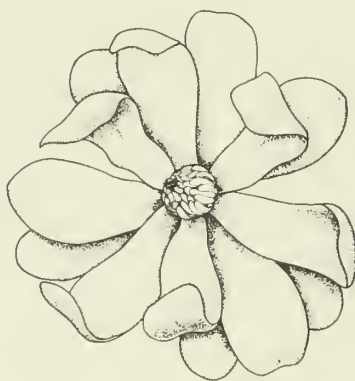


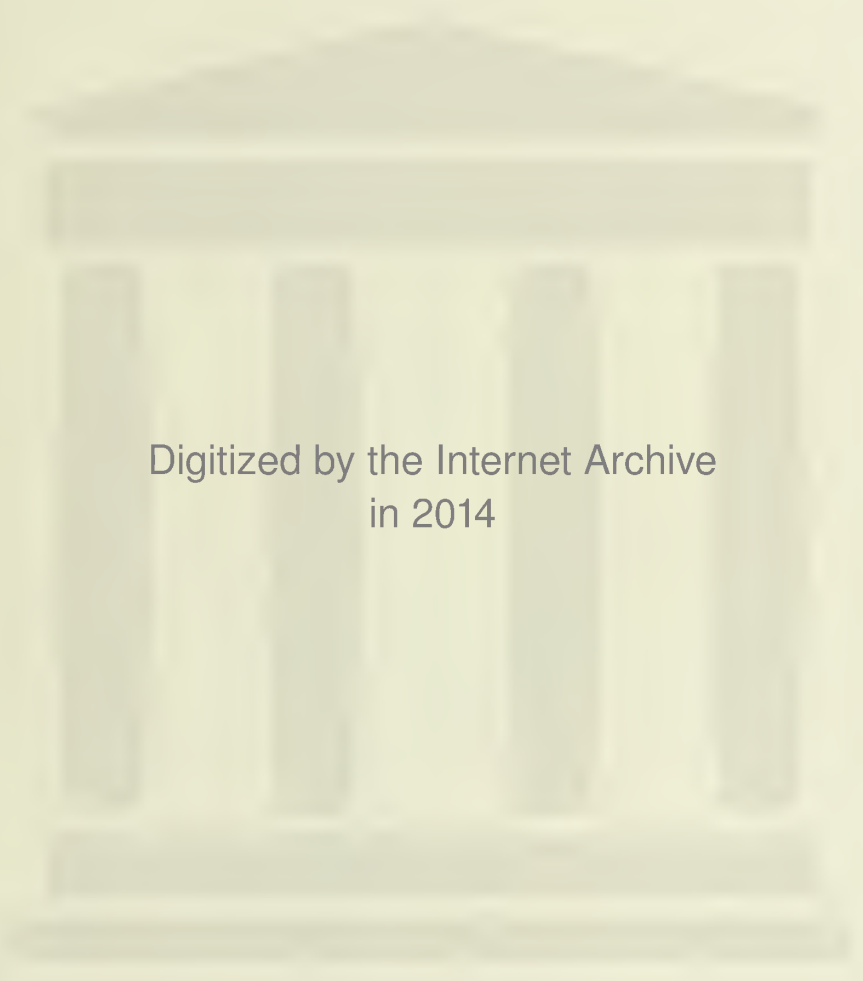


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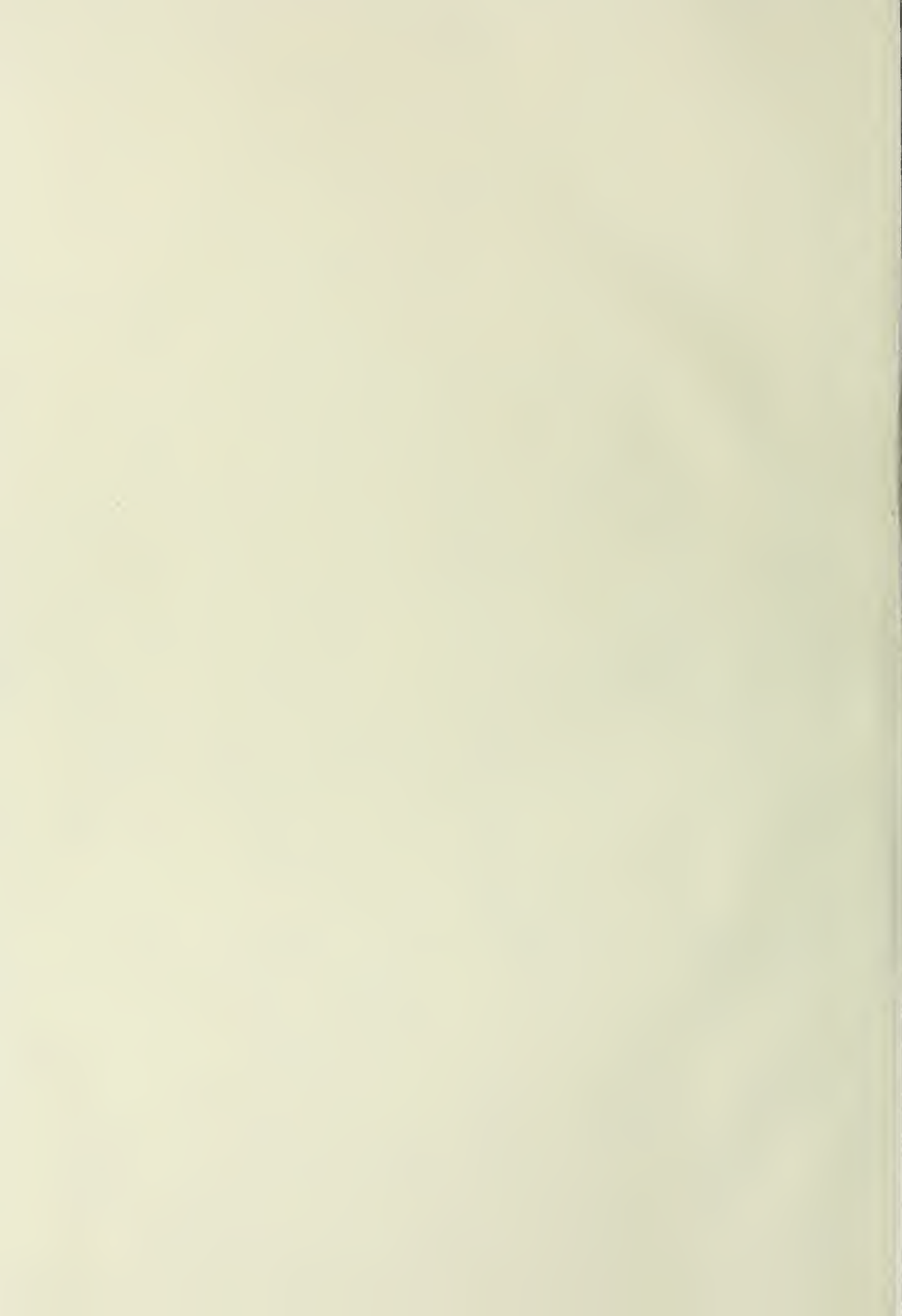
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Instructions for contributing authors are found behind the Contents Table.

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Two copies of the manuscript should be submitted, typed or type printed, and if typed, then the top copy must be one of the two. Type or print on one side only, with double-line spacing and a margin of at least 4 cm. Do not type all the letters of any word in capitals. Underline only in pencil: with a straight line for italic type face and wavy line line for bold type face. Authors should see the layout other papers recently published in this journal to ensure that papers submitted conform as closely as possible to the accepted pattern. Numerical data should only be included if it is essential to the argument and this can be presented either in the form of tables or diagrams.

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Abbreviations: Standard chemical symbols may be used in text (e.g. IAA, IBA, ATP), but the full term should be given on the first mention. Dates should be cited as: 3 May 1976. Units of measurement should be spelled out except when preceded by a numeral where they should be abbreviated in standard form: g, mg, ml, etc. and not followed by stops.

Literature citations: Citations in the text should take the form: King and Chan (1964). If several papers by the same author in the same year are cited, they should be lettered in sequence (1964a), (1964b), etc. When papers are by three or more authors they should be cited as e.g., Geesink et al. (1981). All references must be placed in alphabetic order according to the surname of the (first) author and in the following form:

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A Catalogue of the Vascular Plants of Malaya

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Abstract

An annotated check-list of the native and naturalized vascular plant species of Peninsular Malaysia and the Republic of Singapore is presented. The catalogue includes important synonyms, a brief description and notes on the habitat and distribution of each species.

The Catalogue

FMP = *Flora of Malay Peninsula* by H.N. Ridley (vols. 1-5)

FMI = *Flora of Malesiana, series I* (vols. 4-12)

FMI = *Flora of Malesiana, series II* (vols. 1-2)

TFM = *Tree Flora of Malaya* (vols. 1-4)

139. MORACEAE

- 139.1.1 **Antiaris toxicaria** Lesch., **FMP3** 351, **TFM3** 120; tree to 45 m tall; lowland forest; widespread.
- 139.2.1 **Artocarpus anisophyllus** Miq., **J07** 138, **TFM3** 123; *Artocarpus superbus* Becc., **FMP3** 356; pinnate-leaved tree to 45 m tall; lowland forest; NS, MI, Jh, Sp.
- 139.2.2 **Artocarpus dadah** Miq., **J08** 91, **TFM3** 124; *Artocarpus lakoocha* auct. non Roxb., **FMP3** 355; tree to 24 m tall; lowland and hill forest; throughout.
- 139.2.3 **Artocarpus elasticus** Reinw. ex Blume, **J07** 346, **TFM3** 124; *Artocarpus kunstleri* King, **FMP3** 353; tree to 45 m tall; lowland forests and open country; common throughout.
- 139.2.4 **Artocarpus fulvicortex** F.M. Jarrett, **J08** 116, **TFM3** 126; tree to 30 m tall; lowland forest; Pk, Ph, NS, MI, Sp.
- 139.2.5 **Artocarpus glaucus** Blume, **J08** 118, **TFM3** 126; *Artocarpus denisonianus* King, **FMP3** 355; tree to 40 m tall; lowland and hill forest; Kd, Pk, Ph, Sl, Jh.
- 139.2.6 **Artocarpus gomezianus** Wall. ex Trécul, **J08** 88, **TFM3** 126; tree to 42 m tall; lowland forest; Kd, Kl, Ph, NS, Jh, Sp.
- 139.2.7 **Artocarpus hispidus** F.M. Jarrett, **J07** 331, **TFM3** 127; tree to 20 m tall; lowland forest; Pn, Tg, Pk, Ph, Sl, MI, Sp; endemic.
- 139.2.8 **Artocarpus integer** (Thunb.) Merr. var. *silvestris* Corner, **J07** 331, **TFM3** 129; *Artocarpus polyphema* Pers., **FMP3** 354; tree to 24 m tall, the wild chempedak (var. *integer* being the cultivated tree); lowland to montane forest; widespread.
- 139.2.9 **Artocarpus kemando** Miq., **FMP5** 335, **J07** 354, **TFM3** 129; tree to 40 m tall; swampy lowland forest; Tg, Ph, Sl, Jh, Sp.
- 139.2.10 **Artocarpus lanceifolius** Roxb., **FMP3** 354, **J07** 140, **TFM3** 129; tree to 36 m tall; lowland and hill forest; widespread.
- 139.2.11 **Artocarpus lowii** King, **FMP3** 353, **J07** 339, **TFM3** 131; tree to 25 m tall; lowland forest; widespread but uncommon.
- 139.2.12 **Artocarpus maingayi** King, **FMP3** 354, **J07** 357, **TFM3** 131; tree to 30 m tall; lowland forest, especially swamps; throughout.
- 139.2.13 **Artocarpus nitidus** Trécul ssp. *griffithii* (King) F.M. Jarrett, **J08** 128, **TFM3** 131; *Artocarpus gomezianus* auct. non Trécul, **FMP3** 355; tree to 30 m tall; lowland forest; throughout.

- 139.2.14 **Artocarpus rigidus** Blume, **FMP3** 352, **J07** 150, **TFM3** 131; tree to 45 m tall; lowland and hill forest; throughout.
- 139.2.15 **Artocarpus scortechinii** King, **FMP3** 355, **J07** 344, **TFM3** 134; tree to 45 m tall; lowland forest; widespread.
- 139.2.16 **Artocarpus teysmannii** Miq., **J07** 341, **TFM3** 134; *Artocarpus peduncularis* Kurz, **FMP3** 353; tree to 45 m tall; lowland swamps; Pk, Sl.
- 139.2.17 **Artocarpus** sp. A, **TFM3** 134; tree to 24 m tall; hill forest; once from Gg Tampin, NS; ?endemic.
- 139.2.18 **Artocarpus** sp. B, **TFM3** 134; tree to 15 m tall; lowland forest; once from Gg Ledang, Jh; ?endemic.
- 139.3.1 **Bleekrodea malayana** (Corner) C.C. Berg, **B19** 359; *Streblus malayanus* Corner, **C30** 11; small tree; limestone; Gua Musang, Kl; endemic.
- 139.4.1 **Ficus albipila** (Miq.) King, **TFM3** 139; tall tree; lowlands; scattered.
- 139.4.2 **Ficus allutacea** Blume, **FMP3** 344, **TFM3** 139; epiphytic shrub to 12 m tall; lowland forest; Pk.
- 139.4.3 **Ficus annulata** Blume, **FMP3** 333, **TFM3** 140; strangler to 24 m tall; lowland forest; widespread, commoner in the north.
- 139.4.4 **Ficus apiocarpa** Miq., **FMP3** 338, **TFM3** 140; climber; swampy lowland forest; Tg, Sl, Jh, Sp.
- 139.4.5 **Ficus araneosa** King, **FMP3** 345, **TFM3** 140; slender climber; lowland forest; Pk, Sl.
- 139.4.6a **Ficus aurantiacea** Griff. var. **angustifolia** Corner, **TFM3** 140; climber; montane forest; Main Range.
- 139.4.6b **Ficus aurantiacea** Griff. var. **aurantiacea**, **FMP3** 338, **TFM3** 140; *Ficus callicarpa* Miq., **FMP3** 338; climber; lowland forest; widespread.
- 139.4.7a **Ficus aurata** Miq. var. **aurata**, **TFM3** 140; *Ficus chrysocarpa* Reinw. ex Blume, **FMP3** 348; shrub or small tree to 9 m tall; secondary forest; Kl, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 139.4.7b **Ficus aurata** Miq. var. **longipilosa** Corner, **TFM3** 141; shrub; lowland and hill forest; Pk to Sp.
- 139.4.7c **Ficus aurata** Miq. var. **pedunculata** Corner, **TFM3** 141; shrub; lowland and hill forest; Tg, Pk, Sl; endemic variety.
- 139.4.8 **Ficus beccarii** King, **TFM3** 141; shrubby earth-fig to 5 m tall; near rocky streams; Tg to Jh.

