shervaroy) bryogeographical regions. It lies between 8° 5' and 13° 34' N, and 76° 14' and 80° 21' E. It is bounded on the west by the Kerala State, on the northwest by the Karnataka State, on the north by the Andhra Pradesh State, on the east by the Bay of Bengal, on the south by the Indian Ocean and on the southwest by the Arabian Sea. Sri Lanka is very near Tamil Nadu on the southeast separated by the Gulf of Mannar. The total area of Tamil Nadu is 130,058 km² and occupies 3.96% of the total geographical area of India. It has a coastline of about 920 km and a land boundary of 1200 km. The climate in general is warm except on mountains and hence the temperature ranges from 40° C in the plains during summer to -2° C in winter on elevated

mountains including the Nilgiris and the Palnis, where many peaks exceed 2000 m elevation and the highest, Dodabetta Peak, rises to 2637 m. Similarly, the rainfall ranges from 640 mm along the eastern region to 3000 mm along the western and southwestern regions of the state as these two regions receive both the north-east and south-west monsoon rains (Annamalai, 2004).



Tamil Nadu has a forest cover of 21,482 km² (Annamalai, 2004). This is mostly confined to the Western and the Eastern Ghats. As the terrain varies from sea level to over 2600 m., the vegetation types also vary accordingly, from scrub jungles in the foothills, to hill-top wet evergreen forests above 2000 m. The forest types seen along the Western Ghats of the state include scrub jungles, dry deciduous forests, moist deciduous forests, semi-evergreen forests, moist evergreen forests and hill-top wet evergreen forests with grassy swards. However, grassy swards are often met with in dry deciduous forests. The forests of the Eastern Ghats are mostly scrub to dry deciduous. Along

the East Coast there is a large tract of mangrove forests. Unfortunately, the forests in Tamil Nadu are now fragmented, particularly those along the hill tracts due to the introduction of various plantation crops such as coffee, tea and pine by the British as early as the beginning of the 19th century. Plantations of *Eucalyptus*, *Acacia*, teak, rubber, *Albizia* and clove were also introduced by the State Forest Department till the late 20th century. On the other hand, private estates have contributed considerably to the destruction of the rich forests of the Western Ghats. Added to these, holiday resorts, educational institutions, factories/industries, etc. have largely contributed to the annihilation of these forests in a number of areas making them fragmentary. Thus, the forests in Tamil Nadu have suffered destruction for over a century. This has led to a great loss of biodiversity, particularly the lower groups of organisms, due to loss of habitats and an increasing environmental pollution, and bryophytes are no exception. Consequently, the majority of bryophytes have become threatened in Tamil Nadu (personal observation).

As no Conservation Assessment Management Plan (CAMP) has been done for any group of bryophytes in India, the exact status of these plants is still not known. Hence, a bryophyte checklist for Tamil Nadu can act as baseline information for the conservation of this group, for bryologists and others interested in bryophytes.

History of bryophyte recording in Tamil Nadu

The present knowledge on the bryophytes of Tamil Nadu began with studies by European bryologists during the 19th century. Montagne (1842a) reported 66 species of mosses from the Nilgiri Hills (Tamil Nadu) in *Cryptogamae Nilgherienses*, and Müller (1853) reported 56 species of mosses from the Nilgiris in *Musci Neilgherrensis*. Mitten (1859) reported over 700 species in his *Musci Indiae Orientalis*, of which 145 were from Tamil Nadu, and Dixon (1914) reported 35 species from the state. From the Western Ghats of Madurai (Tamil Nadu), Potier de la Varde (1922–1924) reported 48 species in his *Musci Madurensis*, 49 species in *Nouvelles herborisations dans le sud de l'Inde* (1925) and 7 species in *Musci novi Indici* (1928). Dixon and Potier de la Varde reported 80 species from India in their *Contribution à la flore bryologique de l'Inde meridionale* (1927), and 56 species from Tamil Nadu in *Nouvelle contribution à la flore bryologique de l'Inde* (1930). Foreau (1961, 1964) listed 368 species of mosses from the Palni hills (W. Ghats of Madurai) which included 95 new species and 15 new varieties. Gangulee's invaluable *Mosses of eastern India and adjacent regions* (1969–1980) provides some information on the habitats and distribution of south Indian mosses and occasionally mentions occurrences in Tamil Nadu, though site names and collections data are usually lacking. Wadhwa (1969, 1971) provided a partial species checklist with references to moss records from peninsula India, including the Western Ghats and Nilgiris. More recent works include Matthew (1973) and Mohamed (1981, 1982, 1984) on *Rhodobryum commersonii* (Schwägr.) Paris and *R. aubertii* (Schwägr.) Thér. in South India, on *Bryum wightii* Mitt. and related species, and a synopsis of the genus *Rhodobryum* in Asia respectively. Ochi (1985) published an annotated list of mosses of the subfamily Bryoideae in South, Southeast and East Asia, Ellis (1989) made a revision on the genus *Calymperes* in southern India and neighbouring islands. Lal (2005) published a checklist of Indian mosses but did not specifically mention reports from Tamil Nadu, but rather collectively as 'South India': these records are not cited in this checklist.

Similarly, the present knowledge of the liverworts and hornworts of Tamil Nadu began with Montagne (1842b), who reported 34 species of liverworts from the Nilgiri Hills (Tamil Nadu) in *Cryptogamae Nilgherienses*. Subsequently, Mitten (1861) reported 26 species from Tamil Nadu in *Hepaticae Indiae Orientalis*. The works of Stephani (1900–1924), Benedix (1953), Chopra (1938), Udar (1976), Udar and Srivastava (1975, 1977), Asthana and Srivastava (1991), Asthana *et al.* (1995), Nath and Asthana (1998), Parihar *et al.* (1994), Singh (1994, 2002) and Srivastava and Srivastava (2002), and many others, contain records of collections from India, among which are records from Tamil Nadu.

The most recent studies of the bryophytes of Tamil Nadu are published in Daniels (1998, 2001, 2004), Daniels & Daniel (2002–2008), Daniels and Kariyappa (2007), Kumar and Maniselvan (1994), Maniselvan and Kumar (1998, 2000a, b) and Srivastava and Verma (2005).

Despite the relatively long history of bryological recording in Tamil Nadu, collecting has been sparse and sporadic, and much of the state remains bryologically unexplored or underexplored. Further study is expected to yield many additions to the checklist.

The checklist is not a taxonomic document, and no new taxonomy or nomenclature is published here: it is merely a compilation of published records (plus those in Daniels (2003), an unpublished thesis), and no claim is made as to the correctness of all identifications. However, the occurrence of some species in Tamil Nadu is considered uncertain or erroneous on taxonomic or geographical grounds, and they are separately listed. Some other species that remain in the main list might be of uncertain occurrence in Tamil Nadu, and require confirmation.

The bryophyte flora

Tamil Nadu supports approximately 29 % of the Indian liverwort flora, 22 % of the hornwort flora and 30 % of the moss flora. Indian endemic species are well represented in the state. Of the approximately 152 liverwort taxa endemic to India (including all island groups and Sikkim), 30 liverworts (19%) are known from Tamil Nadu, ten of which are apparently endemic to the state. Of the 19 Indian endemic hornworts, two (10 %) are currently known from Tamil Nadu. About 65 Indian endemic mosses are known from Tamil Nadu, about 48 of these apparently endemic to Tamil Nadu.

SYNOPSIS OF FAMILIES AND GENERA

Families are arranged alphabetically within each Division. The placement of genera in the families of the Marchantiophyta follows Crandall-Stotler, Stotler & Long (2008), for the Anthocerotophyta, Duff *et al.* (2007) and for the Bryophyta, Goffinet *et al.* (2004).

The checklist includes 712 taxa of bryophytes, comprising 211 taxa in 56 genera and 32 families of the Marchantiophyta (liverworts), 9 taxa in 4 genera and 2 families of the Anthocerotophyta (hornworts) and 493 taxa in 189 genera and 44 families of the Bryophyta (mosses). The number of accepted taxa in each genus reported from Tamil Nadu is given in brackets following the genus name, and excludes the taxa that are listed under 'doubtful and erroneous records'.

Division MARCHANTIOPHYTA (Liverworts)

Acrobolbaceae	<i>Mannia</i> (1)	
<i>Lethocolea</i> (1)	<i>Plagiochasma</i> (6)	Chonecoleaceae
	<i>Reboulia</i> (1)	<i>Chonecolea</i> (1)
Aneuraceae		Cleveaceae
<i>Aneura</i> (2)	Calypogeiaciae	<i>Athalamia</i> (1)
<i>Riccardia</i> (5)	<i>Calypogeia</i> (2)	
Arnelliaceae	Cephaloziaceae	Cyathodiaceae
<i>Gongylanthus</i> (1)	<i>Cephalozia</i> (1)	<i>Cyathodium</i> (2)
Aytoniaceae	Cephaloziellaceae	Dumortieriaceae
<i>Asterella</i> (3)	<i>Cephaloziella</i> (1)	<i>Dumortiera</i> (1)

Exormothecaceae	<i>Drepanolejeunea</i> (3)	
<i>Exormotheca</i> (2)	<i>Frullanoides</i> (1)	Metzgeriaceae
	<i>Lejeunea</i> (10)	<i>Metzgeria</i> (4)
Fossombroniaceae	<i>Leptolejeunea</i> (3)	
<i>Fossombronia</i> (4)	<i>Leucolejeunea</i> (1)	Pallaviciniaceae
	<i>Lopholejeunea</i> (1)	<i>Pallavicinia</i> (2)
Frullaniaceae	<i>Mastigolejeunea</i> (4)	
<i>Frullania</i> (19)	<i>Microlejeunea</i> (1)	Plagiochilaceae
	<i>Ptychanthus</i> (1)	<i>Plagiochila</i> (16)
Herbertaceae	<i>Schiffneriolejeunea</i> (2)	
<i>Herbertus</i> (1)	<i>Spruceanthus</i> (1)	Porellaceae
	<i>Taxilejeunea</i> (1)	<i>Porella</i> (10)
Jackiellaceae	<i>Trocholejeunea</i> (1)	
<i>Jackiella</i> (2)		Radulaceae
		<i>Radula</i> (10)
Jubulaceae		
<i>Jubula</i> (2)	Lepidoziaceae	Ricciaceae
	<i>Bazzania</i> (4)	<i>Riccia</i> (13)
	<i>Lepidozia</i> (2)	
Jungermanniaceae	<i>Telaranea</i> (1)	
<i>Gottschelia</i> (1)		Schistochilaceae
<i>Liochleana</i> (1)	Lophocoleaceae	<i>Schistochila</i> (1)
<i>Notoscyphus</i> (4)	<i>Chiloscyphus</i> (4)	
<i>Solenostoma</i> (3)	<i>Heteroscyphus</i> (4)	Targioniaceae
		<i>Targionia</i> (2)
Lejeuneaceae		
<i>Archilejeunea</i> (2)	Lunulariaceae	Trichocoleaceae
<i>Cheilolejeunea</i> (8)	<i>Lunularia</i> (1)	<i>Trichocolea</i> (1)
<i>Cololejeunea</i> (14)		
	Marchantiaceae	
	<i>Marchantia</i> (5)	

Division ANTHOCEROTOPHYTA (Hornworts)

Anthocerotaceae	Notothyladaceae
<i>Anthoceros</i> (4)	<i>Notothylas</i> (2)
<i>Folioceros</i> (1)	<i>Phaeoceros</i> (2)

Division BRYOPHYTA (Mosses)

Amblystegiaceae	Brachytheciaceae	Brachymenium (11)
<i>Platydictya</i> (1)	<i>Brachythecium</i> (4)	<i>Bryum</i> (16)
	<i>Bryhnia</i> (1)	<i>Mielichhoferia</i> (1)
Archidiaceae	<i>Homalothecium</i> (1)	<i>Plagiomnium</i> (1)
<i>Archidium</i> (3)	<i>Oxyrrhynchium</i> (4)	<i>Pohlia</i> (4)
	<i>Palamocladium</i> (1)	<i>Ptychostomum</i> (1)
Bartramiaceae	<i>Rhynchostegiella</i> (2)	<i>Rhodobryum</i> (4)
<i>Bartramia</i> (3)	<i>Rhynchostegium</i> (6)	
<i>Bartramidula</i> (2)	<i>Sciurohypnum</i> (1)	
<i>Breutelia</i> (2)		Calymperaceae
<i>Philonotis</i> (8)	Bryaceae	<i>Calymperes</i> (6)
	<i>Anomobryum</i> (4)	<i>Exostratum</i> (1)
		<i>Leucophanes</i> (2)

Syrrhopodon (3)	Fabroniaceae	<i>Neobarbella</i> (1)
Cryphaeaceae	<i>Anacamptodon</i> (1)	
<i>Pilotrichopsis</i> (1)	<i>Campylodontium</i> (2)	
<i>Schoenobryum</i> (1)	<i>Fabronia</i> (5)	Leskeaceae
Daltoniaceae	<i>Levierella</i> (1)	<i>Leskea</i> (1)
<i>Sympyodon</i> (4)	<i>Macgregorella</i> (1)	<i>Pseudoleskeopsis</i> (1)
Dicranaceae	<i>Schwetschkeopsis</i> (1)	<i>Regmatodon</i> (1)
<i>Brothera</i> (1)	Fissidentaceae	<i>Schwetschkea</i> (1)
<i>Campylopodium</i> (1)	<i>Fissidens</i> (41)	Leucodontaceae
<i>Campylopus</i> (18)	Funariaceae	<i>Forsstroemia</i> (1)
<i>Dicranella</i> (3)	<i>Entosthodon</i> (8)	Leucomiaceae
<i>Dicranodontium</i> (2)	<i>Funaria</i> (7)	<i>Leucomium</i> (1)
<i>Dicranoloma</i> (1)	<i>Physcomitrium</i> (2)	Meteoriaceae
<i>Dicranum</i> (2)	Grimmiaceae	<i>Aerobrytidium</i> (2)
<i>Holomitrium</i> (1)	<i>Dryptodon</i> (2)	<i>Aerobryopsis</i> (1)
<i>Leptotrichella</i> (2)	<i>Grimmia</i> (1)	<i>Barbella</i> (4)
<i>Leucobryum</i> (7)	<i>Racomitrium</i> (1)	<i>Barbellopsis</i> (1)
<i>Leucoloma</i> (6)	<i>Schistidium</i> (1)	<i>Chrysocladium</i> (1)
<i>Microcampylopus</i> (1)	Hedwigiaceae	<i>Cryptopapillaria</i> (2)
<i>Octoblepharum</i> (1)	<i>Braunia</i> (1)	<i>Floribundaria</i> (3)
<i>Oreoweisia</i> (1)	<i>Hedwigidium</i> (1)	<i>Meteoriopsis</i> (3)
<i>Sphaerothecium</i> (1)	Hookeriaceae	<i>Meteoriump</i> (3)
<i>Thysanomitrion</i> (1)	<i>Distichophyllum</i> (4)	<i>Neodicladiella</i> (1)
<i>Trematodon</i> (3)	<i>Hookeria</i> (1)	<i>Papillaria</i> (2)
<i>Wilsoniella</i> (1)	<i>Hypopterygium</i> (2)	<i>Toloxis</i> (1)
Diphysciaceae	<i>Lepidopilidium</i> (1)	<i>Trachycladiella</i> (1)
<i>Diphyscium</i> (2)	<i>Lopidium</i> (1)	Mniaceae
Ditrichaceae	<i>Thamniopsis</i> (1)	<i>Plagiomnium</i> (3)
<i>Ceratodon</i> (2)	Hylocomiaceae	Myuriaceae
<i>Distichium</i> (1)	<i>Macrothamnium</i> (1)	<i>Myurium</i> (1)
<i>Ditrichum</i> (4)	Hypnaceae	<i>Oedocladium</i> (1)
<i>Garckeia</i> (1)	<i>Bryocrumia</i> (1)	Neckeraceae
<i>Pleuridium</i> (1)	<i>Ctenidium</i> (1)	<i>Himantocladium</i> (1)
<i>Rhamphidium</i> (1)	<i>Ectropothecium</i> (8)	<i>Homalia</i> (1)
Entodontaceae	<i>Glossadelphus</i> (2)	<i>Homaliadelphus</i> (1)
<i>Entodon</i> (4)	<i>Hypnum</i> (1)	<i>Homaliodendron</i> (4)
<i>Erythrodontium</i> (1)	<i>Isopterygium</i> (3)	<i>Neckera</i> (6)
<i>Mesonodon</i> (1)	<i>Macrothamniella</i> (1)	<i>Neckeropsis</i> (1)
<i>Nanothecium</i> (1)	<i>Mittenothamnium</i> (1)	<i>Noguchiodendron</i> (1)
<i>Trachyphyllum</i> (1)	<i>Pylaisia</i> (2)	<i>Pinnatella</i> (2)
Erpodiaceae	<i>Taxiphyllum</i> (3)	<i>Thamnobryum</i> (3)
<i>Erpodium</i> (1)	<i>Vesicularia</i> (4)	Orthotrichaceae
<i>Solmsiella</i> (1)	Lembophyllaceae	<i>Codonoblepharon</i> (1)
		<i>Groutella</i> (1)
		<i>Macrocoma</i> (1)

<i>Macromitrium</i> (13)	<i>Timmiella</i> (2)	<i>Pylaisiadelpha</i> (1)
<i>Orthotrichum</i> (1)	<i>Trichostomum</i> (2)	<i>Radulina</i> (1)
<i>Rhachithecium</i> (1)	<i>Weissia</i> (4)	<i>Rhaphidostichum</i> (2)
<i>Schlottheimia</i> (2)		<i>Sematophyllum</i> (6)
<i>Ulota</i> (1)		<i>Warburgiella</i> (4)
<i>Zygodon</i> (3)	Pterigynandraceae	
	<i>Pterigynandrum</i> (1)	
		Splachnaceae
Plagiotheciaceae	Pterobryaceae	<i>Tayloria</i> (2)
<i>Plagiothecium</i> (3)	<i>Calyptothecium</i> (5)	
<i>Pseudotaxiphylum</i> (2)	<i>Jaegerina</i> (1)	Stereophyllaceae
	<i>Penzigella</i> (1)	<i>Entodontopsis</i> (2)
Polytrichaceae	<i>Pterobryopsis</i> (8)	<i>Juratzkaea</i> (1)
<i>Atrichum</i> (2)	<i>Sympysodontella</i> (1)	<i>Stereophyllum</i> (1)
<i>Pogonatum</i> (7)	<i>Trachyloma</i> (1)	
		Thuidiaceae
Pottiaceae	Ptychomitriaceae	<i>Claopodium</i> (3)
<i>Anoectangium</i> (3)	<i>Ptychomitrium</i> (1)	<i>Haplocladium</i> (1)
<i>Barbula</i> (6)		<i>Herpetineuron</i> (1)
<i>Bellibarbula</i> (1)	Racopilaceae	<i>Pelekium</i> (4)
<i>Bryoerythrophyllum</i> (2)	<i>Racopilum</i> (4)	<i>Thuidium</i> (4)
<i>Chionoloma</i> (1)		
<i>Didymodon</i> (3)	Rhizogoniaceae	Timmiaceae
<i>Gymnostomiella</i> (2)	<i>Pyrrhobryum</i> (1)	<i>Timmia</i> (1)
<i>Hymenostylium</i> (2)		
<i>Hyophila</i> (7)	Sematophyllaceae	Trachypodaceae
<i>Leptophascum</i> (1)	<i>Acroporium</i> (1)	<i>Diaphanodon</i> (1)
<i>Pottia</i> (1)	<i>Aptychella</i> (1)	<i>Pseudotrichypus</i> (1)
<i>Semibarbula</i> (1)	<i>Foreauella</i> (1)	<i>Trachypodopsis</i> (1)
<i>Syntrichia</i> (2)	<i>Gammiella</i> (1)	<i>Trichypus</i> (5)

CHECKLIST OF BRYOPHYTES

The checklist is arranged in alphabetical order of taxon name within each of the three divisions, Marchantiophyta, Anthocerotophyta and Bryophyta. Currently accepted names are shown in large bold face italic font; those in large regular font are unpublished, and some identifications may need confirmation (the latter are excluded from the species totals above). Names placed in synonymy are indented and in a smaller font, together with the owning taxon and, in square brackets, a literature source for the synonymy. For synonymies, an = sign is used throughout, no distinction being made between nomenclatural and taxonomic synonyms. The authorities of names follow The International Plant Names Index (the successor to Brummitt & Powell, 1992), including the suppression of spaces between initials and surname

Details of collections, with the source reference(s) in square brackets, are provided for each taxon. Where known, the place name, date, collector, specimen number and deposit herbarium are included, but in older literature, details are often sparse and may only include a place name. Type material is also mentioned. Some place names are spelled in various ways in the literature, and this is particularly marked in respect of the Nilgiri Hills (Neel-Gherry, Nilgherries, Nilgiri, etc). Early records from localities identified only as 'Madras' should be treated with caution, since the state of Madras formerly included large parts of present-day Andhra Pradesh, Kerala and Karnataka. It is

possible, therefore, that some of these early unlocalised records came from one or other of these states, and not from Tamil Nadu.

Full literature references are provided in the Bibliography. Some species notes have been added by MJW (liverworts) and BJO (mosses).

Herbarium abbreviations:

- B – Botanischer Garten und Botanisches Museum, Universität Berlin, Germany.
- BM – Natural History Museum, London, U.K.
- CAL – Botanical Survey of India Central National Herbarium, Kolkata (Calcutta), West Bengal, India.
- CINC – University of Cincinnati, Ohio, U.S.A.
- FH – Farlow Herbarium, Harvard University, Cambridge, Massachusetts, U.S.A.
- FI – Museo di Storia Naturale, Firenze (Florence), Italy
- G – Conservatoire et Jardin botaniques de la Ville de Genève, Genève, Switzerland.
- H-BR – Brotherus Herbarium, University of Helsinki, Finland
- JE – Friedrich-Schiller-Universität, Jena, Germany.
- L – Rijksherbarium, Leiden, Netherlands.
- LD – Botanical Museum, Lund, Sweden.
- LWG – National Botanical Research Institute, Lucknow, Uttar Pradesh, India.
- LWU – University of Lucknow Herbarium, Uttar Pradesh, India.
- MH – Botanical Survey of India, Southern Circle, Coimbatore, Tamil Nadu, India (Madras Herbarium).
- NICH – Hattori Botanical Laboratory, Miyazaki, Nichinan, Japan
- NO – Tulane University, New Orleans, Louisiana, U.S.A.
- NY – New York Botanical Garden, Bronx, New York, U.S.A.
- PC – Muséum National d'Histoire Naturelle, Paris, France.
- RHT – St Joseph's College, Tiruchirapalli, Tamil Nadu, India.
- S – Swedish Museum of Natural History, Stockholm, Sweden.
- SCCN – Scott Christian College, Nagercoil, Tamil Nadu, India.
- S-PA – Möller's herbarium, University of Stockholm, Sweden.
- STR – Institut de Botanique, Strasbourg, France.
- U – Utrecht University Branch, National Herbarium Nederland, Leiden, Netherlands

MARCHANTIOPHYTA (Liverworts)

Aneura foreauana Steph. = *Riccardia multifida* (L.) S.Gray [Srivastava & Udar 1976]

Aneura indica Steph. ex Kashyap = *Aneura pinguis* (L.) Dumort. [Srivastava & Udar 1976]

Aneura levieri (Schiffn.) Steph. = *Riccardia levieri* Schiffn. [Srivastava & Udar 1976]

***Aneura maxima* (Schiffn.) Steph.**

- Nilgiris, W. Ghats, Coonoor, 5000–5500 ft., 1 Jan 1966, S.C. Srivastava 79A/66 (LWU); Palnis, W. Ghats, Kodaikanal, ca 6500 ft., 6 Jan 1966, S.C. Srivastava 69A/66 (LWU). [Srivastava & Udar 1976: 148-9, as *A. pellioides*].
- Kanyakumari Dist., W. Ghats, Balamore, ca 300 m., 23 Jan 1999, Daniels 401 (MH, SCCN) [Daniels 2003].

Aneura multifida Dumort. = *Riccardia multifida* (L.) S.Gray [Grolle & Piippo 1984]

Aneura pellioides (Horik.) Inoue = *Aneura maxima* (Schiffn.) Steph. [Inoue 1976; Schuster 1992a]

***Aneura pinguis* (L.) Dumort.**

- Palni Hills, Mrs Robinson, 1928, 589; 1929, 963 [Chopra 1938: 243, and as *A. indica*].
- Nilgiris, W. Ghats, Coonoor, Bandishola, 4500 ft., 1 Jan 1966, S.C. Srivastava 68A/66 (LWU); Palnis, W. Ghats, Kodaikanal, ca 4000 ft., 6 Jan 1966, S.C. Srivastava 47A/66, 50A/66, 57A/66, 59A/66 (LWU) [Srivastava & Udar 1976: 146].
- Kanyakumari Dist., W. Ghats, Maramalai, ca 400 m., 15 Apr 2003, Daniels 3080 (MH, SCCN) [Daniels 2003].

Aneura tenuicostata (Schiffn.) Mitt. = *Riccardia tenuicostata* Schiffn. [Hürlmann 1976]

Aplozia lanceolata (Schrad.) Dumort. = *Jungermannia subulata* A.Evans [Schuster 1969]

Aplozia purpurata (Mitt.) R.S.Chopra = *Jungermannia purpurata* Mitt. [Váňa 1972]

Aplozia sphaerocarpa (Hook.) Dumort. = *Jungermannia sphaerocarpa* Hook. [Schuster 1969]

Arachniopsis indica S.C.Srivast. & P.K. Verma = *Telaranea indica* [S.C.Srivast. & P.K. Verma]

A.E.D.Daniels & P.Daniel (Daniels & Daniel 2007a)

***Archilejeunea apiculifolia* Steph.**

- On the way to Avalanche, ca 2439 m., 2 Jan 1972, *R. Udar* 73 S/A (LWU) [Udar & Awasthi 1981].

Archilejeunea indica Steph. = *Schiffnerolejeunea pulopenangensis* (Gottsch) Gradst. [Gradstein 1991]

Archilejeunea mariana (Gottsch) Steph. = *Cheilolejeunea mariana* (Gottsch) B.Thiers & Gradst. [Thiers & Gradstein 1989]

***Archilejeunea minutilobula* Udar & U.S.Awasthi**

- Mettupalayam, ca 500 m., 28 Dec 1965, *R. Udar* & S.C. Srivastava 200/65, holotype (LWU) [Udar & Awasthi 1981].

Archilejeunea polymorpha (Sande Lac.) B.Thiers & Gradst. = *Spruceanthus polymorphus* (Sande Lac.) Verd. [Gradstein et al. 2002]

Asterella angusta (Steph.) Mahab. & Bhate = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé et al. ex Grolle [Long 2006]

Asterella blumeana auct. plur. non. (Nees) Kachroo = *Asterella khasyana* (Griff.) Pandé, K.P.Srivast. & Sultan Khan [Long 2006]

Asterella butleri (Steph.) Pandé, K.P.Srivast. & Sultan Khan ex Kachroo & Bapna = *Asterella khasyana* (Griff.) Pandé, K.P.Srivast. & Sultan Khan [Long 2006]

Asterella gangetica (Kashyap) Parihar = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé et al. ex Grolle [Long 2006]

Asterella kashyapii Maheshw. = *Asterella leptophylla* (Mont.) Pandé et al. ex Grolle [Long 2006]

***Asterella khasyana* (Griff.) Pandé, K.P.Srivast. & Sultan Khan**

- Nilgiris, 1916, *Ranchachariar*, Bh. 16 (4a), as *Fimbriaria blumeana* [Chopra 1938: 241].

- Madura (Madurai) district, environs de Shembaganur, 1910, *Vellé* 261 (PC); Madura district, Palni Hills, Kodaikanal and surrounding region, 1932, *Foreau* 138 (JE); Nilgiris, Ootacamund, Oct 1909, *Mebold* 11777 (JE, G-10471) [Long 2006: 268].

***Asterella leptophylla* (Mont.) Pandé et al. ex Grolle**

- Neelgherrien, *Perrottet* s.n. [Montagne 1842b: 16, as *Fimbriaria leptophylla*].

- Nilgiri Mountains, *Schmidt* s.n. (BM); Ootacamund, *Schmidt* s.n. (NY); Madras, Nilgiris, Ooty, Aug 1885, *Gamble* 16656 (BM, JE); Nilgiris, Naducatam, Oct 1884, *Gamble* 14904 (BM) [Long 2006: 273]. Lectotype of *Fimbriaria leptophylla*: Neel-Gherrien, *Perrottet* s.n. (PC- Hb. Montagne); many isolectotypes, listed by D.G. Long, in G, BM, BR, NY, MANCH and FH.

Asterella mysorensis (R.S.Chopra) Pandé et al. ex Kachroo & Bapna = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé et al. ex Grolle [Long 2006]

Asterella reticulata A.Evans = *Asterella leptophylla* (Mont.) Pandé et al. ex Grolle [Long 2006]

***Asterella wallichiana* (Lehm. & Lindenb.) Pandé et al. ex Grolle**

- Nilgiri Hills (in terra nuda montium Nilgircorum, *Perrottet* s.n., Hb. Lehmann ex Hb. Montagne (S)) [Montagne 1842b: 17; Long 2006: 260].

- Mysore, 1913, *Buttler* 75, type of *Fimbriaria mysorensis*; Kotagiri, *Rangachariar*, Bh 16 (1e), as *Fimbriaria angusta* [Chopra 1938: 241, as *Fimbriaria angusta* ("angusta" (sic)) and *F. mysorensis*].

***Athalamia pusilla* (Steph.) Kashyap**

- Railway track from Mettupalayam to Ootacamund, and other localities, Oct 1961, *R. Udar* s.n. [Udar & Srivastava 1965: 220].

Aitonija japonica Steph. = *Plagiochasma japonicum* (Steph.) C.Massal. [Yamada & Iwatsuki 2006]

Aitonija rupestris J.R.Forst. & G. Forst. = *Plagiochasma rupestre* (J.R.Forst. & G. Forst.) Steph. [Bischler 1978]

***Bazzania intermedia* (Lindenb. & Gottsche) Trevis.**

- Nilgherries, *Beddome* s.n. as *Mastigobryum intermedium* [Stephani 1908: 458].

- Kotagiri, 1916, *Sedgwick*, 322; Negapatam, 1928, *Mrs Robinson*, 592 [Chopra 1938: 246, as *Mastigobryum intermedium*]. To be clarified: Sharma & Srivastava (1993) stated that 'records

from India are apparently erroneous', citing Mizutani (1967) as evidence. However, Mizutani (1967) said only that he had "not seen material identical [to *B. intermedia*] from the Himalayan region", not from the whole of India. It remains to be seen whether reports of this species from Tamil Nadu are correct.

***Bazzania orientalis* (Steph.) Parihar**

- "India orientalis", type of *Mastigobryum orientale* [Stephani 1924: 476].
- Ghates merid., Kodicanal, 1908, *G. André s.n.*, Hb. Cardot 147, type of *Mastigobryum orientale* (G-011183) [Mizutani 1967: 73 (under *B. tridens*); Sharma & Srivastava 1993: 118]. Endemic to the Palni hills. *B. orientalis* was treated as a synonym of *B. tridens* by Mizutani (1967) and Kitagawa (1967), but treated as distinct by Sharma & Srivastava (1993).

Bazzania oshimensis (Steph.) Horik. = *Bazzania tridens* (Reinw., Blume & Nees) Trevis. [Inoue 1989]

***Bazzania tricrenata* (Wahlenb.) Lindb.**

- Hindoustan Mts., Nilgherries, 1836, *Perrottet s.n.*, Hb. Cardot 93, type of *Mastigobryum perrottetii* (G-12569) [Stephani 1908: 434; Mizutani 1967: 77].

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

- Nilgherry montes, *Perrottet s.n.*, as *Mastigobryum trifidum* [Stephani 1908: 506].
- Nilgherry Monts., 1836, *Perrottet s.n.*, Hb. Cardot 50, type of *Mastigobryum cardotii* (G-12567) [Stephani 1908: 515; Mizutani 1967: 73; Kitagawa 1967: 259 (Mt. Nilgherry erroneously assigned to Orissa State)].
- Shembaganur, 1931, *Rupinat*, 2137 [Chopra 1938: 246, as *Mastigobryum tridens*].
- Madura, *Vellé s.n.*, Hb. Vandenbraeck 371 (det. F. Stephani as *Mastigobryum rabenhorstii* (G-12511)) [Mizutani 1967: 73].
- Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh s.n.* [Udar & Nath 1971: 638].
- Avalanche, 2 Jan 1972, *R. Udar & party*, six collections (LWU); Bandi Shola, 9 miles from Coonoor, 1 Jan 1966, *R. Udar & S.C. Srivastava* 324/66 (LWU); Kodaikanal, Silver Cascade, Shembaganur, Periyakulum, Sep–Nov 1983, *R. Udar & party*, many collections (LWU) [Sharma & Srivastava 1993: 125].
- Tirunelveli Dist., W. Ghats, Agasthyamalai, ca 1700 m., 26 Apr 2002, *Daniels 2129* (MH, SCCN) [Daniels 2003].

Bazzania tridens (Reinw., Blume & Nees) Trevis. var. *oshimensis* (Steph.) Pócs = *Bazzania tridens* (Reinw., Blume & Nees) Trevis. [Inoue 1989]

Blyttia lyellii Gottsche, Lindenb. & Nees = *Pallavicinia lyellii* (Hook.) S.Gray [Schuster 1992a]
Brachiolejeunea sandvicensis (Gottsche) A.Evans = *Trocholejeunea sandvicensis* (Gottsche) Mizut. [Onraedt 1981]

***Calypogeia arguta* Nees & Mont. ex Nees**

- Madura, Ant. *Vellé no.* 228 (G-10974), type of *Calypogeia pusilla* [Stephani 1924: 450].
- Kotagiri, *Sedgwick*, 1922, 323 [Chopra 1938: 246].
- Bandi Shola, 9 miles from Coonoor, 1 Jan 1966, *R. Udar & S.C. Srivastava* 64/66, 237/66 (LWU) [Sharma & Srivastava 1993: 186].

***Calypogeia azurea* Stotler et Crotz**

- Perumalmalai to Silver Cascade, Shembaganur, Kodaikanal, Sep 1983, *R. Udar & party*, many collections (LWU) [Sharma & Srivastava 1993: 205].

Calypogeia pusilla Steph. = *Calypogeia arguta* Mont. & Nees [Kitagawa 1973]

Cephalozia andreana Steph. = *Cephaloziella kaieri* (Austin) Douin [Kitagawa 1969]

***Cephalozia hamatiloba* Steph. subsp. *siamensis* (N.Kitag.) Váňa**

- Bandishola, near Coonoor, 1 Oct 1966, S.C.Srivastava s.n. (LWU) [Udar & Nath 1973].

Cephalozia siamensis N.Kitag. = *Cephalozia hamatiloba* Steph. subsp. *siamensis* (N.Kitag.) Váňa [Koponen et al. 2004]

Cephalozia willisana Steph. = *Cephaloziella kaieri* (Austin) Douin [Váňa et al. 1979]

***Cephaloziella kiaeri* (Austin) Douin**

- Kotagiri, *Sedgwick*, 1915, 322; Shembaganur, *Rupinat*, 1931, 2135 [Chopra 1938: 246, as *Cephalozia willisiana* [sic] & *C. andreana*].

- Kodaikanal, W. Ghats, Palni Hills, ca 1200 m., 1 Jan 1966, *R. Udar et al.* 62/66, 66/66, 229/66, 1416/66 (LWU). Avalanche, 2 Jan 1972, *R. Udar & party*, 4651/81, 4685/81, 4686/81 (LWU) [Udar & Kumar 1985].

Cephaloziella willisana (Steph.) N.Kitag. = *Cephaloziella kiaeri* (Austin) Douin [Váňa *et al.* 1979]

***Cheilolejeunea birmensis* (Steph.) Mizut.**

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels* 1433 p.p. (MH, SCCN) [Daniels 2003].

Cheilolejeunea giraldiana (C.Massal.) Mizut. = *Cheilolejeunea krakakammae* (Lindenb.) R.M.Schust. [Kitagawa 1981]

Cheilolejeunea imbricata (Nees) S.Hatt. = *Cheilolejeunea trapezia* (Nees) Kachroo & R.M.Schust. [Zhu & Grolle 2004]

***Cheilolejeunea intertexta* (Lindenb.) Steph.**

- Kanyakumari Dist., W. Ghats, Klamalai, ca 450 m., 18 Oct 1999, *Daniels* 792 (MH, SCCN) [Daniels 2003].

Cheilolejeunea katschalliana Steph. = *Cheilolejeunea intertexta* (Lindenb.) Steph. [Grolle 1979]

Cheilolejeunea khasiana (Mitt.) N.Kitag. = *Cheilolejeunea krakakammae* (Lindenb.) R.M.Schust. [Zhu 2006]

***Cheilolejeunea krakakammae* (Lindenb.) R.M.Schust.**

- Kanyakumari Dist., W. Ghats, Klamalai, ca 450 m., 18 Oct 1999, *Daniels* 792 (MH, SCCN) [Daniels 2003].

Cheilolejeunea kurzii Steph. = *Cheilolejeunea intertexta* (Lindenb.) Steph. [Grolle & Piippo 1984]

***Cheilolejeunea laeviuscula* (Mitt.) Steph.**

- Dodabetta, Ootacamund, 24 Aug 1991, *D.Sharma, R.Dixit & A.Srivastava* 9982/91 [Asthana *et al.* 1995].

- Tirunelveli Dist., W. Ghats, Mancholai, ca 1100 m., 24 Aug 2001, *Daniels* 1779 (MH, SCCN) [Daniels 2003].

***Cheilolejeunea mariana* (Gottsche) B.Thiers & Gradst.**

- Kotagiri, *Sedgwick*, 1916, 223, det. F. Verdoorn [Chopra 1938: 249, as *Archilejeunea mariana*].

***Cheilolejeunea serpentina* (Mitt.) Mizut.**

- Madras, *Wight* 55 p.p. (NY) [Grolle 1979: 346].

- Kanyakumari Dist., W. Ghats, Klamalai, ca 450 m., 18 Oct 1999, *Daniels* 772 (MH, SCCN) [Daniels 2003].

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

- Dodabetta, Ootacamund, 25 Sep 1983, *R. Udar & party*, 10 collections as *C. imbricata* (LWU) [Asthana *et al.* 1995].

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels* 1433 p.p. (MH, SCCN) [Daniels 2003].

***Cheilolejeunea udarrii* G.Asthana, S.C.Srivast. & A.K.Asthana**

- Ootacamund (Dodabetta peak), Nilgiri hills, 25 Sep 1983, *R. Udar et al.* 6863/83 (holotype), 6892/83, 6900/83, 6908/83, 6923/83, 6965/83 (LWU) [Asthana *et al.* 1995]. Endemic to the Nilgiri Hills.

Chiloscyphus argutus (Reinw., Blume & Nees) Nees = *Heteroscyphus argutus* (Reinw., Blume & Nees) Schiffn. [Grolle & Piippo 1984]

***Chiloscyphus coadunatus* (Sw.) J.J.Engel & R.M.Schust.**

- Neel-Gherries [Montagne 1842b: 12, as *Lophocolea bidentata*].

- Madura, coll. *Vellé s.n.*, type of *Lophocolea velleana* [Stephani 1922: 299].

- Shembaganur, *Rupinat* 2131 [Chopra 1938: 245, as *Lophocolea bidentata*].

- Woodland, Mukurty and Dodabetta Peak, Ootacamund, Sep 1983, *R. Udar et al.* 6902/83, 6943/83, 7126/83 as *Lophocolea bidentata*; Ootacamund, Kodaikanal, Perumalmalai, Silver Cascade, Shembaganur, Periakulum, Bear Shola and Berijam, Sep–Oct 1983, *R. Udar et al.*, many collections, as *Lophocolea cuspidata* (LWU) [Srivastava & Srivastava 2002: 191, 201]. This checklist follows Paton (1999), who considered *Lophocolea bidentata* (L.) Dumort. and *L. cuspidata* (Nees) Limpr. to be morphologically inseparable. Schumacker & Váňa (2005) assign

both species to *Chiloscyphus coadunatus*, but to different varieties which they describe, however, as poorly known.

Chiloscyphus cuspidatus (Nees) J.J.Engel & R.M.Schust. = *Chiloscyphus coadunatus* (Sw.) J.J.Engel & R.M.Schust. [Paton 1999; Schumacker & Váňa 2005]

***Chiloscyphus kurzii* (Sande Lac.) J.J.Engel & R.M.Schust.**

- Mont. Nilgiri propre Brookland - Coonoor, *G.H. Cair 4740* (G) [Kitagawa 1973: 268, as *Lophocolea kurzii*]. Made a synonym of *Lophocolea heterophylla* (= *Chiloscyphus profundus*) by Srivastava & Srivastava (2002), but treated as a distinct species by Piippo (1993) and Lai *et al.* (2008).

Chiloscyphus latifolius (Nees) J.J.Engel & R.M.Schust. = *Chiloscyphus coadunatus* (Sw.) J.J.Engel & R.M.Schust. [Schumacker & Váňa 2005]

***Chiloscyphus muricatus* (Lehm.) J.J.Engel & R.M.Schust.**

- In montibus Nilgiriensibus, *Perrottet s.n.*, as *Lophocolea muricata* [Mitten 1861: 99].
- Shembaganur, *Rupinat 2132* [Chopra 1938: 245].
- Avalanche, 2 Jan 1972, *R. Udar & Srivastava 758/72* (LWU); Dodabettia Peak, 5 Jan 1972, *R. Udar & Srivastava 126S/72*; Dodabettia Peak and near, 25 Sep 1983, *R. Udar et al.*, many collections (LWU) [Srivastava & Srivastava 2002: 166].

Chiloscyphus perfoliatus (Mont.) Nees = *Heteroscyphus argutus* (Reinw., Blume & Nees) Schiffn. [Srivastava & Srivastava 2002]

***Chiloscyphus profundus* (Nees) J.J.Engel & R.M.Schust.**

- Kotagiri, *Sedgwick*, 1916, 327-329 [Chopra 1938: 245, as *Lophocolea heterophylla*].
- Kodaikanal, Ootacamund, Lusington Hall, Bandi Shola, Coonoor, Avalanche, Mettupalayam to Coonoor, Perumalmalai and Periakulum, Sep-Oct 1983, *R. Udar et al.*, many collections (LWU) [Srivastava & Srivastava 2002: 174-175].

Chiloscyphus velleanus (Steph.) J.J.Engel & R.M.Schust. = *Chiloscyphus coadunatus* Sw.) J.J.Engel & R.M.Schust. [Srivastava & Srivastava 2002]

***Chonecolea schusteri* Udar & A.Kumar**

- Bandishola (Nilgiris), 1 Jan 1966, *R. Udar & S.C. Srivastava 305/66* (holotype LWU; isotype JE) [Udar & Kumar 1982c]. Endemic to the Nilgiri Hills.

Codonia wondraczekii Dumort. = *Fossombronia wondraczekii* (Corda) Dumort. ex Lindb. [Schuster 1992a]

***Cololejeunea appressa* (A.Evans) Benedix**

- Nilgiris, W. Ghats, Avalanche, ca 2439 m., 2 Jan 1972, *R. Udar & party 117S/72* (LWU); Palnis, W. Ghats, Kodaikanal, ca 2153 m., [?date], *R. Udar & party 7257/83, 7266/83* (LWU) [Asthana & Srivastava 2003].

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

- Palnis, W. Ghats, Kodaikanal, Periakulum, ca 2000 m., 1 Oct 1983, *R. Udar & party 7250/83, 7262/83, 7264/83* (LWU) [Asthana & Srivastava 2003].

***Cololejeunea ceratilobula* (P.C.Chen) R.M.Schust.**

- Palnis, W. Ghats, Kodaikanal, Periakulum, ca 2000 m., 1 Oct 1983, *R. Udar & party 7255/83, 7256/83, 7266/83* (LWU) [Asthana & Srivastava 2003].

***Cololejeunea furcilibulata* (Berrie & E.W.Jones) R.M.Schust.**

- Kanyakumari Dist., W. Ghats, Mahendragiri, ca 450 m., 5 Aug 1995, *Daniels 2, 3* (SCCN) [Daniels 2001].

***Cololejeunea haskarliana* (Lehm. & Lindenb.) Schiffn.**

- Madurai, *Pfleiderer s.n.* (G). [Asthana & Srivastava 2003].

***Cololejeunea lanciloba* Steph.**

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1332 p.p.* (MH, SCCN) [Daniels 2003].

***Cololejeunea latilobula* (Herzog) Tixier**

- Ootacamund, Coonoor Sims Park, ca 2000 m., 27 Sep 1983, *R. Udar & party 7218/83, 7220/83* (LWU); Palnis, W. Ghats, Kodaikanal, Periakulum, ca 2000 m., 1 Oct, *R. Udar & party 7266/83* (LWU) [Asthana & Srivastava 2003].

***Cololejeunea madothecoides* (Steph.) Benedix**

- Palnis, W. Ghats, Kodaikanal, Periakulam, ca 2133 m., 1 Oct 1983, *R. Udar & party* 7599/83 (LWU) [Asthana & Srivastava 2003].

***Cololejeunea minutissima* (Sm.) Schiffn.**

- Neel-Gherries, *Perrottet s.n.* [Montagne 1842b: 14 as *Lejeunea minutissima*; Mitten 1861: 115].
- Ootacamund, Emerald, *R. Udar & party*, 26 Oct 1983, *R. Udar & party* 7077/83, 7093/83 (LWU); Kodaikanal, Bear Shola, ca 2000 m., 1 Oct 1983, *R. Udar & party* 7669/83 (LWU) [Asthana & Srivastava 2003].
- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels* 1332 (SCCN); Tirunelveli Dist., W. Ghats, Agasthyamalai, Vanathirtham, ca 300 m., 28 Apr 2002, *Daniels* 2200, 2201 (SCCN) [Daniels 2003].

***Cololejeunea nilgiriensis* G.Asthana & S.C.Srivast.**

- Avalanche, Nilgiri hills, *R. Udar et al.* 75S/72 (holotype), 2 Jan 1972 (LWU) [Asthana & Srivastava 2003]. Endemic to the Nilgiri Hills.

Cololejeunea planissima* (Mitt.) Abeyw. var. *planissima

- Palnis, W. Ghats, Kodaikanal, ca 2133 m., 1 Oct 1983, *R. Udar & party* 7709/83 (LWU) [Asthana & Srivastava 2003].

***Cololejeunea pseudofloccosa* (Horik.) Benedix**

- Avalanche, ca 2439 m., 2 Jan 1972, *R. Udar & party* 88S/72, 117S/72, 120S/72 (LWU) [Asthana & Srivastava 2003].

***Cololejeunea spinosa* (Horik.) S.Hatt.**

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels* 1333, 1336, 1338 (MH, SCCN) [Daniels 2003].

***Cololejeunea udarrii* G.Asthana & S.C.Srivast.**

- Palnis, W. Ghats, Kodaikanal, Periakulam, ca 2153 m., 1 Oct 1983, *R. Udar & party* 7251/82, 7253/83, 7255/83, 7261/83, 7262/83, 7264/83, 7266/83, 7270/83, 7633/83 (LWU); Palnis, W. Ghats, Kodaikanal, Perumalmalai, ca 2100 m., 29 Sep 1983, *R. Udar & party* 7279/83, 7280/83, 7281/83, 7285/83 (LWU) [Asthana & Srivastava 2003].

***Cyathodium aureonitens* (Griff.) Mitt.**

- Kanyakumari Dist., W. Ghats, Maramalai, ca 150 m., 15 July 2000, *Daniels* 931 (SCCN); Tirunelveli Dist., W. Ghats, Agasthyamalai, Vanathirtham, ca 300 m., 22 Jan 2003, *Daniels* 3020 (SCCN) [Daniels 2003].

Cyathodium griffithii Steph. = *Cyathodium aureonitens* (Griff.) Mitt. [Jones 1952; Srivastava & Dixit 1996a]

Cyathodium kashyapii Khanna = *Cyathodium smaragdinum* Schiffn. [Srivastava & Dixit 1996a]

Cyathodium penicillatum Steph. = *Cyathodium tuberosum* Kashyap [Srivastava & Dixit 1996a]

***Cyathodium smaragdinum* Schiffn.**

- Kanyakumari Dist., W. Ghats, Mahendragiri, ca 450 m., 19 Oct 1998, *Daniels* 382 (SCCN) [Daniels 2003].

Diplolaena crispata Mont. = *Pallavicinia lyellii* (Hook.) S.Gray [Grolle & Piippo 1986].

***Drepanolejeunea angustifolia* (Mitt.) Grolle**

- Dodabetta, alto. 2670 m., 5 Jan 1972, *R. Udar* 132/72 (LWU) [Udar & Awasthi 1982b].

***Drepanolejeunea sikkimensis* (Udar & U.S.Awasthi) Grolle**

- Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1250 m., 9 Nov 2000, *Daniels* 1246 p.p. (SCCN) [Daniels & Daniel 2003c]. Endemic to India.

***Drepanolejeunea ternatensis* (Gottsche) Steph.**

- Nilgiri Hills, on the way to Avalanche, 2439 m., 2 Jan 1972, *R. Udar* 57S/72, 68S/72, 86S/72 (LWU); *R. Udar* 132S/72 as *D. ternatensis* var. *lancispina* [Udar & Awasthi 1982b].

Drepanolejeunea ternatensis (Gottsche) Steph. var. *lancispina* Herzog = *Drepanolejeunea ternatensis* (Gottsche) Steph. [Piippo 1990]

***Dumontiera hirsuta* (Sw.) Nees**

- In montibus Nilgiri, *McIvor s.n.* [Mitten 1861: 125].

- Kotagiri, *Rangachariar*, Bh. 21 (2, 29); Kotagiri, *Sedgwick*, 1916, 94, 95; Madras, *Iyengar*, Bh. 21 (2b-e); Negapatam, *Mrs Robinson*, 1928, Bh. 21 (3d); Palni Hills, *Mrs Robinson*, 1929, 966, 968 [Chopra 1938: 242].
- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1350 m., 17 May 2002, *Daniels 2231* (SCCN) [Daniels 2003].

Eulejeunea olivacea Steph. = *Lejeunea subolivacea* Mizut. [cf. Srivastava & Agarwal 1986]

Exormotheca ceylonensis Meijer

- Kodaikanal, Oct/Nov 1962, *R. Udar & Chandra s.n.* [Udar & Chandra 1964b: 437].
- Kanyakumari Dist., W. Ghats, Chungankadai, ca 150 m., 12 June 1999, *Daniels 468*, 469 (SCCN); Tirunelveli Dist., W. Ghats, Agasthyamalai, Mundanthurai, 300–500 m., 30 July 1999, *Daniels 640*, 641, 675 (SCCN) [Daniels 2003].

Exormotheca tuberifera Kashyap

- Nilgiris, *Rangachariar*, 1916, Bh. 19 (1a-c); Madras, *Iyengar*, 1922, Bh. 19 (1d-e) [Chopra 1938: 242].

Fimbriaria angusta Steph. = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria blumeana auct. plur. non. Nees = *Asterella khasyana* (Griff.) Pandé, K.P.Srivast. & Sultan Khan [Long 2006]

Fimbriaria gangetica Kashyap = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria gollanii Steph. = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria indica Steph. = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria khasyana (Griff.) Mitt. = *Asterella khasyana* (Griff.) Pandé, K.P.Srivast. & Sultan Khan [Long 2006]

Fimbriaria leptophylla Mont. = *Asterella leptophylla* (Mont.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria maculata Steph. = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria mescarana Steph. = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria mysorensis R.S.Chopra = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria papulosa Steph. = *Asterella khasyana* (Griff.) Pandé, K.P.Srivast. & Sultan Khan [Long 2006]

Fimbriaria reticulata Kashyap = *Asterella leptophylla* (Mont.) Pandé *et al.* ex Grolle [Long 2006]

Fimbriaria wallichiana Lehm. & Lindenb. = *Asterella wallichiana* (Lehm. & Lindenb.) Pandé *et al.* ex Grolle [Long 2006]

Fossombronia cristata Lindb. = *Fossombronia wondraczekii* (Corda) Dumort. ex Lindb. [Schuster 1992a]

Fossombronia cristata var. *wondraczekii* Lindb. = *Fossombronia wondraczekii* (Corda) Dumort. ex Lindb. [Schuster 1992a]

Fossombronia foreau Udar & S.C.Srivast. = *Fossombronia japonica* Schiffn. [Krayeski *et al.* 2005]

Fossombronia himalayensis Kashyap

- Madras, *Foreau*, 1928, 162; Kodaikanal, *Foreau*, 1934, 2126 [Chopra 1938: 244].
- Botanical Garden, Ootacamund, Oct 1962, *R. Udar & V. Chandra 15F/62*, and March 1965, *S.C. Srivastava 6F/65* (LWU) [Srivastava & Udar 1975b: 807].

Fossombronia japonica Schiffn.

- Kodaikanal, no details [Udar & Srivastava 1972 as *F. foreoui*].
- Lakeside road, Kodaikanal, 4 Jan 1966, *R. Udar & S.C. Srivastava 1F/66*, 4F/66, 5F/66 (LWU); Bryant Park, Kodaikanal, Jan 1966, *R. Udar & S.C. Srivastava 3F/66* (LWU); from Kotagiri to Coonoor, Jan 1966, *R. Udar & S.C. Srivastava 7F/66* (LWU); between Permalimalai and Silver Cascade, Jan 1966, *R. Udar & S.C. Srivastava 8F/66* (LWU) [Srivastava & Udar 1975b: 809–810, as *F. cristula*]. In Asia, formerly widely reported in error as *Fossombronia cristula* Austin, an endemic of the United States (*fide* Krayeski *et al.* 2005). In this checklist, all Tamil Nadu reports of *F. cristula* are assumed to be *F. japonica*.

Fossombronia pusilla (L.) Dumort.

- Botanical Garden and elsewhere, Ootacamund, Oct 1962, *R. Udar & V. Chandra 21F/62*, 24F/62 (LWU) [Srivastava & Udar 1975b: 819].

Fossombronia wondraczekii (Corda) Dumort. ex Lindb.

- Kodaikanal, Oct 1962, *R. Udar & V. Chandra* - 6 collections (LWU); Botanical Garden and elsewhere, Ootacamund, Oct 1962, *R. Udar & V. Chandra 12F/62*, 20F/62, 22F/62, 23F/62, 37F/62 (LWU); Botanical Garden, Ootacamund, 30 Dec 1965, *R. Udar & S.C. Srivastava 2F/65*

(LWU); Coonoor, 1 Jan 1966, *R. Udar & S.C. Srivastava* 36F/66 (LWU) [Srivastava & Udar 1975b: 814]. To be clarified: in Plate 1 in Srivastava & Udar (1975b), the sculpturing of the spores shown in figs. 8 and 9 (purporting to be of *F. wondraczekii*) much more resemble those of *F. pusilla*.

