

## CHECK LIST OF MOSSES OF SINGAPORE

by

Y. C. WEE

Department of Botany,  
University of Singapore

### SUMMARY

A total of 126 species of mosses from 51 genera and 21 families, recorded from Singapore, are contained in this check list.

Fleischer (1900–1922), in his four volumes on the moss flora of Bogor, Indonesia, listed a number of species collected from Singapore. Further records of local mosses are contained in Dixon's (1926) list of mosses from the Malay Peninsula, collected mainly by H. N. Ridley, I. H. Burkill, R. E. Holttum, and others from the Singapore Botanic Gardens. A list of the mosses collected from the Botanic Gardens itself was compiled by Holttum (1926). Further work was not seen until Johnson (1964) published her account of the Malaysian Leucobryaceae and much later, the Fissidentaceae (Johnson, 1973).

Dixon's (1926) list is by far the most comprehensive, but it is very much outdated. The present paper is an attempt at updating the list of mosses recorded from Singapore. Most of the species are from the above mentioned papers. Those marked with an asterisk (\*) are from the records of the Bryophyte Herbarium maintained by the Department of Botany, University of Singapore, as well as from collections made by myself during the last two years. A total of 126 species from 51 genera and 21 families are included. The nomenclature and authorities cited are in accordance with Wijk *et al.* (1959–1969). The most appropriate name is given for each species, while any other name under which it has been reported is added in parenthesis.

### FISSIDENTACEAE

*Fissidens* Hedw.

- F. ceylonensis* Doz. et Molk.
- F. crassinervis* Lac.
- F. mittenii* Par.
- F. mittenii* Par. var. *javensis* Fleisch.
- F. sylvaticus* Griff. (*F. zippelianus* Doz. et Molk.)

### DITRICHACEAE

*Garckea* C. Muell.

- G. comosa* (Doz. et Molk.) Wijk et Marg. (*G. phascoides* C. Muell.)

## DICRANACEAE

*Campylopus* Brid.

*C. serratus* Lac.

*Dicranoloma* (Ren.) Ren.

*D. braunii* (C. Muell.) Par.

*Microdus* Schimp.

*M. miquelianus* (Mont.) Besch.

## LEUCOBRYACEAE

*Arthrocormus* Doz. et Molk.

\**A. schimperi* (Doz. et Molk.) Doz. et Molk.

*Exodictyon* Card.

\**E. blumii* (C. Muell.) Fleisch.

*Leucobryum* Hampe.

*L. aduncum* Doz. et Molk.

*L. javense* (Brid.) Mitt.

*L. sanctum* (Brid.) Hamp.

*L. scalare* C. Muell. ex Fleisch.

*Leucophanes* Besch.

*L. albescens* C. Muell.

*L. candidum* (Schwaegr.) Lindb. (*L. aciculare* C. Muell.)

*L. candidum* (Schwaegr.) Lindb. var. *densifolium* (Mitt.) Dix.  
(*L. densifolium* Mitt.)

*L. octoblepharoides* Brid.

*Splachnum*

## CALYMPERACEAE

*Calymperes* Sw.

*C. bescherellei* Fleisch.

*C. delessertii* Besch.

*C. dozyanum* Mitt.

*C. hampei* Doz. et Molk.

*C. longifolium* Mitt.

*C. nicobarens* Hamp.

\**C. nietneri* C. Muell.

*C. porrectum* Mitt. (*Calymperes salakense* Besch.)

*C. punctulatum* Hamp.

*C. recurvifolium* Besch.

*C. serratum* A. Braun ex C. Muell.

*C. tahitense* (Sull.) Mitt. (*Calymperes orientale* Mitt. ex Besch.)

*C. tenerum* C. Muell.

\**C. thwaitesii* Besch. (*C. fordii* Besch.)

*Calymperopsis* (C. Muell.) Fleisch.

*C. tjibodensis* (Fleisch.) Fleisch. (*Syrrhopodon tjibodensis* Fleisch.)

*Syrrhopodon* Schwaegr.

*S. albo-vaginatus* Schwaegr.

*S. ciliatus* (Hook.) Schwaegr.

*S. confertus* Lac.

*S. croceus* Mitt. (*Calymperidium croceum* (Mitt.) Fleisch.)

\**S. gardneri* (Hook.) Schwaegr.

*S. griffithii* Mitt.

*S. horridulus* Fleisch.

*S. involutus* Schwaegr.