- 139.4.9 **Ficus benjamina** L., **FMP3** 336, **TFM3** 141; large strangler; lowland forests and on roadside trees; throughout.
- 139.4.10a **Ficus binnendykii** Miq. var. **binnendykii**, **FMP3** 336, **TFM3** 141; strangler; lowland forest: Pk, Ph, NS, Jh.
- 139.4.10b **Ficus binnendykii** Miq. var. **coriacea** Corner, **TFM3** 141; strangler; lowland forest; Pk, Ml, Sp.
- 139.4.11 **Ficus bracteata** Wall. ex Miq., **FMP3** 331, **TFM3** 141; strangler; lowland forest; Pk, Sl, Jh, Sp.
- 139.4.12 **Ficus calcicola** Corner, **TFM3** 142, **C14** 183; shrub or small tree to 8 m tall, sometime epiphytic; limestone hills; Pk, Ph, Sl.
- 139.4.13 **Ficus callophylla** Blume, **TFM3** 142; scrambler; Kl, Tg.
- 139.4.14 **Ficus callosa** Willd., **TFM3** 142; tree to 33 m tall; lowland forest, often near the sea; Malaya north of Kuala Lumpur.
- 139.4.15 **Ficus caulocarpa** Miq., **TFM3** 142; strangler with many aerial roots; widespread.
- 139.4.16 **Ficus chartacea** Wall. ex King, **FMP3** 350, **TFM3** 142; shrub or small tree to 9 m tall; lowland to montane forest; throughout.
- 139.4.17 **Ficus concinna** Miq., **TFM3** 144; strangler; Ph.
- 139.4.18 **Ficus consociata** Blume var. **murtoni** King, **FMP3** 331, **TFM3** 144; strangler; lowland forests and seashores; throughout.
- 139.4.19 **Ficus crassiramea** Miq., **TFM3** 144; *Ficus procera* Blume, **FMP3** 332; big strangler; lowland forest; throughout.
- 139.4.20 **Ficus cucurbitina** King, **TFM3** 144; scrambler; usually near the sea; Ph, Jh.
- 139.4.21 **Ficus curtipes** Corner, **TFM3** 144; *Ficus obtusifolia* (non H.B.K.) Roxb., **FMP3** 335; scrambler; lowland forest; P. Langkawi, Pn.
- 139.4.22 **Ficus delosyae** Corner, **TFM3** 144; tall strangler; lowland forest; Tg, Pk, Sl, NS, Jh, Sp.
- 139.4.23a **Ficus deltoidea** Jack var. **angustifolia** (Miq.) Corner, **C29** 300, **TFM3** 145; *Ficus diversifolia* Blume var. **ovoidea** Jack, **FMP3** 346; shrub to 4 m tall, sometimes epiphytic; lowland and montane forest, common on seashores; widespread.
- 139.4.23b **Ficus deltoidea** Jack var. **bilobata** Corner, **C29** 303, **TFM3** 145; shrub to 5 m tall; ridge forest at 1000–2000 m, also on limestone; Kd to Ph and Sl, endemic variety.

- 139.4.23c **Ficus deltoidea** Jack var. **deltoidea**, **C29** 300, **TFM3** 145; *Ficus diversifolia* Blume var. *deltoidea* (Jack) Ridl., **FMP3** 346; shrub to 2 m tall, often epiphytic; seashores to mountain tops.
- 139.4.23d **Ficus deltoidea** Jack var. **intermedia** Corner, **C29** 304, **TFM3** 145; *Ficus burkillii* Ridl., **FMP3** 330; *Ficus diversifolia* Blume var. *lutescens* auct. non (Desf.) King, **FMP3** 346; shrub to 4 m tall, sometimes epiphytic; montane forest.
- 139.4.23e **Ficus deltoidea** Jack var. **kunstleri** (King) Corner, **C29** 306, **TFM3** 145; *Ficus diversifolia* Blume var. *kunstleri* King, **FMP3** 346; epiphytic shrub; lowland and montane forest; Jh northward.
- 139.4.23f **Ficus deltoidea** Jack var. **motleyana** (Miq.) Corner, **C29** 308, **TFM3** 145; *Ficus motleyana* Miq., **FMP5** 334; shrub to 6 m tall; montane forest; Gg Tapis, Ph.
- 139.4.23g **Ficus deltoidea** Jack var. **trengganuensis** Corner, **C29** 310, **TFM3** 145; shrub to 2 m tall, sometimes epiphytic; coastal areas, lowland and montane forest; endemic variety.
- 139.4.24 **Ficus depressa** Blume, **TFM3** 145; *Ficus pruniformis* Blume, **FMP3** 333; strangler; lowland forest; Kl, Pk, Ph, Sl.
- 139.4.25 **Ficus disticha** Blume, **TFM3** 145; strangler; montane forest; Tg, Ph.
- 139.4.26 **Ficus drupacea** Thunb., **TFM3** 145; *Ficus pilosa* Reinw. ex Blume, **FMP3** 331; big tree; lowland and hill forest; north of Malaya.
- 139.4.27 **Ficus dubia** Wall. ex King, **FMP3** 333, **TFM3** 146; large scrambler or strangler; lowland forest; scattered throughout.
- 139.4.28 **Ficus elastica** Roxb. ex Hornem., **FMP3** 334, **TFM3** 146; large strangler; lowlands; north Malaya, cultivated elsewhere.
- 139.4.29 **Ficus excavata** King, **FMP3** 344, **TFM3** 146; epiphytic climber; lowlands; Tg and Pk to Sp.
- 139.4.30a **Ficus fistulosa** Reinw. ex Blume var. **fistulosa**, **FMP3** 343, **TFM3** 146; weedy tree to 15 m tall; secondary forest, waysides; common throughout.
- 139.4.30b **Ficus fistulosa** Reinw. ex Blume var. **tengerensis** (Miq.) Kuntze, **TFM3** 147; shrub or small tree; hills and mountains; widespread.
- 139.4.31a **Ficus forstenii** Miq. var. **pacifica** (Elmer) Corner, **TFM3** 147; strangler; lowland forest; once from Larut, Pk.
- 139.4.31b **Ficus forstenii** Miq. var. **villosa** Corner, **TFM3** 147; strangler; lowland forest; once from Kroh, Ph.

- 139.4.32 **Ficus fulva** Reinw. ex Blume, **FMP3** 347, **TFM3** 147; *Ficus chrysocarpa* Reinw. ex Blume, **FMP3** 348; *Ficus patens* Ridl., **FMP3** 348; small tree to 18 m tall; secondary forests in the lowlands and hills; MI northwards.
- 139.4.33 **Ficus glandulifera** (Wall. ex Miq.) King, **FMP3** 347, **TFM3** 147; tree to 15 m tall; lowland forest; Ps, Kd, Pn, Tg, Pk, Ph, Sl, MI, Jh, Sp.
- 139.4.34 **Ficus globosa** Blume, **FMP3** 333, **TFM3** 147; scrambler; sea coasts to mountains; Pk and Ph southward.
- 139.4.35a **Ficus grossularioides** Burm.f. var. **grossularioides**, **TFM3** 148; *Ficus alba* Reinw. ex Blume, **FMP3** 347; shrub to 9 m tall; secondary forest; common throughout.
- 139.4.35b **Ficus grossularioides** Burm.f. var. **robusta** Corner, **TFM3** 148; shrub to 9 m tall; montane forest at 1200 m; Fraser's Hill, Ph.
- 139.4.36 **Ficus heterophylla** L.f., **FMP3** 339, **TFM3** 148; shrub to 6 m tall; sandy river banks; NS northward.
- 139.4.37 **Ficus heteropleura** Blume, **TFM3** 148; *Ficus urophylla* Wall., **FMP3** 330; epiphytic shrub; lowland to montane forest; common throughout.
- 139.4.38a **Ficus hirta** Vahl var. **hirta**, **TFM3** 148; small tree to 9 m tall; montane forest; Main Range.
- 139.4.38b **Ficus hirta** Vahl var. **malayana** Corner, **TFM3** 148; small tree to 9 m tall; montane forest; Pk, Ph.
- 139.4.39 **Ficus hispida** L.f., **FMP3** 342, **TFM3** 149; tree to 12 m tall; lowland forest; SI northward.
- 139.4.40 **Ficus ischnopoda** Miq., **TFM3** 149; *Ficus pyriformis* Hook. & Arn., **FMP3** 349 incl. var. *angustifolia* Ridl.; narrow-leaved shrub to 5 m tall; in and near rocky streams; Central and North Malaya.
- 139.4.41 **Ficus kerkhovenii** Valetton, **TFM3** 149; large strangler to 36 m tall; lowland and montane forest; Kd, Ph, Jh, Sp.
- 139.4.42 **Ficus kurzii** King, **TFM3** 149; scrambler; rocks near the sea; P. Tioman and islands nearby.
- 139.4.43a **Ficus laevis** Blume var. **laevis**, **FMP3** 344, **TFM3** 149; small tree or epiphyte; lowlands; Ps, Pn, Pk, Ph, Sl, Sp.
- 139.4.43b **Ficus laevis** Blume var. **tomentosa** King, **FMP3** 344, **TFM3** 149; small tree or epiphyte; lowlands; Tg.
- 139.4.44 **Ficus lamponga** Miq., **TFM3** 150; *Ficus lepidosa* Wall. ex Kurz, **FMP3** 350; tree to 24 m tall; lowland and hill forest; Pk, Sl, Jh, Sp.

- 139.4.45 **Ficus lepicarpa** Blume, **FMP3** 343, **TFM3** 150; tree to 12 m tall; lowland to montane forest, usually near streams; widespread.
- 139.4.46 **Ficus litseifolia** Corner, **FMP3** 150; small tree to 8 m tall; montane forest; Gg Padang, Tg.
- 139.4.47 **Ficus lowii** King, **FMP3** 332, **TFM3** 150; climber; hill forest; Pk, Ph.
- 139.4.48 **Ficus maclellandii** King, **TFM3** 150; strangler; lowland forest: Kd.
- 139.4.49 **Ficus madurensis** Miq., **TFM3** 151; *Ficus copiosa* Steud., **FMP3** 340; small tree; lowland and montane forest; Ml northwards.
- 139.4.50 **Ficus magnoliifolia** Blume, **TFM3** 151; tree to 33 m tall; lowland forest; Sl northward.
- 139.4.51 **Ficus microcarpa** L.f., **TFM3** 151; *Ficus retusa* auct. non L., **FMP3** 335; large tree with aerial roots; swampy places; common and widespread.
- 139.4.52 **Ficus microsyce** Ridl., **FMP3** 335, **TFM3** 151; strangler to 36 m tall; lowlands; Tg, Ph, Sl, Jh, Sp.
- 139.4.53 **Ficus mollissima** Ridl., **FMP3** 348, **TFM3** 151; tree to 12 m tall; lowland forest; Kd, NS; endemic.
- 139.4.54 **Ficus montana** Burm.f., **TFM3** 151; *Ficus quercifolia* Roxb., **FMP3** 339 incl. var. *inconstans* (Miq.) Ridl.; shrub or creeper; by rocky streams; Ml northward.
- 139.4.55 **Ficus obpyramidata** King, **FMP3** 343, **TFM3** 152; tree to 9 m tall; by rivers of lowlands and hills to 1200 m; throughout.
- 139.4.56a **Ficus obscura** Blume var. *borneensis* (Miq.) Corner, **TFM3** 152; *Ficus obscura* Blume, **FMP3** 339; *Ficus pisifera* Wall. ex Miq., **FMP3** 329; epiphyte or strangler; lowland forest; common throughout.
- 139.4.56b **Ficus obscura** Blume var. *kunstleri* (King) Corner, **TFM3** 152; *Ficus celebica* Blume var. *kunstleri* King, **FMP3** 330; epiphyte or strangler; montane forest; Kd, Pk.
- 139.4.57 **Ficus oligodon** Miq., **TFM3** 152; *Ficus pomifera* Wall. ex King, **FMP3** 350; tree to 12 m tall; by lowland and mountain streams; north of Malaya.
- 139.4.58 **Ficus oreophila** Ridl., **FMP3** 348, **TFM3** 152; shrub or small tree to 9 m tall; montane forest above 1000 m; K1, Pk, Ph; endemic.
- 139.4.59 **Ficus parietalis** Blume, **FMP3** 330, **TFM3** 153; climber or epiphytic shrub; lowland forest; widespread.
- 139.4.60 **Ficus pellucidopunctata** Griff., **TFM3** 153; *Ficus indica* L. var. *gelderi* (Miq.) King, **FMP3** 334; strangling fig to 24 m tall; lowland forest; widespread.

- 139.4.61 **Ficus pendens** Corner, **TFM3** 153; slender climber; montane forest; Pn, Pk, Ph, Jh.
- 139.4.62 **Ficus pisocarpa** Blume, **FMP3** 336, **TFM3** 153; *Ficus microstoma* Wall. ex King, **FMP3** 334; tree to 18 m tall; lowland forest near streams; Pk, Ph, Sl, NS, Ml, Sp.
- 139.4.63 **Ficus punctata** Thunb., **FMP3** 338, **TFM3** 154; large creeper; on tree trunks in open country; widespread.
- 139.4.64 **Ficus pubigera** (Wall. ex Miq.) Miq., **TFM3** 153; climber; once from Ph.
- 139.4.65a **Ficus pubilimba** Merr. var. **pubilimba**, **TFM3** 153; big strangler; lowlands; Pk and Pn northwards.
- 139.4.65b **Ficus pubilimba** Merr. var. **ovata** Corner, **TFM3** 154; strangler; once from Pn; endemic variety.
- 139.4.66 **Ficus racemosa** L., **TFM3** 154; tree to 24 m tall; by rivers; north of Malaya.
- 139.4.67a **Ficus recurva** Blume var. **bridelioides** Corner, **FMP3** 345 in part, **TFM3** 154; epiphyte and rock climber; lowlands; Tg, Pk, Jh.
- 139.4.67b **Ficus recurva** Blume var. **elegantior** Corner, **FMP3** 345 in part, **TFM3** 154; epiphyte and rock climber; lowlands; Tg.
- 139.4.67c **Ficus recurva** Blume var. **ribesioides** King, **FMP3** 345 in part, **TFM3** 154; climber; Pk, Sp.
- 139.4.68 **Ficus religiosa** L., **FMP3** 337; large tree; around towns, widely planted; naturalized from India.
- 139.4.69 **Ficus retusa** L., **TFM3** 154; *Ficus truncata* Miq., **FMP3** 335; tree to 18 m tall; by rivers; Pk, Ph, Sl, Jh.
- 139.4.70 **Ficus ribes** Reinw. ex Blume, **TFM3** 155; *Ficus staphylosyce* Ridl., **FMP5** 334; small tree to 8 m tall; montane forest; NS northward.
- 139.4.71 **Ficus ruginervia** Corner, **TFM3** 155; climber; lowland forest; Jh, Sp.
- 139.4.72 **Ficus rumphii** Blume, **FMP3** 337, **TFM3** 155; large tree or strangler; rocky coasts; Ps, P. langkawi.
- 139.4.73 **Ficus sagittata** Vahl, **TFM3** 155; *Ficus ramentacea* Roxb., **FMP3** 345; climber; lowland forest; common throughout.
- 139.4.74 **Ficus schwarzii** Koord., **TFM3** 155; *Ficus miquelii* Hook.f., **FMP3** 341; small tree to 12 m tall; lowland and hill forest to 1200 m; widespread.
- 139.4.75 **Ficus scortechinii** King, **FMP3** 343, **TFM3** 156; *Ficus fasciculata* Hook.f., **FMP3** 343; tree to 5 m tall; lowland forest; common throughout.