***Frullania acutiloba* Mitt.**

- in montibus Nilgiri, *Perrottet s.n.*, type of *F. acutiloba* (NY) [Mitten 1861: 120; Hattori 1973: 101].
- Shembaganur, *Foreau*, 1934, 2147 [Chopra 1938: 248, as *F. asperula*].
- In montibus Nilgiri, *E. Hohmacker* (HJB 942.312-51) [Hattori 1975c, as *F. hampeana* var. *acutiloba*]
- Kodaikanal, 4 Jan 1962, *R. Udar & S.C. Srivastava* L001, L0013 (LWU); near Pillar rock, Kodaikanal, 29 Aug 1984, *Chandra & V. Nath* 204252, 204273, 204278 (LWG); Botanical Garden, Ootacamund, 30 Dec 1965, *R. Udar & S.C. Srivastava* L003 (LWU); Dodabetta Peak, 5 Jan 1972, *R. Udar* L005, L0011 (LWU); Upper Bhawani Road, Ootacamund, 2 Jan 1972, *R. Udar* L0010 (LWU); Avalanche, 2 Jan 1972, *R. Udar* L009 (LWU) [Nath & Asthana 1998: 72].
- Kanyakumari Dist., W. Ghats, Maramalai, ca 450 m., 7 Sep 1996, *Daniels* 111; 6 Apr 1999, *Daniels* 436 (SCCN); Tirunelveli Dist., W. Ghats, Agasthyamalai, Narakkad, ca 450 m., 22 May 1997, *Daniels* 267, 269, 270; on the way to Kannikatti, 350–460 m., 30 July 1999, *Daniels* 583, 606 (SCCN) [Daniels 2003]. Hattori (1975a) considered *F. acutiloba* to be a variety of *F. hampeana* (*F. hampeana* Nees. var. *acutiloba* (Mitt.) S.Hatt.).

Frullania aelotis Mont. & Nees var. *squarrosa* Mont. & Nees = *Frullania ericoides* (Nees) Mont. [Grolle 1968b]

***Frullania apiculata* (Reinw., Blume & Nees) Dumort.**

- in montibus Nilgiris, *Beddome s.n.*, Hb. Levier (G-15862) [Nath & Asthana 1998: 75].
- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels* 1433 p.p. (SCCN) [Daniels 2003].

Frullania appendiculata Steph. = *Frullania tamarisci* (L.) Dumort. subsp. *obscura* (Verd.) S.Hatt. [Piippo 1990]

***Frullania arecae* (Spreng.) Gottsche**

- Madras, *Wight s.n.*; Mont. Nilgiri, *Perrottet s.n.* [Mitten 1861: 119, as *F. wallichiana*].
- Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh s.n.* as *F. wallichiana* [Udar & Nath 1971: 638].
- Bryant Park (Kodaikanal), 4 Jan 1966, *R. Udar & S.C. Srivastava* L00176, L00179 (LWU); Kodaikanal, 5 Jan 1966, *R. Udar & S.C. Srivastava*, L00178 (LWU); near Pillar rock (Kodaikanal), 29 Aug 1984, *Chandra & V. Nath* 204185 (LWG); near Naduvattam, 3 Jan 1972, *R. Udar* L00177 (LWU) [Nath & Asthana 1998: 66, as *F. wallichiana*].

Frullania asperula Mitt. = *Frullania acutiloba* Mitt. [Hattori 1975a]

Frullania breviuscula Mitt. = *Frullania neurota* Taylor [Yuzawa 1991]

***Frullania campanulata* Sande Lac.**

- Kotagiri, *Sedgwick*, 1916, 380, det. Verdoorn [Chopra 1938: 248].
- Botanical Garden, Ootacamund, 29, 30 Dec 1965, *R. Udar & S.C. Srivastava* L0017, L0020 (LWU); Dodabetta Peak, 5 Jan 1972, *R. Udar* L0014, L0015, L0019 (LWU); Kodaikanal, on way to observatory and Bryant Park, 4, 5 Jan 1972, *R. Udar & S.C. Srivastava* L0016, L0021, L0022 (LWU); near Pillar Rock, Kodaikanal, 29 Aug 1984, *S. Chandra & V. Nath*, 5 collections (LWG); near observatory, Kodaikanal, 29 Aug 1984, *S. Chandra & V. Nath* 204257 (LWG); Katherine Falls, Coonoor, 2 July 1907, *R. Sethy s.n.*, (G-14555), det. Verdoorn (see also under *F. polyptera*) [Nath & Asthana 1998: 77].
- Kanyakumari Dist., W. Ghats, Maramalai, ca 420 m., 6 Apr 1999, *Daniels* 437; Klamalai, ca 450 m., 18 Oct 1999, *Daniels* 772 (SCCN) [Daniels 2003].

***Frullania ceylanica* Nees**

- Kanyakumari Dist., W. Ghats, Sea Feld, ca 800 m., 20 Mar 2003, *Daniels* 3040 (SCCN). [Daniels 2003, as *F. gaudichaudii* var. *ceylanica*; Daniels & Daniel 2008b]. *F. ceylanica* has been treated variously as a distinct species, or as a synonym or variety of *F. gaudichaudii*.

Daniels & Daniel (2008b) considered the taxon sufficiently distinct as to merit recognition as a species.

Frullania debilis Steph. ex S.Hatt.

- Pondicherry, collector unknown, Hb. Sande Lac. (G-14403) [Hattori 1974: 192].
Frullania delavayi Steph. = *Frullania inflexa* Mitt. [Hattori 1975a]
Frullania densifolia Steph. = *Frullania apiculata* (Reinw., Blume & Nees) Dumort. [Hattori 1972]

Frullania densiloba Steph. ex A.Evans

- Nilgiris, Ootacamund, Dodabetta peak, ca 8000 ft., 2001, P.K. Verma & A. Alam 13453/2001, 13477/2001 (LWU) [Srivastava & Alam 2002].

Frullania ericoides (Nees) Mont.

- Neel-Gherries, Perrottet s.n. [Montagne 1842b: 14 as *F. aelotis* var. *squarrosa*].
- Kotagiri, Sedgwick, 1916, 375, 376; Shembaganur, Foreau, 1934, 2145 [Chopra 1938: 248, as *F. squarrosa*].
- Kodaikanal, Dec 1970–Jan 1971, K.P. Singh s.n., as *F. ericoides* [Udar & Nath 1971: 638]. Botanical Gardens, Ootacamund, 29 Dec 1965, R. Udar & S.C. Srivastava L00107; towards Avalanche, 2 Jan 1972, R. Udar L00112, L00114 (LWU); Naduvattum, 3 Jan 1972, R. Udar L00113 (LWU); Dodabetta Peak, 5 Jan 1972, Udar, 5 collections (LWU); Coonoor, 23 Aug 1984, Chandra & V. Nath 204150 (LWG); near observatory, Kodaikanal, 5 Jan 1966, R. Udar & S.C. Srivastava L00103 (LWU); lakeside, Kodaikanal, 28 Aug 1984, Chandra & V. Nath 204248 (LWG); Bryant Park, Kodaikanal, 29 Aug 1984, Chandra & V. Nath 204278 (LWG) [Nath & Asthana 1998: 71, as *F. squarrosa*].
- Kanyakumari Dist., W. Ghats, Velimalai, ca 500 m., 17 June 2000, Daniels 897 (SCCN); Tirunelveli Dist., W. Ghats, Agasthyamalai, Chengaltheri, ca 650 m., 29 Aug 1995, Daniels 6 (SCCN) [Daniels 2003].

Frullania evoluta Mitt.

- Shembaganur, Foreau, 1932, 104, 2148; Kodaikanal, Foreau, 1935, 2149 [Chopra 1938: 248].
 - Kodaikanal, Dec 1970–Jan 1971, K.P. Singh s.n. [Udar & Nath 1971: 638]. To be clarified: Hattori (1974) commented on previous mis-identifications of this species, and observed that *F. evoluta* is close to *F. apiculata*. Nath & Asthana (1998) do not mention *F. evoluta*.
- Frullania galeata* (Reinw., Blume & Nees) Dumort. = *Frullania riojaneirensis* (Raddi) Spruce [Yuzawa 1991]
Frullania gaudichaudii (Nees & Mont.) Gottsche, Lindenb. & Nees var. *ceylanica* S.Hatt. = *Frullania gaudichaudii* (Nees & Mont.) Gottsche, Lindenb. & Nees [Hattori & Lin 1985] = *Frullania ceylanica* Nees [Daniels & Daniel 2008b]

Frullania gaudichaudii (Nees & Mont.) Nees & Mont. var. ***gaudichaudii***

- Madras, Wight s.n. [Mitten 1861: 121, as *F. recurvata*; Hattori 1975a: 78, under *F. recurvata*]. Not certainly from within Tamil Nadu.

Frullania gracillima sensu Chopra 1938, probably = *Frullania polyptera* [Bapna & Kachroo 2000b]
Frullania hampeana Nees var. *acutiloba* (Mitt.) S.Hatt. = *Frullania acutiloba* Mitt. [Bapna & Kachroo 2000b]
Frullania hutchinsiae var. β (Nees) Nees = *Jubula hutchinsiae* (Hook.) Dumort. subsp. *javanica* (Steph.) Verd. [Guerke 1978]

Frullania indica Steph. = *Frullania arecae* (Spreng.) Gottsche [Yuzawa 1991]

Frullania inflexa Mitt.

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, Daniels 1394 (SCCN) [Daniels 2003].
Frullania moniliata (Reinw., Blume & Nees) Mont. subsp. *obscura* Verd. = *Frullania tamarisci* (L.) Dumort. subsp. *obscura* (Verd.) S.Hatt. [Crandall-Stotler et al. 1987]

Frullania muscicola Steph.

- Botanical Garden, Ootacamund, 1 Jan 1972, R. Udar L0042 (LWU); upper Bhawani, Ootacamund, 2 Jan 1972, R. Udar L0043 (LWU); on way to Avalanche, 2 Jan 1972, R. Udar L0044; Dodabetta Peak, 5 Jan 1972, R. Udar L0040; near Pillar rock and near observatory, Kodaikanal, 29 Aug 1984, Chandra & V. Nath 204244, 204258 (LWG); Dodabetta Peak, 24 Aug 1984, S. Chandra & V. Nath 204179, 204189 (LWG); Oothu (Dindigul), 29 Aug 1984, S. Chandra & V. Nath 204302 (LWG) [Nath & Asthana 1998: 77].

- Kanyakumari Dist., W. Ghats, Klamalai, ca 450 m., 18 Oct 1999, *Daniels* 730, 773 (SCCN) [Daniels 2003].

***Frullania neurota* Taylor**

- Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh s.n.* [Udar & Nath 1971: 638].
 – Kodaikanal, 5 Jan 1966, *R. Udar & S.C. Srivastava L00787* (LWU); Bryant Park, 4 Jan 1966, *R. Udar & S.C. Srivastava L0084, L0085, L0086* (LWU); Dodabetta Peak, 4, 5 Jan 1972, *R. Udar*, 9 collections (LWU); Dodabetta, 24 Aug 1984, *Chandra & V. Nath 201485B* (LWG) [Nath & Asthana 1998: 66].

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

- Madras, *Wight s.n.* [Mitten 1861: 121]. Not certainly from within Tamil Nadu.

***Frullania polyptera* Taylor**

- in peninsula, Madras (*No. "1530"*), type of *F. subinflata* [Mitten 1861: 119].
 – Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh s.n.*, as *F. gracillima* [Udar & Nath 1971: 638].
 – Madras (*No. 1430 -NY*); Montes Nilgiri, St Katherine's Falls, 12 July 1907, *Rev. Sethy s.n.*, Hb. Levier 6128, type of *F. pyriflora* (G-14555) [Hattori 1974: 210]. Hattori (1974) observed the discrepancy in numbering in respect of *F. subinflata*: in his original description, Mitten (1961) cited no. 1530, but the presumed type in Mitten's herbarium in NY is numbered 1430. Noted also that the Rev. Sethy's collection (G-14555) is treated under *F. campanulata* by Nath & Asthana (1981).

Frullania pyriflora Mitt. = *Frullania polyptera* Taylor [Hattori 1974]

***Frullania ramuligera* (Nees) Mont.**

- Neel-Gherries, *Perrottet s.n.* [Montagne 1842b: 14]. The specimen reported in Montagne (1842b) appears not to have been studied since publication. The species is known from Sri Lanka (Onreadt 1981) and E. Asia.

Frullania recurvata Lehm. & Lindenb. = *Frullania gaudichaudii* (Nees & Mont.) Nees & Mont. [Hattori 1975a]

***Frullania riojaneirensis* (Raddi) Spruce**

- W. Ghats, Nilgiri Hills, Pandalur (Gudalur), ca 1300 m., 28 Sep 2002, *P.K. Verma & A. Alam 16074/02* (LWU) [Srivastava & Alam 2004].

***Frullania serrata* Gottsche**

- Kodaikanal, *Foreau*, 1922/23, 2150; Shembaganur, *Rupinat*, 1931, 2151 [Chopra 1938: 249].
 – Kodaikanal, *Foreau*, Jan 1933 (G-15967), det. Verdoorn [Nath & Asthana 1998: 67].

Frullania squarrosa Gottsche = *Frullania ericoides* (Nees) Mont. [Grolle 1968b]

Frullania striata (Lehm. & Lindenb.) Mont. = *Ptychanthus striatus* (Lehm. & Lindenb.) Nees [Verdoorn 1934]

Frullania stricta (F.Weber) Lindenb. = *Frullania serrata* Gottsche [Vanden Berghe 1976]

Frullania subinflata Mitt. = *Frullania polyptera* Taylor [Hattori 1974]

***Frullania tamarisci* (L.) Dumort. var. *obscura* (Verd.) S.Hatt.**

- Dodabetta, as *F. moniliata*; near Kaitie, Dec 1840, *Perrottet s.n.*, as *F. obscura* [Montagne 1842b: 13-14].
 – in montibus Nilgiri, *Perrottet* [Mitten 1861: 122, as *F. moniliata*].
 – Kodaikanal, *Foreau*, 1934, 2152 [Chopra 1938: 249].
 – Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh s.n.* [Udar & Nath 1971: 638].
 – Avalanche, 2 Jan 1972, *R. Udar*, 12 collections (LWU); Naduvattum, 3 Jan 1972, *R. Udar L00173* (LWU); Dodabetta peak, 5 Jan 1972, 13 collections (LWU); Dodabetta road, 24 Aug 1984, *Chandra & V. Nath*, 8 collections (LWG); Kodaikanal, 5 Jan 1966, *R. Udar & S.C. Srivastava L00155, L00162* (LWU) [Nath & Asthana 1998: 68, variety not differentiated].
 – Tirunelveli Dist., W. Ghats, Agasthyamalai peak, ca 1800 m., 27 Apr 2002, *Daniels 2167, 2168* (SCCN) [Daniels 2003, variety not differentiated].

Frullania wallichiana Steph. = *Frullania arecae* (Spreng.) Gottsche [Hattori & Lin 1985]

Frullanoides riojaneirensis Raddi = *Frullania riojaneirensis* (Raddi) Spruce [Yuzawa 1991]

***Frullanoides tristis* (Steph.) van Slageren**

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- Nilgiri Mountains, *Strachys s.n.* (NY, U) [Slageren 1985]. *F. liebmanniana* (Lindenb. & Gottsche) van Slageren is confined to the neotropics (Gradstein 1994), and all records from India of that species should be referred to *F. tristis*.
Fysonia tenera Kashyap = *Riccia fluitans* L. [Bapna & Kachroo 2000b]
Gollaniella pusilla Steph. = *Athalamia pusilla* (Steph.) Kashyap [Shimizu & Hattori 1954]
- Gongylanthes indicus** S.C.Srivast. & P.K. Verma
– Nilgiri hills, Naduvattam, 30 Sep 2002, P.K. Verma & A. Alam 16165/2002, holotype (LWU) [Srivastava & Verma 2005].
Gottschea aligera Nees = *Schistochila aligera* (Nees & Blume) J.B.Jack & Steph. [cf. Grolle & Zijlstra 1984]
- Gottschelia schizopleura** (Spruce) Grolle
– Avalanche (Nilgiri Hill), 2439 m., 2 Jan 1972, R. Udar & V. Nath 55S/72 (LWU) [Udar & Kumar 1982a: 253].
Harpalejeunea indica Steph. = *Lejeunea neelgherriana* Gottsche [Grolle & Reiner-Drehwald 1999]
- Herbertus dicranus** (Taylor ex Gottsche, Lindenb. & Nees) Trevis.
– Neel-Gherries, *Perrottet s.n.*, holotype of *Schisma juniperina* var. *sanguinea* (PC) [Montagne 1842b: 12; Miller 1965: 308].
– Nilgherries, *Perrottet s.n.*, Hb. Cardot 89, type of *Schisma nilgheriense* (G) [Miller 1965: 308].
– Nilgiris, Dodabettia, 8765 p. – 2670 m., 12 Sep 1907, *Rev. B. Lüthi s.n.*, Hb. Levier 6140 [G-012125], as *Schisma pinnatum* (lectotype: G) [Udar & Srivastava 1977; Juslén 2006: 397].
– Nilgiris, Dodabettia, *Pfleiderer s.n.* (G) [Udar & Srivastava 1977, as *Herbertus pinnatus*]. The label annotation '8765 p.' must be interpreted as 8765 ped. = ft.
Herbertus nilgeriensis (Steph.) H.A.Mill. = *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. & Nees) Trevis. [Miller 1965; Juslén 2006]
Herbertus pinnatus (Steph.) H.A.Mill. = *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. & Nees) Trevis. [Juslén 2006]
Herbertus sanguineus (Mont.) Austin = *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. & Nees) Trevis. [Juslén 2006]
- Heteroscyphus argutus** (Reinw., Blume & Nees) Schiffn.
– Neel-Gherries [Montagne 1842b: 12, as *Lophocolea arguta*].
– Kotagiri, Sedgwick, 1916, 322, 333 [Chopra 1938: 246].
– Kanyakumari Dist., W. Ghats, Mahendragiri, ca 450 m., 5 Aug 1995, Daniels 4 (SCCN) [Daniels 2001].
– Ootacamund, Perumalmalai, Kodaikanal and Shembaganur, Sep–Oct 1983, R. Udar et al., many collections (LWU) [Srivastava & Srivastava 2002: 129].
- Heteroscyphus orbiculatus** A.Srivast. & S.C.Srivast.
– Perumalmalai, Palni hills, 29 Sep 1983, R. Udar et al. 7403/83, holotype (LWU). [Srivastava & Srivastava 2002: 142].
- Heteroscyphus palniensis** A.Srivast. & S.C.Srivast.
– Kodaikanal, Palni hills, 4 Jan 1966, R. Udar et al. 246/66, holotype (LWU). [Srivastava & Srivastava 2002: 130].
- Heteroscyphus perfoliatus** (Mont.) Schiffn.
– Neel-Gherries, circa Ootacamund, *Perrottet s.n.*, type of *Lophocolea perfoliata* (FH, G) [Montagne 1842b: 12; Mitten 1861: 100, as *Chiloscyphus perfoliatus*; Srivastava et al. 1989: 560].
- Jackiella ceylanica** Schiffn. ex Steph.
– Kodaikanal, Palni Hills, 6 Jan 1966, R. Udar & S.C. Srivastava 79/66, 95/66 (LWU) [Udar & Kumar 1982b: 134].
- Jackiella javanica** Schiffn. var. *cordifolia* Schiffn.
– Wellington, Nilgiri Hills, 31 Dec 1971, R. Udar & party 375/71 (LWU); Dodabettia, Nilgiri Hills, 5 Jan 1972, R. Udar & party, 184/72 (LWU) [Udar & Kumar 1982b: 136].
Jamesoniella microphylla (Nees) Schiffn. = *Gottschelia schizopleura* (Spruce) Grolle [Grolle 1971]
Jamesoniella subulata (A.Evans) Steph. = *Jungermannia subulata* A.Evans [Grolle 1971]

Jubula gaudichaudii Nees & Mont. = *Frullania gaudichaudii* (Nees & Mont.) Gottsche, Lindenb. & Nees
[Hattori 1982]

Jubula hattorii Udar & V. Nath

– Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1200 m., 17 May 2002, *Daniels* 2231 p.p.
(MH, SCCN) [Daniels 2003].

Jubula hutchinsiae (Hook.) Dumort. subsp. *javanica* (Steph.) Verd.

– Neel-Gherries [Montagne 1842b: 14, as *Frullania hutchinsiae* var. β].

– Kodaikanal, Foreau, 1934, 2153 [Chopra 1938: 249, as *Jubula hutchinsiae*].

Jubula hutchinsiae (Hook.) Dumort. = *Jubula hutchinsiae* (Hook.) Dumort. subsp. *javanica* (Steph.) Verd.
[Guerke 1978; Grolle & Piippo 1984]

Jubula javanica Steph. = *Jubula hutchinsiae* (Hook.) Dumort. subsp. *javanica* (Steph.) Verd. [Guerke 1978;
Grolle & Piippo 1984]

Jungermannia aligera Nees & Blume = *Schistochila aligera* (Nees & Blume) J.B.Jack & Steph. [So 2003a]

Jungermannia apiculata Reinw., Blume & Nees = *Frullania apiculata* (Reinw., Blume & Nees) Dumort.
[Hattori 1982]

Jungermannia arecae Spreng. = *Frullania arecae* (Spreng.) Gottsche [Yuzawa 1991]

Jungermannia arguta Reinw., Blume & Nees = *Heteroscyphus argutus* (Reinw., Blume & Nees) Schiffn.
[Piippo 1989]

Jungermannia auriculata Wilson & Hook. = *Mastigolejeunea auriculata* (Wilson & Hook.) Schiffn. [Schuster
1980]

Jungermannia campylophylla Lehm. & Lindb. = *Porella campylophylla* (Lehm. & Lindb.) Trevis. subsp.
campylophylla [Hattori 1978]

Jungermannia cavifolia Ehrh. = *Lejeunea cavifolia* (Ehrh.) Lindb. [Schuster 1980]

Jungermannia coadunata Sw. = *Chiloscyphus coadunatus* (Sw.) J.J.Engel & R.M.Schust. [Engel & Schuster
1985]

Jungermannia cucullata Reinw., Blume & Nees = *Metalejeunea cucullata* (Reinw., Blume & Nees) Grolle
[Grolle 1995]

Jungermannia elliptica Lehm. & Lindenb. = *Leptolejeunea elliptica* (Lehm. & Lindenb.) Schiffn. [Schuster
1980]

Jungermannia ericoides Nees = *Frullania ericoides* (Nees) Mont. [Grolle 1968b]

Jungermannia flava Sw. = *Lejeunea flava* (Sw.) Nees [Schuster 1980]

Jungermannia furcata L. = *Metzgeria furcata* (L.) Dumort. [Schuster 1992a]

Jungermannia heterophylla Schrad. = *Chiloscyphus profundus* (Nees) J.J.Engel & R.M.Schust. [Schuster
1980; Engel & Schuster 1985]

Jungermannia hutchinsiae Hook. = *Jubula hutchinsiae* (Hook.) Dumort. [Guerke 1978]

Jungermannia kiaerii Austin = *Cephaloziella kiaeri* (Austin) S.W.Arnell [Grolle 1995]

Jungermannia lutescens Lehm. = *Notoscyphus lutescens* (Lehm.) Mitt. [Grolle 1995]

Jungermannia lyellii Hook. = *Pallavicinia lyellii* (Hook.) S.Gray [Schuster 1992a]

Jungermannia minutissima Sm. = *Cololejeunea minutissima* (Sm.) Schiffn. [Grolle 1995]

Jungermannia multifida L. = *Riccardia multifida* (L.) S.Gray [Grolle 1995]

Jungermannia muricata Lehm. = *Chiloscyphus muricatus* (Lehm.) J.J.Engel & R.M.Schust. [Engel & Schuster
1985]

Jungermannia nilgiriensis A.Alam, A.Kumar et S.C.Srivast. = *Solenostoma nilgiriensis* (A.Alam, A.Kumar &
S.C.Srivast.) Váňa & D.G.Long [Váňa & Long 2009]

Jungermannia nodulosa Reinw., Blume & Nees = *Frullania nodulosa* (Reinw., Blume & Nees) Nees [Grolle
1995].

Jungermannia pinguis L. = *Aneura pinguis* (L.) Dumort. [Schuster 1992a]

Jungermannia polycarpa Nees = *Schiffnerolejeunea polycarpa* (Nees) Gradst. [Gradstein 1974]

Jungermannia purpurata Mitt. = *Solenostoma purpuratum* (Mitt.) Steph. [Stephani 1901]

Jungermannia pusilla L. = *Fossombronia pusilla* (L.) Dumort. [Schuster 1992a]

Jungermannia ramuligera Nees = *Frullania ramuligera* (Nees) Mont. [Verdoorn 1930]

Jungermannia riojaneirensis Raddi = *Frullania riojaneirensis* (Raddi) Spruce [Yuzawa 1991]

Jungermannia schizopleura Spruce = *Gottschelia schizopleura* (Spruce) Grolle [Grolle 1968a]

Jungermannia semidecurrans Lehm. & Lindenb. = *Plagiochila semidecurrans* (Lehm. & Lindenb.) Lehm. &
Lindenb. [Inoue 1965]

Jungermannia semirepanda Nees = *Spruceanthus semirepandus* Nees [Verdoorn 1934; Mizutani 1961]

Jungermannia sphaerocarpum (Hook.) Steph. = *Solenostoma sphaerocarpum* (Hook.) Steph. [Schuster 2002]

Jungermannia striata Lehm. & Lindenb. = *Ptychanthus striatus* (Lehm. & Lindenb.) Nees [Verdoorn 1934]

Jungermannia subfusca Nees = *Lopholejeunea subfusca* (Nees) Schiffn. [Zhu & Gradstein 2005]

- Jungermannia subulata* A.Evans = *Liocleana subulata* (A.Evans) Schljakov [Hentschel *et al.* 2007]
Jungermannia tamarisci L. = *Frullania tamarisci* (L.) Dumort. subsp. *obscura* (Verd.) S.Hatt. [Crandall-Stotler *et al.* 1987]
Jungermannia tetragona Lindenb. = *Solenostoma tetragonum* (Lindenb.) R.M.Schust. [Schuster 2002]
Jungermannia tomentella Ehrh. = *Trichocolea tomentella* (Ehrh.) Dumort. [Schuster 1966]
Jungermannia trapezia Nees = *Cheilolejeunea trapezia* (Nees) Kachroo & R.M.Schust. [Zhu & Grolle 2004]
Jungermannia tridens Reinw., Blume & Nees = *Bazzania tridens* (Reinw., Blume & Nees) Trevis. [Mizutani 1967]
Jungermannia truncata Nees = *Solenostoma truncatum* (Nees) R.M.Schust. [Schuster 2002]
Jungermannia ulicina Taylor = *Microlejeunea ulicina* (Taylor) A.Evans [Schuster 1980]
Jungermannia wondraczekii Corda = *Fossombronia wondraczekii* (Corda) Dumort. ex Lindb. [Schuster 1992a]
Jungermannia xanthocarpa Lehm. & Lindenb. = *Leucolejeunea xanthocarpa* (Lehm. & Lindenb.) A.Evans [Schuster 1980]
Lejeunea angustifolia Mitt. = *Drepanolejeunea angustifolia* (Mitt.) Grolle [Udar & Awasthi 1982b]
Lejeunea brittoniae (A.Evans) Grolle = *Lejeunea phyllobola* Nees & Mont. [Reiner-Drehwald 2000]
Lejeunea cardiocarpa Mont. = *Cololejeunea cardiocarpa* (Mont.) A.Evans [Zhu & So 2001]
- Lejeunea cavifolia*** (Ehrh.) Lindb.
– Kotagiri, Sedgwick, 1916, 226; Kodaikanal, Foreau, 1934, 2163 [Chopra 1938: 250]. The presence of this species south of the Himalayas should be re-assessed.
Lejeunea cucullata Nees, sensu Mitten (1861) – identity uncertain.
- Lejeunea discreta*** Lindenb.
– Kodaikanal, 1909, G. André s.n., syntype of *L. stahliana* (G-14272) [Mizutani 1971: 448].
- Lejeunea flava*** (Sw.) Nees
– Kotagiri, Sedgwick, 1916, 225, 266; Shembaganur, Rupinat, 1931, 2162 [Chopra 1938: 250].
Lejeunea hasskarliana Lehm. & Lindenb. = *Cololejeunea hasskarliana* (Lehm. & Lindenb.) Schiffn. [Zhu & So 2001]
Lejeunea inflexa Hampe ex Mont. [non Spruce] = *Lejeunea neelgherriana* Gottsche [Grolle 1979]
Lejeunea intertexta Lindenb. = *Cheilolejeunea intertexta* (Lindenb.) Steph. [Asthana *et al.* 1995]
Lejeunea krakakammae Lindenb. = *Cheilolejeunea krakakammae* (Lindenb.) R.M.Schust. [Zhu 2006]
Lejeunea laeviuscula Mitt. = *Cheilolejeunea laeviuscula* (Mitt.) Steph. [Asthana *et al.* 1995]
- Lejeunea lowiana*** Steph.
– Kotagiri, Sedgwick, 1916, 224 [Chopra 1938: 250].
Lejeunea maculata Mitt. = *Leptolejeunea maculata* (Mitt.) Schiffn. [Zhu & So 2001]
Lejeunea madagascariensis Nees & Mont. = *Porella madagascariensis* (Nees & Mont.) Trevis. [Hattori 1978]
Lejeunea mariana Gottsche = *Cheilolejeunea mariana* (Gottsche) B.Thiers & Gradst. [Thiers & Gradstein 1989]
Lejeunea minutissima (Sm.) Dumort. = *Cololejeunea minutissima* (Sm.) Schiffn. [Schuster 1980]
- Lejeunea neelgherriana*** Gottsche
– Neel-Gherries (in montibus Nilgiriensis), Perrottet s.n., (holo)type (?G) [Montagne 1842b, as *Lejeunea inflexa?*; Mitten 1861: 115, as *Lejeunea nilgiriana*].
Lejeunea olivacea (Steph.) Steph. [non (Hook.f. & Taylor) Gottsche *et al.*] = *Lejeunea subolivacea* Mizut. [Mizutani 1965]
- Lejeunea perrottetii*** Steph.
– Nilgiri hills, Perrottet s.n. (G), holotype [Stephani 1917: 785].
- Lejeunea phyllobola*** Nees & Mont.
– Avalanche, 2 Jan 1972, R. Udar & S.C. Srivastava 805/72 (LWU) [Srivastava & Agarwal 1986, as *Rectolejeunea brittoniae*].
Lejeunea planissima Mitt. = *Cololejeunea planissima* (Mitt.) Abeyw. var. *planissima* [Zhu & So 2001]
Lejeunea polycarpa Nees = *Schiffnerolejeunea polycarpa* (Nees) Gradst. [Gradstein 1994]
Lejeunea repleta Taylor = *Mastigolejeunea repleta* (Taylor) A.Evans [Gradstein *et al.* 2002]
Lejeunea semirepanda (Nees) Mitt. = *Spruceanthus semirepandus* Nees [Zhu & So 2001]
Lejeunea serpentina Mitt. = *Cheilolejeunea serpentina* (Mitt.) Mizut. [Asthana *et al.* 1995]
- Lejeunea subolivacea*** Mizut.
– Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, Daniels 1433 p.p. (MH, SCCN) [Daniels 2003]. Srivastava & Agarwal (1986) cite a collection by Wight from "India Orient", which might have been from Tamil Nadu.
Lejeunea ternatensis Gottsche = *Drepanolejeunea ternatensis* (Gottsche) Steph. [Udar & Awasthi 1982b]

Lejeunea trapezia (Nees) Gottsche, Lindenb. & Nees = *Cheilolejeunea trapezia* (Nees) Kachroo & R.M.Schust. [Zhu & Grolle 2004]

Lejeunea tristis Steph. = *Frullanoides tristis* (Steph.) van Slageren [Slageren 1985]

***Lejeunea tuberculosa* Steph.**

- Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1250 m., 19 Apr 2002, *Daniels 2003* p.p. (MH, SCCN) [Daniels 2003].

Lejeunea ulicina (Taylor) Taylor = *Microlejeunea ulicina* (Taylor) A.Evans [Schuster 1980]

***Lejeunea wightii* Lindenb.** Madura (no details) [Mizutani 1964: 148]. Original source literature for the Tamil Nadu record has not been found.

***Lepidozia erosa* Steph.**

- Kodaikanal (Madura), 1909, *G. André s.n.* (G-10813) [Sharma & Srivastava 1993: 62].

***Lepidozia reptans* (L.) Dumort.**

- Perumalmalai, *Foreau*, 1932, 2139; Shembaganur, *Rupinat*, 2140 [Chopra 1938: 246, as *L. tridens*].

Lepidozia tridens Steph. = *Lepidozia reptans* (L.) Dumort. [Sharma & Srivastava 1993]

Leptocolea appressa A.Evans = *Cololejeunea appressa* (A.Evans) Benedix [Zhu & So 2001]

Leptocolea ceratilobula P.C.Chen = *Cololejeunea ceratilobula* (P.C.Chen) R.M.Schust. [Zhu & So 2001]

Leptocolea furcilibulata Berrie & E.W.Jones = *Cololejeunea furcilibulata* (Berrie & E.W.Jones) R.M.Schust. [Schuster 1963]

Leptocolea himalayensis Pandé & Misra = *Cololejeunea latilobula* (Herzog) Tixier [Zhu & So 2001]

Leptocolea lanciloba (Steph.) A.Evans = *Cololejeunea lanciloba* Steph. [Zhu & So 2001]

Leptocolea latilobula Herzog = *Cololejeunea latilobula* (Herzog) Tixier [Zhu & So 2001]

Leptocolea pseudofloccosa Horik. = *Cololejeunea pseudofloccosa* (Horik.) Benedix [Zhu & So 2001]

***Leptolejeunea balansae* Steph.**

- Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1250 m., 9 Nov 2001, *Daniels 1802* (MH, SCCN) [Daniels & Daniel 2004].

Leptolejeunea dapitana Steph. = *Leptolejeunea elliptica* (Lehm. & Lindenb.) Schiffn. [Awasthi 1986; Zhu & So 2001]

***Leptolejeunea elliptica* (Lehm. & Lindenb.) Schiffn.**

- Kodaikanal, 17 Dec 1971, *K.P. Singh 323/71* (LWU) [Awasthi 1986: 123].
- Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1250 m., 19 Apr 2002, *Daniels 1609, 1611* (SCCN) [Daniels 2003].

***Leptolejeunea maculata* (Mitt.) Schiffn.**

- Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1250 m., 26 Jan 2001, *Daniels 1331, 1335, 1336, 1337* (MH, SCCN) [Daniels 2003].

Leptolejeunea schiffneri (Steph. in Schiffn.) Steph. 1896 [Hedwigia 35: 107] = *Leptolejeunea maculata* (Mitt.) Schiffn. [Zhu & So 2001]

Leptolejeunea schiffneri Steph. [sensu Pandé et al., J. Indian Bot. Soc. 36: 338. 1957] = *Leptolejeunea subacuta* Steph. [Awasthi 1986]

Leptolejeunea sikkimensis Udar & U.S.Awasthi = *Drepanolejeunea sikkimensis* (Udar & U.S.Awasthi) Grolle [Grolle 1984]

Leptolejeunea subacuta Steph. ex A.Evans = *Leptolejeunea elliptica* (Lehm. & Lindenb.) Schiffn. [Zhu & So 2001]

***Lethocolea javanica* (Schiffn.) Grolle**

- Mukurty, Ootacamund, 27 Sep 1983, *R. Udar et al. 7108/83, 7118/83* (LWU) [Udar & Kumar 1986: 104].

***Leucolejeunea xanthocarpa* (Lehm. & Lindenb.) A.Evans**

- Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh 5362/70-71* (LWU) [Udar & Nath 1971: 638; Udar & Awasthi 1983].

- Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh s.n.* [Udar & Nath 1976].

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1394* (SCCN) [Daniels 2003].

***Liocleanea subulata* (A.Evans) Schljakov**

- Madura, *Pfleiderer s.n.*, det. F. Stephani, as *Solenostoma purpuratum* (PC); Nilgherries, 1836, *Perrottet s.n.*, det. F. Stephani, as *J. stephanii* (G-14747) [Váňa 1973: 406].

Lophocolea (Dumort.) Dumort. In this checklist, species of *Lophocolea* are assigned to *Chiloscyphus* in line with recent molecular studies (He-Nygren & Piippo 2003, Hentschel *et al.* (2006). However, this assignment is not universally accepted, and there may be a case for retaining *Lophocolea* as a distinct genus (Crandall-Stotler *et al.* 2008).

Lophocolea bidentata (L.) Dumort. = *Chiloscyphus coadunatus* (Sw.) J.J.Engel & R.M.Schust. [Schumacker & Váňa 2005]

Lophocolea cuspidata (Nees) Limpr. = *Chiloscyphus coadunatus* (Sw.) J.J.Engel & R.M.Schust. [Schumacker & Váňa 2005]

Lophocolea heterophylla (Schrad.) Dumort. = *Chiloscyphus profundus* (Nees) J.J.Engel & R.M.Schust. [Engel & Schuster 1985]

Lophocolea muricata (Lehm.) Nees = *Chiloscyphus muricatus* (Lehm.) J.J.Engel & R.M.Schust. [Engel & Schuster 1985]

Lophocolea perfoliata Mont. = *Heteroscyphus perfoliatus* (Mont.) Schiffn. [Srivastava & Srivastava 2002]

Lophocolea velleana Steph. = *Chiloscyphus coadunatus* (Sw.) J.J.Engel & R.M.Schust. [Srivastava & Srivastava 2002]

***Lopholejeunea subfuscata* (Nees) Schiffn.**

– Madras, *Wight s.n.* [Mitten 1861: 110, as *Lejeunea subfuscata*].

– Kodaikanal, 1909, *André s.n.* [Verdoorn 1934: 82].

– Kodaikanal, *Foreau*, 1934, 2157; Kotagiri, *Sedgwick*, 1916, 233-237 [Chopra 1938: 249].

– Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1387* (SCCN) [Daniels 2003].

***Lunularia cruciata* (L.) Dumort.**

– Madras, *Iyengar*, 1922, Bh. 18 (1a); Ootacamund, *Iyengar*, 1922, Bh. 18 (1b) [Chopra 1938: 242].

– Ootacamund (details not known) [Singh & Singh 1969].

Madotheca acutifolia Lehm. & Lindenb. = *Porella acutifolia* (Lehm. & Lindenb.) Trevis. [Hattori 1978]

Madotheca caespitans Steph. = *Porella caespitans* (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt. [Hattori 1978]

Madotheca campylophylla (Lehm. & Lindb.) Gottsche = *Porella campylophylla* (Lehm. & Lindb.) Trevis. subsp. *campylophylla* [Hattori 1978]

Madotheca cordifolia Steph. = *Porella caespitans* (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt. [Hattori 1978; 1979]

Madotheca denticulata Kashyap & R.S.Chopra = *Porella campylophylla* (Lehm. & Lindb.) Trevis. subsp. *campylophylla* [Hattori 1978]

Madotheca indica Steph. = *Porella campylophylla* (Lehm. & Lindb.) Trevis. subsp. *campylophylla* [Hattori 1978]

Madotheca irregularis Steph. = *Porella chinensis* (Steph.) S.Hatt. var. *irregularis* (Steph.) S.Hatt. [Hattori 1975b]

Madotheca lancistipula Steph. = *Porella campylophylla* (Lehm. & Lindb.) Trevis. subsp. *lancistipula* (Steph.) S.Hatt. [Hattori 1978]

Madotheca madagascariensis (Nees & Mont.) Nees = *Porella madagascariensis* (Nees & Mont.) Trevis. [Hattori 1978]

Madotheca madurensis Steph. = *Porella campylophylla* (Lehm. & Lindb.) Trevis. subsp. *campylophylla* [Hattori 1978]

Madotheca nilgheriensis Mont. = *Porella madagascariensis* (Nees & Mont.) Trevis. [Hattori 1978]

Madotheca perrottetiana Mont. = *Porella perrottetiana* (Mont.) Trevis. var. *perrottetiana* [Hattori 1978]

Madotheca plumosa Mitt. = *Porella plumosa* (Mitt.) Inoue [Hattori 1978]

Madotheca setigera Steph. = *Porella caespitans* (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt. (Hattori 1978; 1979)

***Mannia foreaui* Udar & V. Chandra**

– Kodaikanal, Beruliar, along railway track, Sep 1962, *V. Chandra & S. Chandra B5745* (holotype), *B5746-48* (isotypes) (LWU) [Udar & Chandra 1965: 150]. Endemic to India.

Marchantia cruciata L. = *Lunularia cruciata* (L.) Dumort. [Schuster 1992b]

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

– Nilgiris, *Rangachariar*, 1916, Bh. 24 (3d); Kodaikanal, *Rangachariar*, Bh. 24 (2f); Negapatam, *Mrs Robinson*, 1928, 591; Palni Hills, *Mrs Robinson*, 1929, 964 [Chopra 1938: 242, all as *M. palmata*]. To be clarified: *M. palmata* is a synonym of *M. emarginata* subsp. *emarginata*, and

Bischler-Causse (1989) included Tamil Nadu in the distribution of the latter species on the basis of at least one Chopra record of *M. palmata*. However, she also remarked that all the Indian specimens she had seen named as *M. palmata* - for example, that "those cited in Kashyap (1929), Chopra (1943) and Singh (1966), belonged to *M. papillata* subsp. *grossibarbara*, except for the specimen from Tamil Nadu drawn by Srinivasan (1939 [1940]), which is of *M. pappeana* subsp. *robusta*". Srinivasan commented that "*M. palmata*" was very common around Ootacamund. Bischler-Causse (1989) confirmed *M. emarginata* subsp. *emarginata* from the neighbouring states of Karnataka and Kerala.

Marchantia hemisphaerica L. = *Reboulia hemisphaerica* (L.) Raddi [Schuster 1992b]

Marchantia hirsuta Sw. = *Dumortiera hirsuta* (Sw.) Nees [Schuster 1992b]

Marchantia indica Kashyap ex R.S.Chopra, nom. inval. = *Marchantia pappeana* Lehm. subsp. *robusta* Steph. [Bischler-Causse 1989]

Marchantia kashyapii Udar & Shaheen [replacement name for *M. indica*] = *Marchantia pappeana* Lehm. subsp. *robusta* Steph. [Bischler-Causse 1989]

Marchantia nepalensis Lehm. & Lindenb. = *Marchantia paleacea* Bertol. subsp. *paleacea* [Bischler-Causse 1989]

Marchantia nitida Lehm. & Lindenb. = *Marchantia paleacea* Bertol. subsp. *paleacea* [Bischler-Causse 1989]

Marchantia paleacea* Bertol. subsp. *paleacea

– propre Katie, *Perrottet* [Montagne 1842b: 16, as *M. nitida*].

– Madras, *Iyengar*, 1932, Bh. 24 (xc) [Chopra 1938: 242, as *M. nepalensis*].

Marchantia palmata Reinw., Blume & Nees = *Marchantia emarginata* Reinw., Blume & Nees subsp. *emarginata* [Bischler-Causse 1989]

***Marchantia pappeana* Lehm. subsp. *robusta* (Steph.) Bischl.**

– Madras, *Iyengar*, 1922, Bh. 24 (x, xa); Kotagiri, *Sedgwick*, 1915, 97; Ootacamund, collected by the curator of the Botanical Gardens, 1935, 2121 [Chopra 1938: 243, as *M. indica*].

– Ootacamund, Oct 1962, *R. Udar & V. Chandra s.n.* (?LWU) [Udar & Chandra 1964a: 254, as *M. cf. grisea*].

– Ootacamund, Oct 1962, *R. Udar & party* 334, holotype of *M. kashyapii* (LWU); Tamil Nadu, *Eisfelder s.n.*, Hb. Levier 574 (G); *Perrottet s.n.*, 1840 (G, PC), *Foreau 12* (FH, NICH) [Bischler-Causse 1989: 137, as *M. robusta*]. Collections of "*M. nitida*" by *Perrottet* (BM, G, NY, PC) are considered by Bischler-Causse (1989) to belong to *M. pappeana* subsp. *robusta*. This presumably includes the specimen from Kaitie listed in Montagne (1842b).

***Marchantia papillata* Raddi subsp. *grossibarba* (Steph.) Bischl.**

– Tamil Nadu, 1932, *Foreau s.n.* (FH) [Bischler-Causse 1989: 215].

***Marchantia polymorpha* L.**

– Kotagiri, *Rangachariar*, 1916, Bh. 24 (3d); Madras, *Iyengar*, 1922, Bh. 24 (3d-g); Negapatam, *Mrs Robinson*, 1928, 591; Kodaikanal, *Rupinat*, 1932, 2120 [Chopra 1938: 242].

– Tamil Nadu, *Beddome 53* (BM, NY) [Bischler-Causse 1989: 81].

Marchantia robusta Steph. = *Marchantia pappeana* Lehm. subsp. *robusta* Steph. [Bischler-Causse 1989]

Mastigobryum cardotii Steph. 1908 = *Bazzania tridens* (Reinw., Blume & Nees) Trevis. [Mizutani 1967]

Mastigobryum intermedium Lindenb. & Gottsche = *Bazzania intermedia* (Lindenb. & Gottsche) Trevis. [Grolle 1987]

Mastigobryum oblongum Mitt. = *Bazzania tridens* (Reinw., Blume & Nees) Trevis. [Mizutani 1967]

Mastigobryum oshimense Steph. = *Bazzania tridens* (Reinw., Blume & Nees) Trevis. [Inoue 1989]

Mastigobryum perrottetii Steph. = *Bazzania tricrenata* (Wahlenb.) Lindb. [Mizutani 1967]

Mastigobryum tridens Reinw., Blume & Nees = *Bazzania tridens* (Reinw., Blume & Nees) Trevis. [Mizutani 1967]

Mastigobryum trifidum Steph. = *Bazzania oshimensis* (Steph.) Horik. (Kitagawa 1967) = *Bazzania tridens* (Reinw., Blume & Nees) Trevis. [Inoue 1989]

Mastigolejeunea andreae Steph. = *Lopholejeunea subfusca* (Nees) Schiffn. [Mizutani 1961]

***Mastigolejeunea auriculata* (Wilson & Hook.) Schiffn.**

– Kanyakumari Dist., W. Ghats, Edaicode, ca 50 m., 9–10 June 2002, *G. Shilu 167A, 175* (SCCN); Tirunelveli Dist. Chengaltheri, ca 650 m., Aug 1995, *Daniels 5* (SCCN) [Daniels 2003].

***Mastigolejeunea auriculata* (Wilson & Hook.) Schiffn. var. *ciliata* (U.S.Awasthi & Udar)**

A.E.D.Daniels & P.Daniel

- Kanyakumari Dist., W. Ghats, Klamalai, ca 450 m., 18 Nov 1999, *Daniels* 792 (SCCN) [Daniels 2003; Daniels & Daniel 2007a].

Mastigolejeunea humilis (Gottsche) Schiffn. = *Mastigolejeunea auriculata* (Wilson & Hook.) Schiffn. [Thiers & Gradstein 1989]

Mastigolejeunea humilis (Gottsche) Schiffn. var. *ciliata* U.S.Awasthi & Udar = *Mastigolejeunea auriculata* (Wilson & Hook.) Schiffn. var. *ciliata* (U.S.Awasthi & Udar) A.E.D.Daniels & P.Daniel [Daniels & Daniel 2007a]

***Mastigolejeunea indica* Steph.**

- Tingershola, Nilgiris, *Foreau*, 1934, 2156 [Chopra 1938: 249].

***Mastigolejeunea repleta* (Taylor) A.Evans**

- Madras, *Dr Wight*, (Hook. Herb. ?holotype of *Lejeunea repleta*) (G-1924, isotype) [Taylor 1846: 392; Mitten 1861: 110, as *Lejeunea repleta*; Verdoorn 1934: 109; Kitagawa 1973: 268].
– Perumalmalai, *Foreau* 128 (NY) [Mizutani 1986: 285].

Metzgeria conjugata var. *japonica* (S.Hatt.) Kuwah. = *Metzgeria lindbergii* Schiffn. [So 2003b]

***Metzgeria consanguinea* Schiffn.**

- Botanical Garden, Ootacamund, 22 Oct 1962, *R. Udar & V. Chandra* 182/62, holotype of *M. nilgiriensis* [Srivastava & Udar 1975a; So 2003b: 160, under *M. nilgiriensis*].

***Metzgeria crassipilis* (Lindb.) A.Evans**

- Kodaikanal (Coaker's Walk), 4 Jan 1966, *R. Udar & S.C. Srivastava* 53/66, holotype of *M. indica* (LWU) [Udar & Srivastava 1971 [1970]].
– Kodaikanal (Bryant Park), 18 Oct 1962, *R. Udar & V. Chandra* 53/62, holotype of *M. pandei* (LWU) [Srivastava & Udar 1975a; So 2003b: 162, under *M. pandei*].

***Metzgeria furcata* (L.) Dumort.**

- Neel-Gherries [Montagne 1842b: 16].
– Shembaganur, *Foreau*, 1934, 2122 [Chopra 1938: 244].
– "India Orientalis", 1913, *Rev. P. Pfleiderer* 23, holotype of *M. lutescens* (G-009907) [Srivastava & Udar 1975a, as *M. lutescens*].
Metzgeria furcata (L.) Dumort. subsp. *crassipilis* Lindb. = *Metzgeria crassipilis* (Lindb.) A.Evans [So 2003b]
Metzgeria himalayensis Kashyap = *Metzgeria lindbergii* Schiffn. [So 2003b]
Metzgeria indica Udar & S.C.Srivast. = *Metzgeria crassipilis* (Lindb.) A.Evans [So 2003b]

***Metzgeria lindbergii* Schiffn.**

- Perumalmalai, *Foreau*, 1932, 2124 [Chopra 1938: 244, as *M. himalayensis*].
– W. Ghats, Palni Hills, Perumalmalai [Srivastava & Udar 1975a]. Not cited from Tamil Nadu in So (2003b).

Metzgeria lutescens Steph. = *Metzgeria furcata* (L.) Dumort. [So 2003b]

Metzgeria nilgiriensis S.C.Srivast. & Udar = *Metzgeria consanguinea* Schiffn. [So 2003b]

Metzgeria pandei S.C.Srivast. & Udar = *Metzgeria crassipilis* (Lindb.) A.Evans [So 2003b]

***Microlejeunea ulicina* (Taylor) A.Evans**

- Palni Hills, *Foreau*, 1934, 2123 [Chopra 1938: 250].
– Kanyakumari Dist., W. Ghats, Klamalai, ca 1250 m., 26 Jan 2001, *Daniels* 1332, 1433 (SCCN) [Daniels 2003].

***Notoscyphus darjeelingensis* Udar & A.Kumar**

- Coonoor, 1971, *R. Udar s.n.* [Udar & Kumar 1981: 252]. Endemic to India.

***Notoscyphus lutescens* (Lehm.) Mitt.**

- Palnis, W. Ghats, Kodaikanal, Periakulam, ca 6500 ft., Dec 1965 - Jan 1966, *R. Udar & S.C. Srivastava s.n.* [Udar & Srivastava 1975: 406].

***Notoscyphus pandei* Udar & A.Kumar**

- Wellington, Nilgiris, Dec 1971, *R. Udar s.n.* [Udar & Kumar 1981: 258]. Endemic to India.

***Notoscyphus paroicus* Schiffn.**

- Shembaganur, *Rupinat*, 2134, as *Saccogyna subalternifolia* [Chopra 1938: 245].
– Wellington, Nilgiris, Dec 1971, *R. Udar s.n.* [Udar & Kumar 1981: 259].

***Pallavicinia ambigua* (Mitt.) Steph.**

- Shembaganur, *Rupinat*, 2125 [Chopra 1938: 244].

Pallavicinia canara Steph. = *Pallavicinia lyellii* (Hook.) S.Gray [Grolle & Piippo 1986]

Pallavicinia crispata (Mont.) Steph. = *Pallavicinia lyellii* (Hook.) S.Gray [Grolle & Piippo 1986]

***Pallavicinia lyellii* (Hook.) S.Gray**

- Neel-Gherries, *Perrottet s.n.* [Montagne 1842b: 16, as *Diplolaena crispata*; Mitten 1861: 123, as *Steetzia crispata*].
- Kotagiri, Rangachariar, 1916, Bh. 30 (1); Negapatam, *Mrs Robinson*, 1929, 967; Palni Hills, *Mrs Robinson*, 1929, 967 [Chopra 1938: 244, as *P. crispatus*].
- Tirunelveli Dist., W. Ghats, Poonkulam, Agasthyamalai, ca 1100 m., 26 Apr 2002, *Daniels 2100* (SCCN); Kanyakumari Dist., W. Ghats, Maramalai, ca 500 m., 17 Feb 2002, *Daniels 1983, 1984, 1985* (SCCN) [Daniels 2003].

Phragmicomma humilis Gottsche = *Mastigolejeunea auriculata* (Wilson & Hook.) Schiffn. [Thiers & Gradstein 1989]

Phragmicomma polymorpha Sande Lac. = *Spruceanthus polymorphus* (Sande Lac.) Verd. [Gradstein et al. 2002]

Phragmicomma pulopenangensis Gottsche = *Schiffnerolejeunea pulopenangensis* (Gottsche) Gradst. [Hürlmann 1989]

Phragmicomma sandvicensis Gottsche = *Trocholejeunea sandvicensis* (Gottsche) Mizut. [Zhu & So 2001]

Physocolea madothecoides Steph. = *Cololejeunea madothecoides* (Steph.) Benedix [Asthana & Srivastava 2003]

Physocolea minutissima (Sm.) Steph. = *Cololejeunea minutissima* (Sm.) Schiffn. [Schuster 1980]

Physocolea planissima (Mitt.) Steph. = *Cololejeunea planissima* (Mitt.) Abeyw. var. *planissima* [Zhu & So 2001]

Physocolea spinosa Horik. = *Cololejeunea spinosa* (Horik.) S.Hatt. [Zhu & So 2001]

***Plagiochasma appendiculatum* Lehm. & Lindenb.**

- Nilgiris, *Rangachariar*, 1916, Bh. 12 (1c) [Chopra 1938: 240].

Plagiochasma articulatum Kashyap = *Plagiochasma pterospermum* C.Massal. [Bischler 1979]

***Plagiochasma cordatum* Lehm. et Lindenb.**

- Nilgiri Mts., Ootacamund, *Foulkis*, s.n. (NY) [Bischler 1979].

***Plagiochasma japonicum* (Steph.) C.Massal.**

- Kodaikanal, *Guinet 1305* (PC) [Bischler 1979: 45].

***Plagiochasma microcephalum* (Steph.) Steph.**

- Montée Ootacamund, 1800 m., *Guinet 8* (PC), 1850 m., *Guinet 11* (PC) [Bischler 1979: 39].

Plagiochasma nepalense (Lehm. & Bisch.) Steph. = *Plagiochasma rupestre* (J.R.Forst. & G. Forst.) Steph. [Bischler 1979]

***Plagiochasma pterospermum* C.Massal.**

- Ootacamund, *Rangachariar*, Bh. 12 (2e); Ooty Road, *Sedgwick*, 42 [Chopra 1938: 240, as *P. articulatum*].

