

The Botany of the Islands of Mersing District, Johore, Peninsular Malaysia. 2. The Floras of Pulau Aur and Pulau Pemanggil, with Notes on the Smaller Islands

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Abstract

All the records for vascular plants found growing on Pulau Aur, its small neighbour Pulau Dayang, and Pulau Pemanggil, islands in the Mersing District of Johore, Peninsular Malaysia are collated and listed. Notes on the botany of some of the smaller islands in the vicinity are also presented. A total of more than 180 species are listed for Pulau Aur. It is notable as the only Malaysian locality for the rubiaceous tree *Zuccarinia macrophylla*. Other rare species recorded from the island include *Selaginella plana* (Selaginellaceae), *Operculina riedeliana* (Convolvulaceae), *Thrixspermum carinatifolium* (Orchidaceae), *Rauvolfia sumatrana* (Apocynaceae), *Canarium hirsutum* (Burseraceae) and *Hymenodictyon orixense* (Rubiaceae). A list of the 172 vascular plant species recorded as growing on Pulau Pemanggil is presented. Notable collections include *Lasianthus barbellatus* (Rubiaceae), *Didymocarpus tiumanicus* (Gesneriaceae), *Mallotus moritzianus* (Euphorbiaceae) and *Margaritaria indica* (Euphorbiaceae). Pulau Sibul is relatively well-known botanically. Details of some recent collections from Pulau Besar are given. Pulau Tengah is notable for records of *Argusia argentea* (Boraginaceae) and *Schizachyrium sanguineum* (Gramineae).

PULAU AUR

Introduction

Pulau Aur (104° 32' E 2° 27' N) is the most remote of the Johore islands (Fig. 1), lying some 62 km from the Johore coast, about 74 km due east of Mersing. Aur covers about 19 km², and the nearby Pulau Dayang about

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1.8 km² (Fig. 2). The first botanical collections were made on Pulau Aur more than a century ago when J. Feilding visited the island in 1892. In April-May 1927, M.R. Henderson visited Pulau Aur, Pulau Dayang and Pulau Tioman. Henderson (1930) reported that the human population numbered about 400, which was a considerable reduction compared to a mid-nineteenth century estimate of 1400. Much of the native vegetation was cleared for cultivation when Aur was heavily populated, but since then secondary forest has developed on many areas away from the coasts. Except for a short note on some common plants (Marchette 1964), there has been no publication on the flora of Pulau Aur since Henderson's paper. In this paper we collate all vascular plant records for Aur and Dayang that we have been able to verify from material in various herbaria (SING, SINU and UKMB) in Malaysia and Singapore. Recent collecting trips were made by a group from Universiti Kebangsaan Malaysia in January 1988, and by Boo, Chen and Choo in August 1996.

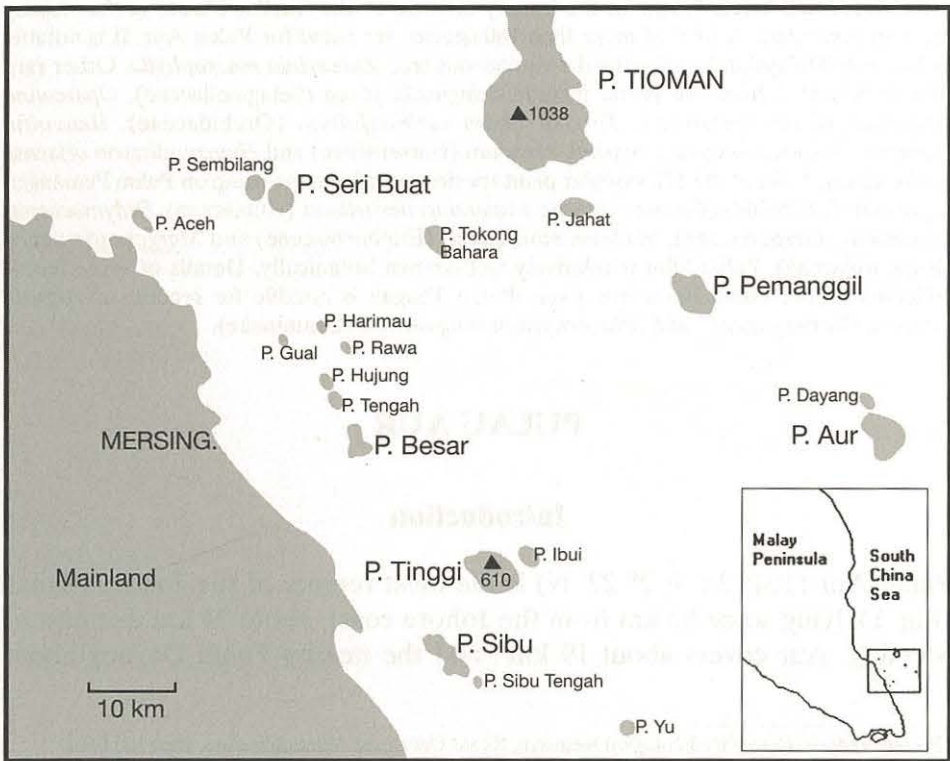


Figure 1. Map of the islands off the east coast of Johore. P. = Pulau, spot heights in metres.

Literature Records

There are a few records for plants from Aur for which specimens have not been located recently. *Balanophora abbreviata* Blume was reportedly collected by Feilding on Aur (Ridley 1924, as *Balanophora insularis*), but the specimen seems to have eluded all recent authors. All other collections of this parasitic herb from Peninsular Malaysia come from Perak (Kiew 1978). Feilding's Johore grass collections were written up for publication by Rendle (1894), probably based on specimens deposited in the Kew herbarium. Feilding is reported to have collected five species from Pulau Aur, probably *Centotheca lappacea* (L.) Desv., *Coix lacryma-jobi* L., *Dactyloctenium aegyptium* (L.) Willd., *Panicum sarmentosum* Roxb. and *Setaria* sp., but without reference to the specimens it is not possible to be absolutely certain.

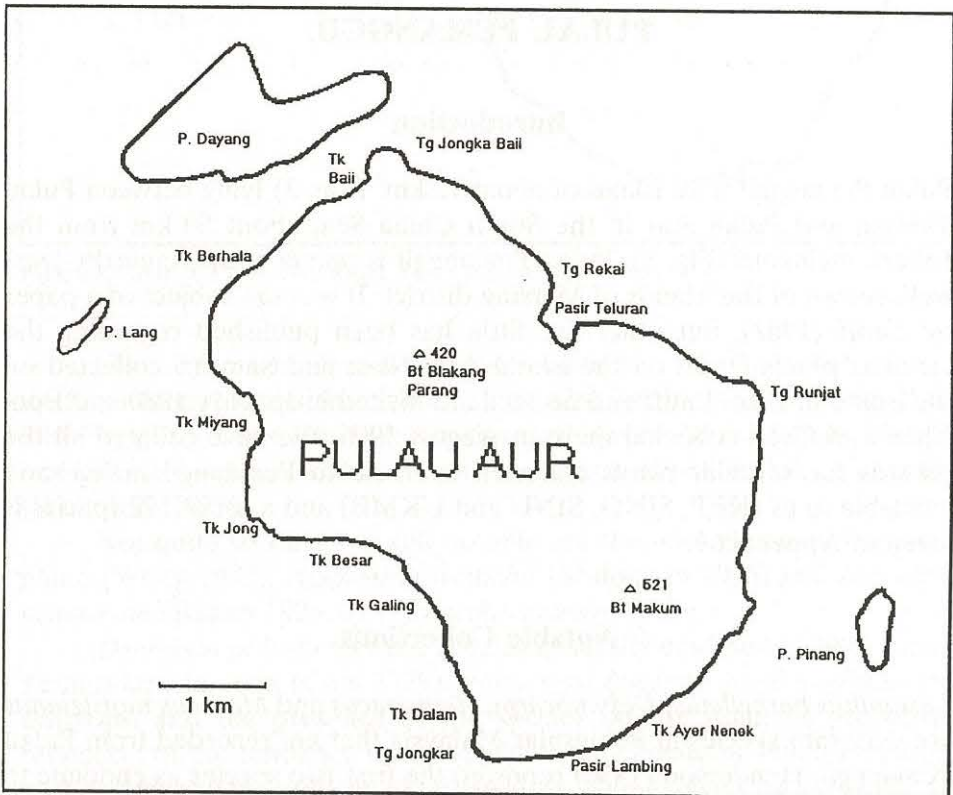


Figure 2. Map of Pulau Aur and its neighbouring islands. P. = Pulau, Tg = Tanjung, Tk = Telok, Bt = Bukit, spot heights in metres.