- 139.4.76 **Ficus semicordata** Buch.-Ham. ex Sm., **TFM3** 156; *Ficus cunia* Buch.-Ham. ex Roxb., **FMP3** 341; earth-fig tree to 12 m tall; secondary forest, often near streams; north of Malaya.
- 139.4.77a **Ficus sinuata** Thunb. ssp. **cuspidata** (Reinw.) Corner, **TFM3** 156; *Ficus cuspidata* Rienw., **FMP3** 340; small tree; montane forest; widespread.
- 139.4.77b **Ficus sinuata** Thunb. ssp. **sinuata** var. **oblonga** Corner, **TFM3** 156; small tree; lowlands; Pk, Jh.
- 139.4.77c **Ficus sinuata** Thunb. ssp. **sinuata** var. **sinuata**, **TFM3** 156; *Ficus rostrata* Lam., **FMP3** 340; epiphyte or small tree; lowlands to mountains; common throughout.
- 139.4.78 **Ficus spathulifolia** Corner, **TFM3** 156; epiphytic tree; peat swamp forest; Sl.
- 139.4.79 **Ficus stricta** Miq., **TFM3** 157; tree to 18 m tall; lowland forest; Kd, Pk.
- 139.4.80a **Ficus stupenda** Miq. var. **minor** Corner, **TFM3** 157; strangler; lowland forest; Jh, Sp.
- 139.4.80b **Ficus stupenda** Miq. var. **stupenda**, **TFM3** 157; strangler to 30 m tall; hill and montane forest; Tg, Pk, Sl.
- 139.4.81 **Ficus subcordata** Blume var. **malayana** Corner, **TFM3** 157; strangler; hill forest at 600 m; once from near Fraser's Hill, Ph.
- 139.4.82a **Ficus subgelderi** Corner var. **rigida** (Miq.) Corner, **TFM3** 157; *Ficus rigida* Miq., **FMP3** 332; strangler; lowland forest; Pn, Pk, Ph, Jh, Sp.
- 139.4.82b **Ficus subgelderi** Corner var. **subgelderi**, **TFM3** 157; strangler; lowland forest; Pk to Sp.
- 139.4.83 **Ficus subtecta** Corner, **TFM3** 158; big strangler; lower montane forest at 1200 m; Cameron Highlands, Ph.
- 139.4.84 **Ficus subulata** Blume, **FMP3** 329; large climber; lowland and hill forest; widespread.
- 139.4.85a **Ficus sumatrana** Miq. var. **circumscissa** Corner, **TFM3** 158 '*circumissa*'; *Ficus acamptophylla* Miq., **FMP3** 335; tree; Tg, Pk, Jh; endemic variety.
- 139.4.85b **Ficus sumatrana** Miq. var. **microsyce** Corner, **TFM3** 158; tree; Pk, Jh.
- 139.4.85c **Ficus sumatrana** Miq. var. **sumatrana**, **TFM3** 158; tree, epiphytic when young; lowland forest; Pk, Sl, NS.
- 139.4.86a **Ficus sundaica** Blume var. **beccariana** (King) Corner, **TFM3** 158; big tree; lowland forest; Kd, Tg, Ph.

- 139.4.86b **Ficus sundaica** Blume var. **sundaica**, **TFM3** 158; *Ficus indica* auct. non L., **FMP3** 334; big stilt-rooted tree; lowland forest; common throughout.
- 139.4.87 **Ficus superba** (Miq.) Miq., **TFM3** 159; big tree; rocky coasts; common throughout.
- 139.4.88 **Ficus tinctoria** G. Forst. ssp. **gibbosa** (Blume) Corner, **TFM3** 159; *Ficus gibbosa* Blume, **FMP3** 329; big tree with many aerial roots; lowlands, often on rocky coasts; NS northwards.
- 139.4.89 **Ficus trichocarpa** Blume, **TFM3** 159; *Ficus obtusa* Hassk., **FMP3** 344; climber; lowland and hill forest; Pn, Pk, Ph, Sl.
- 139.4.90 **Ficus tricolor** Miq., **TFM3** 159; tree to 18 m tall; montane forest; Tg, Ph.
- 139.4.91 **Ficus tristaniifolia** Corner, **TFM3** 159; strangler; peat swamp forest; Ml, Jh.
- 139.4.92 **Ficus uncinata** (King) Becc. var. **strigosa** Corner, **TFM3** 160; earth-fig tree to 10 m tall; lowland forest margins; widespread.
- 139.4.93 **Ficus uncinulata** Corner, **TFM3** 160; climber; lowland forest; Jh.
- 139.4.94 **Ficus uniglandulosa** Wall. ex Miq., **TFM3** 160; small tree, sometimes epiphytic; lowlands; widespread.
- 139.4.95 **Ficus urnigera** Miq., **TFM3** 160; climber; swampy lowland forest; Ph, Jh.
- 139.4.96 **Ficus variegata** Blume, **FMP5** 335, **TFM3** 160; *Ficus polysyce* Ridl., **FMP3** 342; tree to 33 m tall; open country, forest margins; common throughout.
- 139.4.97 **Ficus vasculosa** Wall. ex Miq., **FMP3** 337, **TFM3** 160; tree to 45 m tall; lowland forest; common throughout.
- 139.4.98a **Ficus villosa** Blume var. **tonsa** Corner, **FMP3** 345, **TFM3** 161; climber; montane forest at 1300 m; Cameron Highlands. Ph: ?endemic variety.
- 139.4.98b **Ficus villosa** Blume var. **villosa**, **FMP3** 345, **TFM3** 161; climber; lowlands; common throughout.
- 139.4.99a **Ficus virens** Aiton var. **glabella** (Blume) Corner, **TFM3** 161; *Ficus infectoria* Miq., **FMP3** 337; *Ficus glabella* Blume, **FMP3** 336; big tree; lowland and hill forest; common throughout.
- 139.4.99b **Ficus virens** Aiton var. **sublanceolata** (Miq.) Corner, **TFM3** 161; tree; rare.
- 139.4.99c **Ficus virens** Aiton var. **virens**, **TFM3** 161; *Ficus infectoria* Miq., **FMP3** 337; tree; lowlands; P, Langkawi.
- 139.4.100 **Ficus viridicarpa** Corner, **TFM3** 161; tall tree; lowland forests and open country; Kl, Tg, Ph, NS.

- 139.4.101 **Ficus vrieseana** Miq. var. **chamaecarpa** (Ridl.) Corner, **TFM3** 162; small earth-fig tree; forest margins; widespread.
- 139.4.102 **Ficus xylophylla** Wall. ex Miq., **FMP3** 332, **TFM3** 162; strangler; lowland and hill forest; frequent throughout.
- 139.5.1 **Hullettia dumosa** King, **FMP3** 358, **J09** 337, **TFM3** 162; shrub or small tree to 10 m tall; forest from lowlands to mountains at 2000 m; widespread.
- 139.6.1 **Maclura amboinensis** Blume; **C28** 239, **TFM3** 120; spiny climber; hill and montane forest; Pk, Ph.
- 139.6.2 **Maclura cochinchinensis** (Lour.) Corner; **C28** 239; *Cudrania javensis* Trécul, **FMP3** 356; small tree; mostly on limestone; Ps, Kd, Pn.
- 139.7.1 **Parartocarpus bracteatus** (King) Becc., **J09** 324, **TFM3** 164; *Artocarpus bracteatus* King, **FMP3** 352; tree to 45 m tall; lowland forest to 600 m; Pn, Sl, NS, Ml, Jh, Sp.
- 139.7.2a **Parartocarpus venenosus** (Zoll & Moritzi) Becc. ssp. **forbesii** (King) F.M. Jarrett, **J09** 333, **TFM3** 165; *Artocarpus forbesii* King, **FMP3** 352; tree to 40 m tall; lowland and hill forest to 900 m; Pn, Kl, Tg, Pk, Sl, Jh, Sp.
- 139.7.2b **Parartocarpus venenosus** (Zoll & Moritzi) Becc. ssp. **venenosus**, **J09** 328, **TFM3** 165; tree to 40 m tall; lowland forest; north of Malaya.
- 139.8.1a **Prainea limpato** (Miq.) Beumée ex K. Heyne var. **limpato**, **J06** 34, **TFM3** 167; tree to 18 m tall; lowland forest; once from Baling, Kd.
- 139.8.1b **Prainea limpato** (Miq.) Beumée ex K. Heyne var. **longipedunculata** Kochummen, **TFM3** 167; tree to 18 m tall; hill forest; once from Ulu Gombak, Sl; endemic variety.
- 139.8.2 **Prainea scandens** King, **FMP3** 358, **J06** 32; liana; lowland forest; Pk, Sl; endemic.
- 139.9.1 **Streblus asper** Lour., **FMP3** 323, **TFM3** 168; tree to 10 m tall; open country including limestone; north of Malaya.
- 139.9.2 **Streblus elongatus** (Miq.) Corner, **TFM3** 168; *Sloetia sideroxylon* Teijsm. & Binn. ex Kurz, **FMP3** 324; tree to 33 m tall; lowland forest; Kd, Pn, Tg, Pk, Ph, Sl, NS, Jh, Sp.
- 139.9.3 **Streblus glaber** (Merr.) Corner, **TFM3** 168; *Pseudostreblus caudatus* Ridl., **FMP3** 324; shrub; montane forest above 1000 m; Pk, Ph, Sl.
- 139.9.4 **Streblus ilicifolius** (Vidal) Corner, **TFM3** 167; *Taxotrophis ilicifolia* Vidal, **FMP3** 322; small spiny tree; limestone and other rocky habitats; widespread.

- 139.9.5 **Streblus laxiflorus** (Hutch.) Corner, **TFM3** 167; small spiny tree; lowlands including limestone; north of Malaya.
- 139.9.6 **Streblus macrophyllus** Blume, **TFM3** 168; small tree; lowlands.
- 139.9.7 **Streblus perakensis** Corner, **TFM3** 168; small tree; lowlands; Pk, Ph; endemic.
- 139.9.8 **Streblus taxoides** (K. Heyne) Kurz, **TFM3** 167; *Phyllochlamys wallichii* King, **FMP3** 322; *Phyllochlamys spinosa* (Roxb.) Bureau, **FMP3** 323; spiny tree to 10 m tall; lowlands, hills, also on limestone; widespread.
- 139.10.1 **Trophis scandens** (Lour.) Hook. & Arn., **B19** 354; *Malaisia torulosa* Blanco, **FMP3** 325, **TFM3** 120; *Malaisia scandens* (Lour.) Planch., **C14** 185; spiny scandent shrub; lowlands; Tg.

140. MYRICACEAE

- 140.1.1 **Myrica esculenta** Buch.-Ham., **FM14** 278, **TFM2** 295; *Myrica farquhariana* Wall., **FMP3** 370; *Myrica auriculata* (Gamble) Ridl., **FMP3** 371; tree to 15 m tall; lowland forest, particularly secondary forest on poor soil, mountain tops; widespread, commoner in the south.

141. MYRISTICACEAE

- 141.1.1 **Endocomia canarioides** (King) W.J. de Wilde, **D13** 190; *Horsfieldia canarioides* (King) Warb., **FMP3** 55; *Horsfieldia racemosa* (King) Warb., **FMP3** 60; *Embelia ridleyi* King & Gamble, **FMP2** 234; *Horsfieldia macrocoma* (Miq.) Warb. var. *canarioides* (King) J. Sinclair, **TFM1** 327; tree to 35 m tall; lowland forest; Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 141.2.1 **Gymnancranthera bancana** (Miq.) J. Sinclair, **TFM1** 319, **S10** 463; *Gymnancranthera murtonii* (Hook.f.) Warb., **FMP3** 61; tree to 40 m tall; lowland forest; ?Ph, Jh, Sp.
- 141.2.2a **Gymnancranthera farquhariana** (Hook.f. & Thomson) Warb. var. *eugeniifolia* (A. DC.) R.T.A. Schouten, **S10** 480; *Gymnancranthera farquhariana* auct. non (Hook.f. & Thomson) Warb., **FMP3** 62 in part; *Gymnancranthera eugeniifolia* (A. DC.) J. Sinclair var. *eugeniifolia*, **TFM1** 320 in part; tree to 30 m tall; lowland and hill forest to 1300 m; P. Langkawi, Kd, Pn, Tg, Pk, Ph, Sl, Ml, Jh, Sp.