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

- Kodaikanal, *Rangachariar*, 1912, Bh. 12 (4, 4a); Negapatam, *Mrs Robinson*, 1928, 960; Tinnvelly Hills, *Rangachariar*, 1916, Bh. 12 (4); Hosur, *Rangachariar*, 1916, Bh. 12 (4a) [Chopra 1938: 240, as *P. simlensis* and *P. nepalense*].

- Montée Ootacamund, 1800 m., *Guinet 2, 3, 6* (PC); 1850 m., *Guinet 10, 12* (PC) [Bischler 1979: 71].

- Tirunelveli Dist., W. Ghats, Mancholai, Bombay-Burma Trading Company tea estate, ca 1200 m., 9 Nov 2000, *Daniels 1261, 1262* (SCCN) [Daniels 2003].

Plagiochasma simlensis Kashyap = *Plagiochasma rupestre* (J.R.Forst. & G. Forst.) Steph. [Bischler 1979]

Plagiochila acutiloba Inoue = *Plagiochila ghatiensis* Steph. [Grolle & So 1998]

***Plagiochila beddomei* Steph.**

- Nilgherry montes (*Beddome*) [Stephani 1903: 361].

- "India orientalis", *Lüthi* legit [Stephani 1924: 180].

- "Nilgherry Montes, *Beddome 359*" Hb. Levier 2087 (holotype G; isotype BM); Montes Nilgiri, Dodabetta, 1907, *Rev. B. Lüthi s.n.*, Hb. Levier 6137 (G-23266, holotype of *P. luethiana*); Nilgiris (Nilgherry Mts., 1909, *Fleischer s.n.* misit (G-010586, holotype of *P. remotistipula*) [Grolle & So 1999c: 295].

***Plagiochila bischleriana* Grolle & M.L.So**

-
- Kodaikanal, *Foreau s.n.* (BM) [So 2001: 177].
- Plagiochila ceylanica*** Mitt. Kodaikanal, 1909, *G. André s.n.* (labelled *P. mittenii*) (G-905032) [So & Grolle 2000b: 26].
Plagiochila cornuta Steph. = *Plagiochila nepalensis* Lindenb. [Grolle & So 1999c]
Plagiochila decolyana Schiffn. ex Steph. = *Plagiochila nepalensis* Lindenb. [Grolle & So 1999c]
- Plagiochila elegans*** Mitt.
– Madurai ("Madura"), 1911, *Foreau* 28 (G-010963, holotype) [So & Grolle 2000b: 20].
Plagiochila flavovirens Steph. = *Plagiochila sciophila* Nees ex. Lindenb. [So & Grolle 1999]
- Plagiochila flexuosa*** Steph.
– Nilgherries, *Perrottet, s.n.* (BM) [So, 2001: 109; Srivastava *et al.* 2006].
- Plagiochila ghatiensis*** Steph.
– "India orientalis", Ghates merid., Kodaikanal, 1908, *André s.n.*, Hb. Cardot (G-011001, holotype) [So & Grolle 2000a: 209; Inoue 1979: 214, as *P. acutiloba*].
– "India orientalis", Ghates meridionales, Kodaikanal, *André s.n.* (G); Kodaikanal, Tambar ravine, *Foreau* 37 (BM, JE) [So 2001: 78].
Plagiochila gollamii Steph. = *Plagiochila nepalensis* Lindenb. [Grolle & So 1999c]
- Plagiochila gracilis*** Lindenb. et Gottsche
– Nilgiri-Mukuruthy National Park (Parsons valley), 8 Apr 2002, *P.K. Verma, A. Alam & N. Sahu* 15278/2002 (LWU) [Srivastava *et al.* 2006: 80].
- Plagiochila indica*** Mitt. ex Steph.
– Nilgherry Mts., *Hooker s.n.*, Hb. Mitten (holotype NY; isotype G-905026); Ootacamund (Botanical Garden), 1909, *collector unknown* (G-905030); Nilgherry, *Perrottet s.n.*, as *P. jacquemontii* (PC); Kodaikanal (Palni Hills), 1933, *Foreau s.n.* (CINC, S) [So & Grolle 2001a: 127-128].
Plagiochila kurseongensis Schiffn. ex Steph. = *Plagiochila flexuosa* Mitt. [Grolle & So 1999b]
Plagiochila luehiana Steph. = *Plagiochila nepalensis* Lindenb. [Grolle & So 1999c]
Plagiochila madurensis Steph. = *Plagiochila elegans* Mitt. [So & Grolle 2000b]
- Plagiochila nepalensis*** Lindenb.
– Nilgherry Montes, *Beddome s.n.* (G-026895, holotype of *P. conuta*) Grolle & So 1999c: 298].
– Ootacamund [Srivastava & Dixit 1996b, as *P. luthiana* (*luehiana*)].
– Nilgherry montes, ca. 2500 m., *M. Fleischer s.n.* (G-010586) [So 2001].
Plagiochila nicobarica Steph. ex Dugas = *Plagiochila indica* Mitt. ex Steph. [So & Grolle 2000a]
Plagiochila nilgherriensis Steph. = *Plagiochila semidecurrens* (Lehm. & Lindenb.) Lehm. & Lindenb. [So & Grolle 1999]
- Plagiochila palangiensis*** S.C.Srivast., K.K.Rawat & P.K. Verma
– Palni hills, Kodaikanal, Palangi, 14 Oct 2000, *Srivastava et al.* 13103/2000, holotype (LWU) [Srivastava *et al.* 2006: 269].
- Plagiochila peradeniensis*** Schiffn.
– Madura, 1910, *Vellé s.n.*, labelled, as *P. phalangea* c. per.), Hb. Cardot 269 (G-026559) [Grolle & So 1999a: 74; So & Grolle 2001b: 468].
– Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels* 1396, 1411, 1433 (SCCN); Tirunelveli Dist., W. Ghats, Mancholai, ca 1100 m., 24 Aug 2001, *Daniels* 1779 (SCCN) [Daniels 2003].
– Ootacamund, Govt. Botanical Garden, ca 2250 m., 26 Sep 1983, *R. Udar & party* 7000/83 (LWU); Perumalmalai, Palni Hills, ca 2100 m., 29 Sep 1983, *R. Udar & party* 7334/83 (LWU) [Srivastava *et al.* 2006: 269].
Plagiochila pluridentata Steph. = *Plagiochila elegans* Mitt. (So & Grolle 2000b)
Plagiochila remotistipula Steph. = *Plagiochila nepalensis* Lindenb. [Grolle & So 1999c]
Plagiochila richteri Steph. ex S.C.Srivast. & R.Dixit = *Plagiochila nepalensis* Lindenb. [So & Grolle 2000a]
- Plagiochila sciophila*** Nees ex. Lindenb.
– Madurai ("Madura"), 1910, *Vellé s.n.*, Hb. Vandenbroek 190 (G-011000, holotype of *P. flavovirens*; G-023261, isotype) [So & Grolle 1999: 173].

- Tirunelveli Dist., W. Ghats, Agasthyamalai, ca 1700 m., 26 Apr 2002, *Daniels* 2128 (SCCN) [Daniels 2003].

Plagiochila semidecurrens (Lehm. & Lindenb.) Lehm. & Lindenb. var. *semidecurrens*

- Dodabetta, Nilgherry montes, 1909, *Fleischer* s.n. (G-023268, holotype of *P. nilgherriensis* [So & Grolle 1999: 175].

Plagiochila sisparensis Steph.

- Nilgherry Montes [Stephani 1924: 207].
- Nilgherry Mts., 1898, *Beddome* 7 (BM) [Grolle & So 1999b: 288].
- Nilgherry Montes, loco dicto Sispara, *collector unknown* (holotype G-010961; isotype BM) [So & Grolle 2000a].

Plagiochila subtropica Steph.

- Nilgiri Hills, upper Bhavani (Avalanche), 9 Oct 2000, *S.C. Srivastava & party* 12558/2000; Mukuruthy National Park (Parson's valley), 8 Apr 2002, *P.K. Verma, A. Alam & N. Sahu* 15261/2002 (LWU) [Srivastava et al. 2006: 82].

Plagiochila vygensis Steph. = *Plagiochila sciophila* Nees ex. Lindenb. [So & Grolle 2000a]

Plagiochila wightii Nees ex Lindenb.

- circa Ootacamund lecta [Montagne 1842b: 12].
- Peninsula Indiae orientalis, *Wight* 713 (W) [So 2001: 168].
- Nilgherries, *Perrottet* s.n. (STR) [So & Grolle 2001a: 128].

Plectocolea tetragona (Lindenb.) Meijer = *Jungermannia tetragona* Lindenb. [Váňa 1975]

Porella acutifolia (Lehm. & Lindenb.) Trevis. var. *acutifolia*

- propre Madras, *Wight* s.n., Hb. Hooker, type of *Madotheca acutifolia* [Lehmann 1838].
- Neel-Gherries [Montagne 1842b: 15].
- Nilgiri, *Gardner* s.n. (?BM) [Mitten 1861: 108].
- Madras, *Wight* s.n., Hb. Hooker (?BM; W; probably a portion of the type in G) [Hattori 1969: 319].
- Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh* s.n. [Udar & Nath 1971: 638].

Porella caespitans (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt.

- Nilghiris, Dodabetta, 2600 m., 12 Feb 1909, *Fleischer* 135, type of *Madotheca calcarata* (G) [Hattori 1969: 354, as *P. setigera*; 1970: 53, as *P. caespitans* var. *setigera*].

Porella caespitans (Steph.) S.Hatt. var. *setigera* (Steph.) S.Hatt. = *Porella caespitans* (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt. [Hattori 1979]

Porella campylophylla (Lehm. & Lindb.) Trevis. subsp. *campylophylla*

- Madura, Shembaganur, 1911, *R.P.G. Foreau* 20H, type of *Madotheca madurensis* (G-16790) [Stephani 1924: 525; Hattori 1975b: 270; Shaheen & Srivastava 1989].
- Kotagiri, *Sedgwick*, 1916, 223 [Chopra 1938: 247, as *Madotheca campylophylla*].

Porella campylophylla (Lehm. & Lindb.) Trevis. subsp. *lancistipula* (Steph.) S.Hatt.

- Madura, Apr 1912, *Pfleiderer*, as *Madotheca indica*; Avalanche, ca 2400 m., 2 Jan 1972, *R. Udar & party* 124S/72, 125S/72; Naduvattam, ca 1982 m., *R. Udar & party* 457/81 (LWU) [Shaheen & Srivastava 1989]. Endemic to S.India.

Porella chinensis (Steph.) S.Hatt. var. *chinensis*

- Madura, no details [Bapna & Kachroo 2000b]. To be clarified: Bapna & Kachroo (2000b) include Madura in the distribution of this taxon, but an original source reference has not been found.

Porella chinensis (Steph.) S.Hatt. var. *irregularis* (Steph.) S.Hatt.

- Kodaikanal (Kodicanel), 1908, *André* 161, Hb. J. Cardot, type of *Madotheca irregularis* (G-16788) [Hattori 1970, 1975b].

Porella kashyapii (R.S.Chopra) Kachroo

- Kodaikanal, *Foreau*, 1934, 2144, as *Madotheca kashyapii* [Chopra 1938: 248]. To be clarified: the affinities of this taxon should be reassessed.

Porella lancistipula (Steph.) S.Hatt. = *Porella campylophylla* (Lehm. & Lindb.) Trevis. subsp. *lancistipula* (Steph.) S.Hatt. [Hattori 1978]

***Porella madagascariensis* (Nees & Mont.) Trevis.**

- Neel-Gherries, type of *Madotheca nilgheriensis* [Montagne 1842b: 15].
- Nilgherry Mt., *Perrottet 1638*, type of *M. nilgheriensis* (G); Kodicanal, *André 159* (G) [Hattori 1967: 141].

Porella madagascariensis (Nees & Mont.) Trevis. fo. *integristipula* Pócs = *Porella plumosa* (Mitt.) Inoue [Hattori 1978]

Porella nilgheriensis (Mont.) Trevis. = *Porella madagascariensis* (Nees & Mont.) Trevis. [Hattori 1967]

Porella perrottetiana* (Mont.) Trevis. var. *perrottetiana

- Neil-gherries, *Perrottet s.n.* [Montagne 1842b: 15].
- Kotagiri, *Sedgwick*, 1915; Shembaganur, *Rupinat*, 1931, 2143 [Chopra 1938: 247; as *Madotheca perrottetiana* (sic)].
- Mt. Nilgherris, 1836, *Perrottet 52* (G - type of *Madotheca perrottetiana*), probably duplicates in (L); Ootacamund, in horto botanico, Nov 1903, *R.L. Proudlock s.n.*, Hb. Levier 4528 (G); Kodaikanal, 1960, *Foreau 18* (NICH) [Hattori 1967: 143].
- Nilgiri, Dodabetta, Nordabhang in Dschimgl., 2500 m., 15 Feb 1909, *M. Fleischer 51* (JE) [Hattori 1969: 353].
- Nilgiris, Ootacamund, Jan 1972, *R. Udar s.n.* (LWU?) [Udar & Shaheen 1983].

***Porella plumosa* (Mitt.) Inoue**

- Kodaikanal, *Foreau*, 1934, 2168, as *Madotheca plumosa* [Chopra 1938: 247].
- Nilgherry Mts., *Perrottet 1638*, type of *Madotheca nilgheriensis* (G) [Pócs 1968: 89, as *P. madagascariensis* f. *integristipula*].

Porella setigera (Steph.) S.Hatt. = *Porella caespitans* (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt. [Hattori 1979]

Porella setigera (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt. = *Porella caespitans* (Steph.) S.Hatt. var. *cordifolia* (Steph.) S.Hatt. [Hattori 1979]

Ptychanthus perrottetii (Steph.) Steph. = *Ptychanthus striatus* (Lehm. & Lindenb.) Nees [Piippo 1990]

Ptychanthus pyriformis Steph. = *Ptychanthus striatus* (Lehm. & Lindenb.) Nees [Verdoorn 1934; Thiers & Gradstein 1989]

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

- Neel-Gherries [Montagne 1842b: 13, as *Frullania striata*].
- Kodaikanal, *Foreau*, 1934, 2155 [Chopra 1938: 249, as *P. pyriformis*; Verdoorn 1934: 120].
- *Ptycholejeunea perrottetii* Steph. = *Ptychanthus striatus* (Lehm. & Lindenb.) Nees [Stephani 1890]
- *Ptychocoleus mangaloreus* Steph. = *Schiffnerolejeunea pulopenangensis* (Gottsche) Gradst. [Gradstein 1991]
- *Ptychocoleus pulopenangensis* (Gottsche) Steph. = *Schiffnerolejeunea pulopenangensis* (Gottsche) Gradst. [Gradstein 1974]

Radula andreana Steph. = *Radula kurzii* Steph. [Yamada 1979]

***Radula auriculata* Steph.**

- Kodaikanal, *Sedgwick*, 1916, 238, 239 [Chopra 1938: 249, as *R. heterophylla* (sic)].
- Nilgiri, *Victor Karl s.n.*, type of *R. heterophylla* (G-8226) [Yamada 1975: 71; 1979: 307].

Radula foreauana Beauvard ex Steph. = *Radula meyeri* Steph. [Yamada 1979] = *Radula fulvifolia* (Hook.f. & Taylor) Gottsche, Lindenb. & Nees [Grolle 2001]

***Radula fulvifolia* (Hook.f. & Taylor) Gottsche, Lindenb. & Nees**

- Madura, Shembaganur ('Shembaganne', sic), 1911, *R.J.G. Foreau s.n.*, Hb. Stephani, holotype of *R. foreauana* (G-16359) [Castle 1967: 53; Yamada 1975: 72, as *R. foreauana*].
- *Radula heterophylla* Steph. = *Radula auriculata* Steph. [Yamada 1979]
- *Radula indica* Steph. = *Radula tabularis* Steph. [Yamada 1979]

***Radula kurzii* Steph.**

- Kodaikanal, 1908, *G. André s.n.*, Hb. Cardot 612, holotype of *R. andreana* (G); Madura, 1911, *R.P.G. Foreau s.n.*, Hb. Stephani (G) [Castle 1966: 66 as *R. andreana*].

***Radula javanica* Steph.**

- "Nilgheries", no. 11, as *R. javanica*, ex Hb. G (BM) [Castle 1966: 60, as *R. sandei*].

***Radula madagascariensis* Gottsche**

- Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1200 m., 20 Aug 1996, *Daniels 04* (SCCN) [Daniels & Daniel 2003c].

Radula meyeri Steph. = *Radula fulvifolia* (Hook.f. & Taylor) Gottsche, Lindenb. & Nees [Grolle 2001]

Radula nilgiriensis Udar & D.Kumar

- Avalanche, Ootacamund (Nilgiri Hills), 2439 m., R. Udar & S.C. Srivastava 71SA/72, holotype (LWU) [Udar & D. Kumar 1982: 179]. Endemic to the Nilgiri Hills.

Radula obscura Mitt.

- Nilgiri Hills, 1845, *Perrottet s.n.*, in Hb. Steph. (G); Hb. BM (det. Mitten) [Castle 1967: 47].

Radula onraedtii K.Yamada

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1512* (SCCN) [Daniels 2003].

Radula perrottetii Gottsche ex Steph.

- Nilgiri Mts., c. 1836, *Perrottet s.n.*, ex Hb. Montagne, Cardot & Bruxelles, 5 collections originally named as *R. boryana*, *R. javanica* or *R. heterophylla* (G) [Castle 1966: 62]. Neilgherries, *Perrottet s.n.* (G10652, holotype). [Yamada 1975: 80].

Radula sandei Steph. = *Radula fulvifolia* [Yamada 1979]

Radula tabularis Steph.

- Dodabetta Peak, Ootacamund, 5 Jan 1972, R. Udar & S.C. Srivastava 127SD/72, 132SA/72, 137SA/72 (LWU) [Udar & D. Kumar 1982: 162].

Reboulia hemisphaerica (L.) Raddi

- Nilgiris, *Rangachariar*, 1916, Bh. 13 (1d); Madras, *Iyengar*, 1922, Bh. 13 (1e-1j); Annamalainagar, Bh. 13 (1m); Negapatam, *Mrs Robinson*, 1928, 586, 961; Perumalmalai, *Foreau*, 1932, 2118 [Chopra 1938: 240].

Rectolejeunea brittoniae A.Evans = *Lejeunea phyllobola* Nees & Mont. [Reiner-Drehwald 2000]

Rectolejeunea olivacea (Steph.) S.C.Srivast. & A.Agarwal = *Lejeunea subolivacea* Mizut. [cf. Srivastava & Agarwal 1986]

Riccardia foreauana (Steph.) Pandé & K.P.Srivast. = *Riccardia multifida* (L.) S.Gray [Srivastava & Udar 1976]

Riccardia indica (Steph. ex Kashyap) Pandé & K.P.Srivast. = *Aneura pinguis* (L.) Dumort. [Srivastava & Udar 1976]

Riccardia levieri Schiffn.

- Palni Hills, *Mrs Robinson*, 1929, 583, 963, 969 [Chopra 1938: 243, as *Aneura levieri*].
- Nilgiri hills, Ootacamund, 7000–7500 ft., Oct 1962, R. Udar & Chandra 545/62 (LWU); Palni hills, Kodaikanal, 6000–6500 ft., 6 Jan 1966, R. Udar & Srivastava 89R/66 (LWU) [Srivastava & Udar 1976: 134].
- Kanayakumari Dist., W. Ghats, Kulashekharam range, ca 150 m., 19 July 2000, *Daniels 949, 950* (SCCN) [Daniels 2003].

Riccardia maxima Schiffn. = *Aneura maxima* (Schiffn.) Steph. [Grolle & Pippo 1984]

Riccardia multifida (L.) S.Gray

- Palnis, W. Ghats, Kodaikanal, between Perumalmalai and Silver Cascade, 3000–4000 ft., 6 Jan 1966, S.C. Srivastava 38R/65 (LWU); Palnis, W. Ghats, Kodaikanal, 6500 ft., Jan 1966, R. Udar & party 102/66 (LWU) [Srivastava & Udar 1976: 139].
- Kanayakumari Dist., W. Ghats, Mahendragiri, ca 450 m., 5 Aug 1995, *Daniels 1*; Upper Kodaiyar, ca 1200 m., 20 Aug 1996, *Daniels 107, 108* (SCCN) [Daniels 2003].

Riccardia pellionoides Horik. = *Aneura maxima* (Schiffn.) Steph. [Inoue 1976; Schuster 1992a].

Riccardia perssonii S.C.Srivast. & Udar

- Palni Hills: between Parumalmalai and Silver Cascade, towards Kodaikanal, Jan 1966, R. Udar & S.C. Srivastava 100R/66 (holotype), 101R/66 (isotype) (LWU) [Srivastava & Udar 1976: 132; 1977: 129]. Endemic to the Palni hills.

Riccardia pinguis (L.) S.Gray = *Aneura pinguis* (L.) Dumort. [Schuster 1992a]

Riccardia santapaui Udar & S.C.Srivast.

- Kanyakumari Dist., W. Ghats, Maramalai, ca 500 m., 11 Apr 2000, *Daniels 842* (MH, SCCN) [Daniels 2003].

Riccardia tenuicostata Schiffn.

- Palni Hills: between Parumalimalai and Silver Cascade, towards Kodaikanal, Jan 1966, *R. Udar* & S.C. Srivastava 76R/66, 84R/66 (LWU) [Srivastava & Udar 1976: 129; 1977: 131].

***Riccia billardieri* Mont. & Nees**

- Tinnevelley Hills, *Rangachariar*, Bh. 1 (4a); Negapatam, 1928/29, *Mrs Robinson*, 594, 595, 622-628 [Chopra 1938: 239, as *R. himalayensis*].
- Tiruchirapalli District, Puliyalam hills, 9 Dec 1960, *Guinet* 3 (PC); Tiruchirapalli, Kurumballou hills, *Guinet* 4 (PC) [Jovet-Ast 2003: 211].
- Kanayakumari Dist., W. Ghats, Chungankadai, 50–150 m., 20 June 1999, *Daniels* 475, 476A, 478; Keeriparai, 110 m., 15 July 2000, *Daniels* 941; Tirunelveli Dist., W. Ghats, Mundanthurai, ca 300 m., 30 July 1999, *Daniels* 665 (SCCN) [Daniels 2003].

***Riccia coracina* Jovet-Ast**

- Tiruchirapalli District, Puliyalam hills, 9 Dec 1960, *Guinet* 2 (PC). [Jovet-Ast 2003: 212].
Riccia crispatula Mitt. = *Riccia billardieri* Mont. & Nees [Bapna & Kachroo 1975]

***Riccia crozalsii* Levier**

- Botanical Garden, Ootacamund, 9 Oct 1950, S.K.Pandé 3814 (LWU) [Udar 1957: 288; Pandé & Udar 1958: 83].

***Riccia discolor* Lehm. & Lindenb.**

- Coimbatore, Govt. Agricultural College, no details [Srivastava 1964]. Kanayakumari Dist., W. Ghats, Chungankadai, 50–160 m., 20 June 1999, *Daniels* 476, 477; Tirunelveli Dist., W. Ghats, Mundanthurai, ca 300 m., 30 July 1999, *Daniels* 666 (SCCN) [Daniels 2003].

***Riccia fluitans* L.**

- in montibus Nilgiriensibus, *Wight s.n.*, *Schmidt s.n.* [Mitten 1861: 128].
- Madras, *Iyengar*, 1922, Bh. 1 (3b); Madras, *Chopra*, 1929, 490 [Chopra 1938: 239].
- Tirunelveli Dist., W. Ghats, Mundanthurai, Kodamadi road, ca 350 m., 21 Jan 2003, *Daniels* 2295 (SCCN) [Daniels 2003].

***Riccia gangetica* Ahmad**

- Nilgiris, Adderley Station, date?, S.K. Pande & K.P. Srivastava s.n., (?LWU) [Srivastava 1964]. Tiruchirpalli district, Kurumbalou Hills, 8 Dec 1960, *Guinet* s.n. (PC) [Jovet-Ast 2003: 216].
- Tirunelveli Dist., W. Ghats, Mundanthurai, ca 300 m., 30 July 1999, *Daniels* 661, 662; Kanyakumari Dist., W. Ghats, Chungankadai, 50–160 m., 20 June 1999, *Daniels* 470; 26 July 1999, *Daniels* 537, 538 (SCCN) [Daniels 2003].

Riccia gollanii Levier = *Riccia discolor* Lehm. & Lindenb. [Pandé & Udar 1957]

***Riccia grollei* Udar**

- Runnymede, Madras State, 6 Oct 1950, *Pandé* 3803 (LWU) [Pandé & Udar 1958: 83, as *R. tuberculata*; Udar 1965: 126].
- Kanyakumari Dist., W. Ghats, Velimalai, ca 450 m., 8 July 2000, *Daniels* 923; 14 Oct 2000, *Daniels* 1028, 1029 (SCCN) [Daniels 2003].

Riccia intermedia E.W.Jones = *Riccia discolor* Lehm. & Lindenb. [Pandé & Udar 1958]

***Riccia melanospora* Kashyap**

- Botanical Garden, Kodaikanal, 7 Oct 1950, S.K.Pandé 4723 (LWU) [Pandé & Udar 1958: 81].
- Coimbatore (no other details) [Srivastava 1964].

Riccia microspora Steph. = *Riccia frostii* Austin [Pandé & Udar 1957]

Riccia minima L. = *Riccia sorocarpa* Bisch. [Bapna & Kachroo 2000b]

***Riccia poihiana* A.E.D.Daniels & P.Daniel**

- Kanyakumari District, near Poihai Reservoir, 31 Oct 2001, P.Daniel 01 (holotype) (CAL) [Daniels & Daniel 2002]. Endemic to Tamil Nadu.

Riccia sanguinea Kashyap = *Riccia frostii* Austin [Pandé & Udar 1957]

***Riccia sorocarpa* Bisch.**

- Kanyakumari Dist., W. Ghats, Velimalai, ca 450 m., 8 July 2000, *Daniels* 923; 14 Oct 2000, *Daniels* 1028, 1029 (MH, SCCN) [Daniels 2003].

***Riccia stricta* (Lindenb.) Perold**

- Kodaikanal (no details) [Bapna & Kachroo 2000b]. The original source reference has not been found.

Riccia tuberculata Pandé & Udar = *Riccia grollei* Udar [Udar 1965]

Riccia velimalaiana A.E.D.Daniels & P.Daniel

- Kanyakumari District, Velimalai, ca 500 m., 19 Aug 2000, *Daniels 921*, holotype (CAL) [Daniels & Daniel 2002].

Riccia warnstorffii Limpr.

- on way to Coonoor, 7 Oct 1950, *Pandé 3802* (LWU); Botanical Garden, Ootacamund, 9 Oct 1950, *S.K.Pandé 3121, 3123, 3815, 5124, 5125* (LWU) [Udar 1957: 288; Pandé & Udar 1958: 82; Srivastava 1964].

Saccogyna subalternifolia Steph. = *Notoscyphus paroicus* Schiffn. [Grolle 1960]

Sarcomitrium multifidum Mitt. = *Riccardia multifida* (L.) S.Gray [Schuster 1992a]

Schiffneriolejeunea indica (Steph.) Udar & U.S.Awasthi = *Schiffneriolejeunea pulopenangensis* (Gottsche) Gradst. [Gradstein 1991]

Schiffneriolejeunea polycarpa (Nees) Gradst.

- Neel-Gherries, *Perrottet s.n.* [Montagne 1842b: 15, as *Lejeunea polycarpa*].

- Nilgiri Hills, Naduvattam, ca 1982 m., 3 Jan 1972, *R. Udar et al 125S/72* (LWU) [Udar & Awasthi 1982c].

- Tirunelveli Dist., W. Ghats, Naalumukku, ca 130 m., 8 Nov 2000, *Daniels 1081*; Mancholai, ca 1100 m., 24 Aug 2001, *Daniels 1774C* (SCCN) [Daniels 2003].

Schiffneriolejeunea pulopenangensis (Gottsche) Gradst.

- Kotagiri, *Sedgwick*, 1916, 233-237 [Chopra 1938: 249, as *Ptychocoleus pulopenangensis*].

- Tirunelveli Dist., W. Ghats, Mancholai, ca 1100 m., 24 Aug 2001, *Daniels 1775* (SCCN) [Daniels 2003, as *S. indica*].

Schisma juniperinum Dumort. ex Nees var. δ *sanguineum* Mont = *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. & Nees) Trevis. [Juslén 2006]

Schisma nilgerriense Steph. = *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. & Nees) Trevis. [Juslén 2006]

Schisma pinnatum Steph. = *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. & Nees) Trevis. [Juslén 2006]

Schistochila aligera (Nees & Blume) J.B.Jack & Steph.

- Nilgherry Montes [Stephani 1909: 74].

- In Mont. Nilgiri, *Gardner s.n.* (?BM) [Mitten 1861: 101, as *Gottshea aligera*].

- Wallache, Nilgiris, 1883, *Gamble s.n.* [Chopra 1938: 247].

- Sispara, Nilgiris, *Beddome s.n.*, Hb. Levier 2113 (G, lectotype; BM, FI, isolectotypes of *S. commutata*); Hb. Levier 2114 (FI, STR; syntypes of *S. commutata*; Nilgiri Mts., Feb 1845, collector unknown 39, Hb. Hooker (BM) [So 2003a: 84].

- Tirunelveli Dist., W. Ghats, Agasthayamalai, 700-900 m., 26 Apr 2002, *Daniels 2040, 2082, 2083*; Kanayakumari Dist., W. Ghats, Muthukuzhivayal, ca 1350 m., 17 May 2002, *Daniels 2230* (SCCN) [Daniels & Daniel 2008a].

Schistochila commutata Steph. = *Schistochila aligera* (Nees & Blume) J.B.Jack & Steph. [So 2003a]

Schistochila philippinensis J.B.Jack & Steph. = *Schistochila aligera* (Nees & Blume) J.B.Jack & Steph. [So 2003a]

Sendtnera dicrana Taylor ex Gottsche, Lindenb. & Nees = *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. & Nees) Trevis. [Juslén 2006]

Solenostoma nilgiriensis (A.Alam, A.Kumar & S.C.Srivast.) Váňa & D.G.Long

- Ootacamund (Krushukuli), Palni Hills, 30 Mar 2001, *P.K. Verma & A. Alam 13704/2001* - type of *Jungermannia nilgiriensis* (LWU); Kodaikanal (Bryant Park), 4 Jan 1966, *R. Udar & party 128/1966* (LWU); Kodaikanal (Upper Lake side), 15 Oct 2000, *S.C.Srivastava & party 13129/2000* (LWU) [Alam et al. 2007].

Solenostoma tetragonum (Lindenb.) R.M.Schust.

- Kanyakumari Dist., Vilavancode taluk, ca 50 m., 23 Oct 2001, *Shilu 37B* (SCCN) [Daniels 2003].

Solenostoma truncatum (Nees) R.M.Schust.

- Nilgherries Mts., *Beddome 670*, det. Mitten, as *J. limbata* Mitt. (NY) [Váňa 1974: 281].

***Spruceanthus semirepandus* Nees**

- Kodaikanal, Dec 1970–Jan 1971, *K.P. Singh s.n.* [Udar & Nath 1971: 638].
- Kodaikanal, Dec 1971, *K.P. Singh 11/71* (LWU) [Udar & Awasthi 1982a: 167].
- Kanayakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1327* (SCCN) [Daniels 2003].

Steetzia ambigua Mitt. = *Pallavicinia ambigua* (Mitt.) Steph. [Grolle & Piippo 1986]

Steetzia crispata (Mont.) Lehm. = *Pallavicinia lyellii* (Hook.) S.Gray

Strepsilejeunea birmensis Steph. = *Cheilolejeunea birmensis* (Steph.) Mizut. [Mizutani 1964]

Strepsilejeunea neelgherriana (Gottsche) Steph. = *Lejeunea neelgherriana* Gottsche [Zhu & So 2001]

Sympyomitria javanica Schiffn. = *Lethocolea javanica* (Schiffn.) Grolle [Udar & Kumar 1986]

Synhymenium aureonitens Griff. = *Cyathodium aureonitens* (Griff.) Mitt. [Srivastava & Dixit 1996a]

Taeniolejeunea pseudofloccosa (Horik.) S.Hatt. = *Cololejeunea pseudofloccosa* (Horik.) Benedix [Zhu & So 2001]

***Targionia hypophylla* L.**

- Madras, *Iyengar*, Bh. 7. (1a) [Chopra 1938: 240].

***Targionia lorbeeriana* K.Müll.**

- Ootacamund and Kodaikanal, Dec 1965–Jan 1966, and Dec 1971–Jan 1972, *R. Udar & party* (LWU?) [Udar & Gupta 1983: 215].

Taxilejeunea discreta (Lindenb.) R.M.Schust. = *Lejeunea discreta* Lindenb. [Grolle 1981]

***Taxilejeunea parvistipula* Steph.**

- Nilgerry Montes [Stephani 1923: 403].

***Telaranea indica* (S.C.Srivast. & P.K. Verma) A.E.D.Daniels & P.Daniel**

- Nilgiri hills, Ootacamund, Governor Sholai, 10 Apr 2002, *P.K. Verma et al. 15496/2002*, type of *Arachniopsis indica* (LWU) [Srivastava & Verma 2004: 270; Daniels & Daniel 2007a].

Thysananthus rotundistipulus Steph. = *Spruceanthus semirepandus* Nees [Verdoorn 1934]

***Trichocolea tomentella* (Ehrh.) Dumort.**

- Neel-Gherries [Montagne 1842b: 13].

- Madura, *Blatter & Halburg*, 1917, 564 [Chopra 1938: 247].

- Palnis, W. Ghats, Dec 1964–Jan 1965, *R. Udar & Srivastava (coll no?)* (LWU?) [Udar & Srivastava 1975].

- Tirunelveli Dist., W. Ghats, Agasthayamalai, ca 1700 m., 26 Apr 2002, *Daniels 2128* (SCCN) [Daniels 2003].

***Trocholejeunea sandvicensis* (Gottsche) Mizut.**

- Perumalmalai, Palni Hill, *Foreau*, 1924, 1932 [Verdoorn 1934: 56, as *Brachiolejeunea sandvicensis*].

- Kodaikanal, *Foreau*, 1934, 2158; Perumalmalai, *Foreau*, 1934, 2159 [Chopra 1938: 249].

- Madras, Kodaikanal, *Georges Poreau s.n.* [Mizutani 1989: 277].

Tylimanthus indicus Steph. = *Plagiochila ghatiensis* Steph. [Inoue 1975]

ANTHOCEROTOPHYTA (Hornworts)***Anthoceros bharadwajii* Udar & A.K.Asthana**

- Naduvattam (no details, no specimen examined) [Asthana & Srivastava 1991: 42].
- Tirunelveli Dist., W. Ghats, Mundanthurai, ca 300 m., 21 Jan 2003, *Daniels 2290* (SCCN). [Daniels 2003]. Endemic to India.

Anthoceros carolinianus Michx. = *Phaeoceros carolinianus* (Michx.) Prosk. [cf. Schuster 1992b]

***Anthoceros crispulus* (Mont.) Douin**

- Dodabetta and Ootacamund, Oct 1983, *R. Udar et al.*, 10 collections (LWU); Kodaikanal, Oct 1983, *R. Udar et al.*, 8 collections (LWU); Nadivattam, Oct 1983, *R. Udar et al. 7167-A/83* (LWU); Shembaganur, Oct 1983, *R. Udar et al. 7554/83, 7555/83, 7568/83* (LWU) [Asthana & Srivastava 1991: 31-32].

***Anthoceros erectus* Kashyap**

- Travancore [? Kerala], Krupp, 1924, Bh. 174 (e) [Chopra 1938: 251].
- Naduvattam, Oct 1983, R. Udar et al. 7167/83, 7169/83 (LWU); Silver Cascade, Oct 1983, R. Udar et al. 7490/83 (LWU) [Asthana & Srivastava 1991: 39]
 - Anthoceros gollanii* Steph. = *Phaeoceros carolinianus* (Michx.) Prosk. [Asthana & Srivastava 1991]
 - Anthoceros indicus* Steph. = *Phaeoceros laevis* (L.) Prosk. [Asthana & Srivastava 1991]
 - Anthoceros jackii* Steph. = *Phaeoceros carolinianus* (Michx.) Prosk. [Asthana & Srivastava 1991]
 - Anthoceros laevis* L. = *Phaeoceros laevis* (L.) Prosk. [cf. Schuster 1992b]
 - Anthoceros longii* Steph. = *Phaeoceros laevis* (L.) Prosk. [Asthana & Srivastava 1991]
- Anthoceros macrosporus* Steph.**
- Kodaikanal, Foreau, 1934, 2167 [Chopra 1938: 251, as *Anthoceros macrosporous* (sic)].
- Anthoceros mangaloreus* (Steph.) Bapna = *Folioceros mangaloreus* (Steph.) D.C.Bhardwaj [Asthana & Srivastava 1991]
- Anthoceros meeboldii* Steph. = *Anthoceros crispulus* (Mont.) Douin [Asthana & Srivastava 1991]
- Anthoceros punctatus* L. var. *crispulus* Mont. = *Anthoceros crispulus* (Mont.) Douin [Asthana & Srivastava 1991]
- Anthoceros stephanii* (Steph.) Khanna = *Anthoceros erectus* Kashyap [Asthana & Srivastava 1991]
- Aspiromitus mangaloreus* Steph. = *Folioceros mangaloreus* (Steph.) D.C.Bhardwaj [Asthana & Srivastava 1991]
- Folioceros mangaloreus* (Steph.) D.C.Bharadwaj**
- Palni Hills, Foreau, 1932, 2166 [Chopra 1938: 250, as *Aspiromitus mangaloreus*]. Endemic to S. India. To be confirmed from Tamil Nadu - not mentioned from the state by Asthana & Srivastava (1991).
- Folioceros pandei* Udar & Shaheen = *Anthoceros crispulus* (Mont.) Douin [Asthana & Srivastava 1991]
- Notothylas dissecta* Steph.**
- Kanyakumari Dist., W. Ghats, Balamore, ca 400 m., 23 Jan 1999, Daniels 390 (MH, SCCN) [Daniels 2003].
- Notothylas indica* Kashyap**
- Madras, Iyengar, 1922, Bh. 176, 176 (1a) [Chopra 1938: 251].
- Phaeoceros butleri* (Steph.) Udar & Singh = *Phaeoceros laevis* (L.) Prosk. [Asthana & Srivastava 1991]
- Phaeoceros carolinianus* (Michx.) Prosk.**
- Ootacamund, Oct 1983, R. Udar et al. 7014/83, 7055/83 (LWU); Kodaikanal, Oct 1983, R. Udar et al. 7167-E/83, 7467/83 (LWU); Naduvattam, Oct 1983, R. Udar et al. 7187/83 (LWU) [Asthana & Srivastava 1991: 128].
- Kanayakumari Dist., W. Ghats, Velimalai, ca 500 m., 17 June 2000, Daniels 898; 14 Oct 2000 Daniels 984 (SCCN) [Daniels 2003].
- Phaeoceros cataractarum* (Steph.) Udar & Singh = *Phaeoceros carolinianus* (Michx.) Prosk. [Asthana & Srivastava 1991]
- Phaeoceros laevis* (L.) Prosk.**
- Nilgiris, Rangachariar, 1916, Bh. 174 (4, 4a); "Palneys", Mrs Robinson, 1929, 965 [Chopra 1938: 251, as *Anthoceros laevis*].
- Ootacamund, Kodaikanal, Shembaganur (no details) [Asthana & Srivastava 1991: 124].
- Kanayakumari Dist., W. Ghats, Velimalai, ca 500 m., 17 June 2000, Daniels 899; 14 Oct 2000, Daniels 983 (SCCN) [Daniels 2003].
- Phaeoceros laevis* (L.) Prosk. subsp. *carolinianus* (Michx.) Prosk. = *Phaeoceros carolinianus* (Michx.) Prosk. [Asthana & Srivastava 1991]
- Phaeoceros laevis* (L.) Prosk. subsp. *laevis* = *Phaeoceros laevis* (L.) Prosk. [cf. Schuster 1992b]
- Phaeoceros lamellisporus* (Steph.) Udar & Singh = *Phaeoceros carolinianus* (Michx.) Prosk. [Asthana & Srivastava 1991]
- Phaeoceros tenax* (Steph.) Udar & Singh = *Phaeoceros carolinianus* (Michx.) Prosk. [Asthana & Srivastava 1991]

BRYOPHYTA (Mosses)

- Acrocryphaea concavifolia* Griff. = *Schoenobryum concavifolium* (Griff.) Gangulee [Manuel 1977]
- Acroporium hermaphroditum*** (Müll.Hal.) M.Fleisch.
- Bombay Shola, 5 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 115].
- Aerobryidium attenuatum* (Thwaites & Mitt.) M.Fleisch. = *Pseudotrichypus wallichii* (Brid.) W.R.Buck [Townsend 1978]
- Aerobryidium aureonitens*** (Hook. ex Schwägr.) Broth.
- Musci Neilgherrenses, 1854, as *Pilotrichum (Meteorium) punctulatum* [Müller 1854: 571].
 - In mont Nilghiri, M'Ivor! Schmid ! G. Thomson (no. 831), as *Meteorium aureonitens* [Mitten 1859: 91, as a synonym of *A. filamentosum* by Gangulee 1976: 1322].
 - André, nos. 146 & 164 [Potier de la Varde 1923: 73, as *Aerobryidium punctulatum* (Müll.Hal.) Broth.]
 - Upper Palnis: Kodaikanal, Shembaganur, Tiger Shola; Lower Palnis: Perumalai, Togaivarai Shola [Foreau 1931: 120].
 - Palnis [Brühl 1931: 72].
 - Ootacamund, coll. Foulkes (NY); ibid., 1963, coll. *Handoo*, Nilgiri, Hooker & Thomson 831, type ? of *Hypnum aureo-nitens* (S-PA); ibid., coll. Schmidt (NY); Nilgiri Hill, 1915, coll. Sedgwick; Bonbode-Shola-Kodaikanal, ca 2400 m., on trees, coll. Foreau, S.H. College Shembaganur Mus. Mad. Ind. Merid. Exs. 19; Palni Hills, corticola, subskiophila, ca 2000 m., coll. Foreau, Verdoorn, Musci Sel. Crit. 251, as *A. punctulatum* [Noguchi 1976: 286].
- Aerobryidium filamentosum*** (Hook.) M.Fleisch.
- Cryptogamae Nilgherienses, 1842a [Montagne 1842a: 248, as *Neckera filamentosa*].
 - In mont. Nilghiri, Foulkes! [Mitten 1859].
 - Nilgiri, Palni [Gangulee 1976: 1324].
 - Kodaikanal [Chopra 1975: 339].
- Aerobryidium laevisetum* Dixon = *Aerobryidium aureonitens* (Hook. ex Schwägr.) Broth. [Noguchi 1976]
Aerobryidium punctulatum (Müll.Hal.) Dixon = *Aerobryidium aureonitens* (Hook. ex Schwägr.) Broth. [Noguchi 1976]
- Aerobryidium wallichii* (Brid.) C.C.Towns. = *Pseudotrichypus wallichii* (Brid.) W.R.Buck [Buck 1994b]
Aerobryopsis lanosa (Mitt.) Broth. = *Pseudotrichypus wallichii* (Brid.) W.R.Buck [Buck 1994b]
Aerobryopsis longissima (Dozy & Molk.) M.Fleisch. = *Pseudotrichypus wallichii* (Brid.) W.R.Buck [Buck 1994b]
- Aerobryopsis membranacea*** (Mitt.) Broth.
- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, Daniels 1404, 1435 (SCCN?) [Daniels & Daniel 2007b].
- Aerobryum filamentosum* (Hook.) M.Fleisch. ex Thér. = *Aerobryidium filamentosum* (Hook.) M.Fleisch. [Ind. Musc.]
Amblystegiella madurensis Cardot & P.de la Varde = *Platydictya madurensis* (Cardot & P.de la Varde) R.S.Chopra [Chopra 1975]
- Anacamptodon validinervis*** Dixon & P.de la Varde
- Corticole, Togaivarai Shola, Pulney Hills, Apr 1926 (no. 271); Sirumalai, St. Joseph's Estate, près Pudur, Feb 1927 (no. 807) [Dixon & Potier de la Varde 1927: 172].
 - Lower Palnis: Togaivarai Shola; Sirumalai [Foreau 1931: 122].
 - Palni hills (Togaiparai Shola, Sirumulai) [Chopra 1975: 409].
 - PC; BM; RHT [Matthew 1973: 520].
 - Palni Hills [Brühl 1931: 85].
- Type: Palni hills, Foreau 271 (PC; BM; RHT). Endemic to Palni hills.
Anhydrium polycarpon Griff. = *Regmatodon orthostegius* Mont. [Eakin & Allen 1999]
- Anoectangium aestivum*** (Hedw.) Mitt.
- Upper Palnis: Shembaganur, Villupatti paddy fields; Lower Palnis: Togaivarai Shola, Manalur [Foreau 1930: 10].
 - Machur along Law's Ghat Road, at 1371 m., 1959; Parappar, along Law's Ghat Road, at 1785 m., 1959 [Foreau 1961: 21].

- S. India (along Law's Ghat Road), as *Anoectangium euchloron* (Schwägr.) Mitt. [Chopra 1975: 114].

Anoectangium angustifolium Mitt. = *Anoectangium aestivum* (Hedw.) Mitt. [Zander 1993]

Anoectangium euchloron (Schwägr.) Mitt. = *Anoectangium aestivum* (Hedw.) Mitt. [Zander 1977]

Anoectangium laetum Renaud & Cardot = *Anoectangium stracheyanum* Mitt. [Ind. Musc.]

Anoectangium leptophyllum Broth. = *Anoectangium stracheyanum* Mitt. [Ind. Musc.; Li & Iwatsuki 1997]

Anoectangium schmidii (Müll.Hal.) Mitt. = *Oreoweisia laxifolia* (Hook.f.) Kindb. [Ind. Musc.]

Anoectangium secundum Hook. = *Braunia secunda* (Hook.) Bruch & Schimp. [Magill 1998]

***Anoectangium stracheyanum* Mitt.**

- Upper Palnis: Kodaikanal; Lower Palnis: Manalur [Foreau 1930: 10].
 – Law's Ghat Road at 363 m., 1959; Kodaikanal, Levinge Path at 2057 m., 1959 [Foreau 1961: 21].
 – South India [Gangulee 1972: 635].
 – S. India (Kodaikanal) [Chopra 1975: 114].
 – Kanyakumari Dist., W. Ghats, Lower Kodaiyar, ca 310 m., 24 Sep 2003, *K. Sheebha 2* [Aziz & Vohra 2008].

***Anoectangium thomsonii* Mitt.**

- S. India [Gangulee 1972: 636].
 – Kanyakumari Dist., W. Ghats, Maramalai, 500–700 m., 2 Oct 2004, *J.B. Hepzi 2, 5, 52, 101* [Aziz & Vohra 2008].

***Anomobryum auratum* (Mitt.) A.Jaeger**

- Kodai Kanal, 1911, leg. Foreau no. 58; Silver Cascade nr Shembaganur, on rocks, alt. 1800 m., leg. Foreau & Roiné no. 68 musc., madur. [Potier de la Varde 1923: pt 1].
 – Perumalmalai Shola, 28 Mar 1926 (no. 117); Togaivarai Shola, ca 5000 ft., 10 Apr 1926 (no. 274) [Dixon & Potier de la Varde 1927: 179].
 – Kuttalam, Tinnevelly, 1929, *Foreau 1008* [Dixon & Potier de la Varde 1930: 188].
 – Courtallam (= Kuttalam), Tirunelveli, 1929 [Foreau 1964: 223].
 – Nilgiri, Palni [Gangulee 1974: 958].
 – PC; BM [Matthew 1973: 520].

Anomobryum cymbifolium (Lindb.) Broth. = *Anomobryum auratum* (Mitt.) A.Jaeger [Ochi 1985]

Anomobryum filiforme (Dicks.) Husn. = *Anomobryum julaceum* (Schrad. ex P.Gaertn., B.Mey. & Scherb.) Schimp. [Corley et al. 1981]

***Anomobryum julaceum* (Schrad. ex P.Gaertn., B.Mey. & Scherb.) Schimp.**

- Kodaikanal, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 112].
 – Udhagamandalam, Botanical Garden, 2400 m., epiphyte, April 1992, *PAN-4590* [Kumar & Maniselvan 1994: 101].

Anomobryum latifolium Cardot & P.de la Varde = *Anomobryum auratum* (Mitt.) A.Jaeger [Ochi 1985]

***Anomobryum schmidii* (Müll.Hal.) A.Jaeger**

- In mont. Nilgiri, Schmid [Mitten 1859: 68].
 – Nilgiri hills [Chopra 1975: 210].

***Anomobryum subnitidum* Cardot & P.de la Varde**

- Shembaganur, on ground, 1900 m., leg. Foreau, May 1912, no. 2, musci. madur. [Potier de la Varde 1923].
 – Tiger Shola, 18 Dec 1924, c.fr. (no. 481); Environs de Shembaganur, c.fr., no. 274 in herb. [Dixon & Potier de la Varde 1927: 179].
 – PC; BM [Matthew 1973: 520].
 – Palni hills (Shembaganur, Laws Ghat Road) [Chopra 1975: 210].
 – Tiger Shola; Gundar Shola, 1, 2 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 112].

Type: Palni hills, *Foreau 2* (PC; BM). Endemic to Palni hills.

Anomodon devolutus Mitt. = *Herpetineuron toccae* (Sull. & Lesq.) Cardot [Ind. Musc.]

Anomodon toccae Sull. & Lesq. = *Herpetineuron toccae* (Sull. & Lesq.) Cardot [Ind. Musc.]

Aongstroemia phascooides Müll.Hal. = *Campylopodium phascooides* (Müll.Hal.) Paris [Geise & Frahm 1985a]

Aongstroemia schmidii Müll.Hal. = *Leptotrichum schmidii* (Müll.Hal.) Mitt. = *Leptotrichella schmidii* (Müll.Hal.) Ochyra [Ind. Musc.]

Aptychella speciosa (Mitt.) Tixier = *Pylaisia speciosa* (Mitt.) Wilson ex A.Jaeger [Arikawa *et al* 2006]
Aptychella subintegra Tixier = *Aptychella tenuiramea* (Mitt.) Tixier [Tixier 1997]

***Aptychella tenuiramea* (Mitt.) Tixier**

- Madure: Kodaikanal, leg. *Rev. Foreau*, 1911, (no. 74) [Potier de la Varde 1923: 74-75, as *Clastobryum oligonema* Cardot & P.de la Varde].
- Pambar Forest, Pulney Hills, in shade, 22 Jan 1927 (no. 656, type); upper part of Perumalmalai Shola, ca 6500 ft., 5 Apr 1926 (no. 228) [Dixon & Potier de la Varde 1927: 174-175].
- Palni [Gangulee 1980: 1838].
- PC; BM; RHT [Matthew 1973: 521].
- Palni Hills [Brühl 1931: 101].

***Archidium birmannicum* Mitt. ex Dixon**

- Madras, 1926 [Foreau 1964: 223].
- South India (Nilgiri & Palni Hills) [Gangulee 1969: 174].
- Kanyakumari Dist., West Coast, Kuttiparavillai, ca 50 m., 10 May 1999, *Daniels* 447 [Daniels 2003].

Archidium leptophyllum P.de la Varde = *Archidium ohioense* Schimp. ex Müll.Hal. [Snider 1975]

***Archidium microthecium* Dixon & P.de la Varde**

- Kodaikanal, 1912, leg. *R.P. Foreau* (no. 211) [Potier de la Varde 1928: 37].
- Upper Palnis: Kodaikanal, 1912 [Foreau 1930: 7].
- Palnis [Brühl 1931: 19].
- Kodaikanal at 2133 m., 1922 [Foreau 1961: 16].
- PC; BM [Matthew 1973: 520].
- Kodaikanal [Chopra 1975: 11].

Type: Palni hills, *Foreau* 211 (PC; BM). Endemic to Palni hills.

Archidium novae-guineae Dixon = *Archidium birmannicum* Mitt. ex Dixon [Snider 1975]

Archidium octosporum Dixon & Potier de la Varde = *Archidium ohioense* Schimp. ex Müll.Hal. [Snider 1975]

***Archidium ohioense* Schimp. ex Müll.Hal.**

- Chikalda, Central Provinces, c. 3000–4000 ft., Nov. 1913, leg. *R.B Kinncar* [Potier de la Varde 1928: 37].
- Kodaikanal [Snider 1975: 12, as *Archidium octosporum* Dixon & P.de la Varde].

Astomum denticulatum Müll.Hal. = *Pleuridium denticulatum* (Müll.Hal.) Mitt. [Ind. Musc.]

Astomum minutum Dixon & P.de la Varde = *Weissia minuta* (Dixon & P.de la Varde) Aziz & Vohra [Aziz & Vohra 2008]

Atrichum aculeatum Cardot & P.de la Varde = *Atrichum pallidum* Renauld & Cardot [Nyholm 1971]

***Atrichum pallidum* Renauld & Cardot**

- Kodaikanal, leg. *Rev. André* 1909, no. 50 [Potier de la Varde 1923: 25].
- PC; BM [Matthew 1973: 520].

***Atrichum subserratum* (Harv. & Hook.f.) Mitt.**

- Way from Manalur to Periyur, Lower Pulneys, 19 June 1926, no. 387 [Dixon & Potier de la Varde 1927: 180].

Barbella cubensis (Mitt.) Broth. = *Barbella trichophora* (Mont.) M.Fleisch. [Churchill & Linares 1995]

Barbella denticulata Dixon & P.de la Varde = *Barbella vardei* R.S.Chopra [Zander 1993]

Barbella pendula (Sull.) M.Fleisch. = *Neodicladiella pendula* (Sull.) W.R.Buck [Buck 1994b]

Barbella questei Cardot & P.de la Varde = *Barbella enervis* (Thwaites & Mitt.) M.Fleisch. [Noguchi 1976]

Barbula fallax Hedw. = *Didymodon fallax* (Hedw.) R.H.Zander [Zander 1993]

Barbula indica (Hook.) Spreng. = *Semibarbula orientalis* (F.Weber) Wijk & Margad. [Crosby & Schultze-Motel 1983]

Bartramia gathica Cardot & P.de la Varde = *Bartramia brevifolia* Brid. [Fransen 2004.]

***Barbella determesii* (Renauld & Cardot) M.Fleisch.**

- Shembagamur no. 23-259 [Potier de la Varde 1925: 42].
- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 114].

***Barbella enervis* (Thwaites & Mitt.) M.Fleisch.**

- High Wavy Mountains (Meghamali), Theni District, nos. 307, 326 [Blatter 1929: 876].
- BM [Matthew 1973: 520].

- Nilghiri, without any data (NY); Madura, Shembaganur, coll. *Queste* 14, holotype of *Barbella questei* (BM); ibid., coll. *McCann* (Nog. 10288); Kodaikanal, ca 1800 m., on tree-trunks, coll. *Foreau*, Verdoorn, Musci Sel. Crot. 155 [Noguchi 1976: 320].