Collections of Interest

We have amassed records of over 180 species from Pulau Aur. These are listed in Appendix 1. Nomenclature follows Turner (1995) where possible. Probably the most important is that of *Zuccarinia macrophylla*, which is the only collection of this species (and genus) from Malaysia (Wong 1989). It is a small rubiaceous tree from lowland forest, and has not been recollected recently from Aur. Other very rare plants found on Aur include *Selaginella plana* (Wong 1983), *Thrixspermum carinatifolium* (Seidenfaden & Wood 1992), *Canarium hirsutum* (Turner *et al.* 1993) and *Operculina riedeliana* (this study). The apocynaceous shrub *Rauvolfia sumatrana* was previously reported from Perak alone in Peninsular Malaysia (Markgraf 1984). Our recent record from Pulau Aur extends the species to Johore. Our discovery of *Hymenodictyon orixense* on Aur is also notable biogeographically being the first record of this species from the east coast of the Malay Peninsula.

PULAU PEMANGGIL

Introduction

Pulau Pemanggil is an island of about 12 km² (Fig. 3) lying between Pulau Tioman and Pulau Aur in the South China Sea, about 50 km from the Johore mainland (Fig. 1). Pulau Pemanggil is one of the botanically least well-known of the islands of Mersing district. It was the subject of a paper by Latiff (1982), but otherwise little has been published regarding the vascular plants found on the island. Md. Noor and Samsuri collected on the island in 1966. Latiff and his students visited in January 1980 and Boo, Chen and Choo collected there in August 1996. We have collated all the records for vascular plants collected from Pulau Pemanggil in herbaria available to us (KEP, SING, SINU and UKMB) and a list of 172 species is given in Appendix 1.

Notable Collections

Lasianthus barbellatus, *Didymocarpus tiumanicus* and *Mallotus moritzianus* are very rare species in Peninsular Malaysia that are recorded from Pulau Pemanggil. Henderson (1930) reported the first two species as endemic to Pulau Tioman, but both have subsequently been found on Pulau Pemanggil. *Didymocarpus tiumanicus* has also been recorded from Pulau Tinggi (Turner

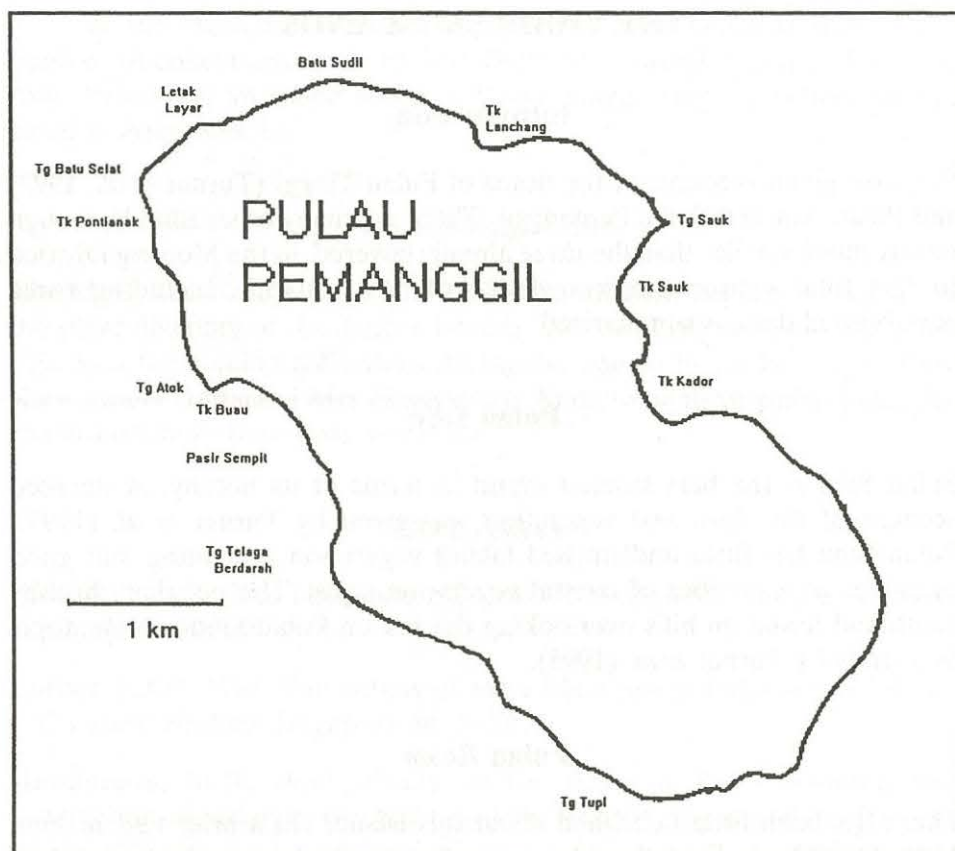


Figure 3. Map of Pulau Pemanggil. Tg = Tanjung, Tk = Telok.

et al. 1997). *Margaritaria indica* is confined to the Tioman island group in its Peninsular Malaysian range, having also been recorded from Pulau Sibu Tengah and two small islets to the northeast of Pulau Tioman. *Mallotus moritzianus* has been recorded from Trengganu as well as Pulau Pemanggil (Whitmore 1973).

Not quite so rare, but still notable are the occurrence of *Selaginella plana* (Wong 1982), *Aganosma wallichii* (Middleton 1996) and *Marsdenia acuminata* (Ridley 1923, as *Gymnema acuminatum*).

Deeringia polysperma is a species generally confined to limestone in Peninsular Malaysia (Chin 1979). Pemanggil does not have any limestone outcrops, and the presence of the species on the island is probably a reflection of the tendency to dry spells of the climate of Pulau Pemanggil and its neighbours, and the abundance of well-drained rocky substrates. Limestone, often being freely draining, tends to support species with ranges extending into drier climates.

THE SMALLER ISLANDS

Introduction

We have given accounts of the floras of Pulau Tinggi (Turner *et al.*, 1997) and Pulau Aur and Pulau Pemanggil. There are many other islands, though mostly much smaller than the three already covered, in the Mersing District. In this final section our knowledge of these islands, including some unpublished data, is summarized.

Pulau Sibü

Pulau Sibü is the best studied island in terms of its botany. A detailed account of the flora and vegetation was given by Turner *et al.* (1993). Pulau Sibü has little undisturbed inland vegetation remaining, but good examples of a number of coastal vegetation types. The peculiar shrubby heathland found on hills overlooking the sea on Pulau Sibü was the topic of a study by Turner *et al.* (1995).

Pulau Besar

There has been little published about this island. On a brief visit in June 1996, Dr C.L. Loh of the Malaysian Nature Society made some plant collections. A list of the species collected is given in Appendix 1. There are some seagrass meadows in the waters surrounding Pulau Besar. Japar (1994) reports the presence of *Cymodocea serrulata*, *Halodule uninervis*, *Halophila ovalis*, *Halophila spinulosa* and *Syringodium isoetifolium*.

Other Islands

E.J.H. Corner visited a number of the small islands in the Tioman group on various trips in the period 1932-1936. He reported his botanical findings nearly fifty years later (Corner 1985). Most of the islets he visited were in Pahang, but he did make collections on Pulau Setindan and Pulau Tengah. Notable collections from Pulau Tengah were the first record from the east coast of Peninsular Malaysia for the small coastal shrub *Argusia argentea* (*Messerschmidia argentea* in his paper) and the first record from the Peninsula for the grass *Schizachyrium sanguineum*. Japar (1994) lists the following seagrass species from Pulau Tengah: *Cymodocea serrulata*, *Halodule pinifolia*, *Halodule uninervis* and *Halophila ovalis*.

In the Herbarium of the Singapore Botanic Gardens there are a number of collections made by Mrs Betty Molesworth Allen in July 1955 from Pulau Yu, an island south of Pulau Tinggi. Her ten collections are listed in Appendix 1.