- 141.2.2b **Gymnacranthera farquhariana** (Hook.f. & Thomson) Warb. var. **farquhariana**, **S10** 477; *Gymnacranthera farquhariana* (Hook.f. & Thomson) Warb. var. *griffithii* (Hook.f.) Warb., **FMP3** 62; *Gymnacranthera eugeniifolia* (A. DC.) J. Sinclair var. *eugeniifolia*, **TFM1** 320 in part; tree to 30 m tall; lowland and hill forest to 900 m; Pn, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 141.2.2c **Gymnacranthera farquhariana** (Hook.f. & Thomson) Warb. var. **zippeliana** (Miq.) R. T.A. Schouten, **S10** 482; *Gymnacranthera farquhariana* auct. non (Hook.f. & Thomson) Warb., **FMP3** 62 in part; *Gymnacranthera eugeniifolia* (A. DC.) J. Sinclair var. *griffithii* (Hook.f.) J. Sinclair, **TFM1** 320; ?*Gymnacranthera contracta* auct. non Warb., **TFM1** 320; tree to 30 m tall; swampy lowland forest; Pk, Ph, Sl, Jh, Sp.
- 141.2.3 **Gymnacranthera forbesii** (King) Warb., **FMP3** 61, **TFM1** 320, **S10** 472; tree to 35 m tall; lowland forest; Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 141.3.1 **Horsfieldia brachiata** (King) Warb., **FMP3** 59, **TFM1** 325, **D16** 3; tree to 35 m tall; lowland forest; Kd, Kl, Tg, Pk, Ph, Ml, Jh.
- 141.3.2 **Horsfieldia crassifolia** (Hook.f. & Thomson) Warb., **FMP3** 59, **TFM1** 324, **D15** 219; tree to 25 m tall; swampy lowland forest; Tg, Pk, Sl, NS, Ml, Jh, Sp.
- 141.3.3 **Horsfieldia elongata** W.J. de Wilde, **D17** 465; tree about 8 m tall; lower montain forest at 1300 m; only known form type, Fraser's Hill, Ph; endemic.
- 141.3.4 **Horsfieldia flocculosa** (King) Warb., **FMP3** 55, **TFM1** 324, **D15** 207; tree to 28 m tall; lowland forest; Ph, NS, Sl, Jh; endemic.
- 141.3.5 **Horsfieldia fulva** (King) Warb., **FMP3** 56, **TFM1** 326, **D15** 199; tree to 20 m tall; lowland forest; Pk, Sl, NS, Ml.
- 141.3.6 **Horsfieldia grandis** (Hook.f.) Warb., **FMP3** 56, **TFM1** 323, **D15** 203; tree to 25 m tall; lowland forest; Ph, Jh, Sp.
- 141.3.7 **Horsfieldia irya** (Gaertn.) Warb., **TFM1** 326, **D14** 55; *Horsfieldia lemanniana* (A. DC.) Warb., **FMP3** 59; tree to 25 m tall; damp lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 141.3.8 **Horsfieldia macilenta** W.J. de Wilde, **D16** 13; tree to 17 m tall; lowland forest; Kl, Jh.
- 141.3.9 **Horsfieldia majuscula** (King) Warb., **FMP3** 57, **D16** 48; tree to 25 m tall; lowland and hill forest; Kl, Pk, Ph.
- 141.3.10 **Horsfieldia parviflora** (Roxb.) J. Sinclair, **D14** 69; *Horsfieldia globularia* (Blume) Warb., **FMP3** 54; tree to 20 m tall; lowland forest; established in the Botanic Gardens' Jungle, Sp; introduced from the Moluccas.

- 141.3.11 **Horsfieldia penangiana** J. Sinclair, **TFM1** 324, **D16** 52; tree to 25 m tall; hill and lower montane forest; Pn, Ph, Sl.
- 141.3.12a **Horsfieldia polyspherula** (Hook.f.) J. Sinclair var. **polyspherula**, **TFM1** 325, **D16** 19; tree to 35 m tall; lowland forest; Kd, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 141.3.12b **Horsfieldia polyspherula** (Hook.f.) J. Sinclair var. **sumatrana** (Miq.) W.J. de Wilde, **D16** 20; *Horsfieldia subglobosa* auct. non (Miq.) Warb., **FMP1** 60; *Horsfieldia brachiata* (King) Warb. var. *sumatrana* (Miq.) J. Sinclair ex Whitmore, *nom. inval.*, **TFM1** 325; tree to 35 m tall; lowland forest; Kd, Kl, Pk, Ph, Sl, NS, Jh, Sp.
- 141.3.13 **Horsfieldia pulcherrima** W.J. de Wilde, **D15** 206; tree to 27 m tall; swampy lowland forest; Ph, Jh.
- 141.3.14 **Horsfieldia punctata** W.J. de Wilde, **D16** 37; tree to 25 m tall; lower montane forest at about 1000 m; Ph; endemic.
- 141.3.15 **Horsfieldia punctatifolia** J. Sinclair, **TFM1** 327, **D16** 54; tree to 30 m tall; lowland and hill forest; Pk, Sl, NS, Ml, Sp.
- 141.3.16 **Horsfieldia ridleyana** (King) Warb., **FMP3** 60, **TFM1** 324, **D16** 7; tree to 25 m tall; lowland forest on poor soils; Kl, Tg, Pk, Ph, Sl, Ml.
- 141.3.17 **Horsfieldia sparsa** W.J. de Wilde, **D15** 194; tree to 40 m tall; lowland forest; Kl, Tg, Pk, Ph, Sl, NS, Jh, Sp.
- 141.3.18 **Horsfieldia subalpina** J. Sinclair, **TFM1** 325, **D16** 40; tree to 30 m tall; montane forest at 800–1500 m; Pk, Ph, Sl.
- 141.3.19 **Horsfieldia sucosa** (King) Warb., **TFM1** 328, **D15** 188; tree to 20 m tall; lowland forest; Kl, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 141.3.20 **Horsfieldia superba** (Hook.f. & Thomson) Warb., **FMP3** 55, **TFM1** 328, **D15** 200; tree to 30 m tall; lowland forest; absent from three states only.
- 141.3.21 **Horsfieldia tomentosa** Warb., **FMP3** 56, **TFM1** 324, **D15** 210; tree to 20 m tall; lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, Ml, Jh, ?Sp.
- 141.3.22 **Horsfieldia wallichii** (Hook.f. & Thomson) Warb., **FMP3** 57, **TFM1** 330, **D15** 204; tree to 30 m tall; lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 141.4.1 **Knema andamanica** (Warb.) W.J. de Wilde ssp. **nicobarica** (Warb.) W.J. de Wilde, **D12** 370; tree to 16 m tall; once from Pn.
- 141.4.2 **Knema communis** J. Sinclair, **TFM1** 334, **D12** 461; tree to 16 m tall; lowland forest; Tg, Pk, Ph, Jh, Sp; endemic.

- 141.4.3 ***Knema conferta*** (King) Warb., **FMP3** 70, **TFM1** 335, **D12** 472; tree to 20 m tall; swampy lowland forest; Pk, Ph, Ml, Jh, Sp.
- 141.4.4a ***Knema curtisii*** (King) Warb. var. ***curtisii***, **FMP3** 69 in part, **TFM1** 334 in part, **D12** 416; tree to 10 m tall; lowland forest; Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh.
- 141.4.4b ***Knema curtisii*** (King) Warb. var. ***paludosa*** J. Sinclair, **D12** 420; *Knema curtisii* (King) Warb., **FMP3** 69 in part, **TFM1** 334 in part; tree to 10 m tall; freshwater swamp forest; Pk, Jh, Sp.
- 141.4.5 ***Knema furfuracea*** (Hook.f. & Thomson) Warb., **FMP3** 70, **TFM1** 335, **D12** 387; tree to 20 m tall; lowland forest; P. Langkawi, Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 141.4.6 ***Knema glauca*** (Blume) Warb., **D12** 452; *Knema cinerea* (Poir.) Warb. var. *sumatrana auct. non* (Blume) J. Sinclair, **TFM1** 334 in part; tree to 25 m tall; lowland forest; Tg, Pk, Ph, Jh.
- 141.4.7 ***Knema glaucescens*** Jack, **D12** 462; *Knema geminata* (Miq.) Warb., **FMP3** 72 in part; *Knema cinerea* (Poir.) Warb. var. *sumatrana auct. non* (Blume) J. Sinclair, **TFM1** 334 in part; tree to 25 m tall; lowland forest; Kl, Jh, Sp.
- 141.4.8 ***Knema globularia*** (Lam.) Warb., **TFM1** 336, **D12** 411; *Knema missionis* (Wall. ex King) Warb., **FMP3** 71; tree about 10 m tall; usually coastal; P. Langkawi, Kd, Pn, Kl, Tg, Ph, Ml, Jh, Sp.
- 141.4.9 ***Knema hookeriana*** (Wall. ex Hook.f. & Thomson) Warb., **FMP3** 67, **TFM1** 336, **D12** 387; tree to 25 m tall; lowland and hill forest; Pn, Kl, Tg, Pk, Ph, NS, Ml, Jh, Sp.
- 141.4.10 ***Knema intermedia*** (Blume) Warb., **FMP3** 68, **TFM1** 334, **D12** 427; tree to 10 m tall; lowland forest; Pk, Ph, Sl, Ml, Jh, Sp.
- 141.4.11 ***Knema kunstleri*** (King) Warb., **FMP3** 69, **TFM1** 338, **D12** 468; tree to 25 m tall; lowland and hill forest on poor soils; Kl, Tg, Pk, Ph, Sl, NS, Jh.
- 141.4.12 ***Knema lamellaria*** W.J. de Wilde, **D12** 389; tree to 20 m tall; lowland forest; Tg, Ph; endemic.
- 141.4.13 ***Knema latericia*** Elmer ssp. ***ridleyi*** (Gand.) W.J. de Wilde, **D12** 396; *Knema latericia* Elmer, **TFM1** 332; tree to 10 m tall; lowland forest; Tg, Jh, Sp.
- 141.4.14a ***Knema laurina*** (Blume) Warb. var. ***heteropilis*** W.J. de Wilde, **D12** 381; small tree; lowland forest; Kd, Pk, Ph, Sl, NS.
- 141.4.14b ***Knema laurina*** (Blume) Warb. var. ***laurina***, **FMP3** 72, **TFM1** 338, **D12** 379; small tree; lowland forest; P. Langkawi, Kd, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.

- 141.4.15 **Knema malayana** Warb., **FMP3** 69, **TFM1** 338, **D12** 456; tree to 15 m tall; lowland forest; Kd, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 141.4.16 **Knema mandaharan** (Miq.) Warb., **TFM1** 333, **D12** 404; tree to 20 m tall; swampy lowland forest; Pk, Tg, Jh.
- 141.4.17 **Knema oblongifolia** (King) Warb., **FMP3** 71, **TFM1** 333, **D12** 369; *Knema oblongifolia* (King) Warb. var. *monticola* Warb., **FMP3** 71, **TFM1** 333; tree to 13 m tall; Tg, Pk, Ph, Sl; endemic.
- 141.4.18 **Knema patentinervia** (J. Sinclair) W.J. de Wilde, **D12** 456; *Knema cinerea* (Poir.) Warb. var. *patentinervia* (J. Sinclair) J. Sinclair, **TFM1** 334; tree to 16 m tall; lowland forest; Kl, Tg, Pk, Ph, Ml, Jh.
- 141.4.19 **Knema plumulosa** J. Sinclair, **TFM1** 332, **D12** 426; *Knema cantleyi* auct. non (Hook.f.) Warb., **FMP3** 68; tree to 16 m tall; swampy lowland forest; Pn, Tg, Pk, Sl, Jh; endemic.
- 141.4.20 **Knema pseudolaurina** W.J. de Wilde, **D12** 377; tree; lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Jh.
- 141.4.21 **Knema pulchra** (Miq.) Warb., **D12** 399; *Knema cinerea* (Poir.) Warb. var. *cordata* J. Sinclair, **TFM1** 333; tree to 13 m tall; lowland forest; Tg, Jh.
- 141.4.22 **Knema retusa** (King) Warb., **FMP3** 72, **TFM1** 332, **D12** 384; tree to 18 m tall; Pk; endemic.
- 141.4.23a **Knema rigidifolia** J. Sinclair ssp. *camerona* W.J. de Wilde, **TFM1** 339 in part, **D12** 398; tree to 10 m tall; lower montane forest at 1500–1800 m; Cameron Highlands, Ph; endemic.
- 141.4.23b **Knema rigidifolia** J. Sinclair ssp. *rigidifolia*, **TFM1** 339 in part, **D12** 398; tree to 10 m tall; lower montane forest; Ph, Sl; endemic.
- 141.4.24 **Knema rubens** (J. Sinclair) W.J. de Wilde, **D12** 450; *Knema cinerea* (Poir.) Warb. var. *rubens* J. Sinclair, **TFM1** 334; tree to 16 m tall; lowland forest; Kd, Pn, Kl, Tg, Ph, Jh, sp.
- 141.4.25 **Knema scortechinii** (King) J. Sinclair, **TFM1** 339, **D12** 431; *Knema conferta* (King) Warb. var. *scortechinii* Warb., **FMP3** 70; tree to 20 m tall; lowland forest; Kd, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh.
- 141.4.26 **Knema stenophylla** (Warb.) J. Sinclair, **TFM1** 334, **D12** 457; tree to 10 m tall; lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, NS, Ml, Jh.
- 141.4.27 **Knema sumatrana** (Blume) W.J. de Wilde, **D12** 454; *Knema wrayi* (King) Warb., **FMP3** 70; *Knema cinerea* (Poir.) Warb. var. *sumatrana* (Blume) J. Sinclair, **TFM1** 334 in part; tree to 25 m tall; lowland forest; Kl, Pk.

- 141.5.1 **Myristica cinnamomea** King, **FMP3** 65, **TFM1** 342; tree to 25 m tall; lowland and hill forest; throughout.
- 141.5.2 **Myristica crassa** King, **FMP3** 66, **TFM1** 341; *Myristica suavis* King, **FMP3** 65; tree to 25 m tall; lowland forest; Pk, Ml, Jh, Sp; endemic.
- 141.5.3 **Myristica elliptica** Hook.f. & Thomson, **FMP3** 65, **TFM1** 342; tree to 30 m tall; swampy lowland forest; throughout.
- 141.5.4 **Myristica gigantea** King, **FMP3** 64, **TFM1** 342; tree to 45 m tall; lowland forest; common throughout.
- 141.5.5 **Myristica guatteriifolia** A. DC., **TFM1** 341; tree to 20 m tall; beach forest; Tg, Ph, Jh.
- 141.5.6 **Myristica iners** Blume, **FMP3** 64, **TFM1** 343; tree to 30 m tall; lowland forest; common throughout.
- 141.5.7 **Myristica lowiana** King, **FMP3** 66, **TFM1** 344; stilt-rooted tree to 25 m tall; peat swamp forest; scattered.
- 141.5.8 **Myristica maingayi** Hook.f., **FMP3** 64, **TFM1** 344; stilt-rooted tree to 45 m tall; lowland forest; common throughout.
- 141.5.9 **Myristica malaccensis** Hook.f., **FMP3** 64, **TFM1** 344; tree; lowlands; Kd, Pk, Ph, Sl, Ml.
- 141.5.10 **Myristica naxima** Warb., **FMP3** 63, **TFM1** 345; tree to 35 m tall; lowland forest; commonest in the south.