Barbella questei Cardot & Dixon = *Barbella enervis* Thwaites & Mitt.) M.Fleisch. [Noguchi 1976]

Barbella spiculata (Mitt.) Broth.

- Palni [Gangulee 1976: 1332].

Barbella tenax (Müll.Hal.) Broth.

- Upper Palnis: Shembaganur; Lower Palnis: Perumalmalai [Foreau 1931: 120].

Barbellopsis trichophora (Mont.) W.R.Buck

- Upper Palnis: Shembaganur, Kodaikanal, Tiger Shola, 1911, leg. *Queste*; Lower Palnis: Perumalmalai, Manalur [Foreau 1931: 119].

- Palni [Gangulee 1976: 1328].

Barbula arcuata Griff.

- South India [Gangulee 1972: 727].

Barbula consanguinea (Thwaites & Mitt.) A.Jaeger

- Kanyakumari Dist., Vilavancode, ca 50 m., 9 Oct 2001, *G. Shilu* 5B; 18 Dec 2001, *G. Shilu* 38B [Daniels 2003].

Barbula denticulata Dixon & P. de la Varde, nom. illeg. = *Barbula vardei* R.S.Chopra [Wijk et al. 1959]

Barbula dharvarensis Dixon

- Parappar Torrent, 28 Dec 1926 (no. 507); Perumalmalai Shola, 31 Dec 1926 (no. 521a) [Dixon & Potier de la Varde 1927: 179].

- Upper Palnis: Villupatti paddy fields, near Perumalmalai; Lower Palnis: Villupatti [Foreau 1930: 11].

- Palni Hills [Brühl 1931: 40].

Barbula javanica Dozy & Molk.

- S. India [Chopra 1975:144].

- Kalatty water falls, 1620 m., on stones, April 1992, PAN-4607 [Kumar & Maniselvan 1994: 101].

Barbula schmidii Müll.Hal. = *Tortula schmidii* (Müll.Hal.) Broth. = *Syntrichia fragilis* (Taylor) Ochyra [Zander 1993]

Barbula tenuirostris Brid.

- Villupatti at 1371 m., 1926 [Foreau 1961: 21, as *Barbula dharvarensis* Dixon].

Barbula vardei R.S.Chopra

- Tiger Shola, Pulney hills, 18 Dec 1926 (no. 488, type); Perumalmalai Shola, 9 Jan 1927 (no. 555); Old Ghat Road, Shembaganur, 22 Jan 1927 (no. 657) [Dixon & Potier de la Varde 1927: 168].

- Upper Palnis: Shembaganur, (no. 657), 9 Jan 1927; Tiger Shola, (no. 488), 18 Dec 1926; Lower Palnis: Perumalmalai, (no. 555), 1927 [Foreau 1930: 11].

- Law's Ghat Road at 750 m., 1959; Tiger Shola at 1676 m., 1926 [Foreau 1961: 21].

- PC; BM; RHT [Matthew 1973: 520].

- Palni Hills, Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 112].

Type: Palni hills, Tiger Shola, *Foreau* 488 (BM).

Bartramia brevifolia Brid. subsp. ***brevifolia***

- Shembaganur, *Foreau* 95 bis [Potier de la Varde 1924: 12].

- Pambar Torrent, 8 Feb 1927 (no. 795, 796) [Dixon & Potier de la Varde 1927: 180].

- PC; BM [Matthew 1973: 520].

- Ooty [Gangulee 1974: 1094, as *B. leptodonta* Wilson].

- Madura, Kodaikanal, 1909, *G. André* (S); Nilgiri Hills, Bangi Tappal, *J.S. Gambler* 13280 (H); Dodabetta, *M. Fleischer* B3015 (B, LD); Ootacamund, Botanical Garden, *M. Fleischer* B3016 (B, LD) [Fransén 2004].

Bartramia gathica Cardot & P. de la Varde = *Bartramia brevifolia* Brid. subsp. *brevifolia* [Fransén 2004]

Bartramia leptodonta Wilson = *Bartramia brevifolia* Brid. [Fransén 2004]

Bartramia fontana β *falcata* Hook. = *Philonotis falcata* (Hook.) Mitt. [Magill 1987]

Bartramia madurensis Dixon & P.de la Varde

- Madure, sine loc. 1912 [Potier de la Varde 1925: 39].
- Pambar Torrent, 8 Feb 1927 (no. 796) [Dixon & Potier de la Varde 1927: 180].
- PC; BM [Matthew 1973: 520].
- S. India (Kodaikanal) [Chopra 1975: 247].

Type: Palni hills, *Foreau s.n.* (PC; BM). Endemic to Palni hills.

Bartramia subulata Bruch & Schimp.

- Nilgiri hills [Chopra 1975: 247].

Bartramidula dispersa Cardot & Potier de la Varde

- Perumal no. 302–328 [Potier de la Varde 1925: 42-43].
- PC; BM [Matthew 1973: 520].

Bartramidula roylei (Hook.f.) Bruch & Schimp.

- Nilghiri, *Perrottet s.n.* [Montagne 1842a: 252, as *Gyphocarpus royliei* Hook. Fil.].
- Nilgiri [Gangulee 1974: 1108].
- Nilgiri hills [Chopra 1975: 249].
- Naduvattum, 1800 m., on soil, August, 1993, PAN-4586 [Kumar & Maniselvan 1994: 102].

Bellibarbula recurva (Griff.) R.H.Zander

- Pulney Hills (no. 569); Tiger Shola (no. 704); Levinge Path, Kodaikanal, 1927 (no. 788) [Dixon & Potier de la Varde 1927: 167].
- Upper Palnis: Levinge Path, Kodaikanal, (no. 788), 1927; Tiger Shola, 1927, no. 704 [Foreau 1930: 11].
- Perumalmalai at 1600 m., 1927; Kodaikanal at 2270 m., 1927, 1959 [Foreau 1961: 21, as *Didymodon strictifolius* Dixon & P.de la Varde].
- South India [Gangulee 1972: 756-757].
- PC; BM [Matthew 1973: 522].
- Palni hills [Brühl 1931: 39].
- Kanyakumari Dist., W. Ghats, Ashambu hills, 40–220 m., 19 Nov 2005, *L.L. Sumam* 54, 65 [Daniels 2003].

Brachymenium acuminatum Harv.

- In mont. Nilghiri, *Schmid* ! [Mitten 1859: 68].
- Madras, 1926 [Foreau 1964: 223].
- Nilgiri [Gangulee 1974: 952].
- Tirunelveli Dist., W. Ghats, Mundanthurai, ca 270 m., 30 July 1999, *Daniels* 573 [Daniels 2003].

Brachymenium bryoides Hook. ex Schwägr.

- circa Dodabett [Montagne 1842a: 253, as *Brachymenium weissia* Harv.].
- Nilghiri, *Perrottet* ! *Schmid* ! [Mitten 1859: 68].
- South India (Nilgiri) [Gangulee 1974: 941]. Endemic to India.

Brachymenium capitulatum (Mitt.) Paris

- Govt. Botanical garden, 2240 m., on tree trunk, August 1993, PAN-4643, as *Brachymenium ochianum* Gangulee [Maniselvan & Kumar 2000a: 30].

Brachymenium clavariaeforme (Müll.Hal.) A.Jaeger = *Brachymenium nepalense* Hook. [Ochi 1985]

Brachymenium exile (Dozy & Molk.) Bosch & Sande Lac.

- Montes Neilgherrenses, legit *B. Schmid* [Müller 1853: 23].
- Kavungi, Upper Palnis, *C.E.C. Fischer* 3060; Kodaikanal, 6800 ft., *C.E.C. Fischer* 3065a (CAL) [Dixon 1914: 79].
- Perumal no. 16 [Potier de la Varde 1925: 42].
- South India [Gangulee 1974: 948].
- Pilar Rocks [Tixier 1979: 112].
- Kanyakumari Dist., Nagercoil, ca 50 m., 4 Nov 1999, *Daniels* 808 [Daniels 2003].

Brachymenium leptophyllum (Bruch & Schimp. ex Müll.Hal.) Bruch & Schimp.

– Doddabetta, 2540 m., on tree trunk, August 1993, PAN-4639 [Maniselvan & Kumar 2000a: 30].

Brachymenium leptostomooides (Müll.Hal.) A.Jaeger

– Upper Palnis, ca 6200–6300 ft., C.E.C. Fischer 2986, 3062 (CAL) [Dixon 1914: 79].

– Perumal, coll. no. 76-291 [Potier de la Varde 1925: 42].

– Palnis [Brühl 1931: 49].

Brachymenium nepalense Hook.

– circa Avalanchy [Montagne 1842a: 253].

– In mont. Nilghiri, Schmid [Miller 1853: 73].

– Nilgiri [Gangulee 1974: 940].

Brachymenium pendulum Mont.

– Dodabett [Montagne 1842a: 254].

– In mont. Nilghiri, Perrottet ! Schmid !, as *Bryum montagneanum* Müll.Hal. [Mitten 1859: 69].

Type: Nilgiri hills, Perrottet s.n. (BM).

Brachymenium pulchrum Hook.

– circa Dodabett [Montagne 1842a: 253].

Brachymenium scabridens (Mitt.) Broth.

– Palni Hills [Tixier 1979: 112].

Brachymenium systylium (Müll.Hal.) A.Jaeger

– In mont. Nilghiri, Perrottet ! Foulkes ! et Schmid ! [Mitten 1859: 73].

Brachymenium weissia Harv. = *Brachymenium bryoides* Hook. ex Schwägr. [Ochi 1985]

Brachythecium buchananii (Hook.) A.Jaeger

– circa Dodabett in montibus ad cortices lectum [Montagne 1842a: 246, as *Hypnum buchanani* Hook.].

– Nilgiri [Müller 1854: 572].

– In mont. Nilghiri, Schmid ! [Mitten 1859: 78].

– Nilgiri [Gangulee 1978: 1714].

– Nilgiris [Vohra 1983].

Brachythecium nitidissimum Dixon & P.de la Varde

– Near Parappar Bridge, Tiger Shola, Pulney Hills, 8 Jan 1927 (no. 556) [Dixon & Potier de la Varde 1927: 173].

– Upper Palnis, Kodaikanal road, 5500 ft., 1928, Foreau 990 [Dixon & Potier de la Varde 1930: 191].

– Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1931: 123].

– Palni Hills [Brühl 1931: 96].

– PC; BM [Matthew 1973: 520].

– Bombay Shola [Tixier 1979: 115].

Type: Palni hills, Foreau 556 (PC; BM). Endemic to Palni hills.

Brachythecium plumosum (Hedw.) Schimp. = *Sciuro-hypnum plumosum* (Hedw.) Ignatov & Huttunen [Ignatov & Huttunen 2002]

Brachythecium procumbens (Mitt.) A.Jaeger

– In mont. Nilghiri, G. Thomson ! (no. 1141), Schmid !, et Foulkes ! [Mitten 1859: 79].

– Shembaganur, Queste 3 [Dixon 1914: 89].

– Palnis [Brühl 1931: 94].

– Nilgiri, Palni [Gangulee 1978: 1711].

– Kanyakumari Dist., W. Ghats, Maramalai 550–600 m., 2 Oct 2004, J.B. Hepzi 47, 70 [Daniels & Kariyappa 2007].

Brachythecium salebrosum (Hoffm. ex F.Weber & D.Mohr) Schimp.

– Kodaikanal, Observatory, on soil, August 1994, PAN-4675 [Maniselvan & Kumar 1998: 24].

Braunia indica Paris = *Braunia secunda* (Hook.) Bruch & Schimp. [Wijk *et al.* 1959]

Braunia secunda (Hook.) Bruch & Schimp.

– prope Kaitie [Montagne 1842a: 251, as *Anoectangium secundum* Hook.].

– Nilgieri [Müller 1854: 569].

- Gundara river bank, Palnis, 6300 ft., *C.E.C. Fischer 3051* (CAL) [Dixon 1914: 81].
- Kodaikanal, leg. *Foreau* no. 55 [Potier de la Varde 1923: 72, as *Braunia apiculata* Cardot, *nom. nud.*].

– Upper Palnis: Kodaikanal [Foreau 1931: 118].

Breutelia dicranacea (Müll.Hal.) Mitt.

- Musc. Neilgher. (no details) [Müller 1853: 57].
- In mont. Nilghiri, *Schmid* ! [Mitten 1859: 64].
- Nilgiri hills [Chopra 1975: 260].

Breutelia microdonta (Mitt.) Broth.

- Kodaikanal Road, 14 May 1925, 8 Feb 1927 (no. 188) [Dixon & Potier de la Varde 1927: 180].
- Ridge leading to Shembaganur Pack, coll. *Foreau* [Dixon & Potier de la Varde 1930: 187, as *B. sclerodicta* Cardot forma *virescens*].
- PC; BM; RHT [Matthew 1973: 521].

Breutelia sclerodictya Cardot in Grandid. = *Breutelia microdonta* (Mitt.) Broth. [Virtanen 1997]

Brothera leana (Sull.) Müll.Hal.

- Lower Palnis: Perumalmalai, Manalur [Foreau 1930: 9].
- Perumalmalai Shola at 1676 m., 1926 [Foreau 1961: 17].
- Palni, *Foreau* 17, etc. [Gangulee 1971: 344].

Bryhnia decurvans (Mitt.) Dixon

- Kodaikanal, on way to Pillar Rock, 1785 m., April 1992, PAN-4580 [Maniselvan & Kumar 1998: 24].

Bryocrumia vivicolor (Broth. & Dixon) W.R.Buck

- Perumal no. 330 [Potier de la Varde 1925: 42, as *Glossadelphus vivicolor* (Broth. & Dixon) Broth.].
- Palni hills (Shembaganur, Perumalmalai), as *Glossadelphus vivicolor* (Broth. & Dixon) Broth. [Chopra 1975: 521].

Bryoerythrophyllum inaequalifolium (Taylor) R.H.Zander

- Kodaikanal at 2170 m., 1929; Shembaganur, leg. *Rev. Vellé*, 1915, ex herb. Cardot [Dixon & Potier de la Varde 1927: 167].
- Upper Palnis: Kodaikanal (no. 1168), 1929; Lower Palnis: Perumalmalai (no. 26), 1926 [Foreau 1930: 11; Dixon & Potier de la Varde 1930: 186, as *Didymodon obtusifolius* Cardot].
- Perumalmalai at 1600 m., 1926; Shembaganur at 1844 m., 1929 [Foreau 1961: 21].
- PC; BM [Matthew 1973: 522].

Bryoerythrophyllum wallichii (Mitt.) P.C.Chen

- Doddabetta, 2450 m., on tree trunks, August, 1993, PAN-4627 [Maniselvan & Kumar 2000a: 30].

Bryum alpinum Huds. ex With.

- In mont. Nilghiri, *M'Ivor* [Mitten 1859: 70].
- South India (Nilgiri) [Gangulee 1974: 1008].

Bryum andrei Cardot & P.de la Varde = *Bryum paradoxum* Schwägr. [Ochi 1985]

Bryum apalodictyoides Müll.Hal.

- In mont. Nilghiri, *Schmid* [Mitten 1859: 74].
- Palnis [Brühl 1931: 53].

Bryum apiculatum Schwägr.

- Palni Hills [Tixier 1979: 112, as *Bryum nitens* Harv. and *Bryum porphyroneuron* Müll.Hal.].
- Naduvattaum, 1740 m., on soil, August, 1993, PAN-4595, as *Bryum porphyroneuron*; Naduvattum, 1800 m., on soil, August 1993, PAN-4594, as *Bryum porphyroneuron* and *Bryum medianum* Mitt. [Kumar & Maniselvan 1994: 101–102].

Bryum argenteum Hedw. var. **argenteum**

- in montibus Nilgheriensis [Montagne 1842a: 254].
- In mont. Nilghiri, *M'Ivor* ! [Mitten 1859: 69].
- High Wavy Mountains (Meghamali), Theni District, no. 330 [Blatter 1929: 876].

- South India (Nilgiri, Palni) [Gangulee 1974: 972].
 - Gundar Shola [Tixier 1979: 112].
 - Udhagamandalam, Naduvattum, 1700 m., on soil, April 1992, PAN-4591 [Kumar & Maniselvan 1994: 101].
- Bryum argenteum*** Hedw.var. ***australe*** Rehmann ex Dixon
- Anamalai Hills, leg. Fischer (CAL) [Foreau 1930].
- Bryum aubertii* Schwägr. = *Rhodobryum aubertii* (Schwägr.) Thér. [Thériot 1902]
- Bryum billardierei*** Schwägr.
- In mont, Nilghiri, Perrottet ! Schmid ! G.Thomson ! (no. 394) [Mitten 1859: 75, as *Bryum ramosum*].
 - Gundata river bak, Upper Palnis, 6300 ft., and Kodaikanal, 6900 ft., C.E.C. Fischer 3052, 3075 (CAL); Shembaganur, Queste 3a, 10, 13 [Dixon 1914: 80].
 - Shembaganur 99, Perumal 284 [Potier de la Varde 1925: 42, as *Bryum ramosum* (Hook.) Mitt.].
 - Tiger Shola, 31 Mar 1926 (no. 178); ibid., 20 Dec 1926, c.fr. (no. 465); Parappar Torrent, 28 Dec 1926 (no. 512); Tiger Shola, ca 5600 ft., 31 Mar 1926 (no. 184) [Dixon & Potier de la Varde 1927: 179].
 - Palnis [Brühl 1931: 53].
 - PC; BM [Matthew 1973: 521].
 - South India (Nilgiri, Palni) [Gangulee 1974: 983].
 - Udhagamandalam, Naduvattum, 1700 m., on soil, April 1992, PAN-4592 [Kumar & Maniselvan 1994: 101].
 - Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, Daniels 1399 [Daniels 2003].
 - Type: Nilgiri hills, *McIvor s.n.* (BM).
- Bryum capillare*** Hedw.
- South India (Nilgiri) [Gangulee 1974: 990].
 - Naduvattum, 1790 m., on soil, Aug 1993, PAN-4594 [Kumar & Maniselvan 1994: 101].
- Bryum cellulare* Hook. = *Plagiobryum cellulare* (Hook.) J.R.Spence & H.P.Ramsay [Spence 1996]
- Bryum coronatum*** Schwägr.
- Kanyakumari Dist., W. Ghats, Maramalai, ca 450 m., 7 Sep 1996, Daniels 113, 114, 115; Tirunelveli Dist., W. Ghats, Mundanthurai, ca 300 m., 30 July 1999, Daniels 671 [Daniels 2003].
- Bryum lamprostegum*** Müll.Hal.
- Neilgherri-Gebirgen [Müller 1853: 22].
 - In mont. Nilghiri, Schmid [Mitten 1859: 71].
- Bryum medianum* Mitt. = *Bryum neelgheriense* var. *neelghereiense* Mont. [Mohamed 1979]
- Bryum neelgheriense*** var. ***neelgheriense*** Mont.
- Nilgiri [Gangulee 1974: 983].
- Bryum nitens* Harv. = *Bryum apiculatum* Schwägr. [Iwatsuki 1991]
- Bryum pachycladum*** Cardot ex P.de la Varde
- Kodaikanal, Munjikanal [Potier de la Varde 1925: 38].
 - Levinge Path, Kodaikanal, 8 Feb 1927 (no. 787) [Dixon & Potier de la Varde 1927: 179].
 - PC; BM [Matthew 1973: 521].
- Bryum paradoxum*** Schwägr.
- Perumalmalai Shola, 4 Apr 1926 (nos. 199 & 203) [Dixon & Potier de la Varde 1927: 179].
 - Palnis [Brühl 1931: 53].
 - PC; BM [Matthew 1973: 521].
 - South India (Nilgiri, Palni) [Gangulee 1974: 1013].
- Bryum porphyroneuron*** var. ***erythrinum*** (Mitt.) M.Fleisch.
- Nilgiri [Gangulee 1974: 1009].
- Bryum pulchrum* (Hook.) Müll.Hal. = *Brachymenium pulchrum* Hook. [Kis 1985]
- Bryum ramosum* (Hook.) Mitt. = *Bryum billardierei* Schwägr. [Allen 2002]

Bryum retusifolium Cardot & P.de la Varde

- Shembaganur, *Queste 20a* [Dixon 1914: 80].
- Kodaikanal, 2400 m., Feb 1911, *Foreau & Roiné 48* [Potier de la Varde 1923: 20].
- PC; BM [Matthew 1973: 521].
- South India (Palni) [Gangulee 1974: 974].
- Madura of E. India [Ochi 1985: 54].

Type: Palni hills, *Foreau & Roiné 48* (PC; BM).

Bryum retusifolium Cardot & P.de la Varde var. *heterophyllum* Cardot = *Bryum retusifolium* Cardot & P.de la Varde [Potier de la Varde 1923]

Bryum roseum (Hedw.) P.Gaertn., B.Mey. & Scherb. = *Rhodobryum roseum* (Hedw.) Limpr. [Corley et al. 1981 [1982]]

Bryum rugosum Müll.Hal. = *Brachymenium pendulum* Mont. [Ochi 1964]

Bryum sahyadrense Cardot & Dixon = *Bryum haematoneurum* Müll.Hal. [Ochi 1972]

Bryum schmidii Müll.Hal. = *Anomobryum schmidii* (Müll.Hal.) A.Jaeger [Crosby et al. 1999]

Bryum solyanum Griff. = *Rhodobryum giganteum* (Schwägr.) Paris [Koponen et al. 1982]

Bryum srilankense Mohamed = *Bryum wightii* Mitt. [Mitten 1859]

Bryum strictifolium Dixon & Badhw. = *Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Scherb. var. *pseudotriquetrum* [Ochi 1985]

Bryum systylium Müll.Hal. = *Brachymenium systylium* (Müll.Hal.) A.Jaeger [Ochi 1985]

Bryum trematodontum Müll.Hal. = *Pohlia trematodontea* (Müll.Hal.) Broth. [Brotherus 1903]

Bryum turbinatum (Hedw.) Turner fo. *sesvennae* Podp. = *Entosthodon perrottetii* (Podp.) Müll.Hal. [Fife 1982]

Bryum uliginosum (Brid.) Bruch & Schimp.

- Naduvattum, 1780 m., on soil, August 1993, PAN-4596 [Kumar & Manielvan 1994: 102].

Bryum vellei Cardot & P.de la Varde = *Bryum billardieri* Schwägr. [Spence 1996]

Bryum vellei Cardot & P.de la Varde var. *robustum* Dixon & P.de la Varde = *Bryum billardieri* Schwägr. [Spence 1996]

Bryum velutinum Müll.Hal. = *Brachymenium systylium* (Müll.Hal.) A.Jaeger [Ochi 1985]

Bryum weissia (Harv.) Müll.Hal. = *Brachymenium bryoides* Hook. ex Schwägr. [Ochi 1985]

Bryum wightii Mitt.

- In mont. Nilgiri, *Gardner ! M'Ivor!* [Mitten 1859: 74].
- Kodaikanal no. 256 [Potier de la Varde 1925: 42].
- High Wavy Mountains (Meghamali), Theni District, nos. 302, 404 [Blatter 1929: 876].
- South India (Nilgiri, Palni) [Gangulee 1974: 984].
- Kodaikanal, 1907, coll. *Rev. André* (BM); Nielgherris, coll. *McIvor* (BM); Nilgiri Hills, ca 6 km from Ootacamund on road to Kotagiri, Jan 1973, *C.C. Townsend* 73/594. High Wavy Mountains, Madura Dist., 5000–6000 ft., May 1917, *Blatter & Hallberg* 404 (BM) [Mohamed 1982: 25, and as *Bryum srilankense* Mohamed].
- Botanical Garden, 2350 m., on soil, August 1993, PAN 4597 [Kumar & Maniselvan 1994: 102].

Calymperes afzelii Sw.

- Southern India, Tinnevelly, Kuttalam, 1929, *G. Foreau 1013a* (BM) [Dixon & P. de la Varde 1930: 172, as *C. microdictyon*; Ellis 1989: 716-718].

Calymperes cacazouense Besch. = *Calymperes tenerum* Müll.Hal. var. *tenerum* [Ellis 1989]

Calymperes gardneri Hook. = *Syrrhopodon gardneri* (Hook.) Schwägr. [Ellis 1989]

Calymperes graeffeanum Müll.Hal.

- Courtallam (Kuttalam): Tinnevelly, 1929, *G. Foreau 1013x* (BM); Five falls, 1967, *A.H. Norkett 13148* (BM); Tekkumalai, 1967, *A.H. Norkett 13085a* (BM) [Ellis 1989: 708].

Calymperes isleanum Besch. = *Calymperes motleyi* Mitt. ex Dozy & Molk. [Ellis 1989]

Calymperes linguatum Müll.Hal. probably = *Calymperes graeffeanum* Müll.Hal. [Ellis 1989]

Calymperes lonchophyllum Schwägr. subsp. ***lonchophyllum*** – Madras, *Wright 1232* (BM) [Ellis 1989: 726].

Calymperes manii Müll.Hal. = *Calymperes erosum* Müll.Hal. [Ellis 1989]

Calymperes microdictyon Dixon & Potier de la Varde = *Calymperes afzelii* Sw. [Ellis 1989]

Calymperes motleyi Mitt. ex Dozy & Molk.

- Kanyakumari Dist., W. Ghats, Melpuram, ca 50 m., 11 June 2002, *G. Shilu 183* [Daniels & Daniel 2005].

Calymperes nicobarensis Hampe = *Calymperes graeffeanum* Müll.Hal. [Ellis 1989]
Calymperes nietneri Müll.Hal. = *Calymperes lonchophyllum* Schwägr. subsp. *lonchophyllum* [Ellis 1989]
Calymperes nietneri Müll.Hal. var. *atro-viride* Dixon = *Calymperes lonchophyllum* Schwägr. subsp.
lonchophyllum [Ellis 1989]
Calymperes omanicum Besch. = *Calymperes motleyi* Mitt. ex Dozy & Molk. [Ellis 1989]
Calymperes punctulatum Hampe = *Calymperes graeffeanum* Müll.Hal. [Ellis 1989]
Calymperes semilibereum Mitt. = *Syrrhopodon semiliberus* (Mitt.) Besch. ex Paris [Ellis 1989]

Calymperes tenerum Müll.Hal. var ***tenerum***

- Kuttalam, Tinnevelly, *Foreau* 1013 p.p. [Dixon & Potier de la Varde 1930: 186].
- Tirunelveli [Gangulee 1969: 1980: 603].
- Kuttalam, Five Falls area, 1967, *A.H. Norkett* (BM) [Ellis 1989: 712].
- Kanyakumari Dist., W. Ghats, Velimalai, ca 500 m., 17 June 2000, *Daniels* 874; ca 50 m., Edaicode, 9 June 2002, *G. Shilu* 167; Karungal, 9 June 2002, *G. Shilu* 171; Uthirankode, 10 June 2002, *G. Shilu* 177 [Daniels 2003].

Calymperes tenerum Müll.Hal. var. ***teniolata*** Gangulee

- South India (Tirunelveli) [Gangulee 1972: 603].
- Calymperopsis semilibera* (Mitt.) M.Fleisch. = *Syrrhopodon semiliberus* (Mitt.) Besch. ex Paris [Staples et al. 2004]

Calyptothecium auriculatum (Dixon) Nog.

- Palni [Gangulee 1976: 1265].

Calyptothecium dixonii Gangulee = *Calyptothecium wightii* (Mitt.) M.Fleisch. = *Calyptothecium hookeri* (Mitt.) Broth. [Gangulee 1976]

Calyptothecium hookeri (Mitt.) Broth.

- Sirumalai [Foreau 1931: 120].

Calyptothecium oxyphyllum Dixon & P.de la Varde

- Environs de Shembaganur, 1923, leg. *Foreau* 319; Manalur, 1924, leg. *Foreau* 529; Mulliyar, Kodaikanal Road, 1927, leg. *I. Sama* 695 [Dixon & Potier de la Varde 1927: 171].
- Upper Palnis: Tiger Shola; Lower Palnis: Mullivar, Manalur [Foreau 1931: 120].
- PC; BM; RHT [Matthew 1973: 521].
- Tiger Shola [Tixier 1979: 114].

Type: Palni hills, *Foreau* 319 (PC; BM; RHT). Endemic to S. India.

Calyptothecium patulum (Broth.) M.Fleisch. = *Calyptothecium wightii* (Mitt.) M.Fleisch. = *Calyptothecium hookeri* (Mitt.) Broth. [Gangulee 1986]

Calyptothecium recurvulum (Broth.) Broth.

- Ad Madras, *G. Thomson* ! [Mitten 1859: 83, as *Meteoreum tumidum* Dicks.].
- Palni [Gangulee 1976: 1271].
- Botanical garden, 2400 m., epiphyte, April 1992, *PAN*-4603 [Kumar & Maniselvan 1994: 102].

Calyptothecium symphysodontoides Dixon & P.de la Varde

- Manalur, 27 May 1924 (no. 565) [Dixon & Potier de la Varde 1927: 171].
- Lower Palnis: Manalur [Foreau 1931: 120].
- PC; BM; RHT [Matthew 1973: 521].

Type: Palni hills, *Foreau* 565 (PC; BM; RHT). Endemic to S. India.

Calyptothecium wightii (Mitt.) M.Fleisch. = *Calyptothecium hookeri* (Mitt.) Broth. [Noguchi 1965; Gangulee 1976]

Campyloodontium flavescens (Hook.) Bosch & Sande Lac.

- Togaivarai Shola, 23 Jan 1927 (no. 654) [Dixon & Potier de la Varde 1927: 183].
- Palnis [Brühl 1931: 98].
- Tiger Shola [Tixier 1979: 116].
- Palni [Gangulee 1980: 1800].

Campyloodontium flavescens (Hook.) Bosch & Sande Lac. = *Mesonodon flavescens* (Hook.) W.R.Buck [Buck 1980b]

Campyloodontium perplicatum (Thér. & P.de la Varde) Broth.

- Maduré, sans localité plus précise, 1920, leg. *André* [Potier de la Varde 1923: 75].
- Upper Palnis: Kodaikanal; Lower Palnis: Manalur [Foreau 1931: 123].

– South India [Gangulee 1980: 1798].

Campylopidium griffithii (Mitt.) Mitt. ex Broth. = *Dicranella divaricata* (Mitt.) A.Jaeger [Gangulee 1971]
Campylopidium khasianum (Griff.) Paris = *Microcampylopus khasianus* (Griff.) Giese & J.-P.Frahm [Giese & Frahm 1985a]

Campylopidium phascoides (Müll.Hal.) Paris

– Musci Neilgherrenses (without locality details) [Müller 1853: 39, as *Angströmia phascoides* C.Müll.].

– in mont. Nilgiri, *Schmid s.n.* [Mitten 1859: 8].

Campylopus albescens Müll.Hal. = *Campylopus zollingerianus* (Müll.Hal.) Bosch & Sande Lac. [Frahm 1987]

Campylopus andreanus Cardot & P.de la Varde

– Madurai, 1921, *André s.n.* [Potier de la Varde 1922: 37].

– Shembaganur at 1798 m., 1959; Kodaikanal at 2003 m., 1959 [Foreau 1961: 17].

– Upper Palnis, no. 82. 1912 [Foreau 1930: 8].

– PC, BM [Matthew 1973: 521].

Type: Madurai, *André s.n.* (PC; BM). Endemic to Madurai.

Campylopus aureus Bosch & Sande Lac. = *Campylopus schmidii* (Müll.Hal.) A.Jaeger [Frahm 1987]

Campylopus comosus (Schwägr.) Bosch & Sande Lac.

– In locis humidis prope Neddoubetta ad terram: *Perrottet* [Müller 1853: 36].

– In mont. Nilgiri, *Perrottet et Gardner* ! [Mitten 1859: 18, as *Dicranum caudatum* Müll.Hal.].

– Shembaganur 111; Perumal 308 [Potier de la Varde 1925: 42].

– High Wavy Mountains (Meghamali), Theni District, no. 400 [Blatter 1929: 876].

– Upper Palnis: Tiger Shola [Foreau 1930: 8].

– Tiger Shola at 1676 m., 1927 [Foreau 1961: 17].

– Perumalmalai at 1600 m., 1923 [Foreau 1961: 18, as *Campylopus reduncus* (Reinw. & Hornsch.) Bosch & Sande Lac.].

Campylopus eberhardtii Paris

– Kodaikanal at 2133 m., 1921 [Foreau 1961: 17].

Campylopus ericoides (Griff.) A.Jaeger

– In mont. Nilgiri, *Schmid* [Mitten 1859: 18, as *Dicranum caudatum* Müll.Hal.].

– Tiger Shola, Eastern Border, 27 Mar 1926 (no. 61) [Dixon & Potier de la Varde 1927: 178].

– Hab. Kodaikanal, on the ground, 2000 m., April 1912, leg. *Foreau et Roiné* no. 51. Musc. Madur. [Potier de la Varde 1922: 38; Foreau 1930: 8-9].

– High Wavy Mountains (Meghamali), Theni District, no. 301 [Blatter 1929: 876].

– Upper Palnis: Tiger Shola. no. 61, 1926 [Foreau 1930: 8-9].

– Tiger Shola at 1828 m., 1926 [Foreau 1961: 18, as *Campylopus roinei* Cardot & Potier de la Varde].

– Nilgiri [Gangulee 1971: 309].

– PC, BM [Matthew 1973: 521].

– Tirunelveli Dist., W. Ghats, Agasthyamalai, ca 700 m., Jan 2001, *Daniels 1420* [Daniels 2003].

Campylopus erythronaphalus (Müll.Hal.) A.Jaeger = *Campylopus ericoides* (Griff.) A.Jaeger [Frahm 1987]

Campylopus flagellifer (Müll.Hal.) A.Jaeger

– Musc. Neilgher. (no details) [Müller 1853: 35].

– Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1930: 8].

– Kodaikanal at 2103 m., 1959; Kodaikanal, on bark of *Rhododendron*, at 2286 m., 1959 [Foreau 1961: 17].

Campylopus flexuosus (Hedw.) Brid.

– Neddoubetta [Montagne 1842a: 254].

Campylopus goughii (Mitt.) A.Jaeger = *Campylopus zollingerianus* (Müll.Hal.) Bosch & Sande Lac. [Frahm 1987]

Campylopus gracilis (Mitt.) A.Jaeger = *Campylopus schimperi* J.Milde [Frahm 1992]

Campylopus introflexus (Hedw.) Brid. var. *introflexus* = *Campylopus pilifer* Brid. [Frahm 1987]

Campylopus introflexus (Hedw.) Brid. var. *vellei* Cardot nom. nud. = *Campylopus pilifer* Brid. [Frahm 1987]

Campylopus involutus (Müll.Hal.) A.Jaeger = *Campylopus ericoides* (Griff.) A.Jaeger [Frahm 1987]

Campylopus laetus (Mitt.) A.Jaeger = *Campylopus savannarum* (Müll.Hal.) Mitt. [Frahm 1987]

Campylopus laetus (Mitt.) A.Jaeger var. ***madurensis*** Thér. & P.de la Varde

- Upper Palnis: Kodaikanal, no. 205, 1912 [Foreau 1930: 8].
- Kodaikanal at 2103 m., 1912 [Foreau 1961: 17].
- PC; RHT [Matthew 1973: 521].

Campylopus latinervis (Mitt.) A.Jaeger = *Campylopus subulatus* Schimp. ex J.Milde var. *schimperi* (J.Milde) Husn. [Frahm 1992]

Campylopus nilghiriensis (Mitt.) A.Jaeger = *Campylopus zollingerianus* (Müll.Hal.) Bosch & Sande Lac. [Frahm 1987]

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

- Musc. Neilgher. (no details) [Müller 1853: 35, as *Dicranum nivale* C.Müll.].
- *Campylopus nodiflorus* (Müll.Hal.) A.Jaeger = *Campylopus schmidii* (Müll.Hal.) A.Jaeger [Frahm 1987]

Campylopus pilifer Brid.

- Dodabett [Montagne 1842a: 254, as *Campylopus introflexus* Brid.].
- Maduré, leg. André [Potier de la Varde 1922: 38, as *C. polytrichoides*].
- Upper Palnis: Kodaikanal [Foreau 1930: 8].
- Kodaikanal at 2400 m., 1921 [Foreau 1961: 17, as *C. polytrichoides*].
- Top Station at 1844 m., 1929 [Foreau 1961: 17, as *Campylopus introflexus* (Hedw.) Mitt.].
- Palni Hills [Tixer 1979: 111].
- Nilgiri, Palni [Gangulee 1971: 303].

Campylopus polytrichoides De Not = *Campylopus pilifer* Brid. [Frahm 1987]

Campylopus reconditus (Thwaites & Mitt.) A.Jaeger = *Sphaerothecium reconditum* Thwaites & Mitt. [Frahm 1986]

Campylopus recurvus (Mitt.) A.Jaeger

- In mont. Nilgheri, Gardner! [Mitten 1859: 20].
- *Campylopus reduncus* (Reinw. & Hornsch.) Bosch & Sande Lac. = *Campylopus comosus* (Schwägr.) Bosch & Sande Lac. [Frahm 1986]

Campylopus richardii Brid.

- South India (Nilgiri, Palni) [Gangulee 1971: 312].
- *Campylopus roinei* Cardot & P.de la Varde = *Campylopus ericoides* (Griff.) A.Jaeger [Frahm 1987]

Campylopus savannarum (Müll.Hal.) Mitt.

- Upper Palnis: Shembaganur, Queste 16, 1911 [Dixon 1914: 77; Foreau 1930: 8].
- Palnis [Brühl 1931: 24].
- Shembaganur at 1828 m., 1911 [Foreau 1961: 17, as *Campylopus laetus* (Mitt.) A.Jaeger].
- South India (Palni) [Gangulee 1971: 306].

Campylopus schimperi J.Milde

- Nilgiri [Gangulee 1971: 289].

Campylopus schmidii (Müll.Hal.) A.Jaeger

- In mont. Nilgiri, Schmid [Mitten 1859: 20].
- Upper Palnis: Kodaikanal [Foreau 1930: 8].
- Palnis [Brühl 1931: 24].

- Shembaganur at 1798 m., 1959; Kodaikanal at 2003 m., 1959 [Foreau 1961: 17, as *Campylopus nodiflorus* (Müll.Hal.) A.Jaeger].
- Palni [Gangulee 1971: 300].

Campylopus sinensis (Müll.Hal.) J.-P.Frahm

- Maduré: leg. André, 1921 (sans localité plus précise) [Potier de la Varde 1922: 37].
- Kodaikanal at 2103 m., 1959; Kodaikanal, on bark of *Rhododendron*, at 2286 m. [Foreau 1961: 17].

Campylopus subfragilis Renauld & Cardot

- Maduré 1920, leg. André [Potier de la Varde 1922: 37].
- Upper Palnis: Kodaikanal, Shambaganur [Foreau 1930: 9].
- Shembaganur at 1798 m., 1959 [Foreau 1961: 18].
- South India (Palni: Foreau 12) [Gangulee 1971: 279].

Campylopus subgracilis Renauld & Cardot ex Gangulee = *Campylopus zollingerianus* (Müll.Hal.) Bosch & Sande Lac. [Frahm 1987]

Campylopus subnanus (Müll.Hal.) A.Jaeger = *Microcampylopus khasianus* (Griffiths) Giese & J.-P.Frahm [Giese & Frahm 1985 [1986]]

Campylopus subulatus Schimp. ex J.Milde var. *schimperi* (J.Milde) Husn. = *Campylopus schimperi* J.Milde [Frahm 1987]

***Campylopus umbellatus* (Schwägr. & Gaudich. ex Arn.) Paris**

- Kodaikanal, on stones, alt. 2400 m., Mar 1912; leg. *Foreau et Roiné*, no. 52. Musc. Mad. [Potier de la Varde 1922: 38, as *Thysanomitrium foreauanum* Cardot & P.de la Varde].
- Kodaikanal, on ground, alt. 2000 m., Nov 1912, leg. *Foreau & Roiné*; Maduré (sans precision de localité) 1920, leg. *André* [Potier de la Varde 1922: 40, as *Thysanomitrium depallieri* Cardot & P.de la Varde].
- Upper Palnis: Shembaganur, Tiger Shola; Kodakanal no. 40, 1912; Tiger Shola, no. 56, 1926 [Foreau 1930: 9].
- Kodaikanal at 2003 m., 1912; Tiger Shola at 1676 m., 1929 [Foreau 1961: 19, as *Thysanomitrium depallieri* Cardot & P.de la Varde].
- Kodaikanal at 2400 m., 1912 [Foreau 1961: 19, as *Thysanomitrium foreauanum* Cardot & P.de la Varde].
- Kodaikanal, Levinge Path, at 2050 m., 1959 [Foreau 1961: 19, as *Thysanomitrium nigrescens* (Mitt.) Broth.].
- Tiger Shola at 1676 m., 1959; Tovaiparai at 1371 m., 1959 [Foreau 1961: 19].
- PC; BM; RHT [Matthew 1973: 525].
- Tiger Shola; Bombay Shola [Tixier 1979: 111].

***Campylopus zollingerianus* (Müll.Hal.) Bosch & Sande Lac.**

- Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1930: 8].
- Tiger Shola at 1828 m., 1926 [Foreau 1961: 17, as *Campylopus goughii* (Mitt.) Broth.].
- Perumalmalai at 1676 m., 1927; Berijam Road at 2286 m., 1959 [Foreau 1961: 17, as *Campylopus nilgiriensis* (Mitt.) A.Jaeger].
- Nilgiri (type) [Gangulee 1971: 282].
- Palni Hills [Tixier 1979: 111].

Catharinea aculeata (Cardot & P.de la Varde) Broth. = *Atrichum pallidum* Renauld & Cardot = *Atrichum subserratum* (Harv. & Hook.f.) Mitt. [Smith 1976]

Ceratodon purpureus (Hedw.) Brid. var. *madurensis* P.de la Varde, *nom. nud.* = *Ceratodon purpureus* (Hedw.) Brid. var. *purpureus* [Burley & Pritchard 1990]

Ceratodon purpureus* (Hedw.) Brid. var. *purpureus

- Neddoubetta [Montagne 1842a: 255].
- Upper Palnis: Tiger Shola; Kodaikanal, 1912 [Foreau 1930: 8].
- Shembaganur, *Eucalyptus* forest, at 1798 m., 1959; Berijam, in sholas, at 2286 m., 1959 [Foreau 1961: 16].
- Perumalai at 1602 m., 1927 [Foreau 1961: 16, as *Ceratodon purpureus* var. *xanthopus* Sull.].
- South India [Gangulee 1971: 209].

***Ceratodon purpureus* (Hedw.) Brid. var. *stenocarpus* (Bruch & Schimp.) Dixon**

- Ad terram prope Neddoubetta a Perrottet lectus (Neilgher no. 63) [Müller 1853: 58].
- South India (Nilgiri, Palni) [Gangulee 1971: 210].

Ceratodon purpureus (Hedw.) Brid. var. *xanthopus* Sull. = *Ceratodon purpureus* (Hedw.) Brid. var. *purpureus* [Burley & Pritchard 1990]

Ceratodon stenocarpus (Bruch & Schimp. ex Müll.Hal.) Dixon = *Ceratodon purpureus* (Hedw.) Brid. var. *stenocarpus* (Bruch & Schimp. ex Müll.Hal.) Dixon [Burley & Pritchard 1990]

Chenia leptophylla (Müll.Hal.) R.H.Zander = *Leptophascum leptophyllum* (Müll.Hal.) J.Guerra & Cano [Guerra & Cano 2000]

***Chionoloma bombayense* (Müll.Hal.) P.Sollman**

- Musc. Neilgher. (no details) [Müller 1853: 57].
- Upper Palnis: Tiger Shola, Shembaganur, Kodaikanal; Lower Palnis: Perumalmalai, (no. 200), 4 Apr 1926, Togaivarai Shola, Manalur, Periyur [Foreau 1930: 10].

- Palni Hills [Brühl 1931: 37].
- PC; BM; RHT [Matthew 1973: 524, 525].
- Gundar Shola; Tiger Shola, (no. 251), 1926; Top Station; Bombay Shola [Tixier 1979: 111].
Type: Palni hills, Shembaganur, *Foreau 5929* (BM). Endemic to Palni hills.
- Chrysocladium retrosum*** (Mitt.) M.Fleisch.
- Upper Palnis, Madura, 1929, *Foreau 1196* [Dixon & Potier de la Varde 1930: 189].
- Palni Hills [Foreau 1931: 120].
Cladodium uliginosum Brid. = *Bryum uliginosum* (Brid.) Bruch & Schimp. [Ochi 1992]
- Claopodium assurgens*** (Sull. & Lesq.) Cardot
- Nilgiri [Gangulee 1978: 1601].
- Claopodium pellucinerve*** (Mitt.) Best
- Palni [Gangulee 1978: 1600].
- Palni Hills [Vohra 1983].
- Claopodium prionophyllum*** (Müll.Hal.) Broth.
- Nilgiris, Palnis [Mitten 1859].
- Leg. André no. 17 [Potier de la Varde 1923: 78].
- Upper Palnis: Shembaganur, Tiger Shola, near Villupatti Paddy Fields; Lower Palnis: Manalur, Peryur [Foreau 1931: 122].
- Nilgiri, Palni [Gangulee 1978: 1604].
- Nilgiris, Palnis [Vohra 1983].
Clastobryella ceylonensis (Broth.) Broth. = *Gammiella ceylonensis* (Broth. in Herzog) B.C.Tan & W.R.Buck [O'Shea 2003]
Clastobryella gracilis P.de la Varde = *Gammiella capillacea* (Griff.) Tixier [Tixier 1977]
Clastobryum barbelloides Dixon & P.de la Varde = *Aptychella tenuiramea* (Mitt.) Tixier [Tixier 1977]
Clastobryum capillaceum (Griff.) Broth. ex Paris = *Pylaisiadelpha capillacea* (Griff.) B.C.Tan & Y.Jia [Tan & Jia 1999]
Clastobryum ceylonense Broth. = *Gammiella ceylonensis* (Broth. in Herzog) B.C.Tan & W.R.Buck [Tan & Buck 1989]
Clastobryum cupressinoides Dixon & P.de la Varde = *Gammiella capillacea* (Griff.) Tixier [Tixier 1977]
Clastobryum oligonema Cardot & P.de la Varde = *Aptychella tenuiramea* (Mitt.) Tixier [Tixier 1977]
Clastobryum patentifolium Dixon & P.de la Varde = *Gammiella capillacea* (Griff.) Tixier [Tixier 1977]
Clastobryum serratum Dixon = *Aptychella tenuiramea* (Mitt.) Tixier [Tixier 1977]
Clastobryum serrulatum Cardot & P.de la Varde = *Aptychella speciosa* (Mitt.) Tixier [Tixier 1977]
Codonoblepharon acutifolium (Müll.Hal.) A.Jaeger = *Zygodon acutifolius* Müll.Hal. [Matcham & O'Shea 2005]
- Codonoblepharon pungens*** (Müll.Hal.) A.Jaeger
- Upper Palnis: Shembaganur [Foreau 1931: 118].
- Old Ghat Road, in the Shola, at 1798 m., 1930 [Foreau 1961: 29].
- Palni hills (Old Ghat Road), as *Zygodon humilis* Thwaites & Mitt. [Chopra 1975: 273].
Cryphaea ferruginea Mitt. = *Pilotrichopsis ferruginea* (Mitt.) Broth. [Ind. Musc.]
Cryphaea indica (Mont.) Mitt. = *Forsstroemia indica* (Mont.) Paris [Stark 1987]
- Cryptopapillaria chrysocladia*** (Müll.Hal.) M.Menzel
- Tiger Shola, ca 5600 ft., 1923, coll. *Foreau* [Noguchi 1976: 251].
- Cryptopapillaria fuscescens*** (Hook.) M.Menzel
- Nilgheri [Montagne 1842a: 248, as *Neckera fuscescens* Hook.].
- High Wavy Mountains (Meghamali), Theni District, no. 331 [Blatter 1929: 877].
- Upper Palnis: Kodaikanal, Shembaganur, Tiger Shola; Lower Palnis: Perumalmalai, Periyur [Foreau 1931: 119].
- Palnis [Brühl 1931: 71].
- Maduré leg. André, no. 6 [Potier de la Varde 1923: 73, as *Papillaria fuscescens* (Hook.) A.Jaeger].
- Nilgiri, Palni [Gangulee 1976: 1287].
- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1406* [Daniels 2003].

***Ctenidium lychnites* (Mitt.) Broth.**

- Upper Palnis, 6400 ft., *C.E.C. Fischer* 2989 (CAL); Kodaikanal, 7000 ft., *C.E.C. Fischer* 3077 (CAL) [Dixon 1914: 85].
- leg. André no. 75; Shembaganur, leg. *Foreau, Roiné*. musc. 33 [Potier de la Varde 1923: 78].
- Top Station [Tixier 1979: 116].
- Palni, Nilgiri [Gangulee 1980: 2013].

Cynodontium amoenum Thwaites & Mitt. = *Ditrichum amoenum* (Thwaites & Mitt.) Paris [Paris 1896]
Desmatodon javanicus (Dozy & Molk.) Mitt. = *Barbula javanica* Dozy & Molk. [Crosby et al. 1999]
Desmatodon wallichii Mitt. = *Bryoerythrophyllum wallichii* (Mitt.) P.C.Chen [Gangulee 1971]

***Diaphanodon blandus* (Harv.) Renauld & Cardot**

- Nilgiri hills [Chopra 1975: 313].
 - Nilgiri [Gangulee 1976: 1225].
- Dicranella denticulata* Cardot & P.de la Varde = *Leptotrichella denticulata* (Cardot & P.de la Varde) Ochyra [Ochyra 1997]

***Dicranella divaricata* (Mitt.) A.Jaeger**

- Upper Palnis: Kodaikanal [Foreau 1930: 8].
- Palnis [Brühl 1931: 22].
- Kodaikanal at 2194 m., 1911 [Foreau 1961: 18].
- Nilgiri, Palni [Gangulee 1971: 261].
- Naduvattum, 1700 m., on soil, August 1993, PAN-4598 [Kumar & Maniselvan 1994: 101].

***Dicranella heteromalla* (Hedw.) Schimp.**

- Govt. Botanical Garden, 2200 m., July 1992, PAN-4619 [Maniselvan & Kumar 2000a].
- Dicranella madurensis* Cardot, nom. nud., Revue Bryologique 49: 35. 1922. Kodaikanal, leg. André. 1909. No. 27. Invalid, cited as a synonym.

***Dicranella stricticaulis* Cardot & P.de la Varde**

- Environs de Shembaganur, 2000 m., 1910. Leg. *Rev. Ant. Vellé* (No. 264 in herb. Van den Broeck) [Potier de la Varde 1922: 35].
 - Shembaganur at 1828 m., 1911 [Foreau 1961: 18].
 - PC; BM [Matthew 1973: 521].
 - Upper Palnis: Shembaganur, leg. *A. Vellé* [Foreau 1930: 7].
- Type: Palni hills, *Vellé* 264 (PC; BM). Endemic to Palni hills.

***Dicranodontium denudatum* (Brid.) E.Britton**

- along Parappar Road, 16 Jan 1927 (no. 645); Shembaganur, Old Ghat Road, 22 Jan 1927 (no. 662); Pambar Torrent, 8 Feb 1927 (no. 801) [Dixon & Potier de la Varde 1927: 178].
- Upper Palnis: Kodaikanal, (no. 801), 1927; Shembaganur, (no. 645), 1927; Tiger Shola, (no. 645), 1927 [Foreau 1930: 9].
- Kodaikanal at 2057 m., 1959 [Foreau 1961: 18].
- PC; BM [Matthew 1973: 521].

Dicranodontium perviride Dixon & P.de la Varde = *Dicranodontium denudatum* (Brid.) E.Britton [Britton 1913]

***Dicranodontium uncinatum* (Harv.) A.Jaeger**

- Observatory, 2060 m., on soil, April 1992, PAN-4561 [Maniselvan & Kumar 1998: 22].

***Dicranoloma brevisetum* (Dozy & Molk.) Paris**

- High Wavy Mountains (Meghamali), Theni District, no. 319 [Blatter 1929: 876].
- High Wavy Mountains, Madura, 5000–6000 ft., 1917, Blatter & Hallberg 319 [Dixon & Potier de la Varde 1930: 185, as *D. leucophyllum*].
- Travancore, Madurai [Chopra 1975: 85].

Dicranoloma fragile Broth. = *Dicranum psathyrum* Klazenga [Klazenga 1999]

Dicranoloma fragile Hook. (illegitimate, later homonym) = *Dicranum psathyrum* Klazenga [Klazenga 1999]
Dicranoloma leucophyllum (Hampe ex Sande Lac.) Paris = *Dicranoloma brevisetum* (Dozy & Molk.) Paris [Klazenga 1999]

Dicranum amoene-virens (Mitt.) Müll.Hal. = *Leucoloma amoene-virens* Mitt. [La Farge-England 1997]

Dicranum comosum Schwägr. = *Campylopus comosus* (Schwägr.) Bosch & Sande Lac. [Frahm 1987]

Dicranum densum Hook. = *Leptotrichella densa* (Hook.) Ochyra [Ochyra 1997]

Dicranum denudatum Brid. = *Dicranodontium denudatum* (Brid.) E.Britton [Frahm 1997]

Dicranum dilatinerne Cardot & P.de la Varde

- Kodaikanal, dans les Gathes, 7000 m., Leg. *Rev. André*, Mai 1909, n. 79 [Potier de la Varde 1922: 37].
- Upper Palnis: Kodaikanal, leg. *G. André*, 1909 [Foreau 1930: 9].
- Kodaikanal at 2164 m., 1909 [Foreau 1961: 18].
- PC; BM [Matthew 1973: 522].
- S. India (Kodaikanal) [Chopra 1975: 81].

Type: Palni hills, Kodaikanal, *André* 79 (PC; BM). Endemic to Palni hills.

Dicranum ericoides Griff. = *Campylopus ericoides* (Griff.) A.Jaeger [Frahm 1987]

Dicranum flagelliferum Müll.Hal. = *Campylopus flagellifer* (Müll.Hal.) A.Jaeger [Frahm 1987]

Dicranum flexuosum Hedw. = *Campylopus flexuosus* (Hedw.) Brid. [Frahm 1987]

Dicranum fragile Hook. nom. illeg. = *Dicranum psathyrum* Klazenga [Klazenga 1999]

Dicranum juniperoidem Brid. = *Leucobryum juniperoidem* (Brid.) Müll.Hal. [Yamaguchi 1993]

Dicranum khasianum Griff. = *Microcampylopus khasianus* (Griff.) Giese & J.-P.Frahm [Giese & Frahm 1985 [1986]]

Dicranum leucophyllum Hampe ex Sande Lac. = *Dicranoloma brevisetum* (Dozy & Molk.) Paris [Klazenga 1999]

Dicranum molle Müll.Hal. = *Leucoloma molle* (Müll.Hal.) Mitt. [La Farge-England 1997]

Dicranum phascoides Hook. = *Garckea phascoides* (Hook.) Müll.Hal. = *Garckea flexuosa* (Griff.) Margad. & Nork. [Norris & Koponen 1988]

Dicranum psathyrum Klazenga

- Shembaganur, *Queste* 19 [Dixon 1914: 75, as *Dicranum fragile* Hook.].
- Upper Palnis: Shembaganur, Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1930: 9].
- Shembaganur at 1859 m., 1959; Tiger Shola at 1676 m., 1959 [Foreau 1961: 18, as *Dicranoloma fragile* (Hook.) Broth.].
- Nilgiri [Gangulee 1971: 403].
- S. India [Chopra 1975: 81].
- Tiger Shola [Tixier 1979: 111].