Acknowledgements

The Malaysian Nature Society are thanked for their support of studies of the plant diversity of the Johore Islands. We are particularly grateful to Dr C.L. Loh for making collections during his visit to Pulau Besar. Dr Ruth Kiew kindly contacted Mrs Molesworth Allen to confirm which Pulau Yu she visited more than forty years ago.

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Appendix 1. A List of the Plant Species Recorded from Islands in the Mersing District, Johore.

The species are listed with one representative collection for each. Where possible, for Pulau Aur, an indication of records from Pulau Aur and/or Pulau Dayang is given in brackets after each species. A 'c' in the margin next to an entry indicates a species only found in cultivation.

Pulau Aur

PTERIDOPHYTA

Aspleniaceae

Asplenium nidus L. - Boo, Chen & Choo
399 [P. Aur] (SINU)

Cyatheaceae

Cyathea squamulata (Blume) Copel. - Boo,
Chen & Choo 386 [P. Aur] (SINU)

Dennstaedtiaceae

Lindsaea cultrata (Willd.) Sw. - Boo, Chen
& Choo 384 [P. Aur] (SINU)

Dryopteridaceae

Tectaria singaporeana (Hook. & Grev.)
Copel. - Boo, Chen & Choo 420 [P. Aur]
(SINU)

Hymenophyllaceae

Cephalomanes javanicum (Blume) Bosch
- Boo, Chen & Choo 286 [P. Aur]
(SINU)

Marattiaceae

Angiopteris evecta (G. Forst.) Hoffm. -
Boo, Chen & Choo 383 [P. Aur] (SINU)

Oleandraceae

Nephrolepis acutifolia (Desv.) H. Christ.
- Boo, Chen & Choo 382 [P. Aur]
(SINU)
Nephrolepis auriculata (L.) Trimen - Boo,
Chen & Choo 217 [P. Dayang] (SINU)

Polypodiaceae

Pyrrosia angustata (Sw.) Ching - Boo,
Chen & Choo 402 [P. Aur] (SINU)
Pyrrosia lanceolata (L.) Farwell - Boo,
Chen & Choo 257 [P. Aur & P. Dayang]
(SINU)

Pteridaceae

Pteris ensiformis Burm.f. - Boo, Chen &
Choo 186 [P. Aur] (SINU)

Schizaeaceae

Lygodium circinnatum (Burm.f.) Sw. -
M.R. Henderson, S.F.N. 18247 (SING)

Selaginellaceae

Selaginella plana (Desv.) Hieron. - M.R.
Henderson, S.F.N. 18365 (BM)

Thelypteridaceae

Pronephrium repandum (Fée) Holttum -
Boo, Chen & Choo 388 [P. Aur] (SINU)

Vittariaceae

Vittaria ensiformis Sw. - Boo, Chen &
Choo 379 [P. Aur] (SINU)

SPERMATOPHYTA

Acanthaceae

c *Justicia gendarussa* Burm.f. - Boo, Chen
& Choo 195 [P. Aur] (SINU)

Alangiaceae

Alangium kurzii Craib - Boo, Chen & Choo 280 [P. Aur & P. Dayang] (SINU)

Amaranthaceae

Cyathula prostrata (L.) Blume - Boo, Chen & Choo 294 [P. Aur] (SINU)

Amaryllidaceae

Crinum asiaticum L. - Boo, Chen & Choo 144 [P. Aur] (SINU)

Proiphys amboinensis (L.) Herb. - Boo, Chen & Choo 326 [P. Dayang] (SINU)

Anacardiaceae

c *Anacardium occidentale* L. - Boo, Chen & Choo 327 [P. Aur] (SINU)

Annonaceae

c *Cananga odorata* (Lam.) Hook.f. & Thomson - A. Latiff & A. Zainudin 2708 [P. Aur] (UKMB)

Meiogyne virgata (Blume) Miq. - M.R. Henderson, S.F.N. 18360 (SING)

Friesodielsia affinis (Hook.f. & Thomson) D. Das - A. Latiff & A. Zainudin 2699 [[P. Aur] (UKMB)

Friesodielsia kingii (J. Sinclair) Steenis - M.R. Henderson, S.F.N. 18235 (SING)

Polyalthia cinnamomea Hook.f. & Thomson - M.R. Henderson, S.F.N. 18216 (SING)

Apocynaceae

Catharanthus roseus (L.) G. Don - Boo, Chen & Choo 248 [P. Aur & P. Dayang] (SINU)

Cerbera manghas L. - A. Latiff & A. Zainudin 2668 [P. Aur] (UKMB)

Cerbera odollam Gaertn. - Boo, Chen & Choo 314 [P. Dayang] (SINU)

Rauvolfia sumatrana Jack - Boo, Chen & Choo 159 [P. Aur] (SINU)

Araceae

Aglaonema simplex Blume - M.R. Henderson S.F.N. 18221 (SING)

Rhaphidophora korthalsii Schott - Boo, Chen & Choo 380 [P. Aur] (SINU)

c *Syngonium podophyllum* Schott - Boo, Chen & Choo 284 [P. Aur] (SINU)

Araliaceae

Arthrophyllum diversifolium Blume - M.R. Henderson, S.F.N. 18362 (SING)

Schefflera elliptica (Blume) Harms - A. Latiff & A. Zainudin 2701 [P. Aur] (UKMB)

Schefflera heterophylla (Wall. ex G. Don) Harms - M.R. Henderson, S.F.N. 18238 (SING)

Aristolochiaceae

Aristolochia tagala Cham. - M.R. Henderson, S.F.N. 18226 (SING)

Asclepiadaceae

Dischidia bengalensis Colebr. - Feilding s.n. (SING)

Hoya verticillata (Vahl) G. Don - Boo, Chen & Choo 289 [P. Aur] (SINU)

Boraginaceae

Ehretia timorensis Decne. - M.R. Henderson, S.F.N. 18203 (SING)

Bromeliaceae

c *Ananas comosus* (L.) Merr. - Boo, Chen & Choo 222 [P. Dayang] (SINU)

Burseraceae

Canarium hirsutum Willd. - M.R. Henderson, S.F.N. 18242 (SING)

Cactaceae

Opuntia monacantha Haw. - Boo, Chen & Choo 238 [P. Dayang] (SINU)

Cannaceae

- c *Canna edulis* Ker Gawl. - Boo, Chen & Choo 213 [P. Dayang] (SINU)

Capparaceae

- Cleome viscosa* L. - Boo, Chen & Choo 151 [P. Aur & P. Dayang] (SINU)

Cecropiaceae

- Poikilospermum suaveolens* (Blume) Merr. - A. Latiff & A. Zainudin 2705 [P. Aur] (UKMB)

Combretaceae

- Quisqualis indica* L. - M.R. Henderson, S.F.N. 18227 (SING)

Commelinaceae

- Commelina diffusa* Burm.f. - Boo, Chen & Choo 269 [P. Aur] (SINU)
Murdannia nudiflora (L.) Brenan - Boo, Chen & Choo 163 [P. Aur & P. Dayang] (SINU)

Compositae

- Elephantopus scaber* L. - Boo, Chen & Choo 150 [P. Aur] (SINU)
Vernonia cinerea (L.) Less. - Boo, Chen & Choo 179 [P. Aur] (SINU)
Vernonia patula (Dryand.) Merr. - Boo, Chen & Choo 257 [P. Aur] (SINU)
Wollastonia biflora (L.) DC. - Boo, Chen & Choo 220 [P. Dayang] (SINU)

Convolvulaceae

- Ipomoea pes-caprae* (L.) R.Br. - Boo, Chen & Choo 233 [P. Dayang] (SINU)
Ipomoea pes-tigridis L. - Boo, Chen & Choo 265 [P. Aur] (SINU)
Operculina riedeliana (Oliv.) Ooststr. - Boo, Chen & Choo 409 [P. Aur] (SINU)

Crassulaceae

- Kalanchoe pinnata* (Lam.) Pers. - Boo, Chen & Choo 196 [P. Aur & P. Dayang] (SINU)

Cycadaceae

- Cycas ?siamensis* Miq. - Boo, Chen & Choo 305 [P. Dayang] (SINU)