142. MYRSINACEAE

- 142.1.1 **Aegiceras corniculatum** (L.) Blanco, **TFM4** 266; *Aegiceras majus* Gaertn., **FMP2** 256; small tree to 5 m tall; tidal mud, river estuaries; widespread, frequent on west coast.
- 142.2.1 **Antistrophe caudata** King & Gamble, **FMP2** 255, **TFM4** 268; slender shrub; hill forest; Pk, Sl, NS, Ml; endemic.
- 142.2.2 **Antistrophe curtisii** King & Gamble, **FMP2** 256, **TFM4** 268; slender shrub; hill forest at 1200 m; Kd, Pk; endemic.
- 142.3.1 **Ardisia bambusetorum** King & Gamble, **FMP2** 255, **TFM4** 270, **Y07** 248; shrub to 60 cm tall; bamboo forest; Pk.
- 142.3.2 **Ardisia barnesii** Ridl., **FMP2** 244, **TFM4** 274; shrub; montane forest; Tg, Pk, Ph; endemic.

- 142.3.3 *Ardisia biflora* King & Gamble, **FMP2** 244, **TFM4** 274; shrub to 3 m tall; limestone hills; Pk; endemic.
- 142.3.4 *Ardisia biniflora* Ridl., **FMP2** 241, **TFM4** 274; shrub to 4 m tall; montane forest; Gg Tahan, Ph; endemic.
- 142.3.5 *Ardisia calophylla* Furtado, **TFM4** 272; shrub; lowland forest; Pk; endemic.
- 142.3.6 *Ardisia cameronensis* Yuen P. Yang, **Y07** 258; shrub 50–60 cm tall; forest at 1200–1400 m; Tg, Pk, Ph, Sl; endemic.
- 142.3.7 *Ardisia cardiophylla* B.C. Stone, **S54** 104, **TFM4** 272; ?shrub; Sg Tahan, Ph; endemic.
- 142.3.8 *Ardisia chrysophyllifolia* King & Gamble, **FMP2** 250, **TFM4** 272; shrub or small tree; montane forest; Tg, Pk; endemic.
- 142.3.9a *Ardisia colorata* Roxb. var. *colorata*, **FMP2** 246, **TFM4** 276; shrub or small tree to 8 m tall; lowland and hill forest; throughout.
- 142.3.9b *Ardisia colorata* Roxb. var. *complanata* C.B. Clarke, **FMP2** 247, **TFM4** 276; shrub or small tree to 8 m tall; lowland and hill forest; widespread.
- 142.3.9c *Ardisia colorata* Roxb. var. *elliptica* King & Gamble, **FMP2** 247, **TFM4** 276; shrub or small tree to 8 m tall; lowland and hill forest; Pk.
- 142.3.9d *Ardisia colorata* Roxb. var. *polyneura* C.B. Clarke, **FMP2** 247, **TFM4** 276; shrub or small tree to 8 m tall; lowland and hill forest; widespread.
- 142.3.9e *Ardisia colorata* Roxb. var. *salicifolia* King & Gamble, **FMP2** 247, **TFM4** 276; shrub or small tree to 8 m tall; lowland and hill forest; Pk, Ml.
- 142.3.10 *Ardisia crassa* C.B. Clarke, **FMP2** 249 in part, **TFM4** 274; small tree; lowland forest; NS, Ml, Sp.
- 142.3.11 *Ardisia crenata* Sims, **FMP2** 253, **TFM4** 270; shrub; open areas; throughout.
- 142.3.12 *Ardisia denticulata* Blume, **L02** 162; *Tetrardisia corneri* Furtado, **TFM4** 284; *Tetrardisia denticulata* (Blume) Mez, **S63** 4; shrub to 60 cm tall; swamp forest; Jh.
- 142.3.13 *Ardisia elliptica* Thunb., **TFM4** 274; *Ardisia littoralis* Andr., **FMP2** 241; shrub to 3 m tall; tidal areas, sea shores; coasts from Ps to Sp.
- 142.3.14 *Ardisia ferox* Furtado, **TFM4** 272; shrub; Gg Pulai, Jh; endemic.
- 142.3.15 *Ardisia foliosa* Furtado, **TFM4** 270, **Y07** 251; *Ardisia linearifolia* (non Miq.) Ridl., **FMP2** 255; shrub to 20 cm tall; Pk, Kl, Jh; endemic.
- 142.3.16 *Ardisia fulva* King & Gamble, **FMP2** 250, **TFM4** 271; shrub to 4 m tall; lowland and hill forest; P, Langkawi, Kd, Pn, Kl, Pk; endemic.

- 142.3.17 *Ardisia furtadoi* B.C. Stone, **S54** 109, **TFM4** 274; small tree to 13 m tall; lowland forest; Jh; endemic.
- 142.3.18 *Ardisia gambleana* Furtado, **TFM4** 275; shrub; lowland forest; Ph; endemic.
- 142.3.19 *Ardisia glanduligera* Ridl., **FMP2** 243, **TFM4** 275; shrub; montane forest; Cameron Highlands, Ph; endemic.
- 142.3.20 *Ardisia goodenoughii* Furtado, **TFM4** 269; shrub; lowland forest; Kl, Tg, Pk, Ph, Sl.
- 142.3.21 *Ardisia hullettii* Mez, **FMP2** 244, **TFM4** 275; shrub; NS, Jh; endemic.
- 142.3.22 *Ardisia junghuhniana* Miq. var. *multiflora* B.C. Stone, **S54** 111, **TFM4** 275; shrub or small tree to 10 m tall; lowland forest including swamps; Ph, Sl, Jh; endemic variety.
- 142.3.23 *Ardisia korthalsiana* Scheff., **TFM4** 276; *Ardisia teysmanniana* auct. non Scheff., **FMP2** 241 in part; shrub or small tree; lowland and hill forest to 1400 m; Tg, Ph, Ml, Jh.
- 142.3.24 *Ardisia kunstleri* King & Gamble, **FMP2** 243, **TFM4** 275; shrub to 6 m tall; hill forest at 600 m; Pk; endemic.
- 142.3.25 *Ardisia laevigata* Blume, **TFM4** 270; shrub; montane forest; Cameron Highlands, Ph.
- 142.3.26 *Ardisia lanceolata* Roxb., **FMP2** 249, **TFM4** 276; tree to 8 m tall; lowland and hill forest; Kd to Sp.
- 142.3.27 *Ardisia lankawiensis* King & Gamble, **FMP2** 251, **TFM4** 271; tree; often on limestone; P. Langkawi; endemic.
- 142.3.28 *Ardisia linearifolia* Miq., **TFM4** 273; once from Jh.
- 142.3.29 *Ardisia longepedunculata* King & Gamble, **FMP2** 254, **TFM4** 271; shrub; montane forest; Gg Batu Puteh, Pk; endemic.
- 142.3.30 *Ardisia lurida* Blume, **FMP2** 242, **TFM4** 277; tree reaching 6–7 m tall; lowland forest; Pk and Ph to Jh.
- 142.3.31 *Ardisia maingayi* King & Gamble, **FMP2** 254, **TFM4** 270, **Y07** 255; *Ardisia odontophylla* auct. non Wall. ex A. DC., **FMP2** 255, **TFM4** 270; creeping shrub to 1 m tall; lowland and montane forest; Kl, Pk, Ph, Sl, Ml, Jh.
- 142.3.32 *Ardisia mawaiensis* Furtado ex B.C. Stone, **S54** 113, **TFM4** 274; shrub; lowland swamp forest; Jh; endemic.
- 143.3.33 *Ardisia metallica* N.E. Br., **Y07** 261; shrub to 40 cm tall; lowland forest; once from Tg.

- 142.3.34 *Ardisia meiziana* King & Gamble, **FMP2** 253, **TFM4** 271; shrub to 60 cm tall; on limestone; Pk; endemic.
- 142.3.35 *Ardisia minor* King & Gamble, **FMP2** 252, **TFM4** 271; shrub to 50 cm tall; once from Pk; endemic.
- 142.3.36 *Ardisia miqueliana* Scheff., **TFM4** 273; shrub; Jh, Sp.
- 142.3.37a *Ardisia montana* King & Gamble var. *montana*, **FMP2** 246, **TFM4** 273; shrub to 2 m tall; montane forest 1000–2000 m; Pk, Ph, Sl; endemic.
- 142.3.37b *Ardisia montana* King & Gamble var. *selangorensis* B.C. Stone, **TFM4** 274; shrub; montane forest at 1100–1500 m; Genting Highlands, Ph/Sl; endemic.
- 142.3.38 *Ardisia monticola* Ridl., **FMP2** 241, **TFM4** 274; shrub; montane forest; Ph, Sl; endemic.
- 142.3.39 *Ardisia mystica* B.C. Stone, **S54** 114, **TFM4** 272; small tree to 10 m tall; montane forest; Genting Highlands, Ph/Sl; endemic.
- 142.3.40 *Ardisia nurii* Furtado, **TFM4** 273; shrub; montane forest; Fraser's Hill, Ph; endemic.
- 142.3.41 *Ardisia oblongifolia* King & Gamble, **FMP2** 243, **TFM4** 275; shrub; hill forest; Pk; endemic.
- 142.3.42a *Ardisia ophirensis* Mez var. *labisiifolia* (King & Gamble) B.C. Stone, **TFM4** 273; *Ardisia labisiifolia* King & Gamble, **FMP2** 246; shrub; montane forest; Pk; endemic.
- 142.3.42b *Ardisia ophirensis* Mez var. *ophirensis*, **FMP2** 245, **TFM4** 273; shrub; montane forest, often on rocks; Pk, Ph, Jh; endemic.
- 142.3.43 *Ardisia oxyphylla* Wall. ex A. DC., **FMP2** 242, **TFM4** 275; shrub or small tree; lowland and hill forest; widespread and common.
- 142.3.44 *Ardisia pachysandra* (Wall. ex Roxb.) Mez, **FMP2** 240, **TFM4** 277; shrub or tree to 12 m tall; lowland and hill forest; Kd, Pn, Tg, Pk, Sl, Jh.
- 142.3.45 *Ardisia pallidiflora* Ridl., **FMP2** 245, **TFM4** 273; shrub; riverbanks; Jh; endemic.
- 142.3.46 *Ardisia pendula* Mez, **FMP2** 244, **TFM4** 274; shrub; open country in the lowlands; Ps, Ph, Ml.
- 142.3.47 *Ardisia perakensis* King & Gamble, **FMP2** 252, **TFM4** 271; small shrub; lowland forest; Pk; endemic.
- 142.3.48 *Ardisia petricola* Ridl., **FMP2** 247, **TFM4** 273; shrub; montane forest; Ph; endemic.

- 142.3.49 ***Ardisia platyclada*** King & Gamble, **FMP2** 247, **TFM4** 273; shrub to 5 m tall; lowland forest; Pk; endemic.
- 142.3.50 ***Ardisia porosa*** C.B. Clarke, **FMP2** 248, **L02** 162; *Tetrardisia porosa* (C.B. Clarke) Furtado, **TFM4** 284, **S63** 7; shrub to 3 m tall; lowland and hill forest; Pn, Pk, NS, Ml.
- 142.3.51 ***Ardisia praetermissa*** Furtado, **TFM4** 270; shrub; lowland swamp forest; Sl, Ml; endemic.
- 142.3.52 ***Ardisia punctata*** Jack, **TFM4** 269; *Ardisia divergens* Roxb., **FMP2** 247; small tree to 6 m tall; hill forest at 800 m; Pn; endemic.
- 142.3.53 ***Ardisia retinervia*** Ridl., **FMP2** 241, **TFM4** 272; shrub to 4 m tall; montane forest; Gg Tahan, Ph; endemic.
- 142.3.54 ***Ardisia ridleyi*** King & Gamble, **FMP2** 253, **TFM4** 271; shrub to 4 m tall; forests, commoner in the hills; Kd to Sp.
- 142.3.55 ***Ardisia rosea*** King & Gamble, **FMP2** 253, **TFM4** 271; shrub to 2 m tall; hill and montane forest above 800 m; Pk, Ph, Sl; endemic.
- 142.3.56 ***Ardisia scortechinii*** King & Gamble, **FMP2** 243, **TFM4** 277; tree to 16 m tall; lowland forest; Pk; endemic.
- 142.3.57 ***Ardisia sessilis*** Scheff., **TFM4** 273; *Ardisia crassa* auct. non C.B. Clarke, **FMP2** 249 in part; shrub or small tree; lowland forest; Sp.
- 142.3.58 ***Ardisia singaporensis*** Ridl., **FMP2** 251, **TFM4** 270; small tree; coastal; Jh, Sp; endemic.
- 142.3.59 ***Ardisia sinuata*** King & Gamble, **FMP2** 246, **TFM4** 274; shrub to 4 m tall; lowland forest; Pk; endemic.
- 142.3.60 ***Ardisia solanacea*** Roxb., **FMP2** 242, **TFM4** 275; shrub to 3 m tall; lowland forest; Pk, Sl.
- 142.3.61 ***Ardisia solanoides*** King & Gamble, **FMP2** 250, **TFM4** 271; shrub to 2 m tall; lowland and hill forest; Pk; endemic.
- 142.3.62 ***Ardisia solida*** B.C. Stone, **S54** 113, **TFM4** 272; shrub to 5 m tall; lower montane forest at 1000 m; Gg Besar, Jh; endemic.
- 142.3.63 ***Ardisia suffruticosa*** Ridl., **FMP2** 243, **TFM4** 275; shrub to 30 cm tall; lowland and hill forest; Pk, Ph, Jh (once each); endemic.
- 142.3.64 ***Ardisia sumatrana*** Miq., **FMP2** 249, **TFM4** 274; shrub or small tree to 6 m tall; Pk, Sl.
- 142.3.65 ***Ardisia tahanica*** King & Gamble, **FMP2** 242, **TFM4** 275; shrub; lowland river banks; Kl, Ph, Jh; endemic.