Dicranum purpureum Hedw. = *Ceratodon purpureus* (Hedw.) Brid. var. *purpureus* [Burley & Pritchard 1990]

Dicranum recurvum Mitt. = *Campylopus recurvus* (Mitt.) A.Jaeger [Frahm 1987]

Dicranum savannarum Müll.Hal. = *Campylopus savannarum* (Müll.Hal.) Mitt. [Frahm 1987]

Dicranum schmidii Müll.Hal. = *Campylopus schmidii* (Müll.Hal.) A.Jaeger [Frahm 1987]

Dicranum sinense Müll.Hal. = *Campylopus sinensis* (Müll.Hal.) J.-P.Frahm [Frahm 1997]

Dicranum subnanum Müll.Hal. = *Campylopus subnanus* (Müll.Hal.) A.Jaeger [Jaeger 1872]

Dicranum tenerum (Mitt.) Müll.Hal. = *Leucoloma tenerum* Mitt. [La Farge-England 1997]

Dicranum zollingerianum Müll.Hal. = *Campylopus zollingerianus* (Müll.Hal.) Bosch & Sande Lac. [Frahm 1987]

Didymodon fallax Hedw.

- Kodaikanal [Tixier 1979: 112].

Didymodon gemnifer Cardot = *Didymodon rigidulus* Hedw. [Dismier & Potier de la Varde 1923]

Didymodon gemniferus Cardot in P.de la Varde = *Didymodon rigidulus* Hedw. [Dismier & Potier de la Varde 1923]

Didymodon laxifolius (Hook.f.) Mitt. = *Oreoweisia laxifolia* (Hook.f.) Kindb. [Gangulee 1971]

Didymodon obtusifolius Cardot ex Dixon & P.da la Varde = *Bryoerythrophyllum inaequalifolium* (Taylor R.H.Zander [Zander 1993]

Didymodon perichaetialis Griff. = *Holomitrium densifolium* (Wilson) Wijk & Margad. [Wijk *et al.* 1962]

Didymodon rigidulus Hedw.

- Upper Palnis: Shembaganur, Munjikal; Lower Palnis: Perumalmalai [Foreau 1930: 11].
- Perumalmalai at 1600 m., 1927; Kodaikanal at 2170 m., 1927 [Foreau 1961: 21].

Type: Palni hills, *Roiné s.n.* (PC; BM). Endemic to Palni hills.

Didymodon rufescens (Mitt.) Broth.

- Perumalmalai at 1676 m., 1930 [Foreau 1961: 21].

Didymodon strictifolius Dixon & P.de la Varde = *Bellibarbula recurva* (Griff.) R.H.Zander [Zander 1993]

Didymodon tortula Harv. = *Ptychomitrium tortula* (Harv.) A.Jaeger [Cao & Vitt 1995]

Diphyscium fasciculatum Mitt.

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- Perumal no. 331 [Potier de la Varde 1925: 42].
 - Upper Palnis, *Foreau & Dixon 1167* (BM); Palni Hills, *Foreau 702* (BM; NY); *Foreau 1128* (NY); Nilgiri, *Beddome 569* (NY) [Magombo 2003: 29].
Diphyscium involutum Mitt. = *Diphyscium mucronifolium* Mitt. [Magombo 2003]
 - Diphyscium mucronifolium*** Mitt.
 - Tirunelveli Dist., W. Ghats, Agasthyamalai, ca 1600 m., 26 April 2002, *Daniels 2118, 2119* [Daniels 2003].
 - Distichium capillaceum*** (Hedw.) Bruch & Schimp.
 - Bangalo, Avalanchey [Montagne 1842a: 255, as *Didymodon cirrhifolius*? Harv. in Hook].
Distichophyllum madurens Thér. & P.de la Varde = *Distichophyllum montagneanum* (Müll.Hal.) Bosch & Sande Lac. [Townsend 1982]
 - Distichophyllum mniifolium*** (Hornsch.) Sim
 - Nilgiri [Montagne 1842a: 247, as *Hookeria mniifolia* Hook.].
 - Distichophyllum montagneanum*** (Müll.Hal.) Bosch & Sande Lac.
 - Nilgiri [Müller 1854: 558].
 - Kodaikanal 1912, no. 168 & 222, as *Distichophyllum madurens* Thér. & P.de la Varde [Potier de la Varde 1925: 40].
 - Upper Palnis: Kodaikanal no. 168, 1912 [Foreau 1931: 121].
 - PC; BM; RHT [Matthew 1973: 522].
 - Distichophyllum schmidii*** Broth.
 - Kanyakumai District, W. Ghats [Daniels & Kariyappa 2007].
 - Distichophyllum succulentum*** (Mitt.) Broth.
 - Upper Palnis: Kodaikanal [Foreau 1931: 121].
 - Palnis [Brühl 1931: 80].
 - Ditrichum amoenum*** (Thwaites & Mitt.) Paris
 - Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1930: 7].
 - Palnis [Brühl 1931: 20].
 - Shembaganur, *Eucalyptus* forest, at 1798 m., 1959; Shembaganur at 1844 m., 1959 [Foreau 1961: 16].
 - Ditrichum difficile*** (Duby) M.Fleisch.
 - Tiger Shola, 1926 (no. 172) [Dixon & Potier de la Varde 1927: 178].
 - Upper Palnis: Shembaganur, Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1930: 7].
 - Tiger Shola at 1813 m., 1926 [Foreau 1961: 16, as *Ditrichum flexifolium* (Hook.) Hampe].
Ditrichum flexifolium (Hook.) Hampe = *Ditrichum difficile* (Duby) M.Fleisch. [Seppelt 1980]
 - Ditrichum tortipes*** (Mitt.) Kuntze var. ***strictum*** Dixon & P.de la Varde
 - Old Ghat Road, Shembaganur, 22 Jan 1927 (no. 663); Tiger Shola, 22 Jan 1927 (no. 691, plus proché de la forme typique) [Dixon & Potier de la Varde 1927: 177].
 - Upper Palnis: Shembaganur, no. 663, 1927 [Foreau 1930: 8].
 - Shembaganur, Old Ghat Road, at 1737 m., 1927 [Foreau 1961: 16].
 - RHT [Matthew 1973: 522].
 - Type: Palni hills, *Foreau 663* (RHT). Endemic to S. India.
 - Ditrichum tortipes*** (Mitt.) Kuntze var. ***tortipes***
 - Upper Palnis: Shembaganur [Foreau 1930: 7].
 - Shembaganur at 1844 m., 1927 [Foreau 1961: 16].
 - Palni [Gangulee 1971: 204]. Endemic to India.
 - Dryptodon fuscoluteus*** (Hook.) Ochyra & Żarnowiec
 - ca Dodabett [Montagne 1842a: 256, as *Grimmia ovata* Hook. et Tayl.].
 - Mont. Musc. *Neilgher* no. 54? [Müller 1853: 62].
 - Palnis [Brühl 1931: 43].
 - Nilgiri, Palni [Gangulee 1972: 800].
 - Dryptodon indicus*** (Dixon & P.de la Varde) Ochyra & Żarnowiec

– Pambar Torrent, Kodaikanal, Pulney Hills, Feb 1927, leg. *R.P. Foreau* [Potier de la Varde 1928: 40].

– PC; BM [Matthew 1973: 525].

Type: India, Pambar Torrent, Kodaikanal, Pulney Hills, Feb 1927, *R.P. Foreau* (PC; BM) [Goffinet & Greven 2000].

Ectropothecium andrei Cardot & P.de la Varde

– Kodaikanal, leg. *André*, July 1911; Shembaganur leg. *Foreau*, Oct 1911, no. 6 musc. madur. [Potier de la Varde 1923: 78].

– Pulney Hills, 1914 (no. 631); Anagarai Shola, Jan 1927 (no. 691); Perumalmalai Shola, 3 Feb 1927 (nos. 738 & 748); Pambar Torrent, 8 Feb 1927 (no. 803) [Dixon & Potier de la Varde 1927: 183].

– Upper Palnis, 1929, *Foreau* 1172; Palnis, 1929, *Mrs Robinson* 8, comm Foreau [Dixon & Potier de la Varde 1930: 191].

– PC; BM; RHT [Matthew 1973: 522].

Ectropothecium anisopterum Cardot & P.de la Varde = *Glossadelphus anisopterus* (Cardot & P.de la Varde) Broth. [Tixier 1988]

Ectropothecium buitenzorgii (Bel.) Mitt.

– Gundar Shola [Tixier 1979: 116].

Ectropothecium chamissonis (Hornschr.) A.Jaeger

– Ootacamund [Montagne 1842a: 244, as *Hypnum chamissonis* Hornsch.].

Ectropothecium cyperoides (Hook. ex Harv.) A.Jaeger

– Shembaganur, *Queste* 1 [Dixon 1914: 85].

– S. India [Gangulee 1980: 1996].

Ectropothecium densum Dixon & P.de la Varde

– Tiger Shola, along Kodaikanal Road, 5900 ft., 1926 (no. 191) [Dixon & Potier de la Varde 1927: 176].

– PC; BM; RHT [Matthew 1973: 522].

Ectropothecium drepanocladoides Broth. & P.de la Varde

– Perumal, 1923, Associé à *Vesicularia subpilicuspis* Cardot et de la V. (no. 282) [Potier de la Varde 1925: 41].

– Palni Hills, nos. 20, 22, 23, 286, 547, & 548 [Dixon & Potier de la Varde 1927: 183].

– PC, BM [Matthew 1973: 522].

Type: Palni hills, collector's name not mentioned, 282 (PC; BM). Endemic to Palni hills.

Ectropothecium laevigatum Thwaites & Mitt.

– Perumalmalai at 1602 m., 1926 [Foreau 1961: 44].

Ectropothecium subretusum Thwaites & Mitt. = *Glossadelphus subretusus* (Thwaites & Mitt.) M.Fleisch. [Tixier 1988]

Ectropothecium zollingeri (Müll.Hal.) A.Jaeger

– leg. *André*, no. 41 in herb. Dépallière [Potier de la Varde 1923: 79].

– Palni hills (Perumalmalai, Periyur) [Chopra 1975: 521].

– Palni [Gangulee 1980: 1928].

Entodon chloropus Renauld & Cardot

– André nos. 36 & 121 [Potier de la Varde 1923: 75].

Entodon macropodus (Hedw.) Müll.Hal.

– Nilgiri [Müller 1854: 569].

– Shembaganur, *Queste* 5 [Dixon 1914: 83].

– High Wavy Mountains (Meghamali), Theni District, no. 318 [Blatter 1929: 876].

– Upper Palnis: Kodaikanal, Shembaganur, Tiger Shola; Lower Palnis: Togaivarai Shola, Manalur, Periyur [Foreau 1931: 123].

– Palni Hills [Brühl 1931: 99].

– Nilgiri, Palni [Gangulee 1980: 1793].

Entodon myurus (Hook.) Hampe

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- Coonoor, Tiger Shola forest, 1800 m., wet soil, October 1995, PAN-4676 [Maniselvan & Kumar 2000a: 32].

***Entodon obtusatus* Broth.**

- Upper Palnis: Shempaganur, Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai Shola [Foreau 1931: 124].
- PC; BM [Matthew 1973: 522].

Entodon obtusatus Cardot & P.de la Varde = *Entodon obtusatus* Broth. [Hu 1983]

Entodon perplacatus Thér. & P.de la Varde = *Campylodontium perplacatum* (Thér. & P.de la Varde) Broth. [Brotherus 1925]

Entodon plicatus Müll.Hal. = *Entodon macropodus* (Hedw.) Müll.Hal. [Buck 1980b]

***Entodontopsis nitens* (Mitt.) W.R.Buck & Ireland**

- Palni Hills [Brühl 1931: 100].

- Palni Hills [Gangulee 1980: 1821].

***Entodontopsis wightii* (Mitt.) W.R.Buck & Ireland**

- Trés fructifié, Perumal 328-345-350 [Potier de la Varde 1925: 42, as *Stereophyllum wightii* (Mitt.) A.Jaeger].

- Palni [Gangulee 1980: 1824].

***Entosthodon buseanus* Dozy & Molk.**

- In mont. Nilgiri (inter *Marchantiam nitidam*), *Perrottet!* [Mitten 1859: 54].

***Entosthodon diversinervis* Müll.Hal.**

- Ab *E. Perrottei* [Müller 1853: 19].

***Entosthodon perrottetii* (Podp.) Müll.Hal.**

- Nilgieri [Müller 1854: 569].

Type: Nilgiri hills, *Perrottet s.n.* (BM).

***Entosthodon physcomitrioides* (Mont.) Mitt.**

- ad terram circa Kaitie; cl. *Perrottet* [Montagne 1842a: 253, as *Funaria physcomitrioides* Mont.].

- Auf Erde bei Kaitie in trocknen Gebirgswaldern von *Perrottet* gesammelt [Müller 1853: 19].

- Upper Palnis at 8100 ft., Sep 1911, C.E.C. Fischer 3017 (CAL) [Dixon 1914: 79].

***Entosthodon pilifer* Mitt.**

- Naduvattum, 1800 m., on soil, August 1993, PAN-4599 [Kumar & Maniselvan 1994: 101].

***Entosthodon planifolius* Thwaites & Mitt.**

- Upper Palnis, Madura, 1929, Foreau 1175, 1331 [Dixon & Potier de la Varde 1930: 187, as *Funaria planifolia*].

- Upper Palnis: Kodaikanal [Foreau 1930].

***Entosthodon submarginatus* Müll.Hal.**

- Perumalmalai Shola, by stream in open, 28 Mar 1926 (no. 135); Pambar Torrent, 8 Feb 1927 (no. 683 & 807) [Dixon & Potier de la Varde 1927: 179].

- environs de Shembaganuir, Foreau 993; Kodaikanal, coll. Foreau 1401 [Dixon & Potier de la Varde 1930: 187].

- Palni Hills [Brühl 1931: 45].

Entosthodon wallichii Mitt. = *Entosthodon buseanus* Dozy & Molk. [Ochi 1968]

***Entosthodon wichurae* M.Fleisch.**

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, Daniels 1395 [Daniels 2003; Daniels 2004].

Erpodium ceylonicum Thwaites & Mitt. = *Solmsiella biseriata* (Austin) Steere [Tan 1987]

***Erpodium mangiferae* Müll.Hal.**

- Tinnevelley District: Mundanthurai [Foreau 1931: 118].

- Palni [Gangulee 1976: 1149].

- Kanyakumari Dist., W. Ghats, Maramalai, ca 200 m., 15 July 2000, Daniels 936 [Daniels 2003].

***Erythrodontium julaceum* (Hook. ex Schwägr.) Paris**

- Anaimalai Hills, 2800 ft., 3500 ft., C.E.C. Fischer 3231, 3239 (CAL); Shembaganur, Queste 20b [Dixon 1914: 83].

- Shembaganur no. 102 [Potier de la Varde 1925: 42].
- Upper Palnis: Shembaganur; Lower Palnis: very common [Foreau 1931: 123].
- Nilgiri, Palni [Gangulee 1980: 1798].
Eurhynchium muelleri (A.Jaeger) E.B.Bartram = *Rhynchosstegium muelleri* A.Jaeger var. *muelleri* [Vohra 1983]
Eurhynchium ripariooides (Hedw.) P.W.Richards = *Rhynchosstegium ripariooides* (Hedw.) Cardot [Ignatov & Afonina 1992]
Eurhynchium vagans (A.Jaeger) E.B.Bartram = *Rhynchosstegium vagans* A.Jaeger = *Oxyrrhynchium vagans* (A.Jaeger) Ignatov & Huttunen [Ignatov & Huttunen 2002]
- Exostratum blumii*** (Nees ex Hampe) L.T.Ellis
- Nilgiri Hills, *Gough s.n.* (BM) [Ellis 1985: 28].
- Fabronia goughii*** Mont.
- leg. André, 1920, no. 173 [Potier de la Varde 1923: 77].
- Upper Palnis: near Neutral Saddle [Foreau 1931: 122].
- Nilgiris, on tree trunks, *Gough s.n.* (NY, BM) [Vohra 1983].
Type: Nilgiri hills, *Gough s.n.* (BM, NY).
- Fabronia madurensis*** Dixon & P.de la Varde
- Periyur, Lower Pulneys, 22 June 1926 (no. 412, type); above path from Neutral Saddle to Palni, on Mirobolam, 23 Dec 1926 (no. 472); Sirumalai (no. 832) [Dixon & Potier de la Varde 1927: 172].
- Upper Palnis: Near Neutral Saddle; Lower Palnis: Peryur, Sirumalai [Foreau 1931: 122].
- Palni Hills [Brühl 1931: 85].
- BM; RHT [Matthew 1973: 522].
- Periyur, Lower Pulneys, 22 June 1926, *Foreau 412* (PC) [Vohra 1983].
Type: Palni hills, *Foreau 412* (BM; RHT). Endemic to India.
- Fabronia pusilla*** Raddi
- Doddabetta, 2460 m., tree trunk, October 1995, *PAN-4671* [Maniselvan & Kumar 2000a: 32].
- Fabronia schmidii*** Müll.Hal.
- Nilgieri [Müller 1854: 558].
- Nilgiri hills [Chopra 1975: 408].
- Fabronia secunda*** Mont.
- Ootacamund a cl. *Perrottet* [Montagne 1842a: 251].
- Ootacamund [Müller 1854: 558].
- Lower Palnis: Perumalmalai [Foreau 1931: 122].
- Palni hills (Perumalmalai) [Chopra 1975: 408].
- Nilgiris, Ootacamund, on tree trunks, *Perrottet* (PC) [Vohra 1983].
Type: Nilgiri hills, *Perrottet s.n.* (FH).
- Fissidens aberrans* Broth. & Dixon = *Fissidens curvatus* Hornsch. [Bruggeman-Nannenga & Pursell 1995 [1996]]
- Fissidens amplifolius*** Dixon & P.de la Varde
- Mundanthurai, Tirunelveli, 1928, *Foreau 978* [Dixon & Potier de la Varde 1930: 170].
- Palni Hills [Brühl 1931: 19].
- Mundanthurai, Tirunelveli [Foreau 1964].
- PC; RHT [Matthew 1973: 522].
Type: Agasthyamalai, *Foreau 978* (PC; RHT). Endemic to Tamil Nadu.
- Fissidens angustiusculus*** Dixon & P.de la Varde
- Parappar Torrent, Pulney Hills, near Villupatti paddy fields, 28 Dec. 1926, no. 511 [Dixon & Potier de la Varde 1927: 163; Foreau 1930: 6].
- Palni Hills [Brühl 1931: 19].
- Kodaikanal, Villupatti Paddy fields, at 1892 m., 1926 [Foreau 1961: 15].
- Nilgiri, Palni [Gangulee 1971: 557].
- PC; RHT [Matthew 1973: 522].

Type: Palni hills, *Foreau* 511 (PC; RHT). Endemic to Palni hills.

***Fissidens anomalus* Mont.**

- Nilgiri [Montagne 1842a: 252].
- In schattigen Wäldern bei Ootacamund [Müller 1853: 19].
- Upper Palnis: Kodaikanal [Foreau 1930: 6].
- Kodaikanal at 2133 m., 1959 [Foreau 1961: 15].

Type: Nilgiri hills, *Perrottet s.n.* (FH).

***Fissidens asplenoides* Hedw.**

- Parappar Torrent, 28 Dec 1926 (no. 515); Pambar Torrent, near Snake Fall, 8 Feb 1927 (no. 806) [Dixon & Potier de la Varde 1927: 177].
- Upper Palnis: Kodaikanal, Villupatti paddy fields [Foreau 1930: 6].
- Perumalmalai at 1602 m., 1955 [Foreau 1961: 15].

Fissidens atrovirens Cardot in Dixon & P.de la Varde, *nom. nud.* = *Fissidens dubius* P.Beauv. [Karttunen 1987]

Fissidens auriculatus Müll.Hal. = *Fissidens crispulus* Brid. [Ind. Musc.]

***Fissidens beckettii* Mitt.**

- Shembaganur, path to Snake Fall, *Foreau* 1313; Tiger Shola, *Foreau* 1150B [Dixon & Potier de la Varde 1930: 185, as *F. curvatoxiphoides*].
- Tiger Shola at 1676 m., 1927 (no. 561); Manalur at 1067 m., Lower Pulneys 1926 (nos. 349, 351) [Foreau 1961: 15, as *Fissidens curvatoxiphoides* Dixon & P.de la Varde].
- PC; RHT [Matthew 1973: 522].

Fissidens biformis Mitt. = *Fissidens zollingeri* Mont. [Gangulee 1971]

Fissidens brachyneuron Broth. & M.Fleisch. = *Fissidens splachnobryoides* Broth. [Iwatsuki & Suzuki 1977] = *Fissidens flaccidus* Mitt. [Pursell 1997]

Fissidens bryoides Hedw. subsp. *schmidii* (Müll.Hal.) Nork. = *Fissidens schmidii* Müll.Hal. [Kis 1985]

Fissidens bryoides* Hedw. var. *bryoides

- Nilgheri [Montagne 1842a: 251].
- Nilgiri [Gangulee 1971: 471].

Fissidens bryoides Hedw. var. *schmidii* (Müll.Hal.) R.S.Chopra & S.S.Kumar = *Fissidens schmidii* Müll.Hal. [Kis 1985]

***Fissidens ceylonensis* Dozy & Molk. var. *acutifolius* Dixon & P.de la Varde**

- Pulney Hills, Tiger Shola (*Foreau* 110); Shembaganur, *Eucalyptus* forest, *Foreau* 1312) [Dixon & Potier de la Varde 1930: 185, as *F. pennatulus*].
- Upper Palnis: Kodaikanal no. 235, 1912; Tiger Shola No. 368, 1923 [Foreau 1930: 7].
- Palni Hills [Foreau 1961: 15].
- PC; RHT [Matthew 1973: 522].

Fissidens ceylonensis* Dozy & Molk. var. *ceylonensis

- Perumalmalai Shola, circa 6500 ft., 5 Apr 1926 (nos. 216, 234) [Dixon & Potier de la Varde 1927: 177].
- Lower Palnis: Perumalmalai; Sirumalai [Foreau 1930: 6].
- Shembaganur at 1866 m., 1926; Perumalmalai at 1699 m., 1926 [Foreau 1961: 15, as *Fissidens pennatulus* Thwaites & Mitt.].
- Nilgiri, Palni [Gangulee 1971: 514].

Fissidens crenulatus* Mitt. var. *crenulatus

- Kanyakumari Dist., W. Ghats, Mahendragiri, ca 450 m., 7 Sep 1996, *Daniels* 110 [Daniels 2003].

Fissidens crispulus* Brid. var. *crispulus

- Nilgheri [Montagne 1842a: 251, as *F. tamarandifolius* var. *crispulus* Brid.].
- Lower Palnis: Togaivarai Shola, Manalur [Foreau 1930: 7].
- Shembaganur at 1828 m., 1909 [Foreau 1961: 16, as *Fissidens sylvaticus* Griff.].

***Fissidens crispulus* Brid. var. *robinsonii* (Broth.) Z.Iwats. & Z.H.Li**

- Tirunelveli Dist., W. Ghats, Mundanthurai, ca 240 m., 30 July 1999, *Daniels* 566 [Daniels & Daniel 2005].

Fissidens cristatus Wilson ex Mitt. = *Fissidens dubius* P.Beauv. [Karttunen 1987]

Fissidens curvatoinvolutus Dixon

- Upper Palnis: Toger Shola, No. 561, 1927; Lower Palnis: Manalur Nos. 349 and 351 [Foreau 1930: 7; Dixon & Potier de la Varde 1927: 163].
- Palni Hills [Brühl 1931: 19].
- Perumalai at 1600 m., 1920; Manalur at 1232 m., 1926 [Foreau 1961: 15, as *Fissidens aberrans* Broth. & Dixon].
- Palni [Gangulee 1971: 478].
- Tirunelveli Dist., W. Ghats, Mundanthurai, Kannikatti road, 240-510 m., 30 July 1999, *Daniels* 561, 621, 633, 648 [Daniels 2003].

Fissidens curvatoxiphioides Dixon & P.de la Varde = *Fissidens beckettii* Mitt. [Iwatsuki 1991]

Fissidens curvatus Hornsch.

- Perumalmalai Shola, 3 Apr 1926 & 31 Dec 1926 (nos. 193, 521b, 522); Manalur, Lower Pulneys, 17 June 1926 (nos 348, 351 p.p.); no. 687, sans indication précise, 11 Jan 1927; Sirumalai, on ground, 24 Apr 1924 (no. 425) [Dixon & Potier de la Varde 1927: 177].
- Upper Palnis: Tiger Shola, Perumalmalai; Lower Palnis: Manalur [Foreau 1930: 6].
- PC [Matthew 1973: 522].

Fissidens diversifolius Mitt.

- Nilgiri [Gangulee 1971: 494].

Fissidens dubius P.Beauv.

- Kodaikanal, leg. *Foreau* no. 21 [Potier de la Varde 1922: 42, as *Fissidens atrovirens* Cardot, *nom. nud. in synon.*].
- Upper Palnis: Kodaikanal [Foreau 1930: 7, as *Fissidens cristatus* Wilson].
- Kodaikanal at 2133 m., 1927 [Foreau 1961: 15, as *Fissidens cristatus* Wilson].
- Nilgiri, Palni [Gangulee 1971: 555].

Fissidens excedens Broth.

- Perumal no. 283 [Potier de la Varde 1925: 41].
- Perumalmalai Shola, along torrent, ca 5100 ft., 3 Apr 1926 (no. 197); Tiger Shola, 15 Dec 1926 (no. 642); no. 639, sans localité précise [Dixon & Potier de la Varde 1927: 177].
- Shembaganur, S.H. College, *Foreau* 1021, 1021B [Dixon & Potier de la Varde 1930: 185].
- Upper Palnis: Shembaganur Perumalmalai; Lower Palnis: Togaivarai Shola [Foreau 1930: 7].
- Shembaganur at 1866 m., 1959; Old Ghat Road at 1676 m., 1959 [Foreau 1961: 15].
- Pillar Rocks, Kodaikanal, 3 Aug 1973 [Tixier 1979: 110]. Endemic to S. India.

Fissidens flaccidus Mitt.

- Lower Palnis: Manalur [Foreau 1930: 6, as *Fissidens brachyneuron* M.Fleisch.].
- Manalur at 1067 m., 1926 [Foreau 1961: 15, as *Fissidens brachyneuron* Broth. & M.Fleisch.].
- Shembaganur at 1866 m., 1926 [Foreau 1961: 15, as *Fissidens minutus* Thwaites & Mitten].
- Kanyakumari Dist., W. Ghats, Kulasekharam, 200–300 m., 24 June 1999, *Daniels* 503, 510B; Ashambu, ca 100 m., 11 Oct 2005, *L.L. Sumam* 2; 100–420 m., 5 Nov 2005, *L.L. Sumam* 9, 34; ca 100 m., 19 Nov 2005, *L.L. Sumam* 58 [Daniels 2003].

Fissidens ganguleei Nork.

- Kanyakumari Dist., W. Ghats, Kulasekharam, ca 150 m., 24 June 1999, *Daniels* 518 [Daniels 2003].

Fissidens gardneri Mitt.

- Mundanthurai, *Foreau* 977B [Dixon & Potier de la Varde 1930: 185, as *F. microcladus*].

Fissidens grandifrons Brid.

- South India (Ooty) [Gangulee 1971: 566].

Fissidens griffithii Gangulee

- Kanyakumari Distr., W. Ghats, Maramalai, C.M.S. Glenbeck Estate, 450 m., 23 Jan 1999, *Daniels* 402 (MH, SCCH) [Daniels & Daniel 2003b].

Fissidens hyalinus Hook. & Wilson

- Perumalmalai at 1562 m., 1956 [Foreau 1961: 15, as *Fissidens nymanii* M.Fleisch.].

– Nilgiri-Ooty; Palni [Gangulee 1971: 462].

Fissidens incognitus Gangulee

– Ooty, Norkett [Gangulee 1971: 501].

Fissidens intromarginatus E.B.Bartram = *Fissidens ceylonensis* Dozy & Molk. var. *ceylonensis* [Iwatsuki & Mohamed 1987]

Fissidens involutus subsp. *curvatoinvolutus* (Dixon) Gangulee = *Fissidens curvatoinvolutus* [Iwatsuki & Suzuki 1999]

Fissidens involutus Wilson ex Mitt. subsp. ***involutus***

– Tirunelveli Dist., W. Ghats, Mundanthurai, Kannikatti road, 240–510 m., 30 July 1999, *Daniels 633A, 650A*, 678 [Daniels 2003].

Fissidens jungermannioides Griff.

– Kanyakumari Dist., W. Ghats, Kulasekharam, ca 50 m., 12 July 1999, *Daniels 542* [Daniels 2003; Daniels & Daniel 2007b].

Fissidens kalimpongensis Gangulee

– lower elevations of the Western Ghats of Kanyakumari District [Daniels & Daniel 2003c: 389]. Endemic to India.

Fissidens karwarensis Dixon

– Shembaganur Forest (about 9th mile), *Foreau 1133* [Dixon & Potier de la Varde 1930: 185].

– Old Ghat Road at 1676 m., 1929 [Foreau 1961: 15]. Endemic to S. India.

Fissidens leptopelma Dixon = *Fissidens subangustus* M.Fleisch. [Li et al. 2001]

Fissidens lutescens Broth.

– Kuttalam, Tinnevelly, 1929, *Foreau 1016* [Dixon & Potier de la Varde 1930: 185].

– Courtallam, Tirunelveli, 1929 [Foreau 1964: 223]. Endemic to S. India.

Fissidens macrosporoides Dixon & P.de la Varde

– Kanyakumari District [Daniels & Kariyappa 2007: 980].

Fissidens microcladus Thwaites & Mitt. = *Fissidens gardneri* Mitt. [Pursell et al. 1993]

Fissidens microdictyon Dixon & P.de la Varde

– Tiger Shola, Pulney Hills, 5600 ft, 31 Mar 1926, no. 189 [Dixon & Potier de la Varde 1927].

– Upper Palnis: Tiger Shola. Type no. 189, 1926, described in A & B [Foreau 1930: 7].

– Palni Hills [Brühl 1931: 19].

– Tiger Shola at 1706 m., Pulney Hills, 5600 ft., 31 Mar 1926 (no. 189), 1926 [Foreau 1961: 15].

– PC [Matthew 1973: 522].

Type: Palni hills, *Foreau 189* (PC). Endemic to Palni hills.

Fissidens minutus Thwaites & Mitt. = *Fissidens flaccidus* Mitt. [Mitten 1860]

Fissidens nymanii M.Fleisch. = *Fissidens hyalinus* Hook.f. & Wilson [Iwatsuki & Mohamed 1987]

Fissidens pennatulus Thwaites & Mitt. = *Fissidens ceylonensis* Dozy & Molk. var. *ceylonensis* [Ind Musc.]

Fissidens perpusillus Wilson ex Mitt. = *Fissidens ceylonensis* Dozy & Molk. var. *ceylonensis* [Ind Musc.]

Fissidens perumalensis Dixon & P.de la Varde

– Itti Pallam, Pulney Hills, 4 Feb 1927, no. 740 [Dixon & Potier de la Varde 1927].

– Lower Palnis: near Perumalmalai, no. 740, 1927; Itti Pallam, Pulney Hills, 4 Feb 1927 (No. 740) [Foreau 1930: 7].

– Palni Hills [Brühl 1931: 19].

– Itti Pallam, near Perumalmalai, at 1699 m., 1927 [Foreau 1961: 15].

– PC [Matthew 1973: 522].

Type: Palni hills, *Foreau 740* (PC). Endemic to Palni hills.

Fissidens plagiochilooides Besch. = *Fissidens involutus* Mitt. subsp. *involutus* [Iwatsuki & Suzuki 1999]

Fissidens pulchellus Mitt.

– Kanyakumari Dist., W.Ghats, Maramalai, ca 500 m., 2 Sep 2004, *J.B. Hepzi 86, 92* [Daniels & Kariyappa 2007].

Fissidens robinsonii Broth. = *Fissidens crispulus* Brid. var. *robinsonii* (Broth.) Z.Iwats. & Z.H.Li [Iwatsuki & Li 2001]

Fissidens schmidii Müll.Hal.

– Musc. Neilgher. (no details) [Müller 1853: 19].

- Perumalmalai (*Foreau 995e, 1152B*), Blackburn Pulney Hills (*Foreau 1000*), Shembaganur S.H. College (*Foreau 1020B*), Nettle Shola, Kodaikanal (*Foreau 1084*), Tiger Shole (*Foreau 1151B*), Shembaganur, path to Snake Falls (*Foreau 1305, 1315*) [Dixon & Potier de la Varde 1930: 184].
- Upper Palnis: Kodaikanal; Sirumalai [*Foreau 1930: 7*].
- Shembaganur at 1866 m., 1949; Perumalmalai at 1600 m., 1959 [*Foreau 1961: 15*].
- Nilgiri, Palni [Gangulee 1971: 472].
- Gundar Sola; Kodaikanal, Aug 1973, *Tixier s.n.* (PC) [*Tixier 1979: 111*].

Fissidens serratus* Müll.Hal.var. *serratus

- Musc. Neilgher. [*Müller 1853: 18*].
- In mont., Nilgiri, *Perrottet* ! [*Mitten 1859: 140*].

Fissidens splachnobryoides Broth. = *Fissidens flaccidus* Brid. [Pursell 1997]

***Fissidens subangustus* M.Fleisch.**

- Tirunelveli Distr., W. Ghats, Agasthyamalai, Kannikatti, ca 500 m., 30 July 1999, *Daniels 628A* [*Daniels & Daniel 2003c: 392*].

***Fissidens subbryoides* Gangulee**

- Kanyakumari Dist., W. Ghats, Maramalai, ca 750 m., 25 Feb 1999, *Daniels 412* [*Daniels 2003; Daniels & Daniel 2007b*].

Fissidens subpulchellus Nork. = *Fissidens pulchellus* Mitt. [Iwatsuki & Suzuki 2005]

Fissidens sylvaticus Griff. var. *auriculatus* (Müll.Hal.) Gangulee = *Fissidens crispulus* Brid. [Ind. Musc.]

Fissidens sylvaticus Griff. var. *terracola* (Müll.Hal.) Gangulee = *Fissidens terracola* Müll.Hal. [Ind Musc.]

Fissidens tamarandifolius var. *crispulus* Brid. = *Fissidens crispulus* Brid. var. *crispulus* [Bruggeman-Nannenga 1997]

***Fissidens teracola* Müll.Hal.**

- Tirunelveli Dist., W. Ghats, Mundanthurai, ca 230 m., 30 July 1999, *Daniels 558* [*Daniels 2003*].

***Fissidens virens* Thwaites & Mitt.**

- Kanyakumari Dist., W. Ghats, Maramalai, ca 750 m., 25 Feb 1999, *Daniels 413* [*Daniels 2003*].

***Fissidens walkeri* Broth. var. *elimbatis* (Broth.) Dixon**

- Bottom Station at 900 m., 1929, *Foreau 1216* [*Dixon & Potier de la Varde 1930: 185; Foreau 1961: 16*].

Fissidens walkeri* Broth. var. *walkeri

- Mundanthuri, Tinnevelly, *Foreau 957* [*Dixon & Potier de la Varde 1930: 185*].

- Manalur at 1067 m., 1926 [*Foreau 1961: 16*].

- (without details) [*Daniels 2004*]. Endemic to S. India.

Fissidens xiphioides M.Fleisch. = *Fissidens zollingeri* Mont. [Iwatsuki 1991]

Fissidens zippelianus Dozy & Molk. = *Fissidens crispulus* Brid. var. *crispulus* [Bruggeman-Nannenga 1997]

***Fissidens zollingeri* Mont.**

- Upper Palnis: Tiger Shola, Villupatti paddy fields; Lower Palnis: Togaivarai Shola; Sirumalai; [*Foreau 1930: 7*, as *Fissidens coorgensis* Broth.].

- Tiger Shola at 1676 m., 1923 [*Foreau 1961: 15*, as *Fissidens coorgensis* Broth.].

- Palni [Gangulee 1971: 484].

- Tirunelveli Dist., W. Ghats, Mundanthurai, ca 260 m., 30 July 1999, *Daniels 565, 571*;

- Kanyakumari Dist., W. Ghats, Chungankadai, ca 50 m., 20 June 1999, *Daniels 476b*; W. Ghats, Kulasekharam, ca 200 m., 24 June 1999, *Daniels 503, 514* [*Daniels 2003*].

Floribundaria chloronema (Müll.Hal.) M.Fleisch. = *Trachycladiella sparsa* (Mitt.) M.Menzel [Menzel & Schultze-Motel 1994]

***Floribundaria floribunda* (Dozy & Molk.) M.Fleisch.**

- André no. 16 [*Potier de la Varde 1923: 73*].

- Upper Palnis: Shembaganur, Tiger Shola; Lower Palnis: Permalmalai, Togaivarai Shola [*Foreau 1931: 120*].

- Palni [Gangulee 1976: 1302].

- Pilar Rocks, 3 Aug 1973, *Tixier s.n.* (PC) [*Tixier 1979: 114*].

Floribundaria sparsa var. *sparsa* (Mitt.) Broth. = *Trachicladiella sparsa* (Mitt.) Broth. [Menzel & Schultze-Motel 1994]

Floribundaria thuidioides M.Fleisch.

- Togaivarai Shola, 11 Apr 1926 (no. 277) [Dixon & Potier de la Varde 1927: 184].
- Lower Palnis: Togaivarai Shola [Foreau 1931: 119].

Floribundaria walkeri (Renauld & Cardot) Broth.

- Mussoorii, 6000–7000 ft., *Duthie 559*; Dhanvaeti, ca 8000 ft., on trees, coll. *Bahadru*, paratype? of *Papillaria walkeri* (FI) & Bryotheca E. Levier 5790; on bush, Barlow to Mossy Falls, ca 4000 ft., *Iwatsuki & Sharp 10947* (NICH, TENN) [Noguchi 1976: 274].

Foreauella indica Dixon & P.de la Varde = *Foreauella orthothecia* (Schwägr.) Dixon & P.de la Varde [Dixon 1937]

Foreauella orthothecia (Schwägr.) Dixon & P.de la Varde

- Manalur, 1924, leg. *Foreau* (nos. 491, 524 & 527); Mulliyar, Pulney Hills (no. 571); Lower Pulneys, 1927 (no. 389); Periyur, 1924 (no. 555); along Parappar River, 1924, leg. *Fr. Shembry* (nos. 395 & 396) [Dixon & Potier de la Varde 1927: 175].
- PC; BM; RHT [Matthew 1973: 522].
- Palni (very common in Foreau collections) [Gangulee 1980: 1888].

Forsstroemia indica (Mont.) Paris

- *Katie* in montibus Nilgheriensibus detexit cl. *Perrottet* [Montagne 1842a: 250, as *Pterogonium indicum* Mont.].
- Nilgheri [Müller 1854: 569].
- In mont. Nilghiri, *Perrottet!* *Gough!* *Foulkes!* et *Schmid* [Mitten 1859: 125].
- Madure, leg. *André* no. 153 [Potier de la Varde 1923: 72].
- Upper Palnis: Tiger Shola; Lower Palnis: Tiger Shola; Lower Palnis: Permalmalai, Togaivarai Shola, Manalur, Periyur [Foreau 1931: 119].
- Manalur at 914 m., 1926; Tovaiparai at 1371 m., 1926; Tiger Shola at 1676 m., 1926 [Foreau 1961: 30].

Type: Nilgiri hills, *Perrottet s.n.* (FH).

Funaria buseana (Dozy & Molk.) Broth. = *Entosthodon buseanus* Dozy & Molk. [Fife 1982]

Funaria calvescens Schwägr. = *Funaria hygrometrica* Hedw. var. *calvescens* (Schwägr.) Mont. [Bowers 1970]

Funaria diversinervis (Müll.Hal.) Broth. = *Entosthodon diversinervis* Müll.Hal. [Brotherus 1853]

Funaria excurrentinervis Cardot & P.de la Varde

- Palni Hills [Foreau 1961: 24].
- PC; BM [Matthew 1973: 522].

Type: Palni hills, collector's name not mentioned (PC; BM). Endemic to Palni hills.

Funaria hygrometrica Hedw. – if no variety mentioned, treat as *Funaria hygrometrica* Hedw. var. *hygrometrica*.

Funaria hygrometrica Hedw. var. *calvescens* (Schwägr.) Mont.

- Nilgheri [Montagne 1842a: 253].
- Shembaganur, *Queste 17* [Dixon 1914: 79].
- Nilgiri, Palni [Gangulee 1974: 858].

Funaria hygrometrica Hedw. var. *hygrometrica*

- Sowohl von *Perrottet* [Müller 1853: 19].

Funaria perrottetii (Podp.) Broth.

- Kaitie [Montagne 1842a: 256, as *Physcomitrium perrottetii* Mont.].

Funaria physcomitrioides Mont. = *Entosthodon physcomitrioides* (Mont.) Mitt. [Mitten 1859]

Funaria pilifera (Mitt.) Broth. = *Entosthodon pilifer* Mitt. [Mitten 1859]

Funaria planifolia (Thwaites & Mitt.) Broth. = *Entosthodon planifolius* Thwaites & Mitt. [Mitten 1859]

Funaria pulchra Dixon & P.de la Varde

- Manalur, Lower Pulneys, 1924 (no. 512), 1926 (nos 333 & 437); Kumili, 3000 ft., 1924 (no. 607); Parappar Torrent, near Villupatti Paddy Fields, 1926 (no. 518) [Dixon & Potier de la Varde 1927: 169].
- Manalur at 914 m., 1926; Villupatti at 1371 m., 1926 [Foreau 1961: 24].

– PC; BM; RHT [Matthew 1973: 523].

Type: Palni hills, *Foreau 512* (PC; BM; RHT). Endemic to S. India.

Funaria sinuatolimbata Cardot & P.de la Varde

– Perumalmalai Shola, upper part, c. 6500 ft., 5 Apr 1926 (no. 205) [Dixon & Potier de la Varde 1927: 179].

– Kodaikanal at 2133 m., 1909; Perumalmalai Shola at 1981 m., 1926 [Foreau 1961: 24].

– PC; BM [Matthew 1973: 523].

Type: Palni hills, *André 345* (PC; BM). Endemic to Palni hills.

Funaria subimmarginata Cardot & P.de la Varde

– Environs de Shembaganur, 1909, leg. *Rev. A. Vellé*, no. 114 [Potier de la Varde 1923: 19].

– Perumalmalai Shola, by stream in open, 28 mars 1926 (No. 135); Pambar Torrent, 8 fev 1927 (No. 683 et 807) [Dixon & Potier de la Varde 1927].

– Shembaganur at 1828 m., 1909 [Foreau 1961: 24].

Type: Palni hills, *Vellé 114* (PC; BM). Endemic to Palni hills.

Funaria submarginata (Müll.Hal.) Broth. = *Entosthodon submarginatus* Müll.Hal. [Fife 1982]

Funaria wallichii (Mitt.) Broth. = *Entosthodon buseanus* Dozy & Molk. [Fife 1982]

Funaria wichurae (M.Fleisch.) Broth. = *Entosthodon wichurae* M.Fleisch. [Fife 1982]

Gammiella capillacea (Griff.) Tixier = *Pylaisiadelpha capillacea* (Griff.) B.C.Tan & Y.Jia [Tan & Jia 1999]

Gammiella ceylonensis (Broth. in Herzog) B.C.Tan & W.R.Buck

– Shembaganur 1912, no. 248, as *Clastobryella ceylonensis* (Broth.) Broth. [Potier de la Varde 1925: 41].

– Perumalmalai Shola, Pulney Hills, 28 Mar 1926 (no. 101a) [Dixon & Potier de la Varde 1927: 174].

– Kodaikanal, 1929, *Foreau 1090*; Shembaganur, *Foreau 1374, 1375* [Dixon & Potier de la Varde 1930: 190, as *Clastobryum ceylonense*].

– PC; BM; RHT [Matthew 1973: 521].

– Palni [Gangulee 1980: 1849].

Garckea flexuosa (Griff.) Margad. & Nork.

– Tirunelveli Dist., W. Ghats, Mundanthurai, ca 220 m., 30 July 1999, *Daniels 555* [Daniels 2003].

Garovaglia conchophylla Renauld & Cardot = *Pterobryopsis acuminata* (Hook.) M.Fleisch. [Noguchi 1980b]

Gemmabryum acuminatum (Harv.) J.R.Spence & H.P.Ramsay = *Brachymenium pungens* Taylor [Pedersen & Hedenäs 2005]

Gemmabryum apiculatum (Schwägr.) J.R.Spence & H.P.Ramsay = *Bryum apiculatum* Schwägr. [Pedersen & Hedenäs 2005]

Gemmabryum coronatum (Schwägr.) J.R.Spence & H.P.Ramsay = *Bryum coronatum* Schwägr. [Pedersen & Hedenäs 2005]

Glossadelphus anisopterus (Cardot & P.de la Varde) Broth.

– Kodaikanal, 1909, leg. *André* (no. 191 p.p.) [Potier de la Varde 1923: 79].

– Perumal, Palnis, *Foreau 767*; Korappur, near Shembaganur, ca. 6000 ft., May 1928, *Foreau 1001* [Dixon & Potier de la Varde 1930: 190].

– Kodaikanal at 2133 m., 1928 [Foreau 1961: 43].

– Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 116]. Endemic to S. India.

Glossadelphus isopterygioides (Dixon) Broth. = *Campylodontium flavescens* (Hook.) Bosch & Sande Lac. = *Mesonodon flavescens* (Hook.) W.R.Buck [Buck 1980b]

Glossadelphus ivoreanus (Mitt.) M.Fleisch.

– In mont. Nilghiri, *McIvor* [Mitten 1859: 105].

Glossadelphus scutellifolius (Besch.) M.Fleisch. = *Phylloodon scutellifolius* (Besch.) W.R.Buck [Buck 1987b]

Glossadelphus subretusus (Thwaites & Mitt.) M.Fleisch. = *Taxiphyllum subretusum* (Thwaites & Mitt.) O'Shea [O'Shea 2002]

Glossadelphus vivicolor Broth. & Dixon = *Bryocrumia vivicolor* (Broth. & Dixon) W.R.Buck [Buck 1987b]

Glossadelphus zollingeri (Müll.Hal.) M.Fleisch. = *Ectropothecium zollingeri* (Müll.Hal.) A.Jaeger [Jaeger 1880]

Glyphocarpa roylei Hook.f. = *Bartramidula roylei* (Hook.f.) Bruch & Schimp. [Bruch & Schimper 1846]

- Glyphomitrium indicum* (Schrad.) Mitt. = *Ptychomitrium indicum* (Schrad.) A.Jaeger [Ind. Musc.]
Glyphomitrium nymanianum M.Fleisch. = *Hyophila nymaniana* (M.Fleisch.) M.Menzel [Zander 1993]
Grimmia affinis Hornsch. = *Dryptodon fuscoluteus* (Hook.) Ochyra & Zarnowiec [Ochyra & Zarnowiec 2003]
Grimmia apophysata Gangulee = *Dryptodon indicus* (Dixon & P.de la Varde) Ochyra & Zarnowiec [Ochyra & Zarnowiec 2003]
Grimmia fuscolutea Hook. = *Dryptodon fuscoluteus* (Hook.) Ochyra & Zarnowiec [Ochyra & Zarnowiec 2003]
Grimmia indica (Dixon & P.de la Varde) Goffinet & Greven = *Dryptodon indicus* (Dixon & P.de la Varde) Ochyra & Zarnowiec [Ochyra & Zarnowiec 2003]
Grimmia laxifolia Hook.f. = *Oreoweisia laxifolia* (Hook.f.) Kindb. [Gangulee 1971]
- Grimmia longirostris*** Hook.
– Upper Palnis: Kodaikanal [Foreau 1930: 11, as *Grimmia neilgherriensis* Müll.Hal.].
Grimmia ovalis (Hedw.) Lindb. = *Dryptodon fuscoluteus* (Hook.) Ochyra & Zarnowiec [Ochyra & Zarnowiec 2003]
- Groutiella goniorrhyncha*** (Dozy & Molk.) E.B.Bartram.
– Tiger Shola; Gundar Shola; Top Station; Bombay Shola; Pilar Rocks; Kodaikanal, Aug 1973, Tixier s.n. (PC) [Tixier 1979: 113].
- Gymnostomiella vernicosa*** (Hook. ex Harv.) M.Fleisch. var. ***vernicosa***
– Madras [Foreau 1930: 11, as *Pottia vernicosa* (Hook.) Hampe].
- Gymnostomiella vernicosa*** (Hook.) M.Fleisch. var. ***tenerum*** (Müll.Hal. ex Dusén) Arts
– Madras, 'Somerford', in *Hyophila spathulata*, G. Foreau s.n., 18 Dec 1925 (herb. Sollman, dupl. ex NY [Arts 1998: 426].
Gymnostomum aestivum Hedw. = *Anoectangium aestivum* (Hedw.) Mitt. [Zander 1993]
Gymnostomum involutum Hook. = *Hyophila involuta* (Hook.) A.Jaeger [Magill 1981 [1982]]
Gymnostomum recurvum Griff. = *Bellibarbula recurva* (Griff.) R.H.Zander [Zander 1993]
Gymnostomum spathulatum Harv. = *Hyophila spathulata* (Harv.) A.Jaeger [Gangulee 1972]
Gymnostomum vernicosum Hook. ex Harv. = *Gymnostomiella vernicosa* (Hook. ex Harv.) M.Fleisch. [Fleischer 1904]
Gymnostomum xanthocarpum Hook. = *Hymenostylium recurvirostrum* (Hedw.) Dixon [Wijk *et al.* 1967]
- Haplocladium microphyllum*** (Hedw.) Broth. subsp. ***virginianum*** (Brid.) Reimers
– Sans localité précise (no. 643) [Dixon & Potier de la Varde 1927: 173].
– Upper Palnis: Kodaikanal [Foreau 1931: 122].
– Kodaikanal at 2133 m., 1959 [Foreau 1961: 38].
– PC; BM; RHT [Matthew 1973: 523].
Haplocladium vestitum Dixon & P.de la Varde = *Haplocladium microphyllum* (Hedw.) Broth. subsp. *virginianum* (Brid.) Reimers [Ind. Musc.]
Hedwigia integrifolia P.Beauv. = *Hedwigidium integrifolium* (P.Beauv.) Dixon [Magill & Schelpe 1979]
Hedwigia secunda Hook. = *Braunia secunda* (Hook.) Bruch & Schimp. [Bartram 1949]
Hedwigidium imberbe (Sm.) Bruch & Schimp. = *Hedwigidium integrifolium* (P.Beauv.) Dixon [Magill & Schelpe 1979]
- Hedwigidium integrifolium*** (P.Beauv.) Dixon
– Upper Palnis: Kodaikanal, Shembaganur, leg. Queste [Foreau 1931: 118].
- Herpetineuron toccae*** (Sull. & Lesq.) Cardot
– Upper Palnis: Tiger Shola [Foreau 1931: 122].
– Palni [Gangulee 1978: 1589].
- Himantocladium cyclophyllum*** (Müll.Hal.) M.Fleisch.
– High Wavy Mountains (Meghamali), Theni District, nos. 323b, 324 [Blatter 1929: 877].
– High Wavy Mountains, Madura, 1917, Blatter & Hallberg 323 [Dixon & Potier de la Varde 1930: 190].
– Lower Palnis: Togaivarai Shola, Periyur [Foreau 1931: 121].
Himantocladium rugulosum (Mitt.) M.Fleisch. = *Himantocladium cyclophyllum* (Müll.Hal.) M.Fleisch. [Enroth 1992]
- Holomitrium densifolium*** (Wilson) Wijk. & Margad.
– Kodaikanal, coll. no. 86-386; Perumal, 361–363 [Potier de la Varde 1925: 42].
– Upper Palnis: Kodaikanal, Tiger Shola; Lower Palnis: Manalur, Periyur [Foreau 1930: 9].
– Perumalmalai at 1600 m., 1926; Kodaikanal at 2170 m., 1929 [Foreau 1961: 18].

Holomitrium griffithianum Mitt. = *Holomitrium densifolium* (Wilson) Wijk & Margad. [Gangulee 1971]
Homalia exigua Bosch & Sande Lac. = *Homaliodendron exiguum* (Bosch & Sande Lac.) M.Fleisch. [Fleischer 1908]

Homalia obtusata Mitt. = *Homalia trichomanoides* (Hedw.) Schimp. [He 1997]

Homalia pygmaea Broth. = *Symphyodon pygmaeus* (Broth.) S.He & Snider [He & Snider 2000]

Homalia pygmaea Broth. var. *elongata* Dixon & P.de la Varde = *Symphyodon complanatus* Dixon [He 1992]

***Homalia trichomanoides* (Hedw.) Schimp.**

- Tirunelveli Dist., W. Ghats, Chengaltheri, ca 650 m., 29 Aug 1995, *Daniels 11* p.p. [Daniels 2003; Daniels & Daniel 2007b].

***Homaliadelphus targionianus* (Mitt.) Dixon & P.de la Varde**

- Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai Shola, Manalur, Periyur [Foreau 1931: 121].
- Nilgiri, Palni [Gangulee 1976: 1432].
- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 114].
- Tirunelveli Dist., W. Ghats, Chengaltheri, ca 650 m., 29 Aug 1995, *Daniels 11* p.p. [Daniels 2003].

***Homaliodendron exiguum* (Bosch & Sande Lac.) M.Fleisch.**

- André no. 148 [Potier de la Varde 1923: 74].
- Higher Palnis: Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai Shola, Periyur [Foreau 1931: 121].
- Palni [Gangulee 1976: 1414].
- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 114].
- Tirunelveli Dist., W. Ghats, Chengaltheri, ca 650 m., 29 Aug 1995, *Daniels 11* p.p. [Daniels 2003].

***Homaliodendron flabellatum* (Sm.) M.Fleisch.**

- hab. in locis siccis circa Ootacamund [Montagne 1842a: 248, as *Neckera dendroides* Hook.].
- André no 27 [Potier de la Varde 1923: 74].
- Upper Palnis: Shembaganur; Lower Palnis: Perumalmalai [Foreau 1931: 121].
- Kodaikanal at 2110m., 1959; Tovaiparai at 1370 m., 1969 [Foreau 1961: 34].
- Palni, Nilgiri [Gangulee 1976: 1428].
- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 114].
- Tirunelveli Dist., W. Ghats, Mundanthurai, ca 350 m., 19 Mar 1999, *Daniels 429*; Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1438* [Daniels 2003].