Cyperaceae

- Scleria lithosperma* (L.) Sw. - Boo, Chen & Choo 373 [P. Aur] (SINU)

Dilleniaceae

- Tetracera indica* (Christm. & Panz.) Merr. - Boo, Chen & Choo 168 [P. Aur] (SINU)

Dracaenaceae

- Dracaena elliptica* Thunb. - Boo, Chen & Choo 419 [P. Aur] (SINU)

Ebenaceae

- Diospyros cauliflora* Blume - M.R. Henderson, S.F.N. 18276 (SING)

Escalloniaceae

- Polyosma integrifolia* Blume - Boo, Chen & Choo 421 [P. Aur] (SINU)

Euphorbiaceae

- Claoxylon indicum* (Reinw. ex Blume) Hassk. - Boo, Chen & Choo 279 [P. Aur] (SINU)
Cnesmone javanica Blume - Boo, Chen & Choo 393 [P. Aur] (SINU)
c *Jatropha curcas* L. - Boo, Chen & Choo 272 [P. Aur] (SINU)
Macaranga gigantea (Rchb.f. & Zoll.) Müll.Arg. - Boo, Chen & Choo 353 [P. Aur] (SINU)
c *Manihot esculenta* Crantz - Boo, Chen & Choo 245 [P. Aur] (SINU)
Melanolepis multiglandulosa (Reinw. ex Blume) Rchb.f. & Zoll. - Boo, Chen & Choo 278 [P. Aur & P. Dayang] (SINU)
c *Pedilanthus tithymaloides* Poit. - Boo, Chen & Choo 293 [P. Aur] (SINU)
Phyllanthus pulcher Wall. ex Müll.Arg. - Boo, Chen & Choo 189 [P. Aur] (SINU)

Flacourtiaceae

- c *Flacourtia jangomas* (Lour.) Raeusch. - Boo, Chen & Choo 405 [P. Aur & P. Dayang] (SINU)
Flacourtia rukam Zoll. & Moritzi - A. Latiff & A. Zainudin 2665 [P. Aur] (UKMB)

Flagellariaceae

- Flagellaria indica* L. - Boo, Chen & Choo 172 [P. Aur] (SINU)

Gnetaceae

- c *Gnetum gnemon* L. - Boo, Chen & Choo 331 P. Dayang
Gnetum latifolium Blume var. *funiculare* (Blume) Markgr. - Boo, Chen & Choo 290 [P. Aur] (SINU)
Gnetum macrostachyum Hook.f. - M.R. Henderson, S.F.N. 18250 (SING)

Goodeniaceae

- Scaevola taccada* (Gaertn.) Roxb. - Boo, Chen & Choo 231 [P. Dayang] (SINU)

Gramineae

- Cyrtococcum oxyphyllum* (Steud.) Stapf - M.R. Henderson, S.F.N. 18225 (SING)

Guttiferae

- Calophyllum inophyllum* L. - Boo, Chen & Choo 219 [P. Dayang] (SINU)
Garcinia parvifolia Miq. - Boo, Chen & Choo 365 [P. Aur] (SINU)

Hypoxidaceae

- Molineria latifolia* (Dryand.) Herb. - Boo, Chen & Choo 374 [P. Aur] (SINU)

Labiatae

- Leucas zeylanica* (L.) R.Br. - Boo, Chen & Choo 339 [P. Dayang] (SINU)

Leeaceae

- Leea indica* (Burm.f.) Merr. - Boo, Chen

& Choo 162 [P. Aur & P. Dayang] (SINU)

Leguminosae

- Abrus precatorius* L. - Boo, Chen & Choo 239 [P. Dayang] (SINU)
Bauhinia integrifolia Roxb. - M.R. Henderson, S.F.N. 18233 (SING)
Canavalia cathartica Thouars - Boo, Chen & Choo 226 [P. Dayang] (SINU)
Crotalaria pallida Aiton - Boo, Chen & Choo 267 [P. Aur & P. Dayang] (SINU)
Crotalaria retusa L. - Boo, Chen & Choo 270 [P. Aur] (SINU)
Crudia lanceolata Ridl. - Boo, Chen & Choo 410 [P. Aur] (SINU)
Derris scandens (Roxb.) Benth. - Boo, Chen & Choo 341 [P. Dayang] (SINU)
Desmodium gangeticum (L.) DC. - Boo, Chen & Choo 360 [P. Aur] (SINU)
Desmodium heterocarpon (L.) DC. - Boo, Chen & Choo 381 [P. Aur] (SINU)
Desmodium velutinum (Willd.) DC. - Boo, Chen & Choo 281 [P. Aur] (SINU)
Flemingia strobilifera (L.) Roxb. - M.R. Henderson, S.F.N. 18240 (SING)
Mimosa pudica L. - Boo, Chen & Choo 164 [P. Aur] (SINU)
Mucuna biplicata Teijsm. & Binn. ex Kurz - Boo, Chen & Choo 425 [P. Aur] (SINU)
Pueraria phaseoloides (Roxb.) Benth. - Boo, Chen & Choo 274 [P. Aur] (SINU)
Senna alata (L.) Roxb. - Boo, Chen & Choo 145 [P. Aur] (SINU)
Senna occidentalis (L.) Link - Boo, Chen & Choo 173 [P. Aur] (SINU)

Loganiaceae

- Fagraea auriculata* Jack - Boo, Chen & Choo 325 [P. Aur] (SINU)

Malvaceae

- Hibiscus tiliaceus* L. - A. Latiff & A. Zainudin 2 [P. Aur] (UKMB)
Sida cordifolia L. - Boo, Chen & Choo 362 [P. Aur] (SINU)
Sida rhombifolia L. - Boo, Chen & Choo 263 [P. Aur] (SINU)
Urena lobata L. - Boo, Chen & Choo 304 [P. Dayang] (SINU)

Melastomataceae

- Clidemia hirta* (L.) D. Don - Boo, Chen & Choo 404 [P. Aur] (SINU)
Melastoma malabathricum L. - Boo, Chen & Choo 193 [P. Aur & P. Dayang] (SINU)
Memecylon caeruleum Jack - Boo, Chen & Choo 143 [P. Aur & P. Dayang] (SINU)

Meliaceae

- Chukrasia tabularis* A. Juss. - Boo, Chen & Choo 275 [P. Aur] (SINU)
Dysoxylum cauliflorum Hiern - M.R. Henderson, S.F.N. 18354 (SING)

Menispermaceae

- Fibraurea tinctoria* Lour. - Boo, Chen & Choo 424 [P. Aur] (SINU)
Pericampylus glaucus (Lam.) Merr. - Boo, Chen & Choo 198 [P. Aur & P. Dayang] (SINU)
Tinospora crispa (L.) Hook.f. & Thomson - Boo, Chen & Choo 275 [P. Dayang] (SINU)

Monimiaceae

- Kibara coriacea* (Blume) Tul. - Boo, Chen & Choo 422 [P. Aur] (SINU)
Matthaea sancta Blume - Boo, Chen & Choo 418 [P. Aur] (SINU)

Moraceae

- Ficus aurantiacea* Griff. - A. Latiff & A. Zainudin 2677 [P. Aur] (UKMB)

Ficus recurva Blume - Boo, Chen & Choo 375 [P. Aur] (SINU)

Ficus superba (Miq.) Miq. - Boo, Chen & Choo 272 [P. Aur] (SINU)

Myristicaceae

- Knema curtisii* (King) Warb. - M.R. Henderson, S.F.N. 18220 (SING)
Knema globularia (Lam.) Warb. - M.R. Henderson, S.F.N. 18244 (SING)

Myrsinaceae

- Ardisia elliptica* Thunb. - Boo, Chen & Choo 320 [P. Dayang] (SINU)
Ardisia lanceolata Roxb. - Boo, Chen & Choo 174 [P. Aur] (SINU)
Ardisia lurida Blume - Boo, Chen & Choo 200 [P. Aur] (SINU)
Ardisia solanacea Roxb. - M.R. Henderson, S.F.N. 18232 (SING)

Myrtaceae

- c *Psidium guajava* L. - Boo, Chen & Choo 170 [P. Aur & P. Dayang] (SINU)
Syzygium grande (Wight) Walp. - Boo, Chen & Choo 300 [P. Dayang] (SINU)
c *Syzygium jambos* (L.) Alston - Boo, Chen & Choo 201 [P. Aur] (SINU)
Syzygium pseudoformosum (King) Merr. & L.M. Perry - Boo, Chen & Choo 397 [P. Aur] (SINU)