- 142.3.66 ***Ardisia tetrasepala*** King & Gamble, **FMP2** 244, **L02** 162; *Tetrardisia tetrasepala* (King & Gamble) Furtado, **TFM4** 284, S60 9; shrub; hill forest; Jh; endemic.
- 142.3.67 ***Ardisia teysmanniana*** Scheff., **FMP2** 240 in part, **TFM4** 272; shrub or small tree to 6 m tall; lowland and hill forest; Ml, Jh, Sp.
- 142.3.68 ***Ardisia theifolia*** King & Gamble, **FMP2** 254, **TFM4** 270, **Y07** 236; slender shrub to 2 m tall; montane forest, mostly above 1400 m; Pk, Ph; endemic.
- 142.3.69 ***Ardisia tuberculata*** Wall. ex A. DC., **FMP2** 245, **TFM4** 273; shrub to 4 m tall; lowland forest; Ml, Jh, Sp.
- 142.3.70 ***Ardisia tumida*** Furtado, **TFM4** 270; shrub; lowland forest by streams; Tg; endemic.
- 142.3.71 ***Ardisia vaughanii*** Ridl., **FMP2** 248, **TFM4** 272; shrub; hill forest; Ps, Kd, Kl, Pk, Ph; endemic.
- 142.3.72a ***Ardisia villosa*** Roxb. var. ***glabrata*** Kurz, **FMP2** 251, **TFM4** 271; shrub to 1 m tall; lowland forest; Kd, Pn, Pk, Ph.
- 142.3.72b ***Ardisia villosa*** Roxb. var. ***villosa***, **FMP2** 251, **TFM4** 271; shrub to 1 m tall; lowland forest; throughout.
- 142.3.73 ***Ardisia viminea*** Ridl., **TFM4** 270; shrub; hill and montane forest; Ulu Gombak and Genting Highlands, Sl; endemic.
- 142.3.74 ***Ardisia virens*** Kurz, **FMP2** 252, **TFM4** 271; large shrub; hill forest; Pk.
- 142.3.75 ***Ardisia wrayi*** King & Gamble, **FMP2** 252, **TFM4** 271; shrub to 2 m tall; lowland and hill forest to 1200 m; Kl to Jh; endemic.
- 142.3.76 ***Ardisia* sp. X**, **TFM4** 273; montane forest at 1300 m; once from Gg Lawit, Tg; ?endemic.
- 142.3.77 ***Ardisia* sp. Z**, **TFM4** 273; *Ardisia andamanica* auct. non Kurz, **FMP2** 245; shrub to 4 m tall; hill and lower montane forest; Kl, Pk, Sl, Ml, Jh; ?endemic.
- 142.4.1 ***Embelia angulosa*** King & Gamble, **FMP2** 234, **TFM4** 279; liana; montane forest generally above 1400 m; Pk, Ph, Sl.
- 142.4.2a ***Embelia canescens*** Jack var. ***canescens***, **FMP2** 232, **TFM4** 279; slender liana; lowland and hill forest; Pn, Pk, Sl, Ml, Jh, Sp; endemic.
- 142.4.2b ***Embelia canescens*** Jack var. ***glabrescens*** Ridl., **FMP2** 232, **TFM4** 279; slender liana; lowland and hill forest; Ml, Sp; endemic.
- 142.4.3 ***Embelia coriacea*** Wall. ex A. DC., **FMP2** 233, **TFM4** 279; large liana; lowland and hill forest; Kd, Pn, Tg, Pk, ?Ph, Sl, NS, Ml, Jh, Sp.

- 142.4.4 ***Embelia dasythyrsa*** Miq., **FMP2** 232, **TFM4** 279; liana; lowland forest; Pk, Ph, Sl, Jh, Sp.
- 142.4.5 ***Embelia furculosa*** B.C. Stone, **S54** 116, **TFM4** 280; slender liana; montane forest; Gg Benom, Ph; endemic.
- 142.4.6 ***Embelia macrocarpa*** King & Gamble, **FMP2** 234, **TFM4** 279; liana; lowland and hill forest; P. Langkawi, Pn.
- 142.4.7 ***Embelia myrtilus*** Kurz, **FMP2** 235, **TFM4** 280; climbing shrub; montane forest; mountain tops; Kd to Jh.
- 142.4.8 ***Embelia parviflora*** Wall. ex A. DC., **FMP2** 236, **TFM4** 280; slender liana; montane forest above 1000 m; Kl, Pk, Ph.
- 142.4.9 ***Embelia penangiana*** (Oliv.) Mez, **FMP2** 233, **TFM4** 279; large liana; lowland and hill forest; Pn, Pk; endemic.
- 142.4.10 ***Embelia ribes*** Burm., **TFM4** 279; *Embelia garciniifolia* Wall. ex Miq., **FMP2** 232; liana; lowland forest; throughout.
- 142.4.11 ***Embelia rotundifolia*** Ridl., **FMP2** 235, **TFM4** 280; climbing shrub; montane forest at 1500 m; Gg Kerbau, Pk; endemic.
- 142.4.12 ***Embelia rugosa*** (King & Gamble) Ridl., **FMP2** 233, **TFM4** 279; liana; hill and montane forest; Pn, Pk, Ph, Sl; endemic.
- 142.4.13 ***Embelia scortechinii*** King & Gamble, **FMP2** 233, **TFM4** 279; liana; Pk; endemic.
- 142.4.14 ***Embelia subcordata*** Ridl., **FMP2** 236, **TFM4** 280; slender liana; lower montane forest; Semangkok Pass, Sl; endemic.
- 142.5.1 ***Grenacheria amentacea*** (C.B. Clarke) Mez; *Embelia amentacea* C.B. Clarke, **FMP2** 234, **TFM4** 278; slender liana; lowland forest; widespread.
- 142.5.2 ***Grenacheria fulva*** (Mez) Airy Shaw, **A01** 514; *Embelia fulva* Mez, **TFM4** 279; climber; lowland forest; Jh, Sp.
- 142.5.3 ***Grenacheria lampani*** (Scheff.) Mez; *Embelia lampani* Scheff., **FMP2** 234, **TFM4** 279; slender liana; lowland forest; Pn to Sp.
- 142.6.1 ***Hymenandra iteophylla*** (Ridl.) Furtado, **TFM4** 281; *Ardisia iteophylla* Ridl., **FMP5** 318; shrub; hill forest at 500 m; Gg Besidong, Jh; endemic.
- 142.7.1 ***Labisia acuta*** Ridl., **FMP2** 237, **S62** 47, **TFM4** 282; subshrub to 30 cm tall; lowland forest; Jh; endemic.
- 142.7.2 ***Labisia longistyla*** King & Gamble, **FMP2** 237, **S62** 45, **TFM4** 281; shrub to 60 cm tall; montane forest; Pk, Ph, Sl; endemic.

- 142.7.3 **Labisia paucifolia** King & Gamble, **FMP2** 237, **S62** 47, **TFM4** 282; subshrub to 40 cm tall; montane forest above 1000 m; Kd, Tg, Pk, Ph, Sl; endemic.
- 142.7.4a **Labisia pumila** (Blume) Fern.-Vill. var. **alata** Scheff., **S62** 50; *Labisia pothoina* Lindl. var. *alata* (Scheff.) Ridl., **FMP2** 237; herbaceous undershrub; lowland and hill forest; widespread.
- 142.7.4b **Labisia pumila** (Blume) Fern.-Vill. var. **lanceolata** (Scheff.) Mez, **S62** 47, **TFM4** 282; *Labisia pothoina* Lindl. var. *lanceolata* (Scheff.) Ridl., **FMP2** 237; herbaceous undershrub; lowland and hill forest; widespread.
- 142.7.4c **Labisia pumila** (Blume) Fern.-Vill. var. **pumila**, **S62** 47, **TFM4** 281; *Labisia pothoina* Lindl., **FMP2** 237; herbaceous undershrub; lowland and hill forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 142.8.1 **Maesa arborea** Ridl., **FMP2** 228, **TFM4** 283; small tree; lowland forest; Kl; ?endemic.
- 142.8.2 **Maesa impressinervis** King & Gamble, **FMP2** 228, **TFM4** 282; shrub to 7 m tall; mountain summits above 1500 m; Gg Bubu, Pk, Gg Brinchang, Ph; endemic.
- 142.8.3 **Maesa indica** Wall., **FMP2** 229, **TFM4** 282; shrub; lowland and hill forest; Ps & Kd to Ml.
- 142.8.4 **Maesa lancifolia** Ridl., **FMP2** 228, **TFM4** 283; shrub; lowlands; Kl; ?endemic.
- 142.8.5 **Maesa macrophylla** Wall. ex Roxb., **TFM4** 283; shrub; montane forest; Gg Brinchang, Ph.
- 142.8.6 **Maesa macrothyrsa** Miq., **FMP2** 227, **TFM4** 283; slender liana; lowland forest; Ph to Jh.
- 142.8.7 **Maesa oocarpa** Ridl., **FMP2** 229, **TFM4** 283; large shrub; lowland forest; Kl; ?endemic.
- 142.8.8 **Maesa ramentacea** Wall. ex Roxb., **FMP2** 227, **TFM4** 283; shrub or small tree to 15 m tall; lowland and hill forest to 1200 m; throughout.
- 142.8.9 **Maesa striata** Mez, **FMP2** 228, **TFM4** 283; *Maesa pahangiana* King & Gamble, **FMP2** 229; shrub; lowland and hill forest; Kd, Pn, Pk, Ph.
- Stone [**TFM4**] considers *M. arborea*, *M. lanceifolia* and *M. oocarpa* nearly impossible to separate from *M. ramentacea* and each other.
- 142.9.1 **Rapanea perakensis** (King & Gamble) B.C. Stone, **TFM4** 283; *Myrsine perakensis* King & Gamble, **FMP2** 230; *Myrsine wrayi* King & Gamble, **FMP2** 230; shrub or small tree to 10 m tall; hill and montane forest at 700–2100 m; Kl, Tg, Pk, Ph, Sl; endemic.

- 142.9.2 **Rapanea porteriana** Wall. ex A. DC., **TFM4** 284; *Myrsine avenis* (Blume) DC., **FMP2** 230; *Myrsine porteriana* Wall. ex A. DC., **FMP2** 230; *Myrsine umbellulata* (Wall.) DC., **FMP2** 231; shrub or small tree to 10 m tall; coasts, lowlands, hills and mountains to 1700 m; throughout.

143. MYRTACEAE

- 143.1.1 **Acmena acuminatissima** (Blume) Merr. & L.M. Perry, **M33** 361; *Eugenia acuminatissima* (non Miq.) Kurz, **FMP1** 747; *Eugenia cumingiana* Vidal, **H36** 260, **TFM3** 188; tree to 21 m tall; lowland to montane forest; widespread.

- 143.2.1 **Baeckea frutescens** L., **FMP1** 712, **TFM3** 170; shrub or small tree to 6 m tall; mountain tops, quartzite ridges and sandy lowland heaths; widespread.

- 143.3.1 **Cleistocalyx nervosum** (DC.) Kosterm., **K06**; *Cleistocalyx operculata* (Roxb.) Merr. & L.M. Perry, **M33** 363; *Syzygium operculatum* (Roxb.) Niedenzu, **H59** 108; *Eugenia operculata* Roxb., **FMP1** 754, **H36** 264, **TFM3** 205; *Syzygium nervosum* DC., **P03** 299; tree to 39 m tall; lowland forest, often near streams; Kd, Pn, Tg, Pk, Ph, Sl, Jh.

- 143.4.1a **Decaspermum parviflorum** (Lam.) A.J. Scott var. **caudatum** A.J. Scott, **S15** 410; shrub; on limestone; Bt Takun, Sl; endemic variety.

- 143.4.1b **Decaspermum parviflorum** (Lam.) A.J. Scott var. **parviflorum**, **S15** 409; *Decaspermum paniculatum* Kurz, **FMP1** 717; *Decaspermum fruticosum* auct. non J.R. Forst. & G. Forst., **TFM3** 171; shrub or small tree to 15 m tall; secondary forest and primary forest margins; widespread.

Parnell and Nic Lughadha [**P07** 704] refer the Malayan material of *Decaspermum parviflorum* to their subspecies *quadripartitum*.

- 143.4.2 **Decaspermum montanum** Ridl., **FMP1** 718, **TFM3** 172, **S15** 406; shrub; montane forest above 900 m; Gg Jerai, Kd; Gg Ulu Kali, Ph; Gg Ledang, Jh; ?endemic.

- 143.5.1 **Leptospermum amboinense** Blume, **B15** 653; *Leptospermum flavescens* Sm. var. *angustifolium* Ridl., **FMP1** 713; *Leptospermum flavescens* Sm., **TFM3** 248 in part; *Leptospermum javanicum* Blume, **T11** in part; shrub or small tree; montane forest; Kd, Ml, Jh.

- 143.5.2 **Leptospermum javanicum** Blume, **T11** 390 in part, **B15** 652; *Leptospermum flavescens* Sm., **FMP1** 713 incl. var. *javanicum* King, **TFM3** 248 in part; shrub or small tree; montane forest at high altitudes; Ph, Sl.

- 143.6.1 **Melaleuca cajuputi** Powell, **TFM3** 248; *Melaleuca leucadendron* L. sensu lato, **FMP1** 713; shrub or tree to 24 m tall; swampy ground near the sea; widespread.

- 143.7.1 **Rhodamnia cinerea** Jack, **FMP1** 716 incl. var. *caudata* Ridl., **TFM3** 250, **S14** 435; tree to 15 m tall; lowland (secondary) forest, often near the sea; common throughout.
- 143.7.2 **Rhodamnia dumetorum** (DC.) Merr. & L.M. Perry, **S14** 437; shrub or small tree to 8 m tall; P. Langkawi.
- 143.7.3 **Rhodamnia uniflora** (Ridl.) Burkill, **S14** 440; *Rhodamnia cinerea* Jack var. *uniflora* Ridl., **FMP1** 716; shrub to 9 m tall; montane forest at 600–1700 m; Kd, Kl, Tg, Pk, Ph, Jh.
- 143.8.1 **Rhodomyrtus tomentosa** (Aiton) Hassk., **FMP1** 717, **S13** 313; shrub to 3 m tall; open sandy ground; common throughout, particularly on the East Coast.
- 143.9.1 **Stereocaryum symingtonianum** (M.R. Hend.) A.J. Scott, **S16** 496; *Eugenia symingtoniana* M.R. Hend., **H36** 267, **TFM3** 218; tree to 13 m tall; hill and montane forest; Kl, Tg, Pk, Ph; endemic.
- 143.9.2 **Stereocaryum watsonianum** (M.R. Hend.) A.J. Scott, **S16** 496; *Eugenia watsoniana* M.R. Hend., **H36** 268, **TFM3** 222; tree to 10 m tall; lowland forest; Sl; endemic.
- 143.10.1 **Syzygium alyxiifolium** (Ridl.) I.M. Turner, **T22** 15; *Eugenia alyxiifolia* Ridl., **FMP5** 309, **H36** 215, **TFM3** 182; shrub; montane forest; once from Fraser's Hill, Ph; endemic.
- 143.10.2 **Syzygium anacardiifolium** (Craib) P. Chantaranonthai & J. Parn., **C03** 592, **T22** 15, **C04** 34; tree to 15 m tall; lowland forest; once from Ulu Trengganu, Tg.
- 143.10.3 **Syzygium anisosepalum** (Duthie) I.M. Turner, **T22** 15; *Eugenia anisosepala* Duthie, **FMP1** 736, **H36** 114, **TFM3** 183; tree to 20 m tall; lowland and hill forest; Kd, Ph, Sl, NS, Ml; endemic.
- 143.10.4a **Syzygium attenuatum** (Miq.) Merr. & L.M. Perry ssp. *attenuatum* var. *attenuatum*, **M34** 185, **M33** 376, **T22** 15; *Eugenia attenuata* (Miq.) Koord. & Valeton, **H36** 238, **TFM3** 183; *Eugenia penangiana* Duthie, **FMP1** 740, in part; tree to 6 m tall; lowland to lower montane forest; Kd, Pn, Ph, Sl, Ml, Jh, Sp.
- 143.10.4b **Syzygium attenuatum** (Miq.) Merr. & L.M. Perry ssp. *attenuatum* var. *montanum* (M.R. Hend.) P. Chantaranonthai & J. Parn., **C03** 593, **C04** 40, **T22** 15; *Eugenia attenuata* (Miq.) Koord. & Valeton var. *montana* M.R. Hend., **H36** 242, **TFM3** 183; small tree; montane forest, rocky ridges; Ph, Sl.