***Homaliodendron microdendron* (Mont.) M.Fleisch.**

- Shembaganur no. 94 [Potier de la Varde 1925: 42].
- Palni [Gangulee 1976: 1416].
- Tirunelveli Dist., W. Ghats, Chengaltheri, ca 650 m., 29 Aug 1995, *Daniels 11* p.p. [Daniels 2003].

***Homaliodendron montagneanum* (Müll.Hal.) M.Fleisch.**

- In mont. Nilgiri, *Perrottet*, Type (PC) [Mitten 1859: 118, as *Neckera montagneana* Müll.Hal.].
- Tirunelveli Dist., W. Ghats, Chengaltheri, ca 650 m., 29 Aug 1995, *Daniels 11* p.p. [Daniels 2003].

Homaliodendron obtusatum (Mitt.) Gangulee = *Homalia trichomanoides* (Hedw.) Schimp. [He 1997]

Homaliodendron sphaerocarpum Nog. = *Noguchiodendron sphaerocarpum* (Nog.) Ninh & Pócs [Ninh & Pocs 1981]

Homalothecium nilgheriense (Mont.) H.Rob. = *Palamocladium leskeoides* (Hook.) E.Britton [Kürschner 2000]

***Homalothecium sericeum* (Hedw.) Schimp.**

- Nilgiri [Müller 1854: 572].
- Naduvattattum, 1780 m., on soil, August 1993, PAN-458? [Kumar & Maniselvan 1994: 102].

***Hookeria acutifolia* Hook. & Grev.**

- Shembaganur no. 121 [Potier de la Varde 1925: 42].
- Upper Palnis: Kodaikanal [Foreau 1931: 121].
- Palni [Gangulee 1976: 1494].

- Hookeria flabellata* Sm. = *Homaliodendron flabellatum* (Sm.) M.Fleisch. [Fleischer 1906]
Hookeria grevilleana Griff. = *Hookeria acutifolia* Hook. & Grev. [Gangulee 1977]
Hookeria leskeoides Hook. = *Palamocladium leskeoides* (Hook.) E.Britton [Britton 1913]
Hookeria microdendron Mont. = *Homaliodendron microdendron* (Mont.) M.Fleisch. [Fleischer 1906]
Hookeria mnijfolia Hornsch. = *Distichophyllum mnijfolium* (Hornsch.) Sim [Sim 1926]
Hookeria radiculososa Hook. = *Stereophyllum radiculosum* (Hook.) Mitt. [Bartram 1949]
Hookeria strumosa Hornsch. = *Leucomium strumosum* (Hornsch.) Mitt. [Allen 1987]
Hookeria utacamundiana Mont. = *Thamniopsis utacamundiana* (Mont.) W.R.Buck [Buck 1987a]
Hookeriopsis utacamundiana (Mont.) Broth. = *Thamniopsis utacamundiana* (Mont.) W.R.Buck [Buck 1987a]
Hydrogonium arcuatum (Griff.) Wijk & Margad. = *Barbula arcuata* Griff. [Griffith 1842]
Hydrogonium consanguineum (Thwaites & Mitt.) Hilp. = *Barbula javanica* Dozy & Molk. [Dozy & Molkenboer 1844]
Hydrogonium javanicum (Dozy & Molk.) Hilp. = *Barbula javanica* Dozy & Molk. [Dozy & Molkenboer 1844]
Hymenostomum edentulum (Mitt.) Besch. = *Weissia edentula* Mitt. [Mitten 1859]
Hymenostylium aurantiacum Mitt. = *Hymenostylium recurvirostre* (Hedw.) Dixon var. *aurantiacum* (Mitt.) Gangulee [Gangulee 1972]
Hymenostylium glaucum (Müll.Hal.) Broth. var. *cylindricum* E.B.Bartram = *Gymnostomum recurvirostrum* Hedw. [Crum & Bartram 1958]
- Hymenostylium recurvirostrum*** (Hedw.) Dixon var. ***aurantiacum*** (Mitt.) Gangulee
– Kanyakumari Dist., W. Ghats, Maramalai, 600–700 m., 2 Oct 2004, *J.B. Hepzi* 4, 13, 15, 18, 65 [Daniels & Kariyappa 2007].
- Hymenostylium recurvirostrum*** (Hedw.) Dixon var. ***recurvirostrum***
– Nilgieri [Montagne 1842a: 256, as *Gymnostomum xanthocarpum* Hook.].
– Kanyakumari Dist., W. Ghats, Maramalai, 600–650 m., 2 Oct 2004, *J.B. Hepzi* 28, 53 [Daniels & Kariyappa 2007].
- Hyophila comosa* Dixon & P.de la Varde = *Hyophila nymaniana* (M.Fleisch.) M.Menzel [Zander 1993]
- Hyophila grandiretis*** Dixon & P.de la Varde
– on wall, near Poonamalai Road, Madras, 9 Jan 1926 (no. 12, type); Nabob's Garden, Madras, 23 Dec 1925 (no. 11) [Dixon & Potier de la Varde 1927: 199].
– Poonamalai Road, Madras, *Foreau* 12, 1926 (PC, BM, RHT) [Foreau 1930: 11; Foreau 1964]. Endemic to Tamil Nadu.
- Hyophila involuta*** (Hook.) A.Jaeger
– Pembar Ravine, Kodaikanal, alt. 2400 m., 1912 [Potier de la Varde 1922: 43-44].
– High Wavy Mountains (Meghamali), Theni District, nos. 303, 308 [Blatter 1929: 877].
– Upper Palnis: Kodaikanal, Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai Shola; Periyur [Foreau 1930: 11].
– Palni Hills [Brühl 1931: 38].
– Nilgiri, Palni [Gangulee 1972: 683].
– Top Station, 3 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 112].
– Tirunelveli Dist., Mundanthurai, 200–300 m., 30 July 1999, *Daniels* 571, 576; Kanyakumari Dist., Nagercoil, ca 50 m., 4 Nov 1999, *Daniels* 804, 805, 806, 807, 809 [Daniels 2003; Aziz & Vohra 2008].
- Hyophila mollifolia*** Dixon & P.de la Varde
– Kodaikanal Road, Pulney Hills, Jan 1927 (no. 708) [Dixon & Potier de la Varde 1927: 167].
– Lower Palnis: Perumalmalai, no. 708, 1927 [Foreau 1930: 11].
– Palni hills, *Foreau* 12 (PC; BM; RHT) [Foreau 1961: 22].
– PC; BM; RHT [Matthew 1973: 523].
- Hyophila nymaniana*** (M.Fleisch.) M.Menzel
– Manalur, Lower Pulneys, 18 June 1926, coll. *Rev. Foreau* 339, 382 & 508); Kodaikanal Road, 2 Feb 1927 (no. 760) [Dixon & Potier de la Varde 1927: 166].
– Upper Palnis: Shembaganur, no. 760, 1927; Lower Palnis: Manalur, no. 339, 1926 [Foreau 1930: 10].
– Palni [Gangulee 1972: 687].
– PC; BM [Matthew 1973: 523].

- Tirunelveli Dist., Mundanthurai, ca 300 m., 30 July 1999, *Daniels* 572, 575; Kanyakumari Dist., Punniam, ca 50 m., 9 Oct 2001, *G. Shilu* 5A; 11 June 2002, *G. Shilu* 184 [Daniels 2003; Aziz & Vohra 2008].

Hyophila rosea R.S.Williams = *Hyophila nymaniana* (M.Fleisch.) M.Menzel [Zander 1993]

Hyophila spathulata (Harv.) A.Jaeger

- Somerford, Madras, 12.1925 (nos. 2, 4, 5 & 6) [Dixon & Potier de la Varde 1927: 179].
– Madras [Foreau 1930: 11].

- Kanyakumari Dist., Arumanai, ca 50 m., 9 June 2002, *G. Shilu* 172 [Daniels 2003; Aziz & Vohra 2008].

Hyophila validinervis Cardot & P.de la Varde

- Upper Palnis: Kodaikanal, Toger Shola, nos. 35, 1912; 40, 1926 [Foreau 1930: 11].
– PC: BM; RHT [Matthew 1973: 523].

Hyophila viridula Cardot & P.de la Varde

- Kodaikanal, Pambar Ravine, on moist rocks, alt. 2300 m., 10 Mar 1912, leg. *Foreau* [Potier de la Varde 1922: 44; Foreau 1961: 22].
– Upper Palnis: Kodaikanal, no. 198. 1912; Palni hills, *Foreau s.n.* (PC). Endemic to Palni hills [Foreau 1930: 11].
– PC [Matthew 1973: 523].

Hyophila walkeri Broth. = *Tortella walkeri* (Broth.) R.H.Zander [Zander 1993]

Hypnum albescens Hook. = *Isopterygium albescens* (Hook.) A.Jaeger [Jaeger 1878]

Hypnum alleghaniense Müll.Hal. = *Thamnobryum alleghaniense* (Müll.Hal.) Nieuwl. [Nieuwland 1917]

Hypnum alopecurum Hedw. = *Thamnobryum alopecurum* (Hedw.) Nieuwl. ex Gangulee [Gangulee 1976]

Hypnum appianatum Thwaites & Mitt. = *Schwetschkea appianata* (Thwaites & Mitt.) Broth. [Brotherus 1907]

Hypnum arquifolium Bosch & Sande Lac. = *Isopterygium arquifolium* (Bosch & Sande Lac.) A.Jaeger [Jaeger 1878]

Hypnum assurgens Sull. & Lesq. = *Claopodium assurgens* (Sull. & Lesq.) Cardot [Noguchi 1964]

Hypnum aureonitens Hook. ex Schwägr. = *Aerobrytidium aureonitens* (Hook. ex Schwägr.) Broth. [Noguchi 1976]

Hypnum buchananii Hook. = *Brachythecium buchananii* (Hook.) A.Jaeger [Vohra 1983]

Hypnum cameratum Mitt. = *Bryhnia decurvans* (Mitt.) Dixon [Vohra 1983]

Hypnum celebicum Sande Lac. = *Rhynchostegium celebicum* (Sande Lac.) A.Jaeger [Staples et al. 2004]

Hypnum chamissonis Hornsch. = *Ectropothecium chamissonis* (Hornsch.) A.Jaeger [Tan & Iwatsuki 1993]

Hypnum crispatum Hook. = *Trachypodopsis serrulata* (P.Beauv.) M.Fleisch. var. *crispatula* (Hook.) Zanten [Zanten 1959]

Hypnum cupressiforme Hedw.

- Neel-Gherries dictis a *Cl. Perrotet* [Montagne 1842a: 244].
– Pilar Rocks, 3 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 116].
– Palni [Gangulee 1980: 1974].

Hypnum cuspidiferum Mitt. = *Brachythecium buchananii* (Hook.) A.Jaeger [Ignatov & Koponen 1996]

Hypnum cuspidigerum Schwägr. = *Racopilum cuspidigerum* (Schwägr.) Ångstr. var. *cuspidigerum* [Aongström 1872]

Hypnum cymbifolium Dozy & Molk. = *Thuidium cymbifolium* (Dozy & Molk.) Dozy & Molk. [Dozy & Molkenboer 1865]

Hypnum cyperoides Hook. ex Harv. = *Ectropothecium cyperoides* (Hook. ex Harv.) A.Jaeger [Jaeger 1880]

Hypnum decurvans Mitt. = *Bryhnia decurvans* (Mitt.) Dixon [Dixon 1922]

Hypnum hamatum Dozy & Molk. = *Radulina borbonica* (Bel.) W.R.Buck [O'Shea 2006]

Hypnum hastatum Duby = *Philonotis hastata* (Duby) Wijk. & Margad. [Magill 1987]

Hypnum humile Harv. = *Sematophyllum humile* (Mitt.) Broth. [Wijk. et al. 1964]

Hypnum humillimum Mitt. = *Rhynchostegiella humillima* (Mitt.) Broth. [Brotherus 1909]

Hypnum inflexum Harv. = *Trachyphyllum inflexum* (Harv.) A.Gepp [Gepp 1901]

Hypnum investe Mitt. = *Pelekium investe* (Mitt.) Touw [Touw 2001a]

Hypnum jacquemontii Bruch & Schimp. ex Müll.Hal. = *Haplocladium jacquemontii* (Bruch & Schimp. ex Müll.Hal.) Broth. [Brotherus 1907]

Hypnum javanicum Bél. = *Rhynchostegium javanicum* (Bél.) Besch. [Bescherelle 1873]

Hypnum leptocarpon Schwägr. = *Warburgiella leptocarpa* (Schwägr.) M.Fleisch. [Fleischer 1923]

Hypnum lignicola Mitt. = *Isopterygium lignicola* (Mitt.) A.Jaeger [Jaeger 1878]

- Hypnum macrocarpum* Reinw. & Hornsch. = *Macrothamnium macrocarpum* (Reinw. & Hornsch.) M.Fleisch. [Fleischer 1905b]
- Hypnum megapolitanum* Blandow. = *Rhynchostgium megapolitanum* (Blandow. ex F.Weber & D.Mohr) Schimp.
- Hypnum minutirameum* Müll.Hal. = *Taxiphyllum minutirameum* (Müll.Hal.) H.A.Mill. & D.R.Sm. [Miller & Smith 1968]
- Hypnum nepalense* Schwägr. = *Taxithelium planum* (Brid.) Mitt. [Buck 1998]
- Hypnum nilgheriense* var. *ceylonicum* Müll.Hal. = *Palamocladium leskeoides* (Hook.) E.Britton [Hofmann 1997]
- Hypnum obtusulum* Mitt. = *Pseudoleskeopsis zippelii* (Dozy & Molk.) Broth. [Ochyra 1998]
- Hypnum orbiculatum* Mitt. = *Pseudoleskeopsis zippelii* (Dozy & Molk.) Broth. [Ochyra 1998]
- Hypnum orthothecium* Schwägr. = *Foreauella orthothecia* (Schwägr.) Dixon & P.de la Varde [Dixon 1937]
- Hypnum oxyrrhynchum* Dozy & Molk. = *Brachythecium plumosum* (Hedw.) Schimp. [Tan & Iwatsuki 1991]
- Hypnum plumosum* Hedw. = *Sciuro-hypnum plumosum* (Hedw.) Ignatov & Huttunen [Ignatov & Huttunen 2002]
- Hypnum plumulosum* Dozy & Molk. = *Thuidium plumulosum* (Dozy & Molk.) Dozy & Molk. [Dozy & Molkenboer 1865]
- Hypnum pohliaecarpum* Sull. & Lesq. = *Pseudotaxiphyllum pohliaecarpum* (Sull. & Lesq.) Z.Iwats. [Iwatsuki 1987]
- Hypnum prionophyllum* Müll.Hal. = *Claopodium prionophyllum* (Müll.Hal.) Broth. [Brotherus 1908]
- Hypnum pristocalyx* Müll.Hal. = *Thuidium pristocalyx* (Müll.Hal.) A.Jaeger var. *pristocalyx* [Jaeger 1878]
- Hypnum procumbens* Mitt. = *Brachythecium procumbens* (Mitt.) A.Jaeger [Jaeger 1878]
- Hypnum reticulatum* Dozy & Molk. = *Vesicularia reticulata* (Dozy & Molk.) Broth. [Brotherus 1908]
- Hypnum ripariooides* Hedw. = *Rhynchostegium ripariooides* (Hedw.) Cardot [Cardot 1913]
- Hypnum rusciforme* F.W.Weiss. ex Brid. = *Rhynchostegium ripariooides* (Hedw.) Cardot
- Hypnum salebrosum* Hoffm. ex F.Weber & D.Mohr = *Brachythecium salebrosum* (Hoffm. ex F.Weber & D.Mohr) Schimp. [Schimper 1853]
- Hypnum schmidii* Müll.Hal. = *Thamnobryum alleghaniense* (Müll.Hal.) Nieuwl. [Ind Musc.]
- Hypnum secundum* Mont. = *Brachythecium plumosum* (Hedw.) Schimp. [Gangulee 1978]
- Hypnum serratum* P.Beauv. = *Mittenothamnium serratum* (A.Jaeger) Cardot = *Mittenothamnium reptans* (Hedw.) Cardot [Buck 1993]
- Hypnum spiniforme* Hedw. = *Pyrrhobryum spiniforme* (Hedw.) Mitt. [Magill 1987]
- Hypnum struthiopteris* Brid. = *Lopidium struthiopteris* (Brid.) M.Fleisch. [Fleischer 1908]
- Hypnum subhumile* Müll.Hal. = *Sematophyllum subhumile* (Müll.Hal.) M.Fleisch. [Fleischer 1923]
- Hypnum subsimplex* Hedw. = *Sematophyllum subsimplex* (Hedw.) Mitt. [Mittem 1869]
- Hypnum tamariscellum* Müll.Hal. = *Pelekium versicolor* (Horns. ex Müll.Hal.) Touw [Touw 2001b]
- Hypnum tamarisci* Sw. = *Hypopterygium tamarisci* (Sw.) Brid. ex Müll.Hal. [Crum & Bartram 1958]
- Hypnum tamariscinum* Hedw. = *Thuidium tamariscinum* (Hedw.) Schimp. [Schimper 1852]
- Hypnum versicolor* Hornsch. ex Müll.Hal. = *Pelekium versicolor* (Horns. ex Müll.Hal.) Touw [Touw 2001a]
- Hypnum virginianum* Brid. = *Haplocladium microphyllum* (Hedw.) Broth. subsp. *virginianum* (Brid.) Reimers [Reimers 1937]
- Hypnum wallichii* Brid. = *Pseudotrichypus wallichii* (Brid.) W.R.Buck [Buck 1994b]
- Hypnum wightii* Mitt. = *Entodontopsis wightii* (Mitt.) W.R.Buck [Buck & Ireland 1985]
- Hypnum zippelii* Dozy & Molk. = *Pseudoleskeopsis zippelii* (Dozy & Molk.) Broth. [Brotherus 1907]
- Hypnum zollingeri* Müll.Hal. = *Ectropothecium zollingeri* (Müll.Hal.) A.Jaeger [Jaeger 1880]
- Hypopterygium aristatum* Bosch & Sande Lac. = *Hypopterygium flavolimbatum* Müll.Hal. [Kruijer 2002]
- Hypopterygium ceylanicum* Mitt. = *Hypopterygium tamarisci* (Sw.) Brid. ex Müll.Hal. [Kruijer 2002]
- Hypopterygium flavolimbatum*** Müll.Hal.
– Tirunelveli Dist., W. Ghats, Chengaltheri, ca 900 m., 30 Aug 2001, Daniels 1912 [Daniels 2003].
 Hypopterygium javanicum (Hampe) A.Jaeger = *Lopidium struthiopteris* (Brid.) M.Fleisch. [Kruijer 2002]
 Hypopterygium rotulatum (Hedw.) Brid. = *Hypopterygium tamarisci* (Sw.) Brid. ex Müll.Hal. [Kruijer 2002]
 Hypopterygium schmidii Müll.Hal. = *Racopilum schmidii* (Müll.Hal.) Mitt. [Ind. Musc.]
 Hypopterygium struthiopteris Brid. = *Lopidium struthiopteris* (Brid.) M.Fleisch. [Kruijer 2002]
- Hypopterygium tamarisci*** (Sw.) Brid. ex Müll.Hal.
– Neel-Gherries dictis a *Cl. Perrotet* [Montagne 1842a: 243, as *H. rotulatum* Brid.].
– Upper Palnis: Shembaganur, Tiger Shola; Lower Palnis: Perumalmalai, Togaivari Shola, Manalur, Periyar, Sirumalai [Foreau 1931: 121].
– Tiger Shola, 1 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 115].

- Tirunelveli Dist., W. Ghats, Chengaltheri, ca 900 m., 30 Aug 2001, *Daniels 1910, 1911*; Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1250 m., 19 Apr 2002, *Daniels 2003* [Daniels 2003].

Hypopterygium tenellum Müll.Hal. = *Hypopterygium tamarisci* (Sw.) Brid. ex Müll.Hal. [Kruijer 2002]

***Isopterygium albescens* (Hook.) A.Jaeger**

- Nilgheri [Müller 1854: 572].
 – Kodaikanal 103–200–382 [Potier de la Varde 1925: 42].
 – Kodaikanal at 2130 m., 1911 [Foreau 1961: 45].
 – Nilgiri Hills, Palni [Gangulee 1980: 1961].
 – Kanyakumari Dist., W. Ghats., Balamore, ca 1050 m., 11 May 2007, *J.L. Carmel 48, 50* [Daniels 2003].

Isopterygium arquifolium (Bosch & Sande Lac.) A.Jaeger = *Pseudotaxiphyllum arquifolium* (Bosch & Sande Lac.) Z.Iwats. [Iwatsuki 1987]

Isopterygium distichaceum (Mitt.) A.Jaeger = *Pseudotaxiphyllum distichaceum* (Mitt.) Z.Iwats. [Ireland 1991]

***Isopterygium lignicola* (Mitt.) A.Jaeger**

- Nilgiri [Gangulee 1980: 1965].
 – Kanyakumari Dist., W. Ghats, Balamore, ca 1050 m., 11 May 2007, *J.L. Carmel 40, 45* [Daniels 2003].
Isopterygium minutirameum (Müll.Hal.) A.Jaeger = *Taxiphyllum minutirameum* (Müll.Hal.) H.A.Mill. & D.R.Sm. [Miller & Smith 1968]
Isopterygium pohliaecarpum (Sull. & Lesq.) A.Jaeger = *Pseudotaxiphyllum pohliaecarpum* (Sull. & Lesq.) Z.Iwats. [Iwatsuki 1987]
Isopterygium subleptotapes Cardot & P.de la Varde = *Macrothamniella pilosula* (Mitt.) M.Fleisch. [Ind. Musc.]

***Isopterygium undulatum* Dixon & P.de la Varde**

- on stone in forest, abt. 5500 ft. alt. Eastern Nilghiris, Aug 1916, leg. *L.J. Sedgwick* [Potier de la Varde 1928: 47].
 – Nilgiri hills, *Sedgwick s.n.* (BM). Endemic to Nilgiri hills.

Isotheciopsis comes (Griff.) Nog. = *Neobarbella comes* (Griff.) Nog. [Tan & Isovita 1992]

Isothecium buchananii Brid. = *Meteoriump buchananii* (Brid.) Broth. [Brotherus 1906]

Isothecium nilgheriense Mont. = *Palamocladium leskeoides* (Hook.) E.Britton [Hofmann 1997]

Isothecium trichophorum Mont. = *Barbellopsis trichophora* (Mont.) W.R.Buck [Staples et al. 2004]

***Jaegerina stolonifera* Müll.Hal. var. *incrassata* P.de la Varde**

- region 'Shembaganur-Pérumal-Kodaikanal' [Potier de la Varde 1925: 39].
 – Lower Palnis: Perumalmalai [Foreau 1931: 119; Foreau 1961: 31].
 – PC [Matthew 1973: 523].

***Juratzaea indica* Broth. & P.de la Varde**

- Madure sine loc. 1912. no. 241 [Potier de la Varde 1925: 40].
 – Upper Palnis: Kodaikanal [Foreau 1931: 122].
 – Palnis [Brühl 1931: 85].
 – PC; BM; RHT [Matthew 1973: 523].

Type: Madurai, collector's name not mentioned, (BM)? Endemic to Tamil Nadu

Lejeunea biseriata Austin = *Solmsiella biseriata* (Austin) Steere [Steere 2007]

***Lepidopilidium furcatum* (Thwaites & Mitt.) Broth.**

- Kodaikanal 97, Perumal 365 [Potier de la Varde 1925: 42].
 – Upper Palnis: Kodaikanal [Foreau 1931: 121].

Lepidopilum furcatum Thwaites & Mitt. = *Lepidopilidium furcatum* (Thwaites & Mitt.) Broth. [Brotherus 1907]

***Leptophascum leptophyllum* (Müll.Hal.) J.Guerra & M.J.Cano**

- Perumalmalai Shola, 31 Dec 1926 (no. 524); Sirumalai, St Joseph's Estate, March 1927 (nos. 815 & 816) [Dixon & Potier de la Varde 1927: 169; Foreau 1930: 11].
 – PC; BM; RHT [Matthew 1973: 524].

***Leptotrichella denticulata* (Cardot & P.de la Varde) Ochyra**

- environs de Madure [Potier de la Varde 1922, p. 35].

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- Palni Hills 1909, leg. *G. André* [Foreau 1930: 8].
 - Kodaikanal at 2103 m., 1909 [Foreau 1961: 18].
 - Madurai, *collector's name not mentioned*, (BM)? [Daniels 2003]. Endemic to Tamil Nadu.
- Leptotrichella schmidii*** (Müll.Hal.) Ochyra
- Mont. Musc. Neilgher, no. 54, a *Perrottet* in terra nuda Neddoubetta lectus [Müller 1853: 40, as *Trematodon schmidii* C.Müll.].
- Leptotrichum divaricatum* Mitt. = *Dicranella divaricata* (Mitt.) A.Jaeger [Jaeger 1872]
- Leptotrichum griffithii* Mitt. = *Dicranella griffithii* (Mitt.) A.Jaeger [Jaeger 1872]
- Leptotrichum tortipes* Mitt. = *Ditrichum tortipes* (Mitt.) Kuntze var. *tortipes* [Kuntze 1891]
- Leskea consanguinea*** (Mont.) Mitt.
- Nigheri, coll. *Perrottet* [Montagne 1842a: 249, as *Pterogonium consanguineum* Mont.].
 - Nielghiri [Müller 1854: 574].
 - Nilgiri hills, *Perrottet s.n.* (FH) [Mitten 1859: 131].
 - Nilgiri hills [Chopra 1975: 416].
 - Naduvattum, 1740m, epiphyte, April 1992, PAN-4602 [Kumar & Maniselvan 1994: 102].
- Leskea contortula* Mitt. = *Pelekium contortulum* (Mitt.) Touw [Touw 2001a]
- Leskea floribunda* Dozy & Molk. = *Floribundaria floribunda* (Dozy & Molk.) M.Fleisch. [Magill 1981 [1982]]
- Leskea glaucina* Mitt. = *Thuidium pristocalyx* (Müll.Hal.) A.Jaeger var. *pristocalyx* [Watanabe 1991]
- Leskea pellucinervis* Mitt. = *Claopodium pellucinerve* (Mitt.) Best [Best 1900]
- Leskea rotulata* Hedw. = *Hypopterygium rotulatum* (Hedw.) Brid. [Bridel 1827]
- Leskea sericea* Hedw. = *Homalothecium sericeum* (Hedw.) Schimp. [Schimper 1851]
- Leskea sparsifolia* Mitt. = *Pelekium versicolor* (Hornschr. ex Müll.Hal.) Touw [Touw 2001b]
- Leskea subpinnata* Brid. = *Sematophyllum subpinnatum* (Brid.) E. Britton [Britton 1918]
- Leskea trichomanoides* Hedw. = *Homalia trichomanoides* (Hedw.) Schimp. [Schimper 1850]
- Leucobryum aduncum*** Dozy & Molk.
- Madure, leg. *André*, 1920 [Potier de la Varde 1922: 41 as *Leucobryum scalare* Müll.Hal.].
 - Upper Palnis: Shembaganur; Lower Palnis: Perumalmalai [Foreau 1930: 9].
 - Kodaikanal at 2133 m., 1911 [Foreau 1961: 20].
 - South India [Gangulee 1971: 429].
 - Tirunelveli Dist., W. Ghats, Agasthyamalai, ca 850 m., 26 Apr 2002, *Daniels 2071* [Daniels 2003].
- Leucobryum aduncum* var. *scalare* (Müll.Hal. ex M.Fleisch) A.Eddy = *Leucobryum aduncum* Dozy & Molk. [Enroth 1990]
- Leucobryum bowringii*** Mitt.
- Upper Palnis: Shembaganur, *Queste 16*, 1911 [Dixon 1914: 77; Foreau 1930: 9].
 - Shambaganur at 1844 m., 1911 [Foreau 1961: 20, as *Leucobryum angustifolium* Wilson].
 - Shembaganur at 1813 m., 1911 [Foreau 1961: 20].
 - Palni [Gangulee 1971: 420].
 - Tiger Shola; Gundar Shola, Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 111].
 - Tirunelveli Dist., W. Ghats, Agasthyamalai, ca 700 m., 26 April 2002, *Daniels 2043* [Daniels 2003].
- Leucobryum candidum*** (Brid. ex P.Beauv.) Wilson.
- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 111].
- Leucobryum cucullifolium* Cardot = *Leucobryum humillimum* Cardot [Yamaguchi 1993]
- Leucobryum humillimum*** Cardot
- Kodaikanal, 1912, no. 195, as *Leucobryum wichurae* Broth. [Potier de la Varde 1925: 42].
 - Manalur at 914 m., 1926 [Foreau 1961: 20].
 - Kodaikanal at 2133 m., 1911 [Foreau 1961: 20, as *Leucobryum wichurae* Broth.].
 - Tirunelveli Dist., W. Ghats, Agasthyamalai, ca 700 m., 26 Apr 2002, *Daniels 2042* [Daniels 2003].
- Leucobryum javense*** (Brid.) Mitt.
- High Wavy Mountains (Meghamali), Theni District, no. 320 [Blatter 1929: 877].
 - High Wavy Mountains, 5000–6000 ft., 1917, *Blatter & Hallberg 320* [Dixon & P.Varde 1930: 185].

- Palni [Gangulee 1971: 427].
- Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1250 m., 19 Apr 2002, *Daniels 1995* [Daniels 2003].

Leucobryum juniperoides (Brid.) Müll.Hal.

- Neilgher [Müller 1854: 556].
 - Madure, leg. André, 1920 [Potier de la Varde 1922, as *Leucobryum neilgherrense* Müll.Hal.].
 - Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai, Manalur [Foreau 1930: 9].
 - Palnis [Brühl 1931: 29].
 - Tiger Shola at 1885 m., 1912; Shembaganur, Old Ghat road, at 1870 m., 1959 [Foreau 1961: 20, as *Leucobryum neilgherrense* Müll.Hal.].
 - Nilgiri, Palni [Gangulee 1971: 425].
 - Tirunelveli Distr., W. Ghats, 900 m., 30 Aug 2001, *Daniels 1916, 1919, 1943* [Daniels & Daniel 2003c: 393].
- Leucobryum neilgherrense* Müll.Hal. = *Leucobryum juniperoides* (Brid.) Müll.Hal. [Yamaguchi 1993]
Leucobryum neilgherrense Müll.Hal. var. *minus* Cardot = *Leucobryum juniperoides* (Brid.) Müll.Hal.
[Yamaguchi 1993]
- Leucobryum wichertiae* Broth. ex Besch. = *Leucobryum humillimum* Cardot [Yamaguchi 1993]

Leucobryum wightii Mitt.

- In peninsula Madres, *Wight* ! [Mitten 1859: 25]. Type: Madras, *Wight s.n.* (BM). Uncertainly from Tamil Nadu, possibly endemic.

Leucodon rufescens Reinw. & Hornsch. = *Oedipodium rufescens* (Reinw. & Hornsch.) Mitt. [Mitten 1868]

Leucoloma amblyacron Müll.Hal. ex Besch.

- Kuttalam, Tinnevelly, 1929, *Foreau 1013b* [Dixon & Potier de la Varde 1930; La Farge-England 1997].
- PC; BM; RHT [Matthew 1973: 523].

Leucoloma amoenevirens Mitt.

- Nilgiri [Gangulee 1971: 410].
- S. India [Chopra 1975: 86].

Leucoloma brevifolium Dixon & P.de la Varde = *Leucoloma amblyacron* Müll.Hal. ex Besch. [La Farge-England 1997]

Leucoloma insigne (Müll.Hal.) A.Jaeger

- Tirunelveli Dist., W. Ghats, Narakkad, ca 500 m., 22 May 1997, *Daniels 255*; Kannikatti road, ca 500 m., 30 July 1999, *Daniels 630, 632* [Daniels 2003; Daniels 2004].

Leucoloma molle (Müll.Hal.) Mitt.

- Lower Palnis: Perumalmalai [Foreau 1930: 9].
- Kodaikanal at 2286 m., 1926 [Foreau 1961: 19].
- S. India (Kodaikanal) [Chopra 1975: 86].

Leucoloma nitens (Thwaites & Mitt.) A.Jaeger

- High Wavy Mountains (Meghamali), Theni District, no. 312 [Blatter 1929: 877].
- Kodaikanal, coll. *Foreau* [Dixon & Potier de la Varde 1930: 185].
- Lower Palnis: Perumalmalai [Foreau 1930: 9].
- Perumalmalai Shola at 1768 m., 1926 [Foreau 1961: 19].
- S. India (Kodaikanal) [Chopra 1975: 86].

Leucoloma renauldii Broth. = *Leucoloma tenerum* Mitt. [La Farge-England 1997]

Leucoloma tenerum Mitt.

- S. India, Nilgiri Hills [Chopra 1975: 87].

Leucoloma walkeri Broth. = *Leucoloma taylorii* (Schwägr.) Mitt. [La Farge-England 1997]

Leucomium strumosum (Hornsch.) Mitt.

- Sirumalai, *Foreau 2669* (BM) [Allen 1987].

Leucophanes glaucescens Müll.Hal. ex M.Fleisch. = *Leucophanes glaucum* (Schwägr.) Mitt. [Enroth 1990]

Leucophanes glaucum (Schwägr.) Mitt.

- Tirunelveli Dist., W. Ghats, Agasthyamalai, ca 900 m., 26 Apr 2002, *Daniels 2080* [Daniels & Daniel 2005].

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- Leucophanes leanum* Sull. = *Brothera leana* (Sull.) Müll.Hal. [Müller & Frahm 1987]
Leucophanes nicobaricum Müll.Hal. ex Gangulee = *Leucophanes octoblepharoides* Brid. [Enroth 1990]
- Leucophanes octoblepharoides* Brid.**
- Tirunelveli Dist., W. Ghats, Agasthyamalai, 750–850 m., 26 Apr 2002, *Daniels 2049*, 2074 [Daniels & Daniel 2005].
Levierella fabroniacea Müll.Hal. = *Levierella neckeroides* (Griff.) O'Shea & Matcham [O'Shea & Matcham 2005]
- Levierella neckeroides* (Griff.) O'Shea & Matcham**
- Thalaigutha, 1740 m., on tree trunk, August, *PAN-4678* [Maniselvan & Kumar 2000a: 32].
- Lopidium struthiopteris* (Brid.) M.Fleisch.**
- Ootacamund lectum [Montagne 1842a: 243, as *Hypopterygium struthiopteris* Brid.].
 - Nilgheri [Müller 1854: 557].
 - Upper Palnis: Shembaganur, Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1931: 121].
- Macgregorella indica* (Broth.) W.R.Buck**
- Upper Pulneys, Kodaikanal road, 5500 ft., 1928, *Foreau 988* [Dixon & Potier de la Varde 1930: 190, as *Schwetschkea indica* Broth.].
 - Lower Palnis: Togaivarai Shola [Foreau 1931: 122].
 - Palnis [Brühl 1931: 85].
 - Palni hills (Kodaikanal Road, Manalur), as *Schwetschkea indica* Broth. [Chopra 1975: 410].
- Macrocoma tenuis* (Hook. & Grev.) Vitt subsp. *sullivantii* (Müll.Hal.) Vitt**
- prope Kaitie [Montagne 1842a: 255, as *Macromitrium tenue* Brid.].
 - A Cl. Perrottet ad rupes siccis prope Kaitie lectum; Mont. Musc. Nilgh. no. 58 ? [Müller 1853: 60].
 - Upper Palnis: Tiger Shola [Foreau 1931: 118].
 - Nilgiri Hills [Gangulee 1976: 1174].
- Macromitrium calymperoideum* Mitt.**
- Palni Hills [Gangulee 1976: 1178].
 - Kanyakumari Dist., Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1513* [Daniels 2003].
Macromitrium ceylanicum Mitt. = *Macromitrium sulcatum* (Hook.) Brid. [Gangulee 1976]
- Macromitrium hamatum* Dixon**
- Tirunelveli Dist., W. Ghats, Kannikatti road, ca 460 m., 30 July 1999, *Daniels 606* [Daniels 2003; Daniels 2004].
- Macromitrium incurvifolium* (Hook. & Grev.) Schwägr.**
- circa Coonoor, Neel-Gherries dictis a Cl. *Perrottet* [Montagne 1842a: 255].
- Macromitrium japonicum* Dozy & Molk.**
- Palni Hills [Foreau 1931: 118].
- Macromitrium lingulatum* Cardot & P.de la Varde**
- Kodaikanal, 1909, leg. André 218 [Potier de la Varde 1923: 18].
 - PC [Matthew 1973: 523].
 - Bombay Shola; Gundat Shola, Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 113].
 Type: Palni hills, André 218 (PC). Endemic to Palni hills.
- Macromitrium moorcroftii* (Hook. & Grev.) Schwägr.**
- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1411* [Daniels 2003].
 - Western Ghats [Kumar & Singh 2002].
- Macromitrium muellerianum* Mitt.**
- Mont. Musc. Neilgher. no. 61? [Müller 1853: 62].
- Macromitrium neelgheriense* Müll.Hal. = *Macromitrium sulcatum* (Hook.) Brid. [Gangulee 1976]
- Macromitrium nepalense* (Hook. & Grev.) Schwägr.**
- "Several gatherings. They agree exactly with the North Indian plant." [Dixon & Potier de la Varde 1927].

- Upper Palnis: Kodaikanal, Tiger Shola, near Neutral Saddle; Lower Palnis: Togaivarai Shola, Periyur [Foreau 1931: 118].
- Palni [Gangulee 1976: 1185].

Macromitrium perrottetii Müll.Hal. = *Macrocoma tenuis* (Hook. & Grev.) Vitt subsp. *sullivantii* (Müll.Hal.) Vitt [Vitt 1980 [1981]]

Macromitrium polygonostomum Dixon & P.de la Varde

- Sirumalai, 4000 ft., April 1924, sterile (no. 439); Ibid., crete rocailleuse surplombant sentier d'Emmakkalapuram, March 1927 (nos. 844a, 844b & 845 [Dixon & Potier de la Varde 1927: 170]).
- Sirumalai, 1926, (no. 845) [Foreau 1931: 118].
- PC; BM; RHT [Matthew 1973: 523].

Type: Palni hills, *Foreau* 439 (PC; BM; RHT). Endemic to Tamil Nadu.

Macromitrium schmidii Müll.Hal.

- Musc. Neilgher. (no details) [Müller 1853: 61].
- Kodakanal no. 90, Perumal no. 90e [Potier de la Varde 1925: 39].
- Upper Palnis: Kodaikanal, Tiger Shola; Lower Panis: Perumalmalai [Foreau 1931: 118].
- PC; BM [Matthew 1973: 523, as *Macromitrium schmidii* var. *laxirete* Ther. & P.de la Varde].

Macromitrium serpens (Bruch ex Hook. & Grev.) Brid.

- circa Dodabett frequens [Montagne 1842a: 255].

Macromitrium spathulare Mitt. = *Macromitrium japonicum* Dozy & Molk. [Ind. Musc.]

Macromitrium sulcatum (Hook.) Brid.

- High Wavy Mountains (Meghamali), Theni District, nos. 304, 305, 313 [Blatter 1929: 877].
- Nilgiri [Gangulee 1976: 1183].

Macromitrium sullivantii Müll.Hal. = *Macrocoma tenuis* (Hook. & Grev.) Vitt subsp. *sullivantii* (Müll.Hal.) Vitt [Vitt 1980 [1981]]

Macromitrium turgidum Dixon

- Kanyakumari Dist., Muthukuzhivayal, ca 1250 m., 26 Jan 2001, Daniels 1403, 1422 [Daniels 2003; Daniels 2004].

Macrothamniella pilosula (Mitt.) M.Fleisch.

- Shembaganur, *Foreau* no. 18 [Potier de la Varde 1924: 12, as *Isopterygium subleptotapes* Cardot & P.de la Varde].
- Tres nombreuses localites (Perumalmalai, Manalur etc.) [Dixon & Potier de la Varde 1927].
- High Wavy Mountains (Meghamali), Theni District, no. 315 [Blatter 1929: 877].
- High Wavy Mountains, Madura, 5000–6000 ft., *Blatter & Hallberg* 315 [Dixon & Potier de la Varde 1930: 190].
- BM [Matthew 1973: 523].

Macrothamnium macrocarpum (Reinw. & Hornsch.) M.Fleisch.

- Shembaganur, *Queste* 4 [Dixon 1914: 85].
- leg. André no. 31 et 53 [Potier de la Varde 1923].
- Kodaikanal at 2103 m., 1949; Perumalmalai at 1676 m., 1959 [Foreau 1961: 46].
- Nilgiri, Palni [Gangulee 1980: 2031].

Macrothamnium submacrocarpum (A.Jaeger ex Renauld & Cardot) M.Fleisch. = *Macrothamnium macrocarpum* (Reinw. & Hornsch.) M.Fleisch. [Chiang 1995]

Megalostylium brevisetum Dozy & Molk. = *Dicranoloma brevisetum* (Dozy & Molk.) Paris [Paris 1904]
Merceyopsis spathulifolia Dixon & P.de la Varde = *Barbula spathulifolia* (Dixon & P.de la Varde) R.H. Zander [Zander 1993]

Mesonodon flavescens (Hook.) W.R.Buck

- André no. 178 [Potier de la Varde 1923: 77, as *Campylodontium flavescens* (Hook.) Bosch & Sande Lac.].
- Togaivarai Shola, 23 Jan 1927 (no. 654) [Dixon & Potier de la Varde 1927: 183].
- Lower Palnis: Perumalmalai [Foreau 1931: 123].
- Gundar Shola, 2 Aug 1973, *Tixier* s.n. (PC) [Tixier 1979: 115].

Meteoriopsis ancistrodes (Renauld & Cardot) Broth. = *Meteoriopsis reclinata* (Müll.Hal.) M.Fleisch. [Manuel 1977]

Meteoriopsis reclinata (Müll.Hal.) M.Fleisch.

- Nilgheri [Müller 1854: 572].
- André, no 25 [Potier de la Varde 1923: 73].
- Kodaikanal at 1860 m., 1959 [Foreau 1961: 33].
- Mt. Nilghiri, Bryotheca *E. Levier 1318b* [Noguchi 1976: 335].
- Kodaikanal, Palni Hills, 2150 m., coll. Foreau [Noguchi 1976: 335].
- Palni [Gangulee 1976: 1355].
- Tirunelveli Dist., W. Ghats, Mancholai, ca 1100 m., 24 Aug 2001, Daniels 1774 p.p. [Daniels 2003; Daniels 2004].

Meteoriopsis squarrosa (Hook. ex Harv.) M.Fleisch.

- High Wavy Mountains (Meghamali), Theni District, no. 323a [Blatter 1929: 877].
- Upper Palnis: Kodaikanal, Shembaganur, Tiger Shola; Lower Palnis: Perumalmalai; Sirumalai [Foreau 1931: 120].
- Shembaganur ca 1800 m., on trees, coll. Foreau, S.H. College, Musci Madur. Ind. Merid. Ens. 24 [Noguchi 1976: 224].
- Nilgiri, Palni [Gangulee 1976: 1351].

Meteoriopsis squarrosa var. ***longicuspis*** Nog.

- Mussoorie, Dhanoulti, ca 2400 m., on trees, coll. Bahadru, Bryotheca *E. Levier 5778* [Noguchi 1976: 334].
- *Meteoriopsis ancistrodes* Renauld & Cardot = *Meteoriopsis ancistrodes* (Renauld & Cardot) Broth. [Brotherus 1906] = *Meteoriopsis reclinata* (Müll.Hal.) M.Fleisch. [Manuel 1977]
- *Meteoriopsis attenuatum* Thwaites & Mitt. = *Aerobryidium wallichii* (Brid.) C.C.Towns. [Townsend 1978] = *Pseudotrichypus wallichii* (Brid.) W.R.Buck [Buck 1994b]

Meteoriopsis buchananii (Brid.) Broth.

- Nilgheri [Müller 1854: 570].
- André, nos. 144 et 145 [Potier de la Varde 1923: 73].
- Palnis [Brühl 1931: 71].
- Tiger Shola, 1 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 114].
- Nilgiri, Palni [Gangulee 1976: 1295].
- Upper Palnis: Kodaikanal, Shembaganur; Lower Palnis: Perumalmalai [Foreau 1931: 119].

Meteoriopsis buchananii (Brid.) Broth. forma *polytrichum* Gangulee = *Meteoriopsis polytrichum* Dozy & Molk. [Dozy & Molkenboer 1848]

Meteoriopsis commutatum Mitt. = *Trachycladiella sparsa* (Mitt.) M.Menzel [Menzel & Schultze-Motel 1994]

Meteoriopsis cubense Mitt. = *Barbellopsis trichophora* (Mont.) W.R.Buck [Buck 1998]

Meteoriopsis determesii Renauld & Cardot = *Barbellopsis trichophora* (Mont.) W.R.Buck [Buck 1998]

Meteoriopsis divergens Mitt. = *Pterobryopsis divergens* (Mitt.) Nog. [Noguchi 1965]

Meteoriopsis enerve Thwaites & Mitt. = *Barbellopsis trichophora* (Mont.) W.R.Buck [Buck 1998]

Meteoriopsis flexipes Mitt. = *Pterobryopsis schmidii* (Müll.Hal.) M.Fleisch. [Noguchi 1987]

Meteoriopsis helminthocladum (Müll.Hal.) M.Fleisch. = *Meteoriopsis subpolytrichum* (Besch.) Broth. subsp. *subpolytrichum* [Noguchi 1976]

Meteoriopsis membranaceum Mitt. = *Aerobryopsis membranacea* (Mitt.) Broth. [Brotherus 1906]

Meteoriopsis miquelianum (Müll.Hal.) M.Fleisch. = *Meteoriopsis polytrichum* Dozy & Molk. [Menzel 1992]

Meteoriopsis pendulum Sull. = *Neodicladiella pendula* (Sull.) W.R.Buck [Buck 1994b]

Meteoriopsis polytrichum Dozy & Molk.

- Nilgheri [Müller 1854: 569].
- Tirunelveli Dist., W. Ghats, Mundanthurai, ca 300 m., 30 Aug 2000, Daniels 972 [Daniels 2003].

Meteoriopsis retrorsum Mitt. = *Chrysocladium retrorsum* (Mitt.) M.Fleisch. [Fleischer 1908]

Meteoriopsis scabriuscum Mitt. = *Pterobryopsis scabriuscula* (Mitt.) M.Fleisch. [Fleischer 1905b]

Meteoriopsis sparsum Mitt. = *Trachycladiella sparsa* (Mitt.) M.Menzel [Menzel & Schultze-Motel 1994]

Meteoriopsis spiculatum Mitt. = *Barbella spiculata* (Mitt.) Broth. [Brotherus 1906]

Meteoriopsis subpolytrichum (Besch.) Broth. subsp. ***subpolytrichum***

- Nilgiri, Ootacamund, coll. Kamble 17663, type of *Meteoriump ustulatum* (S-PA). Kodaikanal, ca 2100 m., on tree trunks, coll Lalaraya (NICH 34483) [Noguchi 1976: 251].
- Tirunelveli Dist., W. Ghats, Mancholai, ca 1100 m., 24 Aug 2001, Daniels 1775 [Daniels 2003].
Meteoriump tumidum (Dicks ex. Hook.) Mitt. = *Calyptothecium recurvulum* (Broth.) Broth. [Hyvönen 1989b]
Meteoriump ustulatum Bosw. = *Meteoriump subpolytrichum* Broth. subsp. *subpolytrichum* [Menzel 1992]
Meteoriump wightii Mitt. = *Calyptothecium wightii* (Mitt.) M.Fleisch. [Fleischer 1905b]

Microcampylopus khasianus (Griff.) Giese & J.-P.Frahm

- Perumal 300, as *Campylodontium khasianum* Müll.Hal. [Potier de la Varde 1925: 42].
- Upper Palnis: Tiger Shola [Foreau 1930: 8].
- Tiger Shola at 1676 m., 1927 [Foreau 1961: 17].
- Shembaganur at 1981 m., 1959 [Foreau 1961: 19].
- Palni [Gangulee 1971: 270].
- Palni Hills, Aug 1973, Tixier s.n. (PC) [Tixier 1979: 111].
- Palni Hills, 1925–6, Foreau s.n., div. spec. as *M. subnanus* (BM, H-BR, NY, NO, U).
 Shembaganur, 1956–7, Foreau s.n. (BM). Munjikal, Foreau 773 (BM). Nilgiri Mts., Beddome 490 (M) [Geise & Frahm 1985b: 121].
Microcampylopus subnanus (Müll.Hal.) M.Fleisch. = *Microcampylopus khasianus* (Griff.) Giese & J.-P.Frahm [Gao 1994]

Mielichhoferia schmidii Müll.Hal.

- Musc. Neilgher. (no details) [Müller 1853: 19].
 - Nilgiri hills [Chopra 1975: 200].
- Type: Nilgiri hills, Perrottet s.n. (FH). Endemic to Nilgiri hills.

Mittenothamnium reptans (Hedw.) Cardot

- in sylvis umbrosis circa Ootacamund lectum [Montagne 1842a: 244-245, as *Hypnum serratum*].
Mniadelphus montagneanus Müll.Hal. = *Distichophyllum montagneanum* (Müll.Hal.) Bosch & Sande Lac. [Bosch & Sande Lac 1861]
Mniadelphus succulentus Mitt. = *Distichophyllum succulentum* (Mitt.) Broth. [Brotherus 1907]
Mnium aubertii Schwägr. = *Rhodobryum aubertii* (Schwägr.) Thér. [Theriot 1902]
Mnium commersonii Schwägr. = *Rhodobryum commersonii* (Schwägr.) Paris [Magill 1987]
Mnium coriaceum (Griff.) Mitt. = *Plagiomnium rhynchophorum* (Harv.) T.J.Kop. [Koponen 1981]
Mnium fontanum Hedw. = *Philonotis fontana* (Hedw.) Brid. [Bridel 1827]
Mnium giganteum Schwägr. = *Rhodobryum giganteum* (Schwägr.) Paris [Staples et al. 2004]
Mnium incertum Dixon ex Foreau = *Plagiomnium rhynchophorum* (Harv.) T.J.Kop. [Koponen 1983]
Mnium integrum Bosch & Sande Lac. = *Plagiomnium integrum* (Bosch & Sande Lac.) T.J.Kop. [Koponen 1971]
Mnium lycopodioides Schwägr. = *Mnium ambiguum* H.Müll. [Ignatov & Afonina 1992]
Mnium pseudotriquetrum Hedw. = *Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Scherb. var. *pseudotriquetrum* [Abramov & Abramova 1983]
Mnium rostratum Schrad. = *Plagiomnium rostratum* (Schrad.) T.J.Kop. [Staples et al. 2004]
Mnium rhynchophorum Harv. = *Plagiomnium rhynchophorum* (Harv.) T.J.Kop. [Koponen 1971]
Mnium roseum Hedw. = *Rhodobryum roseum* (Hedw.) Limpr. [Magill 1987]
Mnium succulentum Mitt. = *Plagiomnium succulentum* (Mitt.) T.J.Kop. [Koponen 1968]

Myuriump acuminatum (Dixon & P.de la Varde) S.He & Snider

- Upper Palnis, Madura, May 1929, Foreau 1185 [Dixon & Potier de la Varde 1930: 180, as *Symphyodon acuminatus*].
- PC; BM [Matthew 1973: 525].
- Madras State, Palni Hills, Foreau 1185 (NY), Type [He & Snider 1992].

Myuriump rufescens (Reinw. & Hornsch.) M.Fleisch. = *Oedicladium rufescens* (Reinw. & Hornsch.) Mitt. [Mitten 1868]

Nanothecium foreai Dixon & P.de la Varde

- Palni hills (Top Station) [Chopra 1975: 482]. Endemic to S. India.

Neckera acuminata Hook. = *Pterobryopsis acuminata* (Hook.) M.Fleisch. [Fleischer 1905b]

Neckera acutata Mitt. = *Himantocladium plumula* (Nees) M.Fleisch. [Enroth 1989]

Neckera aequalifolia Müll.Hal.

- Nilgieri [Müller 1854: 569].

- In mont. Nilgiri, *Foulkes! Schmid* [Mitten 1859: 120].
- Palni hills (locality not specified) [Chopra 1975: 360].

Type: Nilgiri hills, *Perrottet s.n.* (FH). Endemic to Nilgiri hills.

Neckera alopecuroides (Hook.) Mitt. = *Pinnatella alopecuroides* (Hook.) M.Fleisch. [Fleischer 1906]

***Neckera andrei* Thér. & P.de la Varde**

- Madure, sans precision de localite, 1920, leg. André nos 1 & 2 [Potier de la Varde 1923: 74].
- Pambar Torrent, 8 Feb 1927 (no. 814) [Dixon & Potier de la Varde 1927: 182].
- Upper Palnis: Kodaikanal (no. 208), 1912 [Foreau 1931: 121].
- Palni hills, *Foreau s.n.* (PC; BM) [Foreau 1961: 34]. Endemic to Palni hills.
- PC; BM [Matthew 1973: 524].
- Palni hills (Pambar Torent) [Chopra 1975: 360].

Neckera angusta Müll.Hal. = *Sympyodon angustus* (Müll.Hal.) A.Jaeger [Jaeger 1878]

Neckera blanda Harv. = *Diaphanodon blandus* (Harv.) Renaud & Cardot [Renaud & Cardot 1900]

Neckera capillacea Griff. = *Gammiebla capillacea* (Griff.) Tixier = *Pylaisiadelphe capillacea* (Griff.) B.C.Tan & Y.Jia [Tan & Jia 1999]

Neckera comes Griff. = *Isotheciopsis comes* (Griff.) Nog. [Noguchi 1970]

Neckera cordata Hook. ex Harv. = *Penzigiella cordata* (Hook. ex Harv.) M.Fleisch. [Ind. Musc.]

Neckera cyclophylla Müll.Hal. = *Himantocladium cyclophyllum* (Müll.Hal.) M.Fleisch. [Fleischer 1908]

Neckera dendroides Hook. = *Homaliodendron flabellatum* (Sm.) M.Fleisch. [Enroth 1989]

Neckera exserta Hook. ex Schwägr. = *Neckeropsis exserta* (Hook. ex Schwägr.) Broth. [Brotherus 1925]

Neckera filamentosa Hook. = *Aerobryidium filamentosum* (Hook.) M.Fleisch. [Ind. Musc.]