*S. muelleri* (Doz. et Molk.) Lac. (*Calymperidium muelleri* Doz. et Molk.)

*S. revolutus* Doz. et Molk.

*S. ridleyi* Broth. ex Dix.

*S. rufescens* Hook. et Grev.

*S. spiculosus* Hook. et Grev.

*S. trachiphyllus* Mont.

*Thyridium* Mitt.

*T. fasciculatum* (Hook et Grev.) Mitt. (*Calymperes fasciculatum* (Hook. et Grev.) Mitt., *Syrrhopodon fasciculatus* Hook et Grev.)

*T. flavum* (C. Muell.) Fleisch. (*Syrrhopodon flavus* C. Muell.)

- T. manii* Fleisch. (*Syrrhopodon manii* C. Muell.)  
*T. repens* (Harv.) Mitt. (*Syrrhopodon repens* Harv.)  
*T. undulatum* (Broth. et Geh.) Fleisch. (*Syrrhopodon undulatus* Broth. et Geh.)  
*T. undulatum* (Doz. et Molk.) Fleisch. (*Syrrhopodon undulatus* (Doz. et Molk.) Lindb.)  
*T. wallisii* (C. Muell.) Jaeg. (*Syrrhopodon wallisii* C. Muell.)

### POTTIACEAE

*Hydrogonium* (C. Mueii.) Jaeg.

- H. arcuatum* (Griff.) Wijk et Marg. (*Barbula comosa* Doz. et Molk.)  
*H. consanguineum* (Thwait. et Mitt.) Hilp. (*Barbula consanguinea* (Thwait. et Mitt.) Jaeg.)

*Hymenostomum* R. Brown

- H. malayense* Fleisch.

*Hyophila* Bridg.

- H. involuta* (Hook.) Jaeg. (*H. commutata* Broth., *H. dozy-molkenboeri* Fleisch., *H. micholitzii* Both.)  
*H. javanica* (Nees et Blum.) Brid.

*Semibarbula* Herz. ex Hilp.

- S. orientalis* (Web.) Wijk. et Marg. (*Barbula indica* (Hook.) Spreng., *Trichos-  
tomum orientale* Web.)

### SPLACHNACEAE

*Gymnostomiella* Fleisch.

- G. vernicosa* (Hook.) Fleisch.

*Splachnobryum* C. Muell.

- S. oorschotii* (Lac.) C. Muell.

### BRYACEAE

*Bryum* Hedw.

- B. coronatum* Schwaegr.

\**B. junghuhnianum* Hamp. ex Doz. et Molk.

## MNIACEAE

*Mnium* Hedw.

\**M. succulentum* Mitt.

## RHIZOGONIACEAE

*Rhizogonium* Brid.

*R. latifolium* Bosch et Lac.

*R. spiniforme* (Hedw.) Bruch

## HYPNODENDRACEAE

*Hypnodendron* (C. Muell.) Lindb.

*H. arborescens* (Mitt.) Lindb.

## ORTHOTRICHACEAE

*Desmotrichia* Lindb.

*D. apiculata* (Doz. et Molk.) Lindb.

*Groutiella* Steere

*G. goniorrhyncha* (Doz. et Molk.) Wijk et Marg. (*Macromitrium goniorrhynchum* (Doz. et Molk.) Mitt.)

*Macromitrium* Brid.

*M. incurvifolium* (Hook. et Grev.) Schwaegr.

## MYURIACEAE

*Myurium* Schimp.

*M. rufescens* (Reinw. et Hornsch.) Fleisch.

*Piloeциum* (C. Muell.) Broth.

*P. pseudorufescens* (Hamp.) C. Muell.

## NECKERACEAE

*Neckeropsis* Reichdt.

*N. gracilenta* (Bosch et Lac.) Fleisch.

*Pinnatella* Fleisch.

*P. kuehliana* (Bosch et Lac.) Fleisch.

*P. microptera* Fleisch.

*P. mucronata* (Bosch et Lac.) Fleisch.

## HOOKERIACEAE

*Callicostella* (C. Muell.) Mitt.

*C. beccariana* (Hamp.) Jaeg.

*C. papillata* (Mont.) Mitt.

*C. prabaktiana* (C. Muell.) Bosch et Lac.

## HYPOPTERYGIACEAE

*Cyathophorella* (Broth.) Fleisch.

\**C. tenera* (Bosch et Lac.) Fleisch.

*Lopidium* Hook. f. et Wils.