- 143.10.4c *Syzygium attenuatum* (Miq.) Merr. & L.M. Perry ssp. **attenuatum** var. **ophirense** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia attenuata* (Miq.) Koord. & Valeton var. *ophirensis* M.R. Hend., **H36** 241, **TFM3** 183; small tree; montane forest; only known from Gg Ledang (Mt Ophir), Jh; endemic variety.
- 143.10.4d *Syzygium attenuatum* (Miq.) Merr. & L.M. Perry ssp. **circumscissum** (Gagnep.) P. Chantaranothai & J. Parn., **C03** 593, **C04** 41; *Eugenia rhamphiphylla* Craib, **H36** 242, **TFM3** 214; tree to 24 m tall; lowland forest; Kd, Pn.
- 143.10.5 *Syzygium avene* Miq., **T22** 15; *Eugenia avenis* (Miq.) M.R. Hend., **H36** 171, **TFM3** 184; *Eugenia scoparia* Duthie, **FMP1** 748; tree; lowland forest; Ml, Jh, Sp.
- 143.10.6 *Syzygium borneense* (Miq.) Miq., **C04** 45, **T22** 15; *Eugenia microcalyx* Duthie, **FMP1** 745 incl. var. *obovata* King in part, **H36** 205, **TFM3** 202; *Eugenia microcalyx* Duthie var. *irregularis* (Craib) M.R. Hend., **H36** 207, **TFM3** 202; tree to 16 m tall; lowland forest; Pn to Sp to west of Main Range.
- 143.10.7a *Syzygium burkillianum* (King) I.M. Turner var. **burkillianum**, **T22** 15; *Eugenia burkilliana* King, **FMP1** 735, **H36** 116, **TFM3** 184; tree to 18 m tall; lowland forest; Pk; endemic.
- 143.10.7b *Syzygium burkillianum* (King) I.M. Turner var. **garcinifolioides** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia burkilliana* King var. *garcinifolioides* M.R. Hend., **H36** 118, **TFM3** 184; tree; Ph, Sl; lowland forest; endemic.
- 143.10.8 *Syzygium cameronum* I.M. Turner, **T22** 15; *Eugenia goniocalyx* Ridl., **FMP5** 309, **H36** 165, **TFM3** 193; tree to 18 m tall; montane forest at 1500 m; Cameron Highlands and Fraser's Hill, Ph; endemic.
- 143.10.9 *Syzygium campanulatum* Korth., **C04** 47, **T22** 15; *Eugenia myrtifolia* (*non* Salisb.) Roxb., **FMP1** 750; *Eugenia oleina* Wight *nom. nud.*, **H36** 150, **TFM3** 205; small tree; coasts; Pn, Jh, Sp.
- 143.10.10 *Syzygium camptophyllum* (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia camptophylla* M.R. Hend., **H36** 140, **TFM3** 184; tree to 15 m tall; lowland forest; once from near Gopeng, Pk; endemic.
- 143.10.11 *Syzygium castaneum* (Merr.) Merr. & L.M. Perry, **M34** 156, **T22** 15; *Eugenia castanea* Merr., **H36** 156, **TFM3** 185; small tree; swampy lowland forest; Pk, Jh; endemic.
- 143.10.12 *Syzygium cerasiforme* (Blume) Merr. & L.M. Perry, **M34** 187, **C04** 49, **T22** 15; *Eugenia cerasiformis* (Blume) DC., **H36** 196, **TFM3** 185; *Eugenia expansa* (*non* Mart.) Duthie, **FMP1** 745; *Eugenia robinsoniana* Ridl., **FMP1** 734; *Eugenia evansii* Ridl., **FMP1** 747; small tree to 6 m tall; lowland forest; P. Langkawi to Ml.

- 143.10.13a *Syzygium cerinum* (M.R. Hend.) I.M. Turner var. **cerinum**, **T22** 15; *Eugenia cerina* M.R. Hend., **H36** 168, **TFM3** 185; *Eugenia punctulata* (non F.M. Bailey) King, **FMP1** 747; tree to 27 m tall; swampy lowland forest: Pn to Sp.
- 143.10.13b *Syzygium cerinum* (M.R. Hend.) I.M. Turner var. **montanum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia cerina* M.R. Hend. var. *montana* M.R. Hend., **H36** 171, **TFM3** 186; tree; montane forest: Tg, Pk, Ph, Jh.
- 143.10.13c *Syzygium cerinum* (M.R. Hend.) I.M. Turner var. **turbinatum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia cerina* M.R. Hend. var. *turbinata* M.R. Hend.; **H36** 170, **TFM3** 186; tree; lowland forest: Ph, Sl, NS, Jh, Sp.
- 143.10.14 *Syzygium chloranthum* (Duthie) Merr. & L.M. Perry, **M34** 173; *Eugenia chlorantha* Duthie, **FMP1** 734, **H36** 107, **TFM3** 186; tree to 24 m tall; lowland and hill forest: Kd to Sp.
- 143.10.15 *Syzygium chloroleucum* (King) Masam.: *Eugenia chloroleuca* King, **FMP1** 744, **H36** 189, **TFM3** 186; shrub or small tree; lowland and hill forest: Pk, Ph, Sl, Jh.
- 143.10.16 *Syzygium cinereum* (Kurz) P. Chantaranonthai & J. Parn., **C03** 596, **C04** 51; *Eugenia cinerea* Kurz, **FMP1** 744; *Eugenia pseudosubtilis* King, **FMP1** 746 incl. var. *subacuminata* King, **H36** 202 incl. var. *montana* M.R. Hend., **TFM3** 212; tree to 30 m tall; lowland forest, sometimes in the mountains; widespread.
- 143.10.17a *Syzygium claviflorum* (Roxb.) Wall. ex A.M. Cowan & Cowan var. **claviflorum**, **M33** 382, **C04** 53, **T22** 15; *Eugenia claviflora* Roxb., **FMP1** 742, **H36** 252, **TFM3** 186; *Eugenia leptantha* (non Benth.) Wight, **FMP1** 741; *Eugenia claviflora* Roxb. var. *leptalea* (Craib) M.R. Hend., **H36** 255, **TFM3** 187; *Acmenosperma claviflorum* (Roxb.) Kausel var. *claviflorum*, **H59** 24; medium-sized tree; lowland and hill forest: Ps, P, Langkawi, Tg, Kd, Pn, Pk, Ph, Sp.
- 143.10.17b *Syzygium claviflorum* (Roxb.) Wall. ex A.M. Cowan & Cowan var. **excavatum** (King) I.M. Turner, **T22** 15; *Eugenia claviflora* Roxb. var. *excavata* King, **H36** 257, **TFM3** 187; medium-sized tree; lowland and hill forest: Pn, Pk; endemic variety.
- 143.10.17c *Syzygium claviflorum* (Roxb.) Wall. ex A.M. Cowan & Cowan var. **glandulosum** (King) P. Chantaranonthai & J. Parn., **C02** 590, **T22** 15; tree.
- 143.10.17d *Syzygium claviflorum* (Roxb.) Wall. ex A.M. Cowan & Cowan var. **maingayi** (Duthie) P. Chantaranonthai & J. Parn., **C03** 590, **T22** 15; *Eugenia claviflora* Roxb. var. *maingayi* (Duthie) King, **H36** 257, **TFM3** 187; shrub or small tree; lowland and hill forest: Pn, Kl, Ph, NS, Jh; endemic variety.

- 143.10.17e **Syzygium claviflorum** (Roxb.) Wall. *ex* A.M. Cowan & Cowan var. **montanum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia claviflora* var. *montana* M.R. Hend., **H36** 260, **TFM3** 187; tree; hill and montane forest; Kd, Tg, Ph, Sl, Jh; endemic variety.
- 143.10.17f **Syzygium claviflorum** (Roxb.) Wall. *ex* A.M. Cowan & Cowan var. **riparium** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia claviflora* var. *riparia* M.R. Hend., **H36** 257, **TFM3** 187; tree; river banks; Sg Tahan, Ph; endemic variety.
- 143.10.18 **Syzygium clypeolatum** (Ridl.) I.M. Turner, **T22** 15; *Eugenia clypeolata* Ridl., **FMP1** 754, **H36** 227, **TFM3** 197; shrub; once from Gg Tahan, Ph; endemic.
- 143.10.19a **Syzygium conglomeratum** (Duthie) I.M. Turner var. **conglomerata**, **T22** 15; *Eugenia conglomerata* Duthie, **FMP1** 742, **H36** 198, **TFM3** 188; tree to 27 m tall; ?lowland forest; Sl, Ml, Jh, Sp; endemic.
- 143.10.19b **Syzygium conglomeratum** (Duthie) I.M. Turner var. **paniculatum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia conglomerata* Duthie var. *paniculata* M.R. Hend., **H36** 201, **TFM3** 188; tree; lowland forest; once from Sg Kayu Ara, Jh; endemic.
- 143.10.20 **Syzygium cordifoliatum** (Ridl.) I.M. Turner, **T22** 15; *Eugenia cordifoliata* Ridl., **FMP1** 736, **H36** 95, **TFM3** 188 'cordifoliolata'; tree; once from Pk; endemic.
- 143.10.21a **Syzygium curtisii** (King) Merr. & L.M. Perry var. **curtisii**, **T22** 15, **M34** 182; *Eugenia curtisii* King, **FMP1** 749, **H36** 174, **TFM3** 188; tree to 25 m tall; lowland forest; Kl, Pk, Jh.
- 143.10.21b **Syzygium curtisii** (King) Merr. & L.M. Perry var. **holttumii** (Ridl.) I.M. Turner, **T22** 15; *Eugenia holttumii* Ridl., **FMP5** 309; *Eugenia curtisii* King var. *holttumii* (Ridl.) M.R. Hend., **H36** 176, **TFM3** 189; montane forest; Ph; endemic variety.
- 143.10.21c **Syzygium curtisii** (King) Merr. & L.M. Perry var. **minus** (King) I.M. Turner, **T22** 15; *Eugenia curtisii* King var. *minor* King, **FMP1** 749, **H36** 175, **TFM3** 189; lowland forest; Pk, Ph, Ml; endemic variety.
- 143.10.22 **Syzygium cyrtophylloides** (Ridl.) I.M. Turner, **T22** 15; *Eugenia cyrtophylloides* Ridl., **FMP1** 749, **H36** 167, **TFM3** 189; tree; montane forest; once from Gg Tahan, Ph; endemic.
- 143.10.23 **Syzygium diospyrifolium** (Wall. *ex* Duthie) S.N. Mitra, **C04** 57, **T22** 15; *Eugenia diospyrifolia* Wall. *ex* Duthie, **H36** 67, **TFM3** 190; small tree; lowland and hill forest; Kd, Pn, Tg, Ph.
- 143.10.24 **Syzygium duthieanum** (King) Masam., **C04** 58, **T22** 15; *Eugenia duthieana* King, **FMP1** 731, **H36** 118, **TFM3** 190; tree to 36 m tall; lowland and hill forest; Kd, Pn, Tg, Pk, Ph, Jh, Sp; endemic.

- 143.10.25 *Syzygium dyerianum* (King) P. Chantaranothai & J. Parn., **C03** 596, **C04** 59, **T22** 15; *Eugenia dyeriana* King, **FMP1** 732 incl. var. *oblonga* King, **H36** 126, **TFM3** 190; *Eugenia corrugata* King, **FMP1** 732; *Eugenia atronervia* M.R. Hend., **H34** 91; tree to 24 m tall; lowland to lower montane forest at 1300 m; common throughout.
- 143.10.26 *Syzygium fastigiatum* (Blume) Merr. & L.M. Perry, **M34** 152, **M33** 389, **C04** 60, **T22** 15; *Eugenia fastigiata* (Blume) Koord. & Valetton, **H36** 190, **TFM3** 191; *Eugenia bracteolata* Wight, **FMP1** 747; tree to 25 m tall; lowland and hill forest; widespread.
- 143.10.27a *Syzygium filiforme* (Wall. ex Duthie) P. Chantaranothai & J. Parn. var. *clavimyrta* (Koord. & Valetton) I.M. Turner, **T22** 15; *Eugenia filiformis* Wall. ex Duthie var. *clavimyrta* (Koord. & Valetton) M.R. Hend., **H36** 147, **TFM3** 191; tree; lowland and hill forest; Pn to Sp.
- 143.10.27b *Syzygium filiforme* (Wall. ex Duthie) P. Chantaranothai & J. Parn. var. *constrictum* (Kochummen) I.M. Turner, **T22** 15; *Eugenia filiformis* Wall. ex Duthie var. *constricta* Kochummen, **TFM3** 191; tree; hill forest; once from Ulu Gombak F.R., Sl; endemic variety.
- 143.10.27c *Syzygium filiforme* (Wall. ex Duthie) P. Chantaranothai & J. Parn. var. *filiforme*, **C03** 598, **C04** 61; *Eugenia filiformis* Wall. ex Duthie, **FMP1** 740, **H36** 145, **TFM3** 191; tree to 42 m tall; lowland forest; Pk to Sp.
- 143.10.28 *Syzygium flosculiferum* (M.R. Hend.) Sreekl., **T22** 15; *Eugenia flosculifera* M.R. Hend., **H36** 237, **TFM3** 191; tree to 45 m tall; lowland and hill forest; Kd, Pk, Ph, Sl, Ml, Jh, Sp.
- 143.10.29 *Syzygium foxworthianum* (Ridl.) Merr. & L.M. Perry, **M32** 168, **C04** 63, **T22** 15, *Eugenia densiflora* (Blume) Miq. var. *angustifolia* Ridl., **FMP1** 729, **H36** 79, **TFM3** 189; *Eugenia foxworthyi* (non Elmer) Ridl., **FMP1** 728; *Eugenia foxworthiana* Ridl., **FMP5** 308; small bushy tree; riverbanks; Kl, Tg, Pk, Ph.
- 143.10.30 *Syzygium fusticuliferum* (Ridl.) Merr. & L.M. Perry, **M34** 184, **T22** 15; *Eugenia fusticulifera* Ridl., **H36** 246, **TFM3** 192; tree to 15 m tall; lowland forest; once from near Rompin, Ph.
- 143.10.31 *Syzygium gageanum* (King) I.M. Turner, **T22** 15; *Eugenia gageana* King, **FMP1** 729, **H36** 133, **TFM3** 192; tree to 15 m tall; lowland forest; once from near Larut, Pk; endemic.
- 143.10.32 *Syzygium garcinifolium* (King) Merr. & L.M. Perry, **M34** 167, **T22** 15; *Eugenia garcinifolia* King, **FMP1** 730, **H36** 83, **TFM3** 192; tree to 39 m tall; lowland and hill forest; Kl, Tg, Pk, Sl, NS, Jh.