Neckera fuscescens Hook. = *Cryptopapillaria fuscescens* (Hook.) M.Menzel [Menzel 1992]

Neckera glossophylla Mitt. = *Homaliodendron microdendron* (Mont.) M.Fleisch. [Enroth 1989]

***Neckera goughiana* Mitt.**

- Nilgiri hills [Chopra 1975: 360].
- Tamil Nadu State, Nilghiri Hills, I. 1842, *Gough 56* (holotype NY) [Enroth 1994].
- Neckera hispida Müll.Hal. = *Trachypus bicolor* Reinw. & Hornsch. var. *hispidus* (Müll.Hal.) Cardot [Cardot 1905]
- Neckera julacea Hook. ex Schwägr. = *Erythrodontium julaceum* (Hook. ex Schwägr.) Paris [Paris 1896]
- Neckera leuconeura Müll.Hal. = *Papillaria leuconeura* (Müll.Hal.) A.Jaeger [Jaeger 1877]
- Neckera longissima Dozy & Molk. = *Aerobryopsis longissima* (Dozy & Molk.) M.Fleisch. [Fleischer 1905a]
- Neckera macropoda Hedw. = *Entodon macropodus* (Hedw.) Müll.Hal. [Müller 1844]
- Neckera montagneana Müll.Hal. = *Homaliodendron montagneanum* (Müll.Hal.) M.Fleisch. [Fleischer 1906]
- Neckera orientalis Müll.Hal. = *Pterobryopsis orientalis* (Müll.Hal.) M.Fleisch. subsp. *orientalis* [Fleischer 1917]

Neckera parvula Mitt. = *Thamnobryum parvulum* (Mitt.) R.S.Chopra [Chopra 1977]

Neckera pennata* Hedw. var. *pennata

- Palni hills (Manalur) [Chopra 1975: 360].

Neckera pennata* Hedw. var. *rhytidiodonta Dixon & P.de la Varde

- Environs de Perumal, 1923, leg. R.P. Foreau (no. 352) [Potier de la Varde 1928: 44].
- Lower Palnis: no. 352, 1923 [Foreau 1931: 120].
- Manalur at 914 m., 1923 [Foreau 1961: 34].

Type: Palni hills, *Foreau 352* (BM). Endemic to Palni hills.

Neckera rugulosa Mitt. = *Himantocladium cyclophyllum* (Müll.Hal.) M.Fleisch. [Enroth 1992]

Neckera scalpellifolia Mitt. = *Homaliodendron flabellatum* (Sm.) M.Fleisch. [Enroth 1989]

Neckera schmidii Müll.Hal. = *Pterobryopsis schmidii* (Müll.Hal.) M.Fleisch. [Fleischer 1905b]

***Neckera semicrispa* Cardot & P.de la Varde**

- Kodaikanal, Mai 1909, leg. André, no.95 [Potier de la Varde 1923: 74].
- Kodaikanal, 2133 m., 1909 [Foreau 1961: 35].
- PC; BM [Matthew 1973: 524]
- Palni hills (Kodaikanal) [Chopra 1975: 360].

Type: Palni hills, André 95 (BM). Endemic to Palni hills.

Neckera semitora Müll.Hal. = *Toloxis semitora* (Müll.Hal.) W.R.Buck [Buck 1994a]

Neckera spathulaefolia (Müll.Hal.) Mitt. = *Homaliodendron microdendron* (Mont.) M.Fleisch. [Tan & Iwatsuki 1991]

Neckera squarrosa Hook. ex Harv. = *Meteoriopsis squarrosa* (Hook. ex Harv.) M.Fleisch. [Noguchi 1976]

Neckera subserrata Hook. ex Harv. *Thamnobryum subserratum* (Hook. ex Harv.) Nog. & Z.Iwats. [Noguchi & Iwatsuki 1972 [1973]]

Neckera targioniana Mitt. = *Homaliadelphus targionianus* (Mitt.) Dixon & P.de la Varde [Dixon & P.de la Varde 1932]

Neckera tumida Dicks. ex Hook. = *Calyptothecium recurvulum* (Broth.) Broth. [Hyvönen 1989b]

Neckeropsis exserta (Hook. ex Schwägr.) Broth.

– Palni Hills: 1912 [Foreau 1931: 121].

– Palni hills (Shembaganur) [Chopra 1975: 365].

– Palni [Gangulee 1976: 1398].

Neobarbella comes (Griff.) Nog.

– High Wavy Mountains (Meghamali), Theni District, no. 321 [Blatter 1929: 877].

– High Wavy Mountains, Madura, 5000–6000 ft., May 1917, *Blatter & Hallberg* 323 [Dixon & Potier de la Varde 1930: 179].

Neodicladiella pendula (Sull.) W.R.Buck

– Upper Palnis: Tiger Shola [Foreau 1931: 119].

– Palni hills (Tiger Shola) [Chopra 1975: 343, as *Barbella pendula* (Sull.) M.Fleisch.].

– Palni [Gangulee 1976: 1334].

– Pillar Rocks, 3 Aug 1973, *Tixier s.n.*, (PC) [Tixier 1979: 114].

Noguchiodendron sphaerocarpum (Nog.) Ninh & Pócs

– Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels* 1433 p.p. [Daniels & Daniel 2007b].

Octoblepharum albidum Hedw.

– Upper Palnis: Kodaikanal, Tiger Shola [Foreau 1930: 9].

– Machur at 1371 m., 1959; Kodaikanal at 2150 m., 1953 [Foreau 1961: 20].

– South India [Gangulee 1971: 443].

Oedicladium rufescens (Reinw. & Hornsch.) Mitt.

– Kodaikanal, *André* no. 161; *Foreau et Roiné*, 1912, no. 43 musc. mad. [Potier de la Varde 1923: 72, as *Oedicladium warburgii* (Müll.Hal. in Broth.) M.Fleisch. var. *stenophyllum* Cardot & P. de la Varde].

– Upper Palnis: Shembaganur, Kodaikanal; Lower Palnis: Perumalmalai [Foreau 1931: 119].

– Palni hills (Shembaganur, Perumalmalai, Kodaikanal, Tiger Shola), including *Oedicladium warburgii* (Müll.Hal. in Broth.) M.Fleisch. [Chopra 1975: 318].

– Palni [Gangulee 1976: 1245].

Oreoweisia laxifolia (Hook.f.) Kindb.

– Musc. Neilgher. (no details) [Müller 1853: 60].

Orthotrichum concavifolium Griff. = *Schoenobryum concavifolium* (Griff.) Gangulee [Gangulee 1976]

Orthotrichum fimbriatum P.Beauv. = *Macromitrium fimbriatum* (P.Beauv.) Schwägr. [Schwägrichen 1823]

Orthotrichum firmum Venturi

– Nilgiri Hills; corticolous in the grounds of the Savoy Hotel, Ootacamund, 21 Jan 1973, *Townsend* 73/555 [Lewinsky 1980: 13].

Orthotrichum moorcroftii Hook. & Grev. = *Macromitrium moorcroftii* (Hook. & Grev.) Schwägr. [Schwägrichen 1826]

Orthotrichum nepalense Hook. & Grev. = *Macromitrium nepalense* (Hook. & Grev.) Schwägr. [Schwägrichen 1823]

Orthotrichum schmidii Müll.Hal. = *Ulota schmidii* (Müll.Hal.) Mitt. [Mitten 1859]

Oxyrrhynchium muelleri (A.Jaeger) Broth.

– (locality not mentioned, presumed Tamil Nadu), leg. *André* no. 162 [Potier de la Varde 1924: 11].

– PC; BM [Matthew 1973: 524].

Oxyrrhynchium ovatum Cardot & P.de la Varde

– Kodaikanal, leg. *Foreau* 23; musc. mad. no. 62; leg. *André* 128 [Potier de la Varde 1924: 11].

– Upper Palnis: Shembaganur, Tiger Shola [Foreau 1931: 123].

– Palni Hills [Brühl 1931: 98].

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- Gundar Shola, 2 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].
Type: Palni hills, *Foreau* 23 (PC; BM). Endemic to Palni hills.
 - Oxyrrhynchium schleicheri*** (R.Hedw.) Roll.
– Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].
 - Oxyrrhynchium vagans*** (A.Jaeger) Ignatov & Hüttenen
– Tiger Shola, near Parappar Torrent, 27 Mar 1926 (no. 74); Togaivarai Shola, ca 6000 ft., Apr 1926 (no. 266 & 294) [Dixon & Potier de la Varde 1927: 183].
 - Palni [Gangulee 1978: 1751].
 - Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].
 - Palnis [Vohra 1983].
Oxystegus cylindricus (Bruch ex Brid.) Hilp. = *Oxystegus tenuirostris* (Hook. & Taylor) A.J.E.Sm. = *Trichostomum tenuirostre* (Hook. & Taylor) Lindb. [Lindberg 1864]
Oxystegus cylindrothecus (Mitt.) Gangulee = *Pseudosymblepharis bombayensis* (Müll.Hal.) P.Sollman = *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2001]
 - Palamocladium leskeoides*** (Hook.) E.Britton
– ad rupes in montibus Nilgheriensibus lectum [Montagne 1842a: 246, as *Isothecium nilgheriense* Mont.].
 - Nilgheri [Müller 1854: 572].
 - Shembaganur, *Queste 20f* [Dixon 1914: 89, as *Pleuropus fenestratus*].
 - Perumal [Potier de la Varde 1925: 42, as *Pleuropus nilgheriensis* (Mont.) Cardot].
 - Upper Palnis: Kodaikanal, Shembaganur; Lower Palnis: Perumalmalai, Manalur, Periyur [Foreau 1931: 123].
 - Palnis [Brühl 1931: 94].
 - Palni [Gangulee 1978: 1695].
 - Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].
Palamocladium nilgheriense (Müll.Hal.) Paris = *Palamocladium leskeoides* (Hook.) E.Britton [Kurschner 2000]
Papillaria chrysocladia (Müll.Hal.) A.Jaeger = *Cryptopapillaria chrysocladia* (Müll.Hal.) M.Menzel [Menzel 1992]
 - Papillaria crocea*** (Hampe) A.Jaeger
– (locality unspecified), leg. André, nos. 9 et 132 [Potier de la Varde 1923: 73, as *Papillaria cuspidifera*].
 - Upper Palnis: Kodaikanal, Shembaganur, Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai Shola, Manalur [Foreau 1931: 120].
 - Kodaikanal at 2110 m., 1959; very common also at Shembaganur, Tiger Shola, Perumalmalai and Manalur [Foreau 1961: 33].
 - Kodaikanal Hill Station, 5000–8000 ft., coll. *Seshagiri* 45, c.fr. (Nog. 42468) [Noguchi 1976: 242].
 - Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 114].
Papillaria feae M.Fleisch. = *Trachypodopsis serrulata* var. *crispatula* [Noguchi 1976]
Papillaria flexicaulis (Wilson) A.Jaeger = *Trachypus flexicaulis* (Wilson) Mitt. [Jaeger 1877]
Papillaria fuscescens (Hook.) A.Jaeger = *Cryptopapillaria fuscescens* (Hook.) M.Menzel [Menzel 1992]
Papillaria helminthocladia Müll.Hal. = *Meteoriumpolytrichum* (Besch.) Broth. subsp. *subpolytrichum* [Noguchi 1976]
 - Papillaria leuconeura*** (Müll.Hal.) A.Jaeger
– Nilgheri [Müller 1854: 569; Noguchi 1976].
Papillaria semitorta (Müll.Hal.) A.Jaeger = *Toloxis semitorta* (Müll.Hal.) W.R.Buck [Buck 1994a]
 - Pelekium contortulum*** (Mitt.) Touw
– Tiger Shola, Pulney Hills, 18 Dec 1926, *R.P. Foreau* 715 [Potier de la Varde 1928: 46; Touw 2001b: 80].
 - Upper Palnis: Tiger Shola [Foreau 1931: 122].
 - Palnis [Brühl 1931: 90].
 - PC; BM; RHT [Matthew 1973: 525].

- Nilgiris, *Perrottet s.n.* (BM) [Touw 2001b: 83].
- Pelekium fuscatum** (Besch.) Touw
 - Palni Hills, Kodaikanal: *Foreau 236* (NY) [Touw 2001b: 98].
- Pelekium investe** (Mitt.) Touw
 - Upper Palnis: Shembaganur; Lower Palnis: Perumalmalai, Togaivarai Shola [Foreau 1931: 122].
- Pelekium versicolor** (Hornschr. ex Müll.Hal.) Touw
 - Upper Palnis: Kodaikanal, Tiger Shola; Lower Palnis: Manalur [Foreau 1931: 122].
 - Palnis [Brühl 1931: 89].
 - Palni [Gangulee 1978: 1639].
- Penzigiella cordata** (Hook. ex Harv.) M.Fleisch.
 - in montibus Nilgheriensibus [Montagne 1842a: 248].
 - Penzigiella hookeri* Gangulee = *Penzigiella cordata* (Hook. ex Harv.) M.Fleisch. [Gangulee 1976]
 - Phascum leptophyllum* Müll.Hal. = *Chenia leptophylla* (Müll.Hal.) R.H.Zander [Zander 1993] = *Leptophascum leptophyllum* (Müll. Hal.) J.Guerra & Cano [Guerra & Cano 2000]
 - Phascum leptophyllum* Müll.Hal. = *Chenia leptophylla* (Müll.Hal.) R.H.Zander = *Leptophascum leptophyllum* (Müll. Hal.) J.Guerra & Cano [J.Guerra & Cano 2000]
 - Philonotis alpicola* Jur.: illegitimate, type of earlier name included.
 - Philonotis anisoclada* Cardot & P.de la Varde = *Philonotis falcata* (Hook.) Mitt. [Ind. Musc.]
- Philonotis falcata** (Hook.) Mitt.
 - Nilgiri [Montagne 1842a: 253, as *Bartramia fontana* β *falcata* Hook.].
 - PC; BM [Matthew 1973: 524].
 - Nilgiri [Gangulee 1974: 1113].
- Philonotis fontana** (Hedw.) Brid.
 - Perumal, 253. Identique a la plante d'Europe! [Potier de la Varde 1925: 42, as *Philonotis tomentella*].
 - Palni [Gangulee 1974: 1116].
 - Kanyakumari Dist., foothills of W. Ghats, Arumanai, ca 50 m., 10 June 2002, *G. Shilu 174* [Daniels 2003; Daniels 2004].
 - Naduvattum, 1810 m., on soil, August 1993. *PAN-4587* [Kumar & Maniselvan 1994: 102].
- Philonotis hastata** (Duby) Wijk & Margad.
 - Perumal no. 267-272-358. Kodaikanal no. 109 [Potier de la Varde 1925, as *Philonotis heterophylla* Mitt.].
 - Top Station; Palni Hills, Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 112].
 - Kanyakumari Dist., W. Ghats foothills, Kuzhithurai, ca 50 m., 8 Oct 2001, *G. Shilu 3*; 21 Oct 2001, *G. Shilu 32, 33* [Daniels 2003; Daniels 2004].
 - Philonotis heterophylla* Mitt. = *Philonotis hastata* (Duby) Wijk. & Margad. [Eddy 1996]
 - Philonotis imbricatula* Mitt. = *Philonotis hastata* (Duby) Wijk. & Margad. [Magill 1987]
 - Philonotis laxissima* Mitt., nom. illeg. = *Philonotis hastata* (Duby) Wijk. & Margad. [Crosby et al. 1983]
 - Philonotis lutea* Mitt. = *Philonotis fontana* (Hedw.) Brid. [Koponen 1998]
- Philonotis macrocarpa** (Müll.Hal) Mitt.
 - Mont. Crypt. Nilgher, no. 41? [Müller 1853: 57].
- Philonotis mollis** (Dozy & Molk.) Mitt.
 - Tirunelveli Dist., W. Ghats, Mundanthurai, ca 310 m., 30 July 1999, *Daniels 577*; Kanyakumari Dist., W. Ghats, Seafield, 700–800 m., 18 Nov 2008, *Daniels & J.L. Mabel 15, 44, 45* [Daniels 2003; Daniels 2004].
 - Philonotis pseudofontana* (Müll.Hal.) Mitt. = *Philonotis falcata* (Hook.) Mitt. [Mitten 1859]
 - Philonotis roylei* (Hook.f.) Mitt. = *Bartramidula roylei* (Hook.f.) Bruch & Schimp. [Bruch & Schimper 1846]
- Philonotis secunda** (Dozy & Molk.) Bosch & Sande Lac.
 - Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 113].
 - Philonotis seriata* Mitt. = *Philonotis fontana* (Hedw.) Brid. [Ignatov & Afonina 1992]
- Philonotis subrigida** Cardot & P.de la Varde
 - Tiger Shola, 30 Dec 1926 (no. 504); Shembaganur, 22 Jan 1927 (no. 673); Munjikal, 6 Feb 1927 (no. 774); Pambar Torrent, 8 Feb 1927 (no. 809) [Dixon & Potier de la Varde 1927: 180].

- Kodaikanal at 2133 m., 1909; Tiger Shola at 1600 m., 1926; Law's Ghat Road at 680 m., 1959; Tovaiparai at 1371 m., 1959 [Foreau 1961: 28].
- PC; BM [Matthew 1973: 524].

Type: Palni hills, André 67 (PC; BM). Endemic to Palni hills.

***Philonotis thwaitesii* Mitt.**

- South India (Palni) [Gangulee 1974: 1124].
- Kanyakumari Dist., W. Ghats foothills, Kuzhithurai, ca 50 m., 3 Jan 2001, *G. Shilu 51A*; Seafield, ca 820 m., 18 Nov 2008, Daniels & J.L. Mabel 11, 12A, 13, 14 [Daniels 2003].
Philonotis tomentella Molendo = *Philonotis fontana* (Hedw.) Brid. [Ignatov & Afonina 1992]

***Phyllodon scutellifolius* (Besch.) W.R.Buck**

- Shembaganur, 1911, Foreau [Dixon 1914: 87, as *Taxithelium vivicolor*].
- Perumalmalai Shola, circa 6500 ft, 5 Apr 1926 (no. 222); Tiger Shola, 19 Jan 1927 (no. 651) [Dixon & Potier de la Varde 1927: 183].
- Palni Hills, environ de Perumal, 2000 m., Foreau 330 (PC) [Tixier 1988].

***Physcomitrium coorgense* Broth.**

- Sirumalai Hills [Foreau 1964: 225].
- Nilgiri hills [Chopra 1975: 180].

***Physcomitrium insigne* Dixon & P.de la Varde**

- Kumili, 3000 ft., 28 Dec 1924 (no. 596) [Dixon & Potier de la Varde 1927: 169].
- Near Kumili (Travancore) (no. 596), 28 Dec 1924 [Foreau 1930: 11].
- S. India, Kanara [Chopra 1975: 180].
- PC; BM [Matthew 1973: 524]. Endemic to S. India. At least some of these records seem likely to originate from outside Tamil Nadu.

***Pilotrichopsis ferruginea* (Mitt.) Broth.**

- In mont. Nilghiri, Gough! [Mitten 1859: 125, as *Cryphaea ferruginea* Mitt.].
Pilotrichum croceum Hampe = *Papillaria crocea* (Hampe) A.Jaeger [Jaeger 1877]
Pilotrichum plumula Nees = *Himantocladium plumula* (Nees) M.Fleisch. [Fleischer 1908]
Pilotrichum punctulatum Müll.Hal. = *Aerobryidium aureonitens* (Hook. ex Schwägr.) Broth. [Noguchi 1976]
Pilotrichum reclinatum Müll.Hal. = *Meteoriopsis reclinata* (Müll.Hal.) M.Fleisch. [Fleischer 1906]
Pilotrichum serrulatum P.Beauv. = *Trachypodopsis serrulata* (P.Beauv.) M.Fleisch. [Zanten 1959]
Pilotrichum stoloniferum Müll.Hal. = *Jaegerina stolonifera* var. *stolonifera* (Müll.Hal.) Müll.Hal. [Müller 1876]

***Pinnatella alopecuroides* (Mitt.) M.Fleisch.**

- Lower Palnis: Togaivarai Shola [Foreau 1931: 121].
- Nilgiri, Palni [Gangulee 1976: 1440].
- Tiger Shola, 1 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 114].

***Pinnatella foreauana* Thér. & P.de la Varde**

- Shembagamur no. 83, Kodaikanal no. 141–236, Perumal no. 327 [Potier de la Varde 1925: 40].
- Kodaikanal, 1913 (no. 974); ibid in herb Charrier, 1912 (no. 141); ibid (no. 236); Anagarai Shola, 1927 (no. 671); Perumalmalai Shola, 25 Jan 1927 (no. 701) [Dixon & Potier de la Varde 1927: 182].
- Upper Palnis: Kodaikanal, Tiger Shola, Villupatti Paddy Fields; Lower Palnis: Permalmalai; Togaivarai Shola [Foreau 1931: 121].
- PC; BM; RHT [Matthew 1973: 524].

Pinnatella sikkimensis Broth. = *Pinnatella foreauana* Thér. & P.de la Varde [Enroth 1994]

***Plagiobryum cellulare* (Hook.) J.R.Spence & H.P.Ramsay**

- Gundar Shola, 2 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 112].
- Doddabetta, 2600 m., on wet soil, October 1995, PAN-4649 [Maniselvan & Kumar 2000a: 30].

***Plagiomnium maximoviczii* (Lindb.) T.J.Kop.**

- Tiger Shola; Gundar Shola; Top Station, Aug 1973, Tixier s.n. (PC) [Tixier 1979: 112].

***Plagiomnium rhynchophorum* (Harv.) T.J.Kop.**

- Neil-Gherries, Perrottet [Montagne 1842a: 253, as *Mnium rostratum* Schwaegr.].

- Tiger Shola, Mar 1926 (nos. 35 & 65); Perumalmalai Shola, 28 Mar 1926 (no. 136); Kodaikanal, Dec 1926 (no. 491); Togaivarai Shola, 5 Jan 1927 (no. 538) [Dixon & Potier de la Varde 1927: 179].

– Nilgiri, Palni [Gangulee 1974: 1046, as *Mnium rostratum* Schrad.].

***Plagiomnium succulentum* (Mitt.) T.J.Kop.**

- Upper Palnis, Madura, 1929, *Foreau 1140* [Dixon & Potier de la Varde 1930: 188].
- Shembaganur at 1828 m., 1912; Kodaikanal at 2286 m., 1959 [Foreau 1961: 27].

***Plagiothecium neckeroideum* Schimp. var. *madurensis* Dixon & P.de la Varde**

- Shembaganur, 1913 (no. 993) [Dixon & Potier de la Varde 1927: 183].

– Shembaganur at 1830 m., 1913 [Foreau 1961: 41].

– PC; BM [Matthew 1973: 524].

– Palni hills (Shembaganur) [Chopra 1975: 489].

Type: Palni hills, *Foreau 993* (PC; BM). Endemic to Palni hills.

***Plagiothecium neckeroideum* Schimp. var. *sikkimense* Renauld & Cardot**

– Palni [Gangulee 1980: 1808].

***Plagiothecium vesiculariopsis* Dixon & P.de la Varde**

- Near stream, Tiger Shola, Pulney Hills, 16 Jan 1927 (no. 705) [Dixon & Potier de la Varde 1927: 174].

– Palni Hills [Brühl 1931: 101].

– Tiger Shola at 1676 m., 1927 [Foreau 1961: 41].

– PC; BM; RHT [Matthew 1973: 524].

– Palni hills (Tiger Shola) [Chopra 1975: 491].

Type: Palni hills, *Foreau 705* (PC; BM; RHT). Endemic to Palni hills.

***Platydictya madurensis* (Cardot & P.de la Varde) R.S.Chopra**

- Palni hills (Kodaikanal, Pambar Ravine, on rocks alt. 2300, 18 Mar 1912, leg. *Foreau*) [Potier de la Varde 1923: 78; Chopra 1975: 450].

– PC; BM [Matthew 1973: 520].

Type: Palni hills, *Foreau 18* (PC; BM). Endemic to Palni hills.

Platyhypnidium muelleri (A.Jaeger) M.Fleisch. = *Rhynchostegium muelleri* A.Jaeger var. *muelleri* [Noguchi, Iwatsuki & Yamaguchi 1991]

Platyhypnidium riparioides (Hedw.) Dixon = *Rhynchostegium riparioides* (Hedw.) Cardot [Ignatov & Afonina 1992]

Platyhypnidium rusciforme M.Fleisch. = *Rhynchostegium riparioides* (Hedw.) Cardot [Ignatov & Afonina 1992]

***Pleuridium denticulatum* (Müll.Hal.) Mitt.**

- Montes Neilgherrenses: *Dr. Bernhardus Schmid*, missionarius, Hb. Neilgh. Jenense [Müller 1853: 18].
- Upper Palnis: Shembaganur; Lower Palnis: Perumalmalai [Foreau 1930: 7].
- Perumalmalai Peak at 2194 m., 1926; Perumalmalai Slopes at 1981 m., 1958; Old Ghat Road at 763 m., 1959 [Foreau 1961: 16].
- Nilgiri and Palni hills (Perumalmalai) [Chopra 1975: 40].

Type: Nilgiri hills, *Dr. B. Schmid s.n.* (PC). Endemic to Tamil Nadu.

Pleuropus nilgheriensis (Mont.) Cardot = *Palamocladium leskeoides* (Hook.) E.Britton [Kurschner 2000]

Poecilophyllum amoene-virens (Mitt.) Mitt. = *Leucoloma amoene-virens* Mitt. [Mitten 1859]

Poecilophyllum nitens Thwaites & Mitt. = *Leucoloma nitens* (Thwaites & Mitt.) A.Jaeger [Jaeger 1880]

***Pogonatum aloides* (Hedw.) P.Beauv.**

- Upper Palnis, 6300 ft., *C.E.C. Fischer 2997* (CAL) [Dixon 1914: 80].

– Nilgiri [Gangulee 1969: 99].

– Nilgiri and Palni hills [Chopra 1975: 23].

- Haduvattum, 1710 m., on soil, August 1993. *PAN-4604* [Kumar & Maniselvan 1994: 99].

Pogonatum aloides (Hedw.) P.Beauv. forma *neesii* (Müll.Hal.) Gangulee = *Pogonatum neesii* (Müll.Hal.)

Dozy [Dozy 1856]

Pogonatum graeffeanum (Müll.Hal.) A.Jaeger = *Pogonatum subtortile* (Müll.Hal.) A.Jaeger [Hyvönen 1989a]

Pogonatum hexagonum Mitt. = *Pogonatum patulum* (Harv.) Mitt. [Hyvönen 1989a]
Pogonatum himalayanum Mitt. = *Pogonatum urnigerum* (Hedw.) P. Beauv. [Hyvönen 1989a]
Pogonatum junguhnianum (Dozy & Molk.) Dozy & Molk. = *Pogonatum neesii* (Müll.Hal.) Dozy [Hyvönen & Lai 1991]

Pogonatum microstomum (R.Br. ex Schwägr.) Brid.

- Nilgheri [Müller 1854: 557].
- Upper Palnis, 7000 ft., C.E.C. Fischer 2988, 3074 (CAL) [Dixon 1914: 80].
- Nilgiri, Palni [Gangulee 1969: 145].
- Bombay Shola, 5 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 116].

Pogonatum neesii (Müll.Hal.) Dozy

- Nilgheri [Müller 1854: 557].
- Shembaganur, Queste 8 [Dixon 1914: 81].
- High Wavy Mountains (Meghamali), Theni District, no. 400 [Blatter 1929: 877].
- Nilgiri, Palni [Gangulee 1969: 103].
- Top Station, 3 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 116].
- Dodabetta, 2500 m., on soil, September 1993. PAN-4606 [Kumar & Maniselvan 1994: 99].

Pogonatum patulum (Harv.) Mitt.

- Upper Palnis, 6300 ft., C.E.C. Fischer 3059 (CAL) [Dixon 1914: 80].
- Kodaikanal at 2130 m., 1959 [Foreau 1961: 46, as *Pogonatum hexagonum* Mitt.].

Pogonatum perichaetiale (Mont.) A.Jaeger subsp. ***perichaetiale***

- in montibus Nilgheriensibus; cl. Perrottet [Montagne 1842a: 252].
- Nilgheri [Müller 1854: 557].
- Nilgiri [Gangulee 1969: 153].
- PC (type of *P. subperichaetiale* Cardot & P. de la Varde) [Matthew 1973: 524].

Type: In montibus Nilgheriensibus, Perrottet 1622 (H-BR, L) [Hyvönen 1989a: 13].

Pogonatum strictifolium Broth. ex Gangulee = *Pogonatum patulum* (Harv.) Mitt. [Hyvönen 1989a]

Pogonatum subperichaetiale Cardot & P.de la Varde = *Pogonatum perichaetiale* (Mont.) A.Jaeger subsp. *perichaetiale* [Hyvönen 1989a]

Pogonatum subtortile (Müll.Hal.) A.Jaeger

- Palni [Gangulee 1969: 118].
- *Pogonatum teysmannianum* (Dozy & Molk.) Dozy & Molk. = *Pogonatum subtortile* (Müll.Hal.) A.Jaeger [Hyvönen 1989a]

Pogonatum urnigerum (Hedw.) P.Beauv.

- circa Ootacamund lectum [Montagne 1842a: 252].
- Dodabetta, 2550 m., on soil, Sept 1993. PAN-4606 [Kumar & Maniselvan 1994: 99].

Pohlia campotorachela (Renauld & Cardot) Broth.

- Sur humus, Pulney Hills, 1927 (no. 567) [Dixon & Potier de la Varde 1927: 169, as *Webera humicola*].
- Palamalai at 914 m., 1925 [Foreau 1961: 26].
- Palni Hills [Brühl 1931: 48].
- PC; RHT [Matthew 1973: 526].
- Palni [Gangulee 1974: 911].

Pohlia elongata Hedw.

- Sholas, Kundahs, Nilgiri Hills, Feb 1911, C.E.C. Fischer 19 (CAL) [Dixon 1914: 59].
- near Pambar Fall, Kodaikanal, 29 April 1929, Foreau 1031 [Dixon & Potier de la Varde 1930: 187, as *Webera elongata* (Hedw.) Schwaegr.].
- Palni Hills, Aug 1973, Tixier s.n. (PC) [Tixier 1979: 112].

Pohlia flexuosa Harv.

- Kodaikanal no. 54-254 [Potier de la Varde 1925: 42].

Pohlia trematodontea (Müll.Hal.) Broth.

- Musc. Neilgher. (no details) [Müller 1853: 33].

Polytrichum aloides Hedw. = *Pogonatum aloides* (Hedw.) P.Beauv. [Palisot de Beauvois 1805]

Polytrichum contortum Menzies ex Brid. = *Pogonatum contortum* (Menzies ex Brid.) Lesq. [Lesquereau 1868]

- Polytrichum inflexum* Lindb. = *Pogonatum inflexum* (Lindb.) Sande Lac. [Sande Lacoste 1869 [1870]]
Polytrichum microstomum Schwägr. = *Pogonatum microstomum* (Schwägr.) Brid. [Bridel 1827]
Polytrichum neesii Müll.Hal. = *Pogonatum neesii* (Müll.Hal.) Dozy [Dozy 1856]
Polytrichum patulum Harv. = *Pogonatum patulum* (Harv.) Mitt. [Mitten 1859]
Polytrichum subtortile Müll.Hal. = *Pogonatum subtortile* (Müll.Hal.) A.Jaeger [Jaeger 1875]
Polytrichum urnigerum Hedw. = *Pogonatum urnigerum* (Hedw.) P.Beaup. [Palisot de Beauvois 1805]
Porotrichum minutum Mitt. = *Pinnatella minuta* (Mitt.) Broth. [Brotherus 1906]
Pottia denticulata Dixon & P.de la Varde (illegitimate, later homonym) = *Phascum leptophyllum* Dixon & P.de la Varde [Arts & Sollman 1991 [1992]] = *Leptophascum leptophyllum* (Müll. Hal.) J.Guerra & Cano [Guerra & Cano 2000]
Pottia vernicosa (Hook. ex Harv.) Hampe = *Gymnostomiella vernicosa* (Hook. ex Harvey) M.Fleisch. var. *vernica* [Fleischer 1904]

***Pottia watsonii* R.S.Chopra**

- Palni hills (Perumalmalai) [Chopra 1975: 155].
 Type: Palni hills, Perumalmalai, *Foreau* 524 (BM). Endemic to India.
Pseudoleskeopsis perfalcata Dixon & P.de la Varde = *Pseudoleskeopsis zippelii* (Dozy & Molk.) Broth. [Vohra 1983]

***Pseudoleskeopsis zippelii* (Dozy & Molk.) Broth.**

- Togaivarai Shola, Pulney Hills, 11 Apr 1926 (no. 299, type; nos. 287 & 288); Parappar Torrent, near Villupatti Paddy Fields, 28 Dec 1926 (no. 514) [Dixon & Potier de la Varde 1927: 172].
- Upper Palnis: Tiger Shola, Villuoatti Paddy Firls; Lower Palnis: Togaivarai Shola [Foreau 1931: 122].
- Palni Hills [Brühl 1931: 87].
- PC; BM; RHT [Matthew 1973: 524].
- Palni hills [Gangulee 1978: 1569].
- Palni Hills [Vohra 1983].

Pseudosymbleraris angustata (Mitt.) Hilp. = *Chionoloma angustata* (Mitt.) M.Menzel = *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2001]

Pseudosymbleraris bombayensis (Müll.Hal.) P.Sollman = *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2001]

Pseudosymbleraris indica Dixon & P.de la Varde = *Pseudosymbleraris bombayensis* (Müll.Hal.) P.Sollman = *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2001]

Pseudosymbleraris papilllosula (Cardot & Ther.) Broth. = *Pseudosymbleraris angustata* (Mitt.) Hilp = *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2001]

Pseudosymbleraris subduriuscula (Müll.Hal.) Chen = *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2001]

***Pseudotaxiphyllum distichaceum* (Mitt.) Z.Iwats.**

- Palni [Gangulee 1980: 1953].
- Kalatty water falls, 1600 m., stones, April 1992. *PAN-4601* [Kumar & Maniselvan 1994: 102].

***Pseudotaxiphyllum pohliaecarpum* (Sull. & Lesq.) Z.Iwats.**

- Palni [Gangulee 1980: 1957].

***Pseudotrachypus wallichii* (Brid.) W.R.Buck**

- Kodaikanal no. 190 [Potier de la Varde 1925: 42, as *Aerobryopsis lanosa* (Mitt.) Broth.].
- Upper Palnis: Kodaikanal; Lower Palnis: Togaivarai Shola, Manalur, Periyur [Foreau 1931: 120].
- Palni hills (Kodaikanal) [Chopra 1975: 337].
- Nilgiri, Palni [Gangulee 1976: 1318].
- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 114].

***Pterigynandrum julaceum* (Schwägr.) Müll.Hal.**

- Nilgieri [Müller 1854: 569].

Pterobryon involutum Thwaites & Mitt. = *Sympysodontella involuta* (Thwaites & Mitt.) M.Fleisch. [Magill 1980]

***Pterobryopsis acuminata* (Hook.) M.Fleisch.**

- circa Kaitie [Montagne 1842a: 248, as *Neckera acuminata* Hook.].
- Nilgiri [Gangulee 1976: 1274].

***Pterobryopsis auriculata* Dixon**

- South India (Palni) [Gangulee 1974: 1264].

Pterobryopsis auriculata Dixon = *Calyptothecium auriculatum* (Dixon) Nog. [Noguchi 1980a]

Pterobryopsis cavifolia Dixon & P.de la Varde = *Pterobryopsis gedeensis* M.Fleisch. [Noguchi 1987]

Pterobryopsis conchophylla (Renauld & Cardot) Broth. = *Pterobryopsis acuminata* (Hook.) M.Fleisch. [Noguchi 1980b]

Pterobryopsis denudata Dixon & P.de la Varde = *Pterobryopsis schmidii* (Müll.Hal.) M.Fleisch. [Noguchi 1987]

Pterobryopsis denudata var. *robusta* P.de la Varde = *Pterobryopsis schmidii* (Müll.Hal.) M.Fleisch. [Noguchi 1987]

***Pterobryopsis divergens* (Mitt.) Nog.**

- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1250 m., 26 Jan 2001, *Daniels 1411* [Daniels 2003; Daniels & Daniel 2007b].

***Pterobryopsis flexipes* (Mitt.) M.Fleisch.**

- Nilgiri [Gangulee 1976: 1268].

Pterobryopsis frondosa (Mitt.) M.Fleisch. = *Pterobryopsis scabriuscula* (Mitt.) M.Fleisch. [Noguchi 1986]

***Pterobryopsis gedeensis* M.Fleisch.**

- High Wavy Mountains (Meghamali), Theni District, no. 403 [Blatter 1929: 877].

- High Wavy Mountains, Madura, 1917, *Blatter & Hallberg 403* [Dixon & Potier de la Varde 1930: 179, as *Pterobryopsis carifolia*].

Pterobryopsis madurensis Cardot & P.de la Varde = *Pterobryopsis scabriuscula* (Mitt.) M.Fleisch. [Noguchi 1987]

Pterobryopsis madurensis var. *flexipendula* Cardot & P.de la Varde = *Pterobryopsis scabriuscula* (Mitt.) M.Fleisch. [Noguchi 1987]

Pterobryopsis orientalis* (Müll.Hal.) M.Fleisch. subsp. *orientalis

- Lower Palnis: Togaivarai Shola, Manalur, Periyur [Foreau 1931: 119].

- Nilgiri [Gangulee 1976: 1273].

***Pterobryopsis scabriuscula* (Mitt.) M.Fleisch.**

- Kodaikanal 1911, leg. *Rev. Foreau* no. 57 [Potier de la Varde 1923: 73, as *Pterobryopsis madurensis* Cardot & P.de la Varde].

- Shembaganur, leg. *R. Foreau*; Pillar Rocks, on trees, 2400 m., 3 Sep 1912, *Foreau & Roiné* no. 75 [Potier de la Varde 1923: 73, as *Pterobryopsis madurensis* var. *flexipendula* Cardot & P.de la Varde].

- Manalur, Lower Pulneys, 18 June 1926 (no. 370) [Dixon & Potier de la Varde 1927: 181].

- Upper Palnis: Kodaikanal, Tiger Shola, no. 25, 1912; Lower Palnis: Perumalmalai, Manalur, no. 185, 1911 [Foreau 1931: 119].

- PC; BM [Matthew 1973: 524].

- Nilgiri [Gangulee 1976: 1269].

- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 113].

***Pterobryopsis schmidii* (Müll.Hal.) M.Fleisch.**

- Nilgieri [Müller 1854: 571].

- Kodaikanal, on trees alt. 2400, 15 June 1912 [Potier de la Varde 1923: 72].

- Kodaikanal 1912, leg. *R.P. Foreau*, comm. Charrier [Potier de la Varde 1925: 39].

- Tiger Shola, c. 6000 ft., 9 Apr 1926, c.fr. (no. 258); Perumalmalai Shola, along Torrent, 28 Mar 1926 (no. 137); Togaivarai Shola, 11 Apr 1926 (no. 285); ibid., 2 Feb 1927 (no. 736); Pambar Torrent, 8 Feb 1927 (no. 811) [Dixon & Potier de la Varde 1927: 181].

- Upper Palnis: Kodaikanal, Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai; Sirumalai [Foreau 1931: 119].

- Palni Hills [Brühl 1931: 70].

- PC; BM [Matthew 1973: 524].

- Gundar Shola; Bombay Shola, Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 113].

Pterobryopsis tumida (Dicks ex. Hook.) Dixon = *Calyptothecium recurvulum* (Broth.) Broth. [Hyvönen 1989b]

Pterogonium consanguineum Mont. = *Leskeia consanguinea* (Mont.) Mitt. [Mitten 1859]

- Pterogonium flavescens* Hook. = *Campylodontium flavescens* (Hook.) Bosch & Sande Lac. = *Mesonodon flavescens* (Hook.) W.R.Buck [Buck 1980b]
- Pterogonium indicum* Mont. = *Forsstroemia indica* (Mont.) Paris [Stark 1987]
- Pterogonium myurum* Hook. = *Entodon myurus* (Hook.) Hampe [Hampe 1847]
- Pterogonium neckeroides* Griff. = *Levierella neckeroides* (Griff.) O'Shea & Matcham [O'Shea & Matcham 2005]
- Pterygophyllum indicum* Bél. = *Stereophyllum radiculosum* (Hook.) Mitt. [Ireland & Buck 1994b]
- Ptychomitrium rhamacomitrioides* Dixon = *Ptychomitrium tortula* (Harv.) A.Jaeger [Cao *et al.* 2003]
- Ptychomitrium tortula*** (Harv.) A.Jaeger
– Nilgiri [Gangulee 1976: 1147].
- Ptychostomum angustifolium*** (Brid.) J.R.Spence & H.P.Ramsay
– Kanyakumari Dist., W. Ghats, Maramalai, ca 450 m., 7 Sep 1996, *Daniels* 116 [Daniels 2003; Daniels & Daniel 2007b].
- Pylaisia falcata*** Schimp.
– Observatory, 2040 m., on soil, April 1992, *PAN-4581* [Maniselvan & Kumar 1998: 24].
- Pylaisia speciosa*** (Mitt.) Wilson ex A.Jaeger
– Kodaikanal, leg. André, Mai 1909, no. 103 [Potier de la Varde 1923: 75, as *Clastobryum serrulatum* Cardot & P.de la Varde & *Aptychella speciosa* (Mitt.) Tixier].
- Pylaisiadelpha capillacea*** (Griff.) B.C.Tan & Y.Jia
– Shembaganur 1912, (no. 261), as *Gammiella capillacea* (Griff.) Tixier [Potier de la Varde 1925: 41].
– Perumalmalai Shola, Pulney Hills, 28 Mar 1926 (no. 101a) [Dixon & Potier de la Varde 1927: 174].
– Pambar Torrent, Pulney Hills, 8 Feb 1927, leg. R.P. Foreau [Potier de la Varde 1928: 47].
– Upper Palnis, Madura, 1929, *Foreau* 1086, as *Clastobryum cupressinoides*; Upper Palnis, 1929, *Foreau* 1193, 1197, as *Clastobryum patentifolium*; Shembaganur, acout 6000 ft., *Foreau* 1226 [Dixon & Potier de la Varde 1930: 190].
– Palni Hills [Brühl 1931: 101].
– PC; BM; RHT [Matthew 1973: 521].
– Palni [Gangulee 1980: 1849].
- Pyrrhobryum spiniforme*** (Hedw.) Mitt.
– Neil-Gherries, frequens in montibus coimbaturicis [Montagne 1842a: 244, as *Hypnum spiniforme* Hedw.].
– High Wavy Mountains (Meghamali), Theni District, no. 322 [Blatter 1929: 877].
– Palnis [Brühl 1931: 55].
– Palni [Gangulee 1974: 1069, as *Rhizogonium spiniforme*].
– Palni hills [Chopra 1975: 236].
– Tiger Shola; Gundar Shola; Top Station, Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 112].
– Kanyakumari Dist., W. Ghats, Upper Kodaiyar, ca 1250 m., 9 Nov 2000, *Daniels* 1184, 1186; 19 Apr 2002, *Daniels* 1996 [Daniels 2003].
- Racomitrium javanicum* Dozy & Molk. var. *brachiphyllum* Cardot & P.de la Varde = *Racomitrium subsecundum* (Hook. & Grev.) Mitt. [Frisvoll 1988]
- Racomitrium subsecundum*** (Hook. & Grev. ex Harv.) Mitt.
– Upper Palnis: Kodaikanal [Foreau 1930: 11].
– PC; BM [Matthew 1973: 525].
- Racopilum cuspidigerum*** (Schwägr.) Ångstr. var. *cuspidigerum*
– Shembaganur, *Queste* 20c [Dixon 1914: 85].
– Kodaikanal, leg. *Foreau* no. 64, Shembaganur, leg. *Foreau* & *Roiné* no. 32 [Potier de la Varde 1923: 77, as *Racomitrium schmidii* var. *breviaristatum* Cardot].
– Upper Palnis: Tiger Shola [Foreau 1931: 118].
– Nilgiri [Gangulee 1976: 1201].

- Tirunelveli Dist., W. Ghats, Kannikatti, ca 400 m., 30 July 1999, *Daniels* 593; Kanyakumari Dist., W. Ghats, Seafield, ca 780 m., 18 Nov 2008, *Daniels & J.L. Mabel* 33, 34, 38 [Daniels 2003].

Racopilum indicum Mitt. = *Racopilum schmidii* (Müll.Hal.) Mitt. [Ind. Musc.]

Racopilum intermedium Hampe

- Neil-Gherries, circa Ootacamund, ad radices arborum locis siccis montium [Montagne 1842a: 243, as *R. tomentosum* var. β *africanum* Brid.; Müller 1854: 558].

Racopilum orthocarpum Wilson ex Mitt.

- Upper Palnis: Kodaikanal [Foreau 1931: 118].
 – Palni [Gangulee 1976: 1200].
 – Kanyakumari Dist., W. Ghats, Mahendragiri, ca 710 m., 30 July 1999, *Daniels* 593 [Daniels 2003].

Racopilum schmidii (Müll.Hal.) Mitt.

- Nilgiri [Müller 1854: 558].
 – André no. 156-165 [Potier de la Varde 1923: 77].
 – Upper Palnis: Tiger Shola, Villupatti Paddy Fields; Lower Palnis: Perumalmalai, Togaivarai Shola, Periyur [Foreau 1931: 118].
 – Palnis [Brühl 1931: 64].
 – Tiger Shola; Gundar Shola; Top Station, Aug 1973, *Tixier* s.n. (PC) [Tixier 1979: 113].

Racopilum schmidii (Müll.Hal.) Mitt. var. *breviaristatum* Cardot in P.de la Varde = *Racopilum cuspidigerum* (Schwägr.) Ångstr. var. *cuspidigerum* [Zanten 2006]

Racopilum siamense Dixon = *Racopilum orthocarpum* Wilson ex Mitt. [Zanten 2006]

Racopilum tomentosum (Hedw.) Brid. = *Racopilum intermedium* Hampe [Allen 2002]

Radulina borbonica (Bél.) W.R.Buck

- Palni Hills [Gangulee 1980: 1913].
Radulina hamata (Dozy & Molk.) W.R.Buck & B.C.Tan = *Radulina borbonica* (Bél.) W.R.Buck [O'Shea 2006]

Regmatodon orthostegius Mont.

- circa Kaitie hanc speciem invenit cl. *Perrottet* [Montagne 1842a: 248].
 – Nilgiri [Müller 1854: 558].
 – Shembaganur, *Queste* 2 [Dixon 1914: 89].
 – André no. 160 [Potier de la Varde 1924: 11].
 – Upper Palnis: Kodaikanal, Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai [Foreau 1931: 122].
 – Palnis [Brühl 1931: 86].
 – Nilgiri, Palni [Gangulee 1978: 1564].
 – Nilgiris, on the bark of trees, in forest around Kaitie, *Perrottet* (PC) [Vohra 1983].
 Type: Nilgiri hills, *Perrottet* s.n. (FH).

Regmatodon polycarpus (Griff.) Mitt. = *Regmatodon orthostegius* Mont. [Eakin & Allen 1999]

Rhachithecum perpusillum (Thwaites & Mitt.) Broth.

- Above path from Neutral Saddle to Palni, on Mirobolam tree, 23 Dec 1926 (no. 473) [Dixon & Potier de la Varde 1927: 181].
 – Upper Palnis: Near Neutral Saddle [Foreau 1931: 118].
 – Palni Hills [Brühl 1931: 61].
 – Palni [Gangulee 1976: 1160].

***Rhamphidium madurens*e** Dixon & P.de la Varde

- Palni Hills [Dixon & Potier de la Varde 1927: 165].
 – PC; BM; RHT Matthew 1973: 525].
 – Palni hills (Tiger Shola) [Chopra 1975: 132].

Type: Palni hills, *Foreau* s.n. (PC; BM; RHT). Endemic to Palni hills.

Rhaphidorrhynchium leptorhynchoides (Mitt.) Broth. = *Warburgiella leptorhynchoides* (Mitt.) M.Fleisch. [Fleischer 1923]

Rhaphidostegium leptorhynchoides (Mitt.) A.Jaeger = *Warburgiella leptorhynchoides* (Mitt.) M.Fleisch. [Fleischer 1923]

Rhaphidostegium sebillei Broth. & Thér. = *Sematophyllum sebillei* (Broth. & Thér.) R.S.Chopra [Chopra 1975]

Rhaphidostichum cucullifolium (Cardot & Dixon) Broth.

- Shembaganur, 1911, *Queste 20e* [Dixon 1914: 88].
- Shembaganur at 1866 m., 1926 [Foreau 1961: 43].
- Type: Palni hills, *Queste 20* (BM)? Endemic to Palni hills.

Rhaphidostichum subleptocarpum (Thér. & P.de la Varde) Broth.

- Rev. André, no. 117 [Potier de la Varde 1924: 11].
- Shembaganur at 1870 m., 1959 [Foreau 1961: 43].
- Type: locality not mentioned, *André 160* (BM)? Endemic to Tamil Nadu.

Rhizogonium spiniforme (Hedw.) Bruch = *Pyrrhobryum spiniforme* (Hedw.) Mitt. [Mitten 1868]

Rhodobryum aubertii (Schwägr.) Thér.

- Nilgheri [Montagne 1842a: 254, as *Bryum aubertii* Schwägr.].
- Palni Hills, 1924, *Foreau 632* (BM); Neelgheris, *Captain Gough* SS.t.: 80 (BM) [Mohamed 1981: 693; 1984: 286].

Rhodobryum commersonii (Schwägr.) Paris

- Upper Palnis, Madura, May 1919, *Foreau 1189* [Dixon & Potier de la Varde 1930: 177, as *R. madurensense*].
- Kodaikanal at 1981 m., 1929; Berijam at 2133 m., 1929 [Foreau 1961: 26].
- PC; BM [Matthew 1973: 525].
- Bombay Shola; Gundar Shola; Kodaikanal, Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 112].
- Palni Hills and surrounding region, 1919, *Foreau 1189*, isotype of *Rhodobryum madurensense* [Mohamed 1981: 692; 1984: 285].

Rhodobryum giganteum (Schwägr.) Paris

- Perumal no. 270 [Potier de la Varde 1925: 42].
- Palni [Gangulee 1974: 1021].
- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 112].
- Eastern Nilgiris, Kotagiri, 6500 ft., *L.J. Sedgwick 523* (BM); Shembaganur, 6000 ft., *C.W. McCann 30* (BM); Kodaikanal, Palni Hills, *Rev. F.L. Marler 29* (BM) [Mohamed 1984: 283].
- Western Ghats (Palni Hills) [Kumar & Singh 2003].

Rhodobryum madurensense Dixon & P.de la Varde = *Rhodobryum commersonii* (Schwägr.) Paris [Ochi 1985]

Rhodobryum roseum (Hedw.) Limpr.

- Observatory, 2550 m., on humus-rich soil, August 1994, *PAN-4654* [Maniselvan & Kumar 1998: 23].

Rhynchostegiella humillima (Mitt.) Broth.

- In mont. Nilgiri, Ootacamund, *Foulkes* ! [Mitten 1853: 80].
- forme a feuilles assez aigues: Perumal no. 339-345, and 346-353 p.p. [Potier de la Varde 1925: 42].
- Lower Palnis: Manalur; Sirumalai [Foreau 1931: 123].
- Nilgiris, Ootacamund, *Foulkes* (NY, BM) [Vohra 1983: 300].
- Type: Nilgiri hills, *Foulkes s.n.* (NY, BM).

Rhynchostegiella leiopoda Dixon & Cardot

- Togaivarai Shola, Pulney Hills, 5 Jan 1926 (no. 530) [Dixon & Potier de la Varde 1927: 174].
- Lower Palnis: Togaivarai [Foreau 1931: 123].
- Palni Hills [Brühl 1931: 97].
- PC; BM [Matthew 1973: 525].

Type: Palni hills, *Foreau 530* (PC; BM). Endemic to Palni hills.

Rhynchostegium brachythecioides Dixon & P.de la Varde

- Sirumalai, on stones, 4000 ft., 24 Apr 1924 (no. 443); St Joseph's Estate, près Palaiyur, March 1927 (no. 826) [Dixon & Potier de la Varde 1927: 173].
- Sirumalai [Foreau 1931: 123].

- PC; BM [Matthew 1973: 525].
Type: Palni hills, *Foreau* 443 (PC; BM). Endemic to Palni hills.
- Rhynchostegium celebicum*** (Sande Lac.) A.Jaeger
– Palni [Gangulee 1978: 1750].
- Palni Hills: Manalur, 915 m., 18 June 1926, *Foreau* 297 [Vohra 1983].
- Rhynchostegium javanicum*** (Bél.) Besch.
– (locality unspecified), André no. 44 [Potier de la Varde 1923: 12, as *Rhynchostegium gathicum* Cardot].
- Upper Palnis: Kodaikanal, Tiger Shola; Lower Palnis: Sirumalai [Foreau 1931: 123].
- Rhynchostegium megapolitanum*** (Blandow ex F.Weber & D.Mohr) Schimp.
– Nilgiri: in sylvis humidis circa *Avalanchy* lectum [Montagne 1842a: 245, as *Hypnum megapolitanum* Bland.].
- Rhynchostegium muelleri*** A.Jaeger var. ***muelleri***
– Upper Palnis: Kodaikanal; Lower Palnis: Perumalmalai, Togaivarai Shola [Foreau 1931: 123].
- Palni hills (Shembaganur, Kodaikanal), as *Eurhynchium muelleri* (A.Jaeger) Bartram [Chopra 1975: 470].
- Palni [Gangulee 1978: 1736].
- Palni Hills, Togawarai Shola, 1830 m., 11 Apr 1926, *Foreau* 304 (CAL); near Villupatti Paddy Fields, 30 Dec 1926, *Foreau* (BM) [Vohra 1983: 319].
- Naduvattum, 1800 m., epiphyte, April 1992, PAN-4588 [Kumar & Maniselvan 1994: 102].
- Rhynchostegium ripariooides*** (Hedw.) Cardot
– Neel-Gherries dictis a *Cl. Perrottet* [Montagne 1842a: 245, as *Hypnum rusciforme* Weiss.].
- Upper Palnis: Kodaikanal; Lower Palnis: Perumalmalai [Foreau 1931: 123].
- Palni hills (Kodaikanal, Perumalmalai) [Chopra 1975: 471].
- Palni [Gangulee 1978: 1752].
- Manipur, Palnis [Vohra 1983].
- Rhynchostegium vagans* A.Jaeger = *Oxyrrhynchium vagans* (A.Jaeger) Ignatov & Huttunen [Ignatov & Huttunen 2002]
Rosulabryum billardieri (Schwägr.) J.R.Spence = *Bryum billardierei* Schwägr. [Holyoak & Pedersen 2007]
- Schistidium apocarpum*** (Hedw.) Bruch & Schimp.
– Botanical garden, 2450 m., epiphyte, April 1992, PAN-4600 [Kumar & Maniselvan 1994: 101].
- Schlotheimia grevilleana*** Mitt.
– Shembaganur, *Queste* 20d [Dixon 1914: 78].
- Maduré sine loc. no. 78 [Potier de la Varde 1925: 42].
- Upper Palnis: Villupatti Paddy Fields; Lower Palnis: Perumalmalai, Togaivarai Shola, Periyur [Foreau 1931: 118].
- Nilgiri, Palni [Gangulee 1976: 1192].
- Tiger Shola; Gundar Shola; Top Station, Aug 1973, *Tixier* s.n. (PC) [Tixier 1979: 113].
- Schlotheimia rugifolia*** (Hook.) Schwägr.
– Dodabett [Montagne 1842a: 255].
Schlotheimia sulcata Hook. = *Macromitrium sulcatum* (Hook.) Brid. [Bridel 1826]
- Schoenobryum concavifolium*** (Griff.) Gangulee
– Upper Palnis: near Neutral Saddle; Sirumalai [Foreau 1931: 119].
- Tiger Shola, 1 Aug 1973, *Tixier* s.n. (PC) [Tixier 1979: 113].
- Schwetschkea applanata*** (Thwaites & Mitt.) Broth.
– Lower Palnis: Manalur [Foreau 1931: 122].
- Palnis [Brühl 1931: 85].
- S. India, Palni hills [Chopra 1975: 410].
- Schwetschkea indica* Broth. = *Macgregorella indica* (Broth.) W.R.Buck [Buck 1980a]
- Schwetschkeopsis elongata*** (Dixon & P.de la Varde) W.R.Buck & H.A.Crum
– Kodaikanal 1912, no. 101; 1925, no. 206; Perumal 1923; no. 356 & 330 p.p. [Potier de la Varde 1925: 41].