Nyctaginaceae

- Boerhavia diffusa* L. - Boo, Chen & Choo 214 [P. Dayang] (SINU)

Orchidaceae

- Cirrhopetalum puguahaanense* (Ames) Garay et al. - Boo, Chen & Choo 429 [P. Aur] (SINU)
Thrixspermum caranatifolium (Ridl.) Schltr. - J. Fielding s.n., 1892 (SING)

Palmae

- Arenga westerhoutii* Griff. - Boo, Chen

& Choo 356 [P. Aur] (SINU)

Daemonorops melanochaetes Blume -
M.R. Henderson S.F.N. 18358 (SING)

- c *Metroxylon sagu* Rottb. - Boo, Chen &
Choo 205 [P. Aur] (SINU)

Pandanaceae

Freycinetia imbricata Blume - Boo, Chen
& Choo 408 [P. Aur] (SINU)

Passifloraceae

Passiflora foetida L. - Boo, Chen & Choo
251 [P. Aur & P. Dayang] (SINU)

Piperaceae

- c *Piper betel* L. - Boo, Chen & Choo 376
[P. Aur] (SINU)

Portulacaceae

Portulaca oleracea L. - Boo, Chen &
Choo 192 [P. Aur] (SINU)

Portulaca quadrifida L. - Boo, Chen &
Choo 309 [P. Dayang] (SINU)

Rosaceae

Eriobotrya bengalensis (Roxb.) Hook.f.
- M.R. Henderson, S.F.N. 18211
(SING)

Rubus moluccanus L. var. *angulosus*
Kalkman - A. Latiff & A. Zainudin 2692
[P. Aur] (UKMB)

Rubiaceae

Borreria laevicaulis (Miq.) Ridl. - Boo,
Chen & Choo 229 [P. Aur & P.
Dayang] (SINU)

Geophila repens (L.) I.M. Johnst. var.
asiatica (Cham. & Schldtl.) Fosberg -
Boo, Chen & Choo 359 [P. Aur]
(SINU)

Hedyotis capitellata Wall. ex G. Don -
M.R. Henderson, S.F.N. 18356 (SING)

Hedyotis dichotoma Koenig ex Roth -
Boo, Chen & Choo 371 [P. Aur]
(SINU)

Hedyotis tenelliflora Blume - Boo, Chen
& Choo 361 [P. Aur] (SINU)

Hedyotis vestita R. Br. ex G. Don - M.R.
Henderson, S.F.N. 18364 (SING)

Hymenodictyon orixense (Roxb.) Mabb.
- A. Latiff & A. Zainudin 2706 [P. Aur]
(UKMB)

Ixora javanica (Blume) DC. - M.R.
Henderson, S.F.N. 18218 (SING)

Ixora nigricans Wight & Arn. - M.R.
Henderson, S.F.N. 18212 (SING)

Ixora pendula Jack - Boo, Chen & Choo
202 [P. Aur] (SINU)

Ixora umbellata Koord. & Valetton - M.R.
Henderson, S.F.N. 18219 (SING)

Kailarsenia tentaculata (Hook.f.) Tirveng.
- ?Feilding 4082 (SING)

Morinda citrifolia L. - Boo, Chen & Choo
247 [P. Aur] (SINU)

Morinda elliptica (Hook.f.) Ridl. - M.R.
Henderson, S.F.N. 18363 (SING)

Morinda umbellata L. - M.R. Henderson,
S.F.N. 18210 (SING)

Ophiorrhiza discolor R.Br. - Boo, Chen
& Choo 407 [P. Aur] (SINU)

Paederia foetida L. - Boo, Chen & Choo
372 [P. Aur] (SINU)

Pavetta naucleiflora R.Br. ex G. Don -
M.R. Henderson, S.F.N. 18245 (SING)

Tarenna costata (Miq.) Merr. - M.R.
Henderson, S.F.N. 18375 (SING)

Timonius wallichianus (Korth.) Valetton
- Boo, Chen & Choo 391 [P. Aur]
(SINU)

Zuccarinia macrophylla Blume - M.R.
Henderson, S.F.N. 18213 (SING)

Rutaceae

- c *Citrus maxima* (L.) Merr. - Boo, Chen &
Choo 149 [P. Aur] (SINU)

Glycosmis chlorosperma Spreng. - Boo,
Chen & Choo 157 [P. Aur] (SINU)

Glycosmis mauritiana (Lam.) Tanaka -
Boo, Chen & Choo 313 [P. Dayang]
(SINU)

Glycosmis pentaphylla (Retz.) DC. - A. Latiff & A. Zainudin 2707 [P. Aur] (UKMB)

Murraya paniculata (L.) Jack - Boo, Chen & Choo 207 [P. Aur] (SINU)

- c *Triphasia trifolia* (Burm.f.) P. Wilson - Boo, Chen & Choo 167 [P. Aur] (SINU)

Sapindaceae

Allophylus cobbe (L.) Raeusch. - M.R. Henderson, S.F.N. 18369 (SING)

Cardiospermum halicacabum L. - Boo, Chen & Choo 161 [P. Aur] (SINU)

Lepisanthes rubiginosa (Roxb.) Leenh. - M.R. Henderson, S.F.N. 18205 (SING)

Lepisanthes tetraphylla (Vahl) Radlk. - M.R. Henderson, S.F.N. 18372 (SING)

Scrophulariaceae

Lindernia crustacea (L.) F. Muell. - Boo, Chen & Choo 175 [P. Aur & P. Dayang] (SINU)

Simaroubaceae

Brucea javanica (L.) Merr. - M.R. Henderson, S.F.N. 18207 (SING)

Eurycoma longifolia Jack - Boo, Chen & Choo 364 [P. Aur] (SINU)

Solanaceae

- c *Datura metel* L. - Boo, Chen & Choo 142 [P. Aur] (SINU)

Solanum erianthum D. Don - M.R. Henderson, S.F.N. 18201 (SING)

Sterculiaceae

Leptonychia caudata (Wall. ex G. Don) Burret - M.R. Henderson, S.F.N. 18355 (SING)

Taccaceae

Tacca palmata Blume - Boo, Chen & Choo 306 [P. Dayang] (SINU)

Tiliaceae

Triumfetta rhomboidea Jacq. - Boo, Chen & Choo 268 [P. Aur] (SINU)

Umbelliferae

Centella asiatica (L.) Urb. - Boo, Chen & Choo 335 [P. Dayang] (SINU)

Urticaceae

Pouzolzia zeylanica (L.) Benn. - Boo, Chen & Choo 190 [P. Aur] (SINU)

Verbenaceae

Callicarpa candicans (Burm.f.) Hochr. - M.R. Henderson, S.F.N. 18202 (SING)

Callicarpa longifolia Lam. - Boo, Chen & Choo 155 [P. Aur & P. Dayang] (SINU)

Clerodendrum laevifolium Blume - Boo, Chen & Choo 208 [P. Aur] (SINU)

Gmelina elliptica Sm. - M.R. Henderson, S.F.N. 18209 (SING)

Lantana camara L. - Boo, Chen & Choo 188 [P. Aur] (SINU)

Peronema canescens Jack - Boo, Chen & Choo 153 [P. Aur] (SINU)

Premna serratifolia L. - Boo, Chen & Choo 244 [P. Aur] (SINU)

Stachytarpheta indica (L.) Vahl - Boo, Chen & Choo 221 [P. Dayang] (SINU)

Vitex trifolia L. - Boo, Chen & Choo 227 [P. Dayang] (SINU)

Violaceae

Rinorea horneri (Korth.) Kuntze - M.R. Henderson, S.F.N. 18217 (SING)

Vitaceae

Cayratia japonica (Thunb.) Gagnep. - Boo, Chen & Choo 253 [P. Aur] (SINU)

Cayratia mollissima (Wall.) Gagnep. - M.R. Henderson, S.F.N. 18206 (SING)

Cayratia trifolia (L.) Domin - A. Latiff & A. Zainudin s.n. [P. Aur] (UKMB)