*L. struthiopteris* (Brid.) Fleisch. (*Hypopterygium javanicum* (Hamp.) Jaeg.)

## THUIDIACEAE

*Pelekium* Mitt.

*P. bifarium* (Bosch. et Lac.) Fleisch. (*Thuidium bifarium* Bosch. et Lac.)

*P. velatum* Mitt.

## PLAGIOTHECIACEAE

*Plagiothecium* B.S.G.

\**P. neckeroideum* B.S.G.

## SEMATOPHYLLACEAE

*Acanthorrhynchium* Fleisch.

*A. papillatum* (Harv.) Fleisch. (*Taxithelium papillatum* (Harv.) Broth.)

*Acroporium* Mitt.

*A. asperifolium* (Thwait. et Mitt.) Dix.

*A. convolutum* (Bosch. et Lac.) Fleisch.

\**A. rufum* (Reinw. et Hornsch.) Fleisch. (*A. braunii* (C. Muell.) Fleisch.)

*A. secundum* (Reinw. et Hornsch.) Fleisch.

*Glossadelphus* Fleisch.

*G. zollingeri* (C. Muell.) Fleisch. (*Ectropothecium zollingeri* (C. Muell.) Jaeg.)

*Meiothecium* Mitt.

*M. microcarpum* (Hook.) Mitt.

*M. microcarpum* (Hook.) Mitt. var. *lineolatum* (Dub.) Fleisch.

*M. jagorii* (C. Muell.) Broth.

*Rhaphidostichum* Fleisch.

*R. bruchii* (Doz. et Molk.) Fleisch.

*R. leptocarpum* Fleisch.

*R. luxurians* (Doz. et Molk.) Fleisch. (*Trichosteleum luxurians* (Doz. et Molk.) Broth.)

*Sematophyllum* Mitt.

*S. microcladiellum* Fleisch. (*Rhaphidostegium microcladum* (Doz. et Molk.) Broth.)

*S. saproxylophilum* (C. Muell.) Fleisch. (*Rhaphidostegium saproxylophilum* (C. Muell.) Jaeg.)

*Taxithelium* Spruc. ex Mitt.

*T. capillipes* (Lac.) Broth.

*T. instratum* (Brid.) Broth.

*T. isocladium* (Bosch. et Lac.) Ren. et Card.

*T. nepalense* (Schwaegr.) Broth.

\**T. vernieri* (Dub.) Bosch. (*T. lindbergii* (Jaeg.) Ren. et Card.)

*Trichosteleum* Mitt.

*T. boschii* (Doz. et Molk.) Jaeg. (*T. brachypelma* (C. Muell.) Par.)

*T. monostictum* (Thwait. et Mitt.) Broth. var. *laevius* Dix.

*T. singapurens*e Fleisch.

*Trismegistia* (C. Muell.) C. Muel.

*T. lancifolia* (Harv.) Broth.

*T. rigida* (Mitt.) Broth.

*Warburgiella* C. Muell.

*W. leptocarpa* (Schwaegr.) Fleisch. (*Trichosteleum leptocarpon* (Schwaegr.) Fleisch.)

## HYPNACEAE

*Ctenidiaeadelphus* Fleisch.

*C. plumularia* (C. Muell.) Fleisch. (*Taxithelium plumularia* (C. Muell.) Broth.)

*Ectropothecium* Mitt.

*E. buitenzorgii* (Bel.) Mitt.

*E. incubans* (Reinw. et Hornsch.) Jaeg.

\**E. intorquatum* (Doz. et Molk.) Jaeg.

*E. monumentorum* (Dub.) Jaeg.

*E. moritzii* Jaeg.

*E. singapurensis* Dix.

*Isopterygium* Mitt.

*I. albescens* (Hook.) Jaeg.

*I. minutirameum* (C. Muell.) Jaeg.

*I. subalbescens* Broth.

*Taxiphyllum* Fleisch.

\**T. taxirameum* (Mitt.) Fleisch.

*Vesicularia* (C. Muell.) C. Muell.

*V. dubiana* (C. Muell.) Broth.

*V. kurzii* (Lac.) Broth.

*V. miquelii* (Lac.) Fleisch. (*Plagiothecium miquelli* (Lac.) Broth.)

*V. montagnei* (Bel.) Broth.

*V. reticulata* (Doz. et Molk.) Broth.

## DIPHYSCIACEAE

*Diphyscium* Mohr

*D. rupestre* Doz. et Molk.

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