- Togaivarai Shola, Apr 1926, nos. 268 & 303); Perumalmalai, in herb. J. Hennen, 1923 (no. 356); associé a *Glossadelphus vivicolor* (Dixon & Broth.) Broth., ibid. (no. 330 p.p.); way from Periyur to Pachailur, 20 June 1926 (no. 393); Manalur, 18 June 1926 (no. 375); path from Neutrai Saddle to Palni, on stone bed of torrent (no. 171); Manalur, 20 Jan 1924 (no. 503) [Dixon & Potier de la Varde 1927: 182].
- Upper Palnis: Shembaganur, Tiger Shola; Lower Palnis: Togaivarai Shola, Manalur, Periyur [Foreau 1931: 123].
- PC; BM [Matthew 1973: 525].
- 14 references [Buck & Crum 1978].

***Sciuro-hypnum plumosum* (Hedw.) Ignatov & Huttunen**

- Neddoubetta, cl. *Perrottet*, (Nilgheri); in montibus *Avalanchy* lectum [Montagne 1842a: 244-245, as *Hypnum secundum* Mont.].
- Nielgheri [Müller 1854: 574].
- Upper Palnis: Tiger Shola; Lower Planis: Togaivarai Shola, Manalur [Foreau 1931: 123].
- Palni [Gangulee 1978: 1718].
- Palnis; *Perrottet* 1921 [Vohra 1983].

Sematophyllum caespitosum (Hedw.) Mitt. = *Sematophyllum subpinnatum* (Brid.) E.Britton [Churchill & Linares 1995]

Sematophyllum cucullifolium Cardot & Dixon = *Rhaphidostichum cucullifolium* (Cardot & Dixon) Broth. [Wijk et al. 1967]

***Sematophyllum humile* (Mitt.) Broth.**

- ad trunco arborum in sylvis circa *Avalanchy* lectum [Montagne 1842a: 247, as *Hypnum humile* Harv.].
- Tirunelveli Distr., W. Ghats, Mancholai, tea plantations, ca 1100 m., 24 Aug 2001, *Daniels 1774C* [Daniels & Daniel 2003a].

***Sematophyllum saprophylophilum* (Müll.Hal.) M.Fleisch.**

- Kodaikanal, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].
- Tamil Nadu, Tirunelveli, W. Ghats, c. 1100 m., 24.8.2001, *Daniels 1774C* [Daniels & Daniel 2003a].

***Sematophyllum sebillei* (Broth. & Thér.) R.S.Chopra**

- Maduré, leg. *Rev. André* no. 73 [Potier de la Varde 1924: 10-11].
- Palni hills (locality not specified) [Chopra 1975: 512].

Type: Madurai, *André* 73 (FH)? Endemic to Tamil Nadu.

***Sematophyllum subhumile* (Müll.Hal.) M.Fleisch.**

- Nilghiri [Müller 1854: 572].
- Perumal no. 312 [Potier de la Varde 1925: 42].
- Nilgiri and Palni hills (Shembaganur, Tovaiparai Shola) [Chopra 1975: 513].
- Bombay Shola, 5 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].
- Nilgiri, Palni [Gangulee 1980: 1885].

Type: Nilgiri hills *Perrottet s.n.* (PC).

Sematophyllum subleptocarpum Thér. & P.de la Varde = *Rhaphidostichum subleptocarpum* (Thér. & P.de la Varde) Broth. [Ind Musc.]

***Sematophyllum subpinnatum* (Brid.) E.Britton**

- Palni [Gangulee 1980: 1882].

***Sematophyllum subsimplex* (Hedw.) Mitt.**

- ad trunco arborum in sylvis humidus circa Ootacamund [Montagne 1842a: 246, as *Hypnum subsimplex* Hedw.].

***Semibarbula orientalis* (F.Weber) Wijk. & Margad.**

- Upper Palnis: Shembaganur; Lower Palnis: Perumalmalai, Togaivarai Shola, Manalur [Foreau 1930: 11].
- Law's Ghat Road at 755 m., 1737 m., 1959; Manalur at 914 m., 1929 [Foreau 1961: 21].

***Solmsiella biseriata* (Austin) Steere**

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- Kanyakumari Dist., W. Ghats, Maramalai, ca 400 m., 6 Nov 1999, *Daniels* 438, 438a; ca 450 m., 11 Apr 2000, *Daniels* 848 [Daniels 2003].
Solmsiella ceylonica (Thwaites & Mitt.) Müll.Hal. = *Solmsiella biseriata* (Austin) Steere [Tan 1987]
 - Sphaerothecium reconditum*** Thwaites & Mitt.
 - Upper Palnis: Tiger Shola [Foreau 1930: 8].
 - Kodaikanal, Levinge Path, at 1981 m., 1959; Tiger Shola at 1676 m., 1926 [Foreau 1961: 18].
Sphagnum javense Brid. = *Leucobryum javense* (Brid.) Mitt. [Gao 1994]
Splachnobryum tenerum Müll.Hal. ex Dusén = *Gymnostomiella vernicosa* (Hook.) M.Fleisch. var. *tenerum* (Müll.Hal. ex Dusén) Arts [Kürschner 2000]
Stereodon angustifolius Mitt. = *Entodon macropodus* (Hedw.) Müll.Hal. [Hu 1983]
Stereodon cupressiformis (Hedw.) Brid. ex Mitt. = *Hypnum cupressiforme* Hedw. [Mitten 1859]
Stereodon distichaceus Mitt. = *Pseudotaxiphyllum distichaceum* (Mitt.) Z.Iwats. [Ireland 1991]
Stereodon humilis Mitt. = *Sematophyllum humile* (Mitt.) Broth. [Brotherus 1925]
Stereodon ivoreanus Mitt. = *Glossadelphus ivoreanus* (Mitt.) M.Fleisch. [Fleischer 1923]
Stereodon leptorhynchoides Mitt. = *Rhaphidostegium leptorhynchoides* (Mitt.) A.Jaeger (= *Warburgiella leptorhynchoides* (Mitt.) M.Fleisch) [Fleischer 1923]
Stereodon lychnites Mitt. = *Ctenidium lychnites* (Mitt.) Broth. [Brotherus 1909]
Stereodon perrottetii (Mont.) Mitt. = *Symphyodon perrottetii* Mont. [Montagne 1841]
Stereodon pilosulus Mitt. = *Macrothamniella pilosula* (Mitt.) M.Fleisch. [Fleischer 1923]
Stereodon speciosus Mitt. = *Aptychella speciosa* (Mitt.) Tixier [Tixier 1977]
Stereodon taxirameus Mitt. = *Taxiphyllum taxirameum* (Mitt.) M.Fleisch. [Fleischer 1923]
Stereodon tenuirameus Mitt. = *Aptychella tenuiramea* (Mitt.) Tixier [Tixier 1977]
Stereophyllum confusum Thér. = *Stereophyllum radiculosum* (Hook.) Mitt. [Buck & Ireland 1985]
Stereophyllum indicum (Bél.) Mitt. = *Stereophyllum radiculosum* (Hook.) Mitt. [Buck & Ireland 1985]
Stereophyllum ligulatum A.Jaeger = *Entodontopsis nitens* (Mitt.) W.R.Buck & Ireland [Buck & Ireland 1985]
Stereophyllum nitens Mitt. = *Entodontopsis nitens* (Mitt.) W.R.Buck & Ireland [Buck & Ireland 1985]
Stereophyllum papillidens Cardot & P.de la Varde ["*papillidens*"] = *Stereophyllum indicum* (Bél.) Mitt. [Wijk et al. 1967]
 - Stereophyllum radiculosum*** (Hook.) Mitt.
 - Shembaganur, 1909, leg. Vellé no. 119 [Potier de la Varde 1923: 77, as *Stereophyllum papillidens* Cardot].
 - Shembaganur, *Foreau* no. 127 [Potier de la Varde 1924: 12].
 - PC; BM [Matthew 1973: 525].
 - Palni [Gangulee 1980: 1814].
Stereophyllum wightii (Mitt.) A.Jaeger = *Entodontopsis wightii* (Mitt.) W.R.Buck & Ireland [Buck & Ireland 1985]
Symblepharis densifolia Wilson = *Holomitrium densifolium* (Wilson) Wijk. & Margad. [Gao 1994]
Symphyodon acuminatus Dixon & P.de la Varde = *Myurium acuminatum* (Dixon & P.de la Varde) S.He & Snider [He & Snider 1992]
 - Symphyodon angustus*** (Müll.Hal.) A.Jaeger
 - Upper Palnis: Tiger Shola [Foreau 1931: 121].
 - Law's Ghat Road at 1676 m., 1959 [Foreau 1961: 36].
 - Symphyodon complanatus*** Dixon
 - Madura, Palni Hills, *Foreau* 752 [He & Snider 1992: 61].
 - Symphyodon perrottetii*** Mont.
 - Trunci-muscicola in sylvis humidis circa Ootacamund a cl. *Perrottet* inventa [Montagne 1842a: 250].
 - Neilgheri [Müller 1854: 250].
 - Upper Palnis: Tiger Shola [Foreau 1931: 121].
 - Holotype, India: Neel-Gherri, *Perrottet* s.n. [He & Snider 1992]. Type: Nilgiri hills, *Perrottet* s.n. (FH), ?*Perrottet* 1632 (BM, H).
Sympysodon praemollis Dixon & P.de la Varde = *Isotheciopsis comes* (Griff.) Nog. [Noguchi 1970]
 - Symphyodon pygmaeus*** (Broth.) S.He & Snider
 - Maduré, leg. André no. 166 [Potier de la Varde 1923: 74, as *Neckera pygmaea* Renaud & Cardot].
 - Perumalmalai, 5 Feb 1927 (no. 752) [Dixon & Pottier de la Varde 1927: 182].

- Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai Shola, Periyur [Foreau 1931: 121].

Sympysodontella involuta (Thwaites & Mitt.) M.Fleisch.

- Perumalmalai, 5 May 1924 (no. 392) [Dixon & Potier de la Varde 1927: 181].
- Madras, *Beddome* 72, 521 (NY) [Magill 1980].
- Kanyakumari Dist., W. Ghats, Muthukuzhivayal, ca 1110 m., 31 Mar 2009, *Daniels & J.L. Mabel* 249 [Daniels 2003].

Syntrichia fragilis (Taylor) Ochyra

- [Musc. Neilgh., Schmid s.n. [Müller 1983: 58, Type of *Barbula schmidii* C. Müll. (?BM)].
- Upper Palnis, Madura, 1929, *Foreau* 1183, 1191 [Dixon & Potier de la Varde 1930: 186, as *Tortula schmidii* (Müll.Hal.) Brooth.].
- Nilgiri Hills: corticolous in the grounds of the Savoy Hotel, Ootacamund, 22 Jan 1973, no. 73/565; on rock by roadside at Muthurai, c. 9 km on road from Ootacamund to Avalanche, 24 Jan 1973, no. 73/653 [Townsend 1978: 131].

Syntrichia princeps (De Not.) Mitt.

- Nilgiri [Montagne 1842a: 254, as *Tortula princeps* Dntrs. (sic)].
- *Syrrhopodon albidus* Thwaites & Mitt. = *Syrrhopodon prolifer* Schwägr. var. *prolifer* [Reese et al 1986]
- *Syrrhopodon blumii* Nees ex Hampe = *Exostratum blumii* (Nees ex Hampe) L.T.Ellis [Ellis 1985]
- *Syrrhopodon calymperoides* Cardot & P.de la Varde = *Syrrhopodon prolifer* Schwägr. var. *prolifer* [Ellis 2003]

Syrrhopodon gardneri (Hook.) Schwägr.

- Shembaganur at 1865 m., 1956 [Foreau 1961: 20, as *Syrrhopodon strictus* Thwaites & Mitt.].
- *Syrrhopodon glaucus* Schwägr. = *Leucophanes glaucum* (Schwägr.) Mitt. [Mitten 1859]
- *Syrrhopodon leucophanoides* Cardot & P.de la Varde = *Syrrhopodon albidus* Thwaites & Mitt. = *Syrrhopodon prolifer* Schwägr. var. *prolifer* [Reese et al 1986]

Syrrhopodon prolifer Schwägr. var. ***prolifer***

- Palni-hills; en montant a Kodaikanal 1000 a 3000 m., leg. André, 1909 no. 17; Palni hills, pres de Kodaikanal, leg. André, 1909, (no. 26) [Potier de la Varde 1922: 42, as *Syrrhopodon calymperoides* Cardot & P.de la Varde & *Syrrhopodon leucophanoides* Cardot & P.de la Varde].
- Perumalmalai Shola, ca 6500 ft., 5 Apr 1926 (no. 195 & 232) [Dixon & Potier de la Varde 1927: 178].
- Upper Palnis, Madura, May 1929, *Foreau* 1095, 1127 [Dixon & Potier de la Varde 1930: 186, as *S. leucophanoides*].
- Upper Palnis, leg. G. André, 1909; Kodaikanal, leg. G. André, 1909; Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1930: 9].
- Kodaikanal at 2300 m., 1909 [Foreau 1961: 20, as *Syrrhopodon calymperoides* Cardot & P.de la Varde].
- PC; BM [Matthew 1973: 525].

Syrrhopodon reinwardtii Hornsch. = *Zygodon reinwardtii* (Hornsch.) A.Braun [Braun 1838]

Syrrhopodon semilibre (Mitt.) Besch.

- Upper Palnis, Madura, 1929, *Foreau* 1096, 1364 [Dixon & Potier de la Varde 1930: 186, as *Calymperopsis semilibre*].
- Upper Panis: Shembaganur [Foreau 1930: 10].
- Shembaganur at 1844 m., 1929 [Foreau 1961: 20, as *Calymperopsis semilibre* (Mitt.) M.Fleisch.].

Syrrhopodon strictus Thwaites & Mitt. = *Syrrhopodon gardneri* (Hook.) Schwägr. [Mohamed & Reese 1985 [1986]]

Syrrhopodon taylorii Schwägr. = *Leucoloma taylorii* (Schwägr.) Mitt. [Mitten 1856]

Taxiphyllum minutirameum (Müll.Hal.) H.A.Mill. & D.R.Sm.

- Palni [Gangulee 1978: 1962].

Taxiphyllum subretusum (Thwaites & Mitt.) O'Shea

- Shembaganur forest, 1929, *Foreau* 1333 [Dixon & Potier de la Varde 1930: 190].
- Shembaganur, 1929 [Foreau 1964: 224].

***Taxiphyllum taxirameum* (Mitt.) M.Fleisch.**

- leg. André no. 159 [Potier de la Varde 1923: 79].
- Top Station, 3 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 116].
- Palni [Gangulee 1980: 1946].

Taxithelium isopterygioides Dixon = *Campylodontium flavescens* (Hook.) Bosch & Sande Lac. [Tixier 1988]

(= *Mesonodon flavescens* (Hook.) W.R.Buck [Buck 1980b])

Taxithelium isopterygioides Dixon = *Campylodontium flavescens* (Hook.) Bosch & Sande Lac. [Tixier 1988]

(= *Mesonodon flavescens* (Hook.) W.R.Buck [Buck 1980b])

Taxithelium scutellifolium Besch. = *Glossadelphus scutellifolius* (Besch.) M.Fleisch. [Fleischer 1923]

Taxithelium vivicolor Broth. & Dixon = *Glossadelphus scutellifolius* (Besch.) M.Fleisch. [Tixier 1988]

***Tayloria indica* Mitt.**

- Upper Palnis, without details [Dixon & Potier de la Varde 1930: 187, as as *T. imbricata* Thw. et Mitt.].
- Madras, Nilgiri, *Beddome* 689, 750 (NY); Palni Hills, Shembaganur, 1930, *Foreau* 1334 (BM) [Koponen & Koponen 1974: 220].

Tayloria imbricata Thwaites & Mitt. = *Tayloria indica* Mitt. [Koponen & Koponen 1974]

***Tayloria subglabra* (Griff.) Mitt.**

- Madras, Nilgiris, Avalanche, 7500 ft., 1883, *Gamble* 1327b (H-BR); Nilgiri Hills, *Strachey* (BM, NY) [Koponen & Koponen 1974: 219].

***Thamniopsis utacamundiana* (Mont.) W.R.Buck**

- truncicola in sylvis prope Ootacamund fertilem perfectamque hauc pulchrum speciem invenit
cl. Perrottet [Montagne 1842a: 247, as *Hookeria utacamundiana* Mont.].
- Nilgiri [Müller 1854: 572].
- André, 1908, no. 60 [Potier de la Varde 1923: 77, as *Hookeriopsis percomplanata* Cardot].
- Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai [Foreau 1931: 121].
- Palnis [Brühl 1931: 81].
- Nilgiri, Palni [Gangulee 1977: 1514].

Type: Nilgiri hills, *Perrottet* s.n. (FH).

***Thamnobryum alopecurum* (Hedw.) Nieuwl. ex Gangulee**

- Nilgiri [Montagne 1842a: 245, as *Hypnum alopecurum* L.].
- Kodaikanal, Dec 1926 (no. 490) [Dixon & Potier de la Varde 1927: 182].
- Palni hills (Kodaikanal, Tovaiparai) [Chopra 1975: 377].
- Palni [Gangulee 1976: 1453].

***Thamnobryum parvulum* (Mitt.) R.S.Chopra**

- Nilgiri hills [Chopra 1977: 377].

Type: Nilgiri hills; *Perrottet* & al. s.n. (PC). Endemic to Nilgiri hills.

***Thamnobryum subseriatum* (Hook. ex Harv.) Nog. & Z.Iwats.**

- Nilgiri [Gangulee 1976: 1454].
- Kanyakumari District, W. Ghats [Daniels & Kariyappa 2007].

***Thuidium cymbifolium* (Dozy & Molk.) Dozy & Molk.**

- (locality unspecified), leg. André no. 32 et 32 bis [Potier de la Varde 1923: 78].
- High Wavy Mountains (Meghamali), Theni District, no. 332 [Blatter 1929: 877].
- Palnis [Brühl 1931: 90].
- South Indian hills [Gangulee 1978: 1648].
- Nilghirigebirge am Gipfel des Dodabetta oberhalb Otakamund, 2250 m., type of *T. dodabettense* (FH, B, L) [Touw 2001b: 19].

Thuidium dodabettense M.Fleisch. = *Thuidium cymbifolium* (Dozy & Molk.) Dozy & Molk. [Touw 2001b]

Thuidium fuscatum Besch. = *Pelekium fuscatum* (Besch.) Touw [Touw 2001a]

Thuidium glaucinoides Broth. = *Thuidium pristocalyx* (Müll.Hal.) A.Jaeger var. *samoanum* (Mitt.) Touw [Touw 2001b]

Thuidium glaucinum (Mitt.) Bosch & Sande Lac. = *Thuidium pristocalyx* (Müll.Hal.) A.Jaeger var. *pristocalyx* [Watanabe 1991]

Thuidium meyelianum (Hampe) Dozy & Molk. = *Thuidium plumulosum* (Dozy & Molk.) Dozy & Molk. [Norris & Koponen 1985]

***Thuidium plumulosum* (Dozy & Molk.) Dozy & Molk.**

– Upper Palnis: Shembaganur; Lower Palnis: Togaivarai Shola, Manalur, Periyur [Foreau 1931: 122].

– Palni [Gangulee 1978: 1622].

– Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].

Thuidium pristocalyx* (Müll.Hal.) A.Jaeger var. *pristocalyx

– Nilgheri [Müller 1854: 573].

– Shembaganur, *Queste 19* [Dixon 1914: 85].

– Upper Palnis: Kodaikanal, Shembaganur, Tiger Shola; Lowner Palnis: Perumalmalai [Foreau 1931: 122].

– Palni [Gangulee 1978: 1643].

– Bombay Shola, 5 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].

– Neilgherries, *Schmid s.n.*, type of *Hypnum pristocalyx* (lectotype - H) [Touw 2001b: 34].

Thuidium sparsifolium (Mitt.) A.Jaeger = *Pelekium versicolor* (Hornschr. ex Müll.Hal.) Touw [Touw 2001b]

Thuidium tamariscellum (Müll.Hal.) Bosch & Sande Lac. = *Pelekium versicolor* (Hornschr. ex Müll.Hal.) Touw [Touw 2001b]

***Thuidium tamariscinum* (Hedw.) Schimp.**

– in sylvis umbrosis circa *Avalanchy* lectum [Montagne 1842a: 245, as *Hypnum tamariscinum* Hedw.].

– Nilgheri [Müller 1854: 573].

Thuidium trachelocarpum Dixon & P.de la Varde = *Pelekium contortulum* (Mitt.) Touw [Touw 2001b]

Thysanomitrium depallieri Cardot & P.de la Varde = *Campylopus umbellatus* (Schwägr. & Gaudich. ex Arn.) Paris [Frahm 1987]

Thysanomitrium foreauanum Cardot & P.de la Varde = *Campylopus umbellatus* (Schwägr. & Gaudich. ex Arn.) Paris [Frahm 1987]

***Thysanomitrium leioneuron* Thér. & P.de la Varde**

– Maduré, sans localité plus explicite, 1920, *R.P. André s.n.* [Potier de la Varde 1922: 40].

– Munjikal, 6 June 1927 (no. 775) [Dixon & Potier de la Varde 1927: 178].

– Kodaikanal at 2133 m., 1927 [Foreau 1961: 19].

– PC [Matthew 1973: 525].

Type: Madurai, *André s.n.* (PC). Endemic to Tamil Nadu.

Thysanomitrium umbellatum Schwägr. & Gaudich. ex Arn. = *Campylopus umbellatus* (Schwägr. & Gaudich. ex Arn.) Paris [Gao 1994]

Thysanomitrium uncinatum Harv. = *Dicranodontium uncinatum* (Harv.) A.Jaeger [Gao 1994]

Timmia cucullata Michx. = *Timmia megapolitana* Hedw. [Abramov & Abramova 1983]

***Timmia megapolitana* Hedw.**

– Doddabetta, 2550 m., on fallen log, August, 1993, PAN-4659 [Maniselvan & Kumar 2000a: 31].

***Timmiella anomala* (Bruch & Schimp.) Limpr.**

– Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai Shola [Foreau 1930: 10].

***Timmiella barbuloides* (Brid.) Mönk.**

– Nilgiri [Montagne 1842a: 256, as *Trichostomum barbula* Schwaegr.].

***Toloxis semitorta* (Müll.Hal.) W.R.Buck**

– Maduré, leg. *André*, no 6 [Potier de la Varde 1923: 73, as *Papillaria semitorta* (Müll.Hal.) A.Jaeger].

– Palni [Gangulee 1976: 1290].

Tortella hyalinoblasta Broth. = *Trichostomum hyalinoblastum* (Broth.) Broth. [Brotherus 1902]

Tortula angustata Mitt. = *Pseudosymblepharis angustata* (Mitt.) Hilp. [Hilpert 1933]

Tortula cylindrotheca Mitt. = *Trichostomum tenuirostre* (Hook. & Taylor) Lindb. [Sollman 2000]

Tortula duriuscula Mitt. = *Pseudosymblepharis bombayensis* (Müll.Hal.) P.Sollman (= *Chionoloma bombayense* (Müll.Hal.) P.Sollman) [Sollman 2000]

Tortula fragilis Taylor = *Syntrichia fragilis* (Taylor) Ochyra [Kürschner 2000]

Tortula indica Hook. = *Barbula indica* (Hook.) Spreng. [Magill 1981 [1982]]

Tortula princeps De Not. = *Syntrichia princeps* (De Not.) Mitt. [Kürschner 2000]

Tortula schmidii (Müll.Hal.) Broth. = *Syntrichia fragilis* (Taylor) Ochyra [Zander 1993]

- Tortula stenophylla* Mitt. = *Pseudosymbiepharis bombayensis* (Müll.Hal.) P.Sollman (= *Chionoloma bombayense* (Müll.Hal.) P.Sollman) [Sollman 2000]
- Tortula tortuosa* Hedw. = *Tortella tortuosa* (Hedw.) Limpr. [Limprecht 1888]
- Trachycladiella sparsa*** (Mitt.) M.Menzel
- André, nos. 7 et 24 [Potier de la Varde 1923: 73, as *Floribundaria chloronema* (Müll.Hal.) Broth.]
 - Shembaganur, Old Ghat Road, 22 Jan 1927 (no. 685); Levinge Path, Kodaikanal, 8 Feb 1927 (no. 791); ibid 1912 (no. 182) [Dixon & Potier de la Varde 1927: 182].
 - High Wavy Mountains (Meghamali), Theni District, no. 306 [Blatter 1929: 877].
 - Upper Palnis: Kodaikanal, Shembaganur [Foreau 1931: 120].
 - Kodaikanal, ca 2100 m., 1958, coll. Foreau; Kodaikanal, S. Indian Hill Stations, 5000–8000, Mar 1957, coll. Seshagiri Rao 52, holotype of *Papillaria formosana* var. *pilifera* [Noguchi 1976: 285].
- Trachyloma indicum*** Mitt. var. *indicum*
- High Wavy Mountains (Meghamali), Theni District, no. 405 [Blatter 1929: 877].
 - Madurai [Chopra 1975: 321].
 - Palni [Gangulee 1976: 1315].
- Trachyloma indicum* Mitt. var. *latifolium* Nog. = *Trachyloma indicum* Mitt. var. *indicum* [Miller & Manuel 1982]
- Trachyloma recurvulum* Broth. = *Calyptothecium recurvulum* (Broth.) Broth. [Hyvönen 1989b]
- Trachyloma tahitense* Besch. = *Trachyloma indicum* Mitt. [Hyvönen 1989b]
- Trachiphyllum elongatum* Dixon & P.de la Varde = *Schwetschkeopsis elongata* (Dixon & P.de la Varde) W.R.Buck & H.A.Crum [Buck & Crum 1978]
- Trachiphyllum inflexum* (Harv.) A.Gepp var. *patentifolium* Dixon & P.de la Varde = *Trachiphyllum inflexum* (Harv.) A.Gepp [Buck 1979]
- Trachiphyllum inflexum*** (Harv.) A.Gepp
- Mundathurai, 1928, Foreau 977 [Dixon & Potier de la Varde 1930: 181; Buck 1979: 385, as *T. inflexum* var. *patentifolium*].
 - Lower Palnis: Palamalai [Foreau 1931: 123].
 - PC [Matthew 1973: 525].
 - Palni hills (Palamalai, Mundathirai) [Chopra 1975: 477].
- Trachiphyllum inflexum* (Harv.) A.Gepp var. *patentifolium* Dixon & P.de la Varde = *Trachiphyllum inflexum* (Harv.) A.Gepp [Buck 1979]
- Trachypodopsis serrulata*** (P.Beauv.) M.Fleisch. var. *crispatula* (Hook.) Zanten
- André no. 49 [Potier de la Varde 1923: 73].
 - Upper Palnis: Shembaganur [Foreau 1931: 119].
 - Palni hills (Old Ghat Road) [Chopra 1975: 312].
 - Kodaikanal, South Indian Hill Station, 5000–8000 ft., coll. Seshagiri Rao 51 [Noguchi 1976: 250].
 - Palni [Gangulee 1976: 1237].
- Trachypus bicolor*** Reinw. & Hornsch. var. *bicolor*
- Nilgiris: ex herb. Ind. Or. Hook. f. et Thoms., no. 36, *c.fr.* (L); Madura, Palni Hills; Kodaikanal, leg. Foreau, 1911, no. 37; Kodaikanal, leg. Foreau, 1953, no. 63 [Zanten 1959].
 - Tiger Shola, 1 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 113].
 - Nilgiri, Palni [Gangulee 1976: 1229].
- Trachypus bicolor*** Reinw. & Hornsch. var. *hispidus* (Müll.Hal.) Cardot
- Nilgheri [Müller 1854: 570].
 - André nos. 72, 77, 103, 107, forma *depauperata*, no. 81 [Potier de la Varde 1923: 73, as *Trachypus hispidus*, and *Trachypus subpiliferus* Cardot].
 - Upper Palnis: Kodaikanal, Shembaganur; Lower Palnis: Perumalmalai [Foreau 1931: 119].
 - Madura: Palni hills: Kodaikanal, leg. André, May 1909, no. 146; Kodaikanal, leg. Foreau, 1911, no. 41; Kodaikanal, leg. Foreau, 20 Jan 1912, no. 36; Shembaganur, leg. Foreau, May 1956,

no. 211 and 211a; Nilgiris: *Hohenacker* (L), ex herb. Montagne; Avalanche, leg. *Gambler*, Nov 1883, no. 13310 (H - *T. micro-bicolor*) [Zanten 1959: 497].

Trachypus dimorphus Dixon & P. de la Varde = *Trachypus humilis* Lindb. var. *humilis* [Zanten 1959]

***Trachypus flexicaulis* (Wilson) Mitt.**

- Kodaikanal, W. of Madura, ca 2100 m., on tree-runks, June 1963, coll. *Laloraya* (NICH) [Noguchi 1976: 242].

Trachypus humilis* Lindb. var. *humilis

- André nos. 15 et 147 [Potier de la Varde 1923: 73, as *Trachypus massarti* Renauld & Cardot].
- On a stone, Kotagiri, Eastern Nilghiris, 6500 ft., May 1915, leg. *L.J. Sedgwick* (no. 706) type; above 700 ft., Nilghiris, July 1915, leg. *Sedgwick*. Co-type [Potier de la Varde 1928: 44].
- Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai, Togaivarai Shola [Foreau 1931: 119].
- Nilgiri and Palni hills, Kodaikanal, Shembaganur [Chopra 1975: 310].

***Trachypus humilis* Lindb. var. *tenerimus* (Broth. ex Herzog) Zanten**

- Madura: Tiger Shola nr. Shembaganur, leg. *Foreau*, 15 Jan 1912, no. 140 (PC, T. Massart); Palni Hills, Kodaikanal, leg. *Foreau*, 1912 (GRO, T. Massart) [Zanten 1959].
- Tiger Shola, 1 Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 113].

Trachypus massartii Renauld & Cardot = *Trachypus humilis* Lindb. var. *humilis* [Zanten 1959]

Trachypus subpilifer Cardot = *Trachypus bicolor* Reinw. & Hornsch. var. *hispidus* (Müll.Hal.) Cardot [Zanten 1959]

Trachypus tenerimus Broth. ex Herzog = *Trachypus humilis* Lindb. var. *tenerimus* (Broth. ex Herzog) Zanten [Zanten 1959]

Trematodon ceylonensis Müll.Hal. = *Trematodon longicollis* Michx. [Kumar 1985 [1986]]

***Trematodon conformis* Mitt.**

- South India (Nilgiri) [Gangulee 1971: 229].
- S. India [Chopra 1975: 52].

Trematodon decipiens Mitt. = *Wilsoniella decipiens* (Mitt.) Alston [Gao 1994]

***Trematodon longicollis* Michx.**

- Neddoubetta [Montagne 1842a: 254].
- *Trematodon longicollis* Mont. Musc. Neilgher. no. 54 a Perrottet in terra nuda prope Neddoubetta lectus [Müller 1853: 40].
- Perumal 1923, no. 281 [Potier de la Varde 1925: 42].
- Lower Palnis: Perumalmalai [Foreau 1930: 8].
- Perumalmalai, near Neutral Saddle, at 1600 m., 1959; Shembaganur, Levinge Path at 1905 m., 1959 [Foreau 1961: 19, as *Trematodon ceylonensis* Müll.Hal.].
- Palni [Gangulee 1971: 233].
- S. India (Perumalmalai and Shembaganur) [Chopra 1975: 52, as *Trematodon ceylonensis* Müll.Hal.].

***Trematodon schmidii* Müll.Hal.**

- Musc. Neilgher. (no details) [Müller 1853: 40].
- Perumal 1923, no. 342 [Potier de la Varde 1925: 41].
- Palnis [Brühl 1931: 21].
- Perumalmalai at 1554 m., 1926 [Foreau 1961: 19].
- Nilgiri and Palni hills (Perumalmalai) [Chopra 1975: 53].

Trichosteleum hamatum (Dozy & Molk.) A.Jaeger = *Radulina hamata* (Dozy & Molk.) W.R.Buck & B.C.Tan (= *Radulina borbonica*) [O'Shea 2006]

Trichostomum barbula Schwägr. = *Timmella barbuloides* (Brid.) Mönk. [Wijk *et al* 1969]

Trichostomum bombayense Müll.Hal. = *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2000]

Trichostomum bombayense Müll.Hal. = *Pseudosymblepharis bombayensis* (Müll.Hal.) P.Sollman (= *Chionoloma bombayense* (Müll.Hal.) P.Sollman) [Sollman 2000]

Trichostomum cylindricum (Brid.) Müll.Hal. = *Trichostomum tenuirostre* (Hook. & Taylor) Lindb. [Zander 1993]

Trichostomum difficile Duby = *Ditrichum difficile* (Duby) M.Fleisch. [Magill 1981 [1982]]

Trichostomum duriusculum (Mitt.) Broth. = *Pseudosymblepharis bombayensis* (Müll.Hal.) P.Sollman (= *Chionoloma bombayense* (Müll.Hal.) P.Sollman) [Sollman 2000]

Trichostomum hyalinoblastum (Broth.) Broth.

- Periyur, Lower Pulneys, 22 June 1926 (no. 399 & 423); ibid., 25 May 1924 (no. 564); Togaivarai Shola, 23 Jan 1927 (no. 646); Anagarai Shola (no. 665) [Dixon & Potier de la Varde 1927: 178].
- Upper Palnis: Shembaganur; Lower Palnis: Perumalmalai, Togaivarai Shola [Foreau 1930: 10].
- Palni Hills (Shembaganur) [Chopra 1975: 130]. Endemic to S. India.

Trichostomum indicum Schrad. = *Ptychomitrium indicum* (Schrad.) A.Jaeger [Ind Musc.]

Trichostomum minusculum Dixon & P.de la Varde = *Pseudosymblepharis bombayensis* (Müll.Hal.) P.Sollman
= *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2000]

Trichostomum orthodontum (Müll.Hal.) Broth. = *Chionoloma bombayense* (Müll.Hal.) P.Sollman [Sollman 2001]

Trichostomum orthodontum (Müll.Hal.) Broth. = *Pseudosymblepharis bombayensis* (Müll.Hal.) P.Sollman (= *Chionoloma bombayense* (Müll.Hal.) P.Sollman) [Sollman 2000]

Trichostomum perannulatum Dixon & P.de la Varde = *Pseudosymblepharis bombayensis* (Müll.Hal.)
P.Sollman (= *Chionoloma bombayense* (Müll.Hal.) P.Sollman) [Sollman 2000]

Trichostomum stenophyllum (Mitt.) Broth. = *Pseudosymblepharis bombayensis* (Müll.Hal.) P.Sollman (= *Chionoloma bombayense* (Müll.Hal.) P.Sollman) [Sollman 2000]

Trichostomum subminusculum Dixon & P.de la Varde = *Chionoloma bombayense* (Müll.Hal.) P.Sollman
[Sollman 2001]

Trichostomum subminusculum Dixon & P.de la Varde = *Pseudosymblepharis bombayensis* (Müll.Hal.)
P.Sollman (= *Chionoloma bombayense* (Müll.Hal.) P.Sollman) [Sollman 2000]

Trichostomum tenuirostre (Hook. & Taylor) Lindb.

- High Wavy Mountains (Meghamali), Theni District, no. 309 [Blatter 1929: 877].
- Upper Palnis: Kodaikanal, Shembaganur [Foreau 1930: 10, as *Trichostomum cylindricum* (Bruch.) Müll.Hal.].

Trigonodictyon indicum Dixon & P.de la Varde = *Dryptodon indicus* (Dixon & P.de la Varde) Ochyra &
Zarnowiec [Ochyra & Zarnowiec 2003]

Ulota schmidii (Müll.Hal.) Mitt.

- Musc. Neilgher. (no details) [Müller 1853: 60, as *Orthotrichum schmidii* C.Muell.].
- Nilgiris [Brühl 1931: 62].
- Tamil Nadu State: Nilgiri Hills; corticolous in the grounds of the Savoy Hotel, Ootacamund,
21 Jan 1973, Townsend 73/555 [Lewinsky 1980].

Vesicularia firma Dixon & P.de la Varde

- Palni Hills, Central station at 1830 m., 1929 [Foreau 1961: 45].
- PC; BM; RHT [Matthew 1973: 526].
- Palni hills (Central Station), Travancore [Chopra 1975: 538]. Endemic to S. India.

Vesicularia nitidula Cardot & P.de la Varde

- Kodaikanal leg. André, no. 208 [Potier de la Varde 1924: 10].
- Perumal, bien fructifié no. 298 [Potier de la Varde 1925: 43].
- Kodaikanal at 2130 m., 1926; Perumalmalai at 1602 m., 1959 [Foreau 1961: 45].
- BM [Matthew 1973: 526].

– Palni hills (Kodaikanal, Perumalmalai) [Chopra 1975: 538].

Type: Palni hills, André 208 (PC; BM). Endemic to Palni hills.

Vesicularia reticulata (Dozy & Molk.) Broth.

- Sirumalai, on wet stones, 24 Apr 1924 (no. 422) [Dixon & Potier de la Varde 1927: 183].

Vesicularia subpilicuspis Cardot & P.de la Varde

- Kodaikanal, leg. Rev. André, 1909: nos. 19, 109, 104 [Potier de la Varde 1923: 79].
- Palnis, 1929, Foreau 560 [Dixon & Potier de la Varde 1930: 191].
- PC; BM [Matthew 1973: 526].
- Palni hills (Kodaikanal, Shembaganur, Tovaiparai Shola) [Chopra 1975: 538].
- Tiger Shola, 1 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 114].

Warburgiella isopterygioides Dixon & P.de la Varde

- Shembaganur, on a shrub, near the Church at 1870 m., 1929, Foreau 1097 [Dixon & Potier de la Varde 1930: 182; Foreau 1961: 44].

- PC; BM [Matthew 1973: 526].
- Palni hills (Tovaiparai Shola, Shembaganur) [Chopra 1975: 510].
Type: Palni hills, *Foreau 1097* (PC; BM). Endemic to Palni hills.
- Warburgiella leptocarpa*** (Schwägr.) M.Fleisch.
– Nilgiri hills [Chopra 1975: 510].
- Warburgiella leptorhynchoides*** (Mitt.) M.Fleisch.
– Hab. ad trunco dejectus putridosque in sylvis humidis prope *Ootacamund* et *Avalanchy* frequens [Montagne 1842a: 244].
- Nilgiri and Palni hills [Chopra 1975: 510].
- Nilgiri: Tiger Shola, Bombay Shola, Pillar Rock, Aug 1973, *Tixier s.n.* (PC) [Tixier 1979: 115].
- Warburgiella perviridis*** Dixon & P.de la Varde
– Glen Falls, Kodaikanal, leg. *Fr. Anglade*, 2 Apr 1926 (no. 1); Perumalmalai Shola (no. 219); Tiger Shola, Southern Ridge (no. 250) [Dixon & Potier de la Varde 1927: 176].
- Upper Palnis, Madura, 1929, *Foreau 1192*; Tiger Sghola, Palnis, 1927, *Foreau 733* [Dixon & Potier de la Varde 1930: 191].
- PC; BM; RHT [Matthew 1973: 526].
- Palni hills (Kodaikanal, Tiger Shola, Perumalmalai) [Chopra 1975: 510].
Type: Kodaikanal, 2 April 1926, *Fr. Angade 1.*
- Webera camptotrachela* Renauld & Cardot = *Pohlia camptotrachela* (Renauld & Cardot) Broth. [Brotherus 1903]
Webera delicatula Mitt. = *Pohlia flexuosa* Harv. [Ind. Musc]
Webera elongata (Hedw.) Schwägr. = *Pohlia elongata* Hedw. [Magill 1987]
Webera flexuosa (Harv.) Mitt. = *Pohlia flexuosa* Harv. [Ind. Musc.]
Webera himalayana Mitt. = *Pohlia elegata* Hedw. [Ochi 1967 [1968]]
Webera humicola Dixon & P.de la Varde = *Pohlia camptotrachela* (Renauld & Cardot) Broth. [fide Gangulee 1974]
Webera rigescens Mitt. = *Pohlia rigescens* (Mitt.) Broth. [Brotherus 1903]
- Weissia controversa*** Hedw.
– Lower Palnis: Perumalmalai, Manalur [Foreau 1930: 10].
- Palni hills (Manalur) [Chopra 1975: 125].
- Weissia edentula*** Mitt.
– Upper Palnis: Tiger Shola; Lower Palnis: Perumalmalai, Manalur [Foreau 1930: 10].
- Tiger Shola at 1676 m., 1922; Manalur at 1067 m., 1926 [Foreau 1961: 22].
- Tiger Shola at 1844 m., 1925 [Foreau 1961: 22, as *Hymenostomum edentulum* (Mitt.) Besch.].
- Nilgiri, Palni [Gangulee 1972: 675].
- Weissia macrospora*** Cardot & P.de la Varde
– Environs de Shembaganur, 2000 m., 1910, coll. *Rev. Ant. Vellé, Van den Broeck* no. 182 [Potier de la Varde 1922: 43].
- Upper Palnis: Shembaganur, 1910, leg. *A. Vellé*; Lower Palnis: Peryur [Foreau 1930: 10].
- PC; BM [Matthew 1973: 526].
- Palni hills (Shembaganur, Law's Ghat Road) [Chopra 1975: 125].
- Weissia minuta*** (Dixon & P.de la Varde) M.N.Aziz & Vohra
– Upper Palnis: Tiger Shola, (no. 561 b), 2 Jan 1927; Lower Palnis: Palamalai, 1925 [Dixon & Potier de la Varde 1927: 165, as *Astomum minutum*; Foreau 1930: 10].
- Tiger Shola at 1676 m., 1927; Palamalai at 914 m., 1925 [Foreau 1961: 21, as *Astomum minutum* Dixon & P.de la Varde].
- Palni hills [Brühl 1931: 35].
- BM [Matthew 1973: 520].
- Palni hills (Tiger Shola, Manalur) [Chopra 1975: 127].
Weissia nivalis Brid. = *Campylopus nivalis* (Brid.) Brid.var. *nivalis* [Bridel 1806]
Weissia tenuirostris Hook. & Taylor = *Trichostomum tenuirostre* (Hook. & Taylor) Lindb. [Lindberg 1864]
Weissia viridula Hedw. ex Brid., nom. illeg. = *Weissia controversa* Hedw. [Hedwig 1801]
- Wilsoniella decipiens*** (Mitt.) Alston in Dixon

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- Lower Palnis: Palamalai [Foreau 1930: 8].
 - Palamalai at 1066 m., 1925 [Foreau 1961: 19].
 - Palni [Gangulee 1971: 236].
 - Wilsoniella decipiens* var. *acutifolia* Dixon = *Wilsoniella pellucida* var. *acutifolia* Dixon [Gao 1994] (= *Wilsoniella decipiens* (Mitt.) Alston) [Norris & Koponen 1990]
 - Wilsoniella pellucida* var. *acutifolia* Dixon = *Wilsoniella decipiens* (Mitt.) Alston [Norris & Koponen 1990]
 - Zygodon acutifolius** Müll.Hal
 - Musc. Neilgher. (no details) [Müller 1853: 59].
 - In mont. Nilgiri, Schmid ! [Mitten 1859: 47].
 - Nilgiri hills [Chopra 1975: 273]. Endemic to Nilgiri hills (type not indicated).
 - Zygodon anomalus* Dozy & Molk. = *Zygodon tetragonostomus* A.Braun ex Bruch, Schimp. & W.Gümbel [Ind. Musc.]
 - Zygodon humilis* Thwaites & Mitt. = *Codonoblepharon pungens* (Müll.Hal.) A.Jaeger [Matcham & O'Shea 2005]
 - Zygodon perpusillus* Thwaites & Mitt. = *Rhachithecium perpusillum* (Thwaites & Mitt.) Broth. [Brotherus 1909]
 - Zygodon pungens* Müll.Hal. = *Codonoblepharon pungens* (Müll.Hal.) A.Jaeger [Jaeger 1874]
 - Zygodon reinwardtii** (Hornschr.) A.Braun
 - Musc. Neilgher. (no details) [Müller 1853: 59].
 - In mont. Nilgiri, Schmid ! Gough !, as *Zygodon cylindricarpus* Müll.Hal. [Mitten 1859: 47].
 - Upper Palnis: Kodaikanal, Shembaganur [Foreau 1931: 118].
 - Kodaikanal, Upper Lake road at 2133 m., 1929 [Foreau 1961: 29].
 - Palni hills (Kodaikanal) [Chopra 1975: 273].
 - Kodaikanal, 1 Aug 1973, Tixier s.n. (PC) [Tixier 1979: 113].
 - Zygodon schmidii* Müll.Hal. = *Oreoweisia laxifolia* (Hook.f.) Kindb. [Gangulee 1971]
 - Zygodon strictus* Mitt. = *Drummondia stricta* (Mitt.) Müll.Hal. [Gangulee 1971]
 - Zygodon tetragonostomus** A.Braun ex Bruch, Schimp. & W.Gümbel
 - Montes Neilgherrenses: Bernhard Schmid in Hb. Jenensi [Müller 1853: 59].
 - In mont. Nilgiri, Perrottet ! Gough ! Schmid ! [Mitten 1859: 47].
 - Shembaganur no. 57; Perumal, 349 [Potier de la Varde 1925: 42].
 - Lower Palnis: Manalur [Foreau 1931: 118].
 - Manalur at 914 m., 1923; Perumalmalai at 1602 m., 1959; Shembaganur at 1828 m., 1929; Kodaikanal at 2190 m., 1959 [Foreau 1961: 29].
 - S. India, Manalur, Perumalmalai, Shembaganur [Chopra 1975: 273].

DOUBTFUL AND ERRONEOUS RECORDS

MARCHANTIOPHYTA

- Acrolejeunea fertilis* (Reinw., Blume & Nees) Schiffn. – listed in Bapna & Kachroo (2000b) on the basis of a report by Rao & Udar (1957) of a collection from Yercaud. However, the collection is sterile and the description does not match that of *Acrolejeunea fertilis*. The Yercaud collection is not mentioned in the major revision of *Acrolejeunea* (Gradstein 1975).
- Asterella vulcanica* (Schiffn.) Pandé *et al.* – known only from Java; records from S. India (Chopra 1938) are considered extremely doubtful (Long 2006).
- Calycularia crispula* Mitt. – Madras, Iyengar, 1922, Bh. 33 (xa) [Chopra 1938: 244]. To be reassessed. This species is not accepted from southern India by Bapna & Kachroo (2000b), and the record is not certainly from Tamil Nadu.
- Cyathodium tuberosum* Kashyap – Although Srivastava & Dixit 1996a: 170 include 'Madras' in their summary of the species range, their distribution map (p. 209) does not show a locality within Tamil Nadu.
- Fossombronia cristula* Austin – an endemic of the United States (Krayesky *et al.* 2005).

Frullania glomerata (Lehm. & Lindenb.) Mont. – listed from the Nilgiri Mts. by Montagne (1842b) and Mitten (1861), but the species is confined to tropical C. and S. America (Gradstein & Costa 2003). It is not known to which taxon the Indian specimens should be assigned.

Frullania grandistipula Lindenb. – Madras Pen. (no details) [Hattori 1974]. Hattori (1974, 1976) included "Madras Pen." in summary distribution lists for this species. However, source literature for the record has not yet been found, and the record may not have been made within Tamil Nadu.

Frullania riparia Hampe ex Lehm. (syn. *F. aelotis*) – confined to Europe eastwards to Iran, and North America, Mexico (Schuster, 1992a).

Jungermannia pfleidereri Amakawa & Váňa – Madura, associated with *Liocleana subulata*, *Pfleiderer s.n.*, det. Stephani, as *Solenostoma purpuratum* (PC) [Amakawa 1972: 388, as *Jungermannia pfleidereri*]. Váňa (1974: 278) commented that *J. pfleidereri* may belong to *J. polyrhizoides* Grolle as a modification, but a study of more material is required. The collection is very poor (J. Váňa, pers. comm., Feb 2010), and perhaps indeterminate.

Lioclaena lanceolata Nees (syn. *Jungermannia leiantha* Grolle) – Reported in Chopra 1938: 245, as *Aplozia lanceolata*. However, *J. leiantha* is confined to northern temperate regions (e.g. Schuster, 1969; Paton, 1999), and is unconfirmed east of the Ural Mountains (Váňa & Long 2009). Probably all Indian records refer to *L. subulata*.

Lejeunea serpyllifolia sensu Montagne (1842b) – to be clarified: *L. serpyllifolia* is a synonym of *L. patens* Lindb., a species confined to Europe, Turkey and the Caucasus (Schuster, 1980; Grolle 1982; Paton, 1999).

Leptocolea ocellata sensu Chopra 1938 (*Cololejeunea ocellata* (Horik.) Benedix) – treated here as a mis-identification.

Leptolejeunea himalayensis Pandé & R.N.Misra – this taxon was redetermined as *Lejeunea* sp. by Awasthi (1986). The recent report from Tamil Nadu (Daniels & Daniel 2003c) to be re-assessed.

Phragmicomia filiformis sensu Montagne (1842b) – to be clarified: *Omphalanthus filiformis* (Sw.) Nees (syn. *Phragmicomia filiformis* (Sw.) Nees) is confined to the Neotropics (Gradstein & Costa 2003).

Plagiochila dichotoma sensu Montagne (1842b) – to be clarified: *P. dichotoma* (P.Beauv) Nees & Mont. is apparently confined to the neotropics and Africa (Jones 1962).

Plagiochila javanica (Sw.) Nees & Mont. – confined to SE Asia (So & Grolle 2000a).

Plagiochila levieri Schiffn. – synonym of *P. propinqua* Sande Lac, which ranges from SE Asia to the W. Pacific.

Porella pinnata L. – confined to N. America and W. Europe (e.g. Schuster 1980; Paton 1999).

Radula boryana sensu Montagne (1842b) – probably referring to the collection that Castle (1966) identified as *R. perrottetii* Gottsche, "ex Hb. Montagne".

Radula complanata sensu Montagne (1842b) – to be clarified: *R. complanata* is a species of northern temperate regions.

Radula tokiensis Steph.– a species of East Asia (China, Japan, Korea); the report in Chopra (1938) is treated as a mis-identification.

Riccia warnstorffii Limpr. – probably confined to Europe and around the Mediterranean; doubtfully from eastern N. America. Indian reports are considered likely to refer to other species.

Scapania glaucescens sensu Montagne (1842b) – identity not known; a synonym of *Schistochila glaucescens* (Hook.) A.Evans, endemic to New Zealand (Schuster & Engel 1985).

Solenostoma gracillimum (Sm.) R.M.Schust. (syn. *Jungermannia creunata* Sm.) – confined to the Holarctic region, including the Himalayan region (Schuster, 1969; Paton, 1999; Váňa & Long 2009). Its presence in southern India requires confirmation.

Solenostoma purpuratum (Mitt.) Steph. – Kodaikanal, Foreau, 1934, 2129, as *Aplozia purpurata* [Chopra 1938: 245]. To be clarified: neither Amakawa nor Váňa mention a Tamil Nadu record

of *J. purpurata* in their revisions of Asian *Jungermannia*, except as a misidentification (see *J. pfeifferi* above). The species is otherwise known only from the Himalayan region.

Solenostoma sphaerocarpum (Hook.) Steph. – Kodaikanal, Foreau, 1934, 2130, as *Aplozia sphaerocarpa* [Chopra 1938: 245]. To be clarified: not mentioned from South India in Bapna & Kachroo (2000a), or in revisions of Asian *Jungermannia* by Amakawa or Váňa.

Spruceanthus polymorphus (Sande Lac.) Verd. – to be confirmed. Bapna & Kachroo (2000b) cite two localities: Yercaud (Rao & Udar 1957), which is discounted here because of the inadequate description and illustration which seem to conform more with *S. semirepandus*, and Kodaikanal, for which a source reference has not been found.

ANTHOCEROTOPHYTA

Anthoceros macrosporus Steph. – the only record of this species is from Borghat, Khandala, Maharashtra (Asthana & Srivastava (1991). Kachroo *et al.* 1977 (repeated in Bapna & Kachroo 2000a) give a location as 'Borghat, Kodaikanal', but the latter is treated as a error.

BRYOPHYTA

Atrichum longifolium Cardot & Dixon ex Gangulee – S. India [Chopra 1975: 16]. No certain record from Tamil Nadu.

Ectropothecium manii Broth. – Gangulee (1980: 1990) listed this species from "South India" and his distribution map indicates a locality in the Western Ghats which, however, may be in either Kerala or Tamil Nadu.

Entodon beyrichii (Schwägr.) Müll.Hal. – Reported from Nilgiri by Montagne (1842: 247), as *Isothecium beyrichii* Mont. (*Neckera beyrichii*), but requiring confirmation.

Entodon rubicundus (Griff.) A.Jaeger – South India [Gangulee 1980: 1783]. No certain record from Tamil Nadu.

Leucoloma tenerum Mitt. – S. India, Kanara [Chopra 1975: 86]. No certain record from Tamil Nadu, the locality, Kanara, probably referring to a place in Karnataka.

Meiothecium jagorii (Müll.Hal.) Broth. – South India [Gangulee 1980: 1872]. No certain record from Tamil Nadu.

Paraleucobryum albicans (Schwägr.) Loeske – Nilgieri [Montagne 1842a: 255]. *P. albicans* is confined to the neotropics, and the Montagne record must refer to another species.

Philonotis dispersa (Cardot & P.de la Varde) D.G.Griffin & W.R.Buck – S. India [Chopra 1975: 248]. No certain record from Tamil Nadu.

Pogonatum contortum (Menzies ex Brid.) Lesq. – circa Coonoor lectum [Montagne 1842a: 252]. Hyvönen (1989a) considered this species to be confined to both sides of the northern Pacific Ocean. Gangulee does not accept *P. contortum* from S. India, and the Montagne record must represent another species.

Pogonatum inflexum (Lindb.) Sande Lac. – reported from S. India (Chopra 1975: 24). Hyvönen (1989) considered the species to be restricted to Japan and surrounding areas of NE Asia, and that many records from mainland Asia are based on misidentifications of either *P. neesii* (Müll.Hal.) Dozy or *P. fuscatum* Mitt.

Sphagnum ceylanicum Mitt. ex Warnst. – S. India [Chopra 1975: 4]. No certain record from Tamil Nadu.

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