- Cissus repens* Lam. - Boo, Chen & Choo
181 [P. Aur & P. Dayang] (SINU)
Tetrastigma leucostaphylum (Dennst.)
Alston ex Mabb. - Boo, Chen & Choo
392 [P. Aur] (SINU)
Tetrastigma piscicarpum (Miq.) Planch. - A.
Latiff & A. Zainudin 2698 [P. Aur]
(UKMB)

Zingiberaceae

- c *Alpinia galanga* (L.) Sw. - Boo, Chen &
Choo 258 [P. Aur & P. Dayang]
(SINU)
Alpinia mutica Roxb. - M.R. Henderson,
S.F.N. 18228 (SING)
Amomum uliginosum J. König - Boo,
Chen & Choo 369 [P. Aur] (SINU)

Pulau Pemanggil

PTERIDOPHYTA

Aspleniaceae

- Asplenium affine* Sw. - A. Latiff & A.
Zainudin s.n. (UKMB)
Asplenium polyodon G. Forst. - A. Latiff
& A. Zainudin s.n. (UKMB)
Asplenium robustum Blume - A. Latiff &
A. Zainudin s.n. (UKMB)

Dryopteridaceae

- Pleocnemia irregularis* (C. Presl) Holttum
- Boo, Chen & Choo 95 (SINU)

Lycopodiaceae

- Huperzia phlegmaria* (L.) Rothm. - Md.
Noor & Samsuri 24 (SING)

Marratiaceae

- Angiopteris evecta* (G. Forst.) Hoffm. -
Boo, Chen & Choo 84 (SINU)

Oleandraceae

- Nephrolepis acutifolia* (Desv.) H. Christ
- Boo, Chen & Choo 127 (SINU)
Nephrolepis cordifolia (L.) C. Presl - R.
Jaman 480 (UKMB)
Nephrolepis hirsutula (G. Forst.) C. Presl
- Boo, Chen & Choo 55 (SINU)

Pteridaceae

- Acrostichum aureum* L. - Boo, Chen &
Choo 112 (SINU)

- Pteris ensiformis* Burm.f. - Boo, Chen &
Choo 126 (SINU)

- Pteris venulosa* Blume - R. Jaman 474
(UKMB)

Selaginellaceae

- Selaginella plana* (Desv.) Hieron. - Boo,
Chen & Choo 77 (SINU)
Selaginella willdenowii (Desv.) Baker - R.
Jaman 479 (UKMB)

Thelypteridaceae

- Amphineuron terminans* (Hook.) Holttum
- Boo, Chen & Choo 77 (SINU)

Vittariaceae

- Vittaria angustifolia* Blume - A. Latiff &
A. Zainudin s.n. (UKMB)

SPERMATOPHYTA

Amaranthaceae

- Deeringia polysperma* (Roxb.) Moq. - Md.
Noor & Samsuri 49 (SING)

Amaryllidaceae

- c *Hippeastrum reticulatum* (L'Hér.) Herb.
- Shafiee Daud s.n. (UKMB)

Ancistrocladaceae

- Ancistrocladus tectorius* (Lour.) Merr. -
Shafiee Daud s.n. (UKMB)

Annonaceae

- c *Cananga odorata* (Lam.) Hook.f. & Thomson - Boo, Chen & Choo 76 (SINU)

Apocynaceae

- Aganosma marginata* (Roxb.) G. Don - Boo, Chen & Choo 66 (SINU)
Aganosma wallichii G. Don - Md. Noor & Samsuri 54 (SING)
Catharanthus roseus (L.) G. Don - Saidah Mamat s.n. (UKMB)

Araceae

- Aglonema nitidum* (Jack) Kunth - Ramli Khamis s.n. (UKMB)
Aglonema simplex Blume - Ramli Khamis s.n. (UKMB)
Epipremnum giganteum (Roxb.) Schott - A. Latiff & A. Zainudin 156 (UKMB)
Schismatoglottis calyptrata (Roxb.) Zoll. & Moritz - Boo, Chen & Choo 94 (SINU)
Scindapsus beccarii Engl. - Boo, Chen & Choo 38 (SINU)

Araliaceae

- Schefflera elliptica* (Blume) Harms - Boo, Chen & Choo 16 (SINU)
Schefflera oxyphylla (Miq.) R. Vig. - Boo, Chen & Choo 57 (SINU)

Asclepiadaceae

- Hoya diversifolia* Blume - Md. Noor & Samsuri 32 (SING)
Marsdenia acuminata (Roxb.) I.M. Turner - Boo, Chen & Choo 120 (SINU)

Cecropiaceae

- Poikilospermum suaveolens* (Blume) Merr. - Md. Noor & Samsuri 38 (SING)

Celastraceae

- Loesneriella macrantha* (Korth.) A.C. Sm. - Md. Noor & Samsuri 19 (SING)

- Microtropis valida* Ridl. - Md. Noor & Samsuri 41 (SING)

Combretaceae

- Combretum tetralophum* C.B. Clarke - Boo, Chen & Choo 13 (SINU)
Quisqualis indica L. - Boo, Chen & Choo 46 (SINU)
Terminalia catappa L. - Boo, Chen & Choo 106 (SINU)

Commelinaceae

- Belosynapsis ciliata* (Blume) R.S. Rao - Boo, Chen & Choo 48 (SINU)
Commelina diffusa Burm.f. - Boo, Chen & Choo 70 (SINU)

Compositae

- Blumea balsamifera* (L.) DC. - Md. Noor & Samsuri 59 (SING)
Complaya trilobata (L.) Strother - Boo, Chen & Choo 122 (SINU)
Conyza bonariensis (L.) Cronquist - Md. Noor & Samsuri 55 (SING)
Vernonia cinerea (L.) Less. - Boo, Chen & Choo 40 (SINU)
Wollastonia biflora (L.) DC. - Boo, Chen & Choo 20 (SINU)

Convolvulaceae

- c *Ipomoea batatas* (L.) Lam. - Arishah Hashim s.n. (UKMB)
Ipomoea mauritiana Jacq. - Boo, Chen & Choo 45 (SINU)
Ipomoea pes-caprae (L.) R.Br. - Boo, Chen & Choo 123 (SINU)

Crassulaceae

- c *Kalanchoe laciniata* (L.) DC. - Boo, Chen & Choo 41 (SINU)
Kalanchoe pinnata (Lam.) Pers. - Boo, Chen & Choo 102 (SINU)

Cycadaceae

- Cycas rumphii* Miq. - Boo, Chen & Choo 141 (SINU)

Dilleniaceae

- Tetracera indica* (Christm. & Panz.) Merr.
- Boo, Chen & Choo 98 (SINU)

Dracaenaceae

- Dracaena maingayi* Hook.f. - Boo, Chen
& Choo 61 (SINU)

Euphorbiaceae

- Actephila excelsa* (Dalzell) Müll.Arg. var.
javanica (Miq.) Pax & K. Hoffm. - Md.
Noor & Samsuri MN14 (SING)
- Antidesma cuspidatum* Müll.Arg. - Boo,
Chen & Choo 85 (SINU)
- Antidesma japonicum* Siebold. & Zucc. -
Rahim Hamid s.n. (UKMB)
- Breynia reclinata* (Roxb.) Hook.f. - Boo,
Chen & Choo 26 (SINU)
- Breynia vitis-idaea* (Burm.f.) C.E.C.
Fisch. - Md. Noor & Samsuri 9 (SING)
- Mallotus moritzianus* Müll.Arg. - Md.
Noor & Samsuri 17 (SING)
- Mallotus paniculatus* (Lam.) Müll.Arg. -
Saidah Mamat s.n. (UKMB)
- Mallotus philippensis* (Lam.) Müll.Arg. -
Shafiee Daud s.n. (UKMB)
- c *Manihot esculenta* Crantz - Boo, Chen &
Choo 81 (SINU)
- Margaritaria indica* (Dalzell) Airy Shaw
- Boo, Chen & Choo 18 (SINU)
- Melanolepis multiglandulosa* (Reinw. ex
Blume) Rechb.f. & Zoll. - Boo, Chen
& Choo 72 (SINU)
- Phyllanthus pulcher* Wall. ex Müll.Arg. -
Boo, Chen & Choo 113 (SINU)
- Suregada multiflora* (Juss.) Baill. - A. Latiff
& A. Zainudin 148 (UKMB)

Flacourtiaceae

- c *Flacourtia jangomas* (Lour.) Raeusch. -
Boo, Chen & Choo 111 (SINU)

Flagellariaceae

- Flagellaria indica* L. - Boo, Chen & Choo
116 (SINU)

Gesneriaceae

- Didymocarpus tumanicus* (Ridl.) B.L.
Burt - Md. Noor & Samsuri MN72
(SING)

Gnetaceae

- c *Gnetum gnemon* L. - Boo, Chen & Choo
90 (SINU)
- Gnetum latifolium* Blume var. *funiculare*
(Blume) Markgr. - Md. Noor & Samsuri
MN68 (SING)

Goodeniaceae

- Scaevola taccada* (Gaertn.) Roxb. - Boo,
Chen & Choo 105 (SINU)

Gramineae

- Centotheca lappacea* (L.) Desv. - Boo,
Chen & Choo 69 (SINU)
- Oplismenus compositus* (L.) P. Beauv. -
Md. Noor & Samsuri 50 (SING)

Guttiferae

- Calophyllum inophyllum* L. - Boo, Chen
& Choo 107 (SINU)
- Garcinia hombroniana* Pierre - Md. Noor
& Samsuri 25 (SING)

Joinvilleaceae

- Joinvillea ascendens* Brongn. & Gris. ssp.
borneensis (Becc.) Newell - Arishah
Hashim 43 (UKMB)

Labiatae

- Leucas zeylanica* (L.) R.Br. - Boo, Chen
& Choo 34 (SINU)
- Ocimum tenuiflorum* L. - Boo, Chen &
Choo 23 (SINU)
- c *Solenostemon scutellarioides* (L.) Codd -
Shafiee Daud s.n. (UKMB)

Lauraceae

- Cassytha filiformis* L. - Boo, Chen &
Choo 25 (SINU)
- Litsea glutinosa* (Lour.) C.B. Rob. - Md.
Noor & Samsuri 6 (SING)

Lecythidaceae

Barringtonia asiatica (L.) Kurz - Boo, Chen & Choo 346

Leeaceae

Leea indica (Burm.f.) Merr. - Md. Noor & Samsuri 4 (SING)

Leguminosae

Abrus precatorius L. - Boo, Chen & Choo 117 (SINU)

Archidendron jiringa (Jack) I.C. Nielsen - Arishah Hashim 60 (UKMB)

Bauhinia integrifolia Roxb. - Boo, Chen & Choo 9 (SINU)

Canavalia cathartica Thouars - Md. Noor & Samsuri 60 (SING)

c *Cassia fistula* L. - Saidah Mamat 32 (UKMB)

Crotalaria pallida Aiton - Boo, Chen & Choo 29 (SINU)

Derris scandens (Roxb.) Benth. - Boo, Chen & Choo 118 (SINU)

Desmodium velutinum (Willd.) DC. - Boo, Chen & Choo 6 (SINU)

Flemingia strobilifera (L.) Roxb. - Boo, Chen & Choo 133 (SINU)

Mucuna biplicata Teijsm. & Binn. ex Kurz - Arishah Hashim 73 (UKMB)

c *Psophocarpus tetragonolobus* (L.) DC. - Rahim Hamid s.n. (UKMB)

Pueraria phaseoloides (Roxb.) Benth. - Boo, Chen & Choo 8 (SINU)

Vigna marina (Burm.) Merr. - Boo, Chen & Choo 10 (SINU)

Lythraceae

Pemphis acidula J.R. Forst & G. Forst. - Shafiee Daud s.n. (UKMB)

Malvaceae

c *Abelmoschus moschatus* Medik. - Zainal Mustafa s.n. (UKMB)

Abutilon indicum (L.) Sweet - Rahim Hamid s.n. (UKMB)

Hibiscus tiliaceus L. - Boo, Chen & Choo 100 (SINU)

Sida acuta Burm.f. - Boo, Chen & Choo 24 (SINU)

Thespesia populnea (L.) Sol. ex Corrêa - Md. Noor & Samsuri 53 (SING)

Urena lobata L. - Boo, Chen & Choo 11 (SINU)

Melastomataceae

Medinilla crassifolia (Reinw. ex Blume) Blume - Zainal Mustafa s.n. (UKMB)

Memecylon caeruleum Jack - Boo, Chen & Choo 47 (SINU)

Memecylon edule Roxb. - Boo, Chen & Choo 30 (SINU)

Pogonanthera pulverulenta (Jack) Blume - Boo, Chen & Choo 54 (SINU)

Menispermaceae

Pericampylus glaucus (Lam.) Merr. - Boo, Chen & Choo 32 (SINU)

Stephania capitata (Blume) Spreng. - Boo, Chen & Choo 80 (SINU)

Moraceae

Artocarpus lanceifolius Roxb. - A. Latiff & A. Zainudin 132 (UKMB)

Ficus callosa Willd. - Rahim Ahmad 65 (UKMB)

Ficus deltoidea Jack - Arishah Hashim 66 (UKMB)

Ficus drupacea Thunb. - Boo, Chen & Choo 63 (SINU)

Ficus hispida L.f. - Boo, Chen & Choo 52 (SINU)

Ficus schwarzii Koord. - A. Latiff & A. Zainudin 134 (UKMB)

Ficus superba (Miq.) Miq. - Boo, Chen & Choo 43 (SINU)

Ficus tinctoria G. Forst. ssp. *gibbosa* (Blume) Corner - Boo, Chen & Choo 7 (SINU)

Streblus ilicifolius (Vidal) Corner - Boo, Chen & Choo 92 (SINU)

Myristicaceae

Knema laurina (Blume) Warb. - Md. Noor & Samsuri 69 (SING)

Myrsinaceae

Ardisia elliptica Thunb. - Arishah Hashim 67 (UKMB)

Ardisia oxyphylla Wall. ex DC. - A. Latiff & A. Zainudin 1394 (UKMB)

Ardisia villosa Roxb. - Md. Noor & Samsuri 74 (SING)

Myrtaceae

c *Psidium guajava* L. - Boo, Chen & Choo 37 (SINU)

Nyctaginaceae

Boerhavia diffusa L. - Boo, Chen & Choo 2 (SINU)

Onagraceae

Ludwigia hyssopifolia (G. Don) Exell - Boo, Chen & Choo 87 (SINU)

Opiliaceae

Lepionurus sylvestris Blume - Md. Noor & Samsuri 67 (SING)

Orchidaceae

Cymbidium finlaysonianum Lindl. - Md. Noor & Samsuri 28 (SING)

Dendrobium crumenatum Sw. - Boo, Chen & Choo 62 (SINU)

Eulophia spectabilis (Dennst.) Suresh - Boo, Chen & Choo 109 (SINU)

Phaius callosus (Blume) Lindl. - Md. Noor & Samsuri 26 (SING)

Palmae

Daemonorops angustifolia (Griff.) Mart. - Arishah Hashim s.n. (UKMB)

Daemonorops sabut Becc. - R. Jaman 484 (UKMB)

Daemonorops sepal Becc. - Shafiee Daud 49 (UKMB)

Nypa fruticans Wurmb - Boo, Chen & Choo 114 (SINU)

Pandanaceae

Pandanus dubius Spreng. - Boo, Chen & Choo 138 (SINU)

Passifloraceae

Passiflora foetida L. - Boo, Chen & Choo 71 (SINU)

Rhamnaceae

Gouania leptostachya DC. - A. Latiff & A. Zainudin 133 (UKMB)

Rubiaceae

Canthium glabrum Blume - A. Latiff & A. Zainudin 135 (UKMB)

Chasalia chartacea Craib - Ramli Khamis 41 (UKMB)

Hedyotis biflora (L.) Lam. - Boo, Chen & Choo 139 (SINU)

Hedyotis dichotoma Koenig ex Roth - Boo, Chen & Choo 130 (SINU)

Lasianthus barbellatus Ridl. - Md Noor & Samsuri 48 (SING)

Morinda citrifolia L. - Boo, Chen & Choo 101 (SINU)

Prismatomeris tetranda (Roxb.) K. Schum. ssp. *malayana* (Ridl.) J.T. Johanss. - Md. Noor & Samsuri 23 (SING)

Tarenna mollis (Wall. ex Hook.f.) B.L. Rob. - Shafiee Daud 47 (UKMB)

Rutaceae

Atalantia monophylla (L.) DC. - Boo, Chen & Choo 136 (SINU)

Glycosmis mauritiana (Lam.) Tanaka - Boo, Chen & Choo 119 (SINU)

Murraya paniculata (L.) Jack - Boo, Chen & Choo 110 (SINU)

Sapindaceae

Allophylus cobbe (L.) Raeusch. - Boo, Chen & Choo 51 (SINU)

Sapotaceae

Pouteria linggensis (Burck) Baehni - Md. Noor & Samsuri 35 (SING)

Simaroubaceae

Brucea javanica (L.) Merr. - Md. Noor & Samsuri 12 (SING)

Solanaceae

Physalis ?pubescens L. - Boo, Chen & Choo 49 (SINU)

Solanum nigrum L. - Boo, Chen & Choo 79 (SINU)

Solanum torvum Sw. - Md. Noor & Samsuri 15 (SING)

Stemonaceae

Stemona curtisii Hook.f. - Boo, Chen & Choo 104 (SINU)

Sterculiaceae

Leptonychia caudata (Wall. ex G. Don) Burret - Md. Noor & Samsuri 42 (SING)

Turneraceae

Turnera ulmifolia L. - Boo, Chen & Choo 5 (SINU)

Ulmaceae

Trema tomentosa (Roxb.) Hara - Md. Noor & Samsuri 5 (SING)

Verbenaceae

Callicarpa longifolia Lam. - Boo, Chen & Choo 15 (SINU)

c *Clerodendrum calamitosum* L. - Boo, Chen & Choo 4 (SINU)

Clerodendrum inerme (L.) Gaertn. - Boo, Chen & Choo 27 (SINU)

c *Clerodendrum serratum* (L.) Moon - Arishah Hashim 90 (UKMB)

c *Clerodendrum thomsonae* Balf.f. - Md. Noor & Samsuri 11 (SING)

Lantana camara L. - Boo, Chen & Choo 22 (SINU)

Vitex trifolia L. - Boo, Chen & Choo 108 (SINU)

Violaceae

Rinorea bengalensis (Wall.) Kuntze - Md. Noor & Samsuri 43 (SING)

Vitaceae

Ampelocissus cinnamomea (Wall.) Planch. - Saidah Mamat s.n. (UKMB)

Cissus nodosa Blume - A. Latiff & A. Zainudin 138 (UKMB)

Cissus repens Lam. - A. Latiff & A. Zainudin s.n. (UKMB)

Tetrastigma leucostaphylum (Dennst.) Alston ex Mabb. - A. Latiff & A. Zainudin 122 (UKMB)

Tetrastigma pedunculare (Wall. ex Lawson) Planch. - A. Latiff & A. Zainudin s.n. (UKMB)

Pulau Besar**PTERIDOPHYTA****Adiantaceae**

Adiantum stenochlamys Baker - C.L. Loh PB-20 (SINU)

Blechnaceae

Blechnum finlaysonianum Wall. ex Hook. & Grev. - C.L. Loh PB-30 (SINU)

Stenochlaena palustris (Burm.) Bedd. - C.L. Loh PB-22 (SINU)

Oleandraceae

Nephrolepis auriculata (L.) Trimen - C.L. Loh PB-28 (SINU)

Schizaeaceae

- Lygodium circinnatum* (Burm.f.) Sw. - C.L.
Loh PB-4 (SINU)

SPERMATOPHYTA**Anacardiaceae**

- c *Anacardium occidentale* L. - C.L. Loh
PB-37 (SINU)

Apocynaceae

- c *Thevetia peruviana* (Pers.) K. Schum. -
C.L. Loh PB-16 (SINU)

Asclepiadaceae

- Hoya verticillata* (Vahl) G. Don - C.L. Loh
PB-10 (SINU)

Cycadaceae

- Cycas rumphii* Miq. - C.L. Loh PB-41
(SINU)

Erythroxylaceae

- Erythroxylum cuneatum* (Miq.) Kurz -
C.L. Loh PB-42 (SINU)

Euphorbiaceae

- Antidesma cuspidatum* Müll.Arg. - C.L.
Loh PB-3 (SINU)
Breynia reclinata (Roxb.) Hook.f. - C.L.
Loh PB-17 (SINU)
Macaranga heynei I.M. Johnst. - C.L. Loh
PB-40 (SINU)
Phyllanthus oxyphyllus Miq. - C.L. Loh
PB-23 (SINU)
Suregada multiflora (Juss.) Baill. - C.L.
Loh PB-33 (SINU)

Guttiferae

- Calophyllum inophyllum* L. - C.L. Loh PB-
36 (SINU)

Lecythidaceae

- Barringtonia macrostachya* (Jack) Kurz -
C.L. Loh PB-26 (SINU)

Leguminosae

- Dendrolobium umbellatum* (L.) Benth. -
C.L. Loh PB-9 (SINU)
c *Tamarindus indica* L. - C.L. Loh PB-19
(SINU)

Loranthaceae

- Dendrophthoe pentandra* (L.) Miq. - C.L.
Loh PB-13 (SINU)

Malvaceae

- Hibiscus tiliaceus* L. - C.L. Loh PB-14
(SINU)

Moraceae

- Ficus fistulosa* Reinw. ex Blume - C.L. Loh
PB-38 (SINU)

Moringaceae

- c *Moringa oleifera* Lam. - C.L. Loh PB-12
(SINU)

Myrsinaceae

- Ardisia elliptica* Thunb. - C.L. Loh PB-1
(SINU)

Myrtaceae

- Rhodomyrtus tomentosa* (Aiton) Hassk.
- C.L. Loh PB-45 (SINU)
Syzygium grande (Wight) Walp. - C.L. Loh
PB-11 (SINU)

Oleaceae

- Olea brachiata* (Lour.) Merr. - C.L. Loh
PB-31 (SINU)

Opiliaceae

- Cansjera rheedei* J.F. Gmel. - C.L. Loh PB-
8 (SINU)

Polygalaceae

- Polygala paniculata* L. - C.L. Loh PB-46
(SINU)

Rubiaceae

Guettarda speciosa L. - C.L. Loh PB-18 (SINU)

Timonius compressicaulis (Miq.) Boerl. - C.L. Loh PB-2 (SINU)

Santalaceae

Dendrotrophe varians (Blume) Miq. - C.L. Loh PB-48 (SINU)

Sapindaceae

Guioa pleuropteris (Blume) Radlk. - C.L. Loh PB-7 (SINU)

Simaroubaceae

Brucea javanica (L.) Merr. - C.L. Loh PB-25 (SINU)

Theaceae

Gordonia multinervis King - C.L. Loh PB-5 (SINU)

Umbelliferae

Centella asiatica (L.) Urban - C.L. Loh PB-34 (SINU)

Verbenaceae

Vitex pinnata L. - C.L. Loh PB-29 (SINU)

Pulau Yu**PTERIDOPHYTA****Oleandraceae**

Nephrolepis acutifolia (Desv.) H. Christ. - B. Molesworth Allen 2575 (SING)

SPERMATOPHYTA**Celastraceae**

Salacia chinensis L. - B. Molesworth Allen s.n., 30 July 1955 (SING)

Guttiferae

Calophyllum soulattri Burm.f. - B. Molesworth Allen s.n., 30 July 1955 (SING)

Myrsinaceae

Ardisia elliptica Thunb. - B. Molesworth Allen s.n., 30 July 1955 (SING)

Rubiaceae

Gynochthodes sublancoolata Miq. - B. Molesworth Allen s.n., 30 July 1955 (SING)

Ixora javanica (Blume) DC. - B. Molesworth Allen s.n., 30 July 1955 (SING)

Timonius compressicaulis (Miq.) Boerl. - B. Molesworth Allen s.n., 30 July 1955 (SING)

Sapindaceae

Guioa pleuropteris (Blume) Radlk. - B. Molesworth Allen s.n., 30 July 1955 (SING)

Mischocarpus sundaicus Blume - B. Molesworth Allen s.n., 30 July 1955 (SING)

Verbenaceae

Premna serratifolia L. - B. Molesworth Allen s.n., 30 July 1955 (SING)