- 143.10.33 **Syzygium glaucum** (King) P. Chantaranothai & J. Parn., **C03** 598, **C04** 66, **T22** 15; *Eugenia glauca* King, **FMP1** 737, **H36** 112, **TFM3** 193; *Eugenia pseudoglauca* (King) Ridl., **FMP1** 737; *Eugenia glauca* King var. *pseudoglauca* King, **H36** 113, **TFM3** 193; tree to 45 m tall; lowland forest; Kd, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 143.10.34 **Syzygium goodenovii** (King) Masam., **T22** 15; *Eugenia goodenovii* King, **FMP1** 731 in part, **H36** 172, **TFM3** 193; tree to 27 m tall; lowland forest; Pk, NS, Ml; endemic.
- 143.10.35 **Syzygium gracile** (Korth.) Amsh., **M33** 392, **T22** 15; *Eugenia virens* (Blume) Koord. & Valetton, **H36** 249, **TFM3** 222; *Eugenia fusiformis* Duthie, **FMP1** 727; *Syzygium fusiforme* (Duthie) Merr. & L.M. Perry, **M34** 176; tree to 30 m tall; lowland forest; Pk, Ml, Jh, Sp.
- 143.10.36 **Syzygium graeme-andersoniae** (Ridl.) I.M. Turner, **T22** 15; *Eugenia graeme-andersoniae* Ridl., **FMP1** 743, **H36** 111, **TFM3** 193; tree to 6 m tall; lowland river banks; Kl, Ph; endemic.
- 143.10.37 **Syzygium grande** (Wight) Walp., **T22** 15, **M34** 176, **C04** 68; *Eugenia grandis* Wight, **FMP1** 729, **H36** 87, **TFM3** 195; tree to 30 m tall; sandy and rocky coasts, also widely planted; throughout.
- 143.10.38 **Syzygium gratum** (Wight) S.N. Mitra, **C04** 70, **T22** 15; *Eugenia grata* Wight, **FMP1** 739, **H36** 233; *Eugenia spicata* auct. non Lam., **TFM3** 217 in part; tree to 20 m tall; mostly on rocky and sandy shore; widespread.
- 143.10.39 **Syzygium griffithii** (Duthie) Merr. & L.M. Perry, **M34** 174, **T22** 15; *Eugenia griffithii* Duthie, **FMP1** 731, **H36** 120, **TFM3** 195; tree to 36 m tall; lowland and hill forests; Kd to Sp.
- 143.10.40 **Syzygium haniffii** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia haniffii* M.R. Hend., **H36** 139, **TFM3** 195; tree to 18 m tall; hill forest; Pn, Sl; endemic.
- 143.10.41 **Syzygium helferi** (Duthie) P. Chantaranothai & J. Parn., **C03** 599, **C04** 73, **T22** 15; *Eugenia helferi* Duthie, **FMP1** 735, **H36** 109, **TFM3** 196; tree to 18 m tall; rocky forest, often near the sea; P. Langkawi, Kd, Pn.
- 143.10.42 **Syzygium hemsleyanum** (King) P. Chantaranothai & J. Parn., **C03** 599, **T22** 15; *Eugenia hemsleyana* King, **FMP1** 732, **H36** 129, **TFM3** 196; tree to 10 m tall; lowland forest; Pk, Ph.
- 143.10.43 **Syzygium hendersonii** Merr., **M33** 369, **T22** 15; *Eugenia auriculata* Ridl., **FMP1** 726, **H36** 54, **TFM3** 183; tree; lowland forest; once from near Lumut, Pk; endemic.
- 143.10.44 **Syzygium hoseanum** (King) Merr. & L.M. Perry, **M34** 150, **T22** 15; *Eugenia hoseana* King, **FMP1** 733, **H36** 103, **TFM3** 196; tree to 15 m tall; lowland and hill forest; Pk, Jh.

- 143.10.45 *Syzygium hulletianum* (King) P. Chantaranothai & J. Parn., **C03** 601, **C04** 75, **T22** 15; *Eugenia hulletiana* King, **FMP1** 735; tree; lowland forest; Pk.
- 143.10.46 *Syzygium inasense* (King) I.M. Turner, **T22** 15; *Eugenia inasensis* King, **FMP1** 751, **H36** 100, **TFM3** 196; small tree; montane forest at 1700 m; thrice from Gg Inas, Pk; endemic.
- 143.10.47a *Syzygium inophyllum* DC. var. *bernardii* (King) I.M. Turner, **T22** 15; *Eugenia bernardii* King, **H36** 142; *Eugenia inophylla* (DC.) Roxb. var. *bernardii* (King) Ridl., **FMP1** 750, **TFM3** 197; tree; lowland to montane forest; Pn, Pk, Ph, Sl; endemic variety.
- 143.10.47b *Syzygium inophyllum* DC. var. *inophyllum*, **M34** 188; *Eugenia inophylla* (DC.) Roxb., **FMP1** 750, **H36** 141, **TFM3** 197; tree to 24 m tall; lowland to montane forest; throughout.
- 143.10.48 *Syzygium jasminifolium* (Ridl.) P. Chantaranothai & J. Parn., **C03** 602, **C04** 78, **T22** 15; *Eugenia jasminifolia* Ridl., **FMP1** 740, **H36** 223, **TFM3** 197; small bushy tree; montane forest; Kl, Tg, Pk, Ph, NS, Ml, Jh.
- 143.10.49 *Syzygium kemamanense* (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia kemamanensis* M.R. Hend., **H36** 93, **TFM3** 198 'kemamensis'; tree to 18 m tall; lowland forest; Kl, Tg, Ph, Sl; endemic.
- 143.10.50a *Syzygium kiahii* (M.R. Hend.) I.M. Turner var. *angustifolium* (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia kiahii* M.R. Hend. var. *angustifolia* M.R. Hend., **H36** 116, **TFM3** 198; tree; lowland swamp forest; Jh; endemic.
- 143.10.50b *Syzygium kiahii* (M.R. Hend.) I.M. Turner var. *kiahii*, **T22** 15; *Eugenia kiahii* M.R. Hend., **H36** 115, **TFM3** 198; tree to 27 m tall; lowland forest including swamps; Tg, Ph, Sl, Jh; endemic.
- 143.10.51 *Syzygium klossii* (Ridl.) Masam., **T22** 15; *Eugenia klossii* Ridl., **FMP1** 744, **H36** 179, **TFM3** 198; tree; forest; known only from type, Rantau Panjang, Sl; endemic.
- 143.10.52 *Syzygium koordersianum* (King) I.M. Turner, **T22** 15; *Eugenia koordersiana* King, **FMP1** 732, **H36** 212, **TFM3** 198; tree to 39 m tall; lowland forest; widespread; endemic.
- 143.10.53 *Syzygium kunstleri* (King) Bahadur & R.C. Gaur, **T22** 15; *Eugenia kunstleri* King, **FMP1** 746, **H36** 209, **TFM3** 199; tree to 30 m tall; lowland and hill forest; Kd, Pn, Pk, Tg, Jh, Sp.
- 143.10.54 *Syzygium leptostemon* (Korth.) Merr. & L.M. Perry, **M34** 156, **C04** 82, **T22** 15; *Eugenia urceolata* [non (Korth.) Cordem.] King, **FMP1** 742; *Eugenia leptostemon* (Korth.) Miq., **H36** 201, **TFM3** 199; tree to 21 m tall; lowland to montane forest; Kd to Sp.

- 143.10.55 **Syzygium leucoxyllum** Korth., **M34** 193, **M33** 398, **T22** 15; *Eugenia leucoxyllum* (Korth.) Miq., **H36** 235, **TFM3** 199; *Eugenia verecunda* Duthie, **FMP1** 748 incl. var. major Ridl.; tree to 15 m tall; sea coasts and tidal rivers; Pn, Tg, Pk, Ph, Jh, Sp.
- 143.10.56 **Syzygium lineatum** (DC.) Merr. & L.M. Perry, **C04** 83, **T22** 15; *Eugenia longiflora* (C. Presl) Fern.-Vill., **H36** 159, **TFM3** 201; *Eugenia lineata* [non DC.] (Blume) Duthie, **FMP1** 738; tree to 22 m tall; secondary forests and open country in the lowlands; common throughout.
- 143.10.57 **Syzygium linocerooides** (King) I.M. Turner, **T22** 15; *Eugenia linoceroidea* King, **FMP1** 749, **H36** 163, **TFM3** 201; tree to 18 m tall; lowland forest; Pk, Sl, Sp; endemic.
- 143.10.58 **Syzygium maingayi** P. Chantaranonthai & J. Parn., **C03** 605, **C04** 84, **T22** 15; *Eugenia oblongifolia* Duthie, **FMP1** 744 incl. var. *parviflora* King, **H36** 184, **TFM3** 204; tree to 40 m tall; lowland and hill forest; Kd, Tg, Pk, Ph, NS, MI, Sp.
- 143.10.59 **Syzygium malayanum** (Gagnep.) I.M. Turner, **T22** 15; *Eugenia malayana* Gagnep., **H36** 50, **TFM3** 201; tree to 9 m tall; lowland forest; Kl, Tg; endemic.
- 143.10.60 **Syzygium millsii** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia millsii* M.R. Hend., **H36** 92, **TFM3** 202; tree to 20 m tall; lowland forest; Kd, Ph, Sl; endemic.
- 143.10.61 **Syzygium muelleri** (Miq.) Miq., **M36** 186, **C04** 88, **T22** 15; *Eugenia muelleri* Miq., **H36** 186, **TFM3** 202; *Eugenia venulosa* Duthie, **FMP1** 746; tree to 22 m tall; lowlands, often near streams; Pk to Sp.
- 143.10.62 **Syzygium myrianthum** (King) I.M. Turner, **T22** 15; *Eugenia myriantha* King, **FMP1** 745, **H36** 209, **TFM3** 202; tall tree; once from Pk; endemic.
- 143.10.63 **Syzygium napiforme** (Koord. & Valetton) Merr. & L.M. Perry, **M34** 183, **T22** 15; *Eugenia napiformis* Koord. & Valetton, **H36** 247, **TFM3** 203; tree to 36 m tall; lowland and hill forest; Tg, Pk, Ph, Sl, NS, Jh.
- 143.10.64 **Syzygium nemestrinum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia nemestrina* M.R. Hend., **H36** 192, **TFM3** 203; tree to 39 m tall; lowland and hill forest; Tg, Ph, Sp; endemic.
- 143.10.65 **Syzygium ngadimanianum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia ngadimaniana* M.R. Hend., **H36** 108, **TFM3** 203; tree to 27 m tall; lowland forest; Kl, Jh, Sp; endemic.
- 143.10.66 **Syzygium nigricans** (King) Merr. & L.M. Perry, **M34** 194, **T22** 15; *Eugenia nigricans* King, **FMP1** 751, **H36** 194, **TFM3** 203; tree to 39 m tall; lowland and hill forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, MI, Jh, Sp.

- 143.10.67 **Syzygium nitidulum** (Ridl.) I.M. Turner, **T22** 15; *Eugenia nitidula* Ridl., **FMP5** 308, **H36** 226, **TFM3** 204; shrub or small tree to 15 m tall; montane forest; Pk, Ph; endemic.
- 143.10.68a **Syzygium oblatum** (Duthie) Wall. ex A.M. Cowan & Cowan var. **laevicaule** (Duthie) P. Chantaranothai & J. Parn., **C04** 91, **T22** 15; *Eugenia oblata* auct. non Roxb., **FMP1** 749 in part; *Eugenia laevicaulis* Duthie, **H36** 138, **TFM3** 199; tree to 21 m tall; lowland forest; Kd, Pn, Kl, Ml, Jh; endemic.
- 143.10.68b **Syzygium oblatum** (Roxb.) Wall. ex A.M. Cowan & Cowan var. **oblatum**, **M34** 187, **T22** 15; *Eugenia oblata* Roxb., **FMP1** 749, **H36** 136, **TFM3** 204; *Eugenia limnaea* Ridl., **FMP1** 729; *Eugenia laxiuscula* Ridl., **FMP1** 750; *Eugenia brantiana* M.R. Hend., **H36** 145; shrub or tree to 24 m tall; lowland forest, mostly near the sea; Kl to Jh.
- 143.10.69 **Syzygium oreophilum** (Ridl.) I.M. Turner, **T22** 15; *Eugenia oreophila* Ridl., **FMP1** 753, **H36** 61, **TFM3** 205; *Eugenia jugalis* Ridl., **FMP1** 727; shrub to 8 m tall; ridges above 1300 m; Pk, Ph, Sl; endemic.
- 143.10.70 **Syzygium orites** (Ridl.) I.M. Turner, **T22** 15; *Eugenia orites* Ridl., **FMP5** 308, **H36** 214, **TFM3** 205; shrub or small tree; montane forest; Gg Tapis, Ph; Gg Belumut, Jh; endemic.
- 143.10.71 **Syzygium pachyphyllum** (Kurz) Merr. & L.M. Perry, **M34** 168, **C04** 92, **T22** 15; *Eugenia pachyphylla* Kurz, **FMP1** 733, **H36** 90, **TFM3** 206; tree to 13 m tall; lowland forest; Kd and Kl to Sp.
- 143.10.72a **Syzygium pahangense** (Ridl.) I.M. Turner var. **fraseri** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia pahangense* Ridl. var. *fraseri* M.R. Hend., **H36** 102, **TFM3** 206; small tree; montane forest; once from Fraser's Hill, Ph; endemic.
- 143.10.72b **Syzygium pahangense** (Ridl.) I.M. Turner var. **pahangense**, **T22** 15; *Eugenia pahangensis* Ridl. var. *pahangensis*, **FMP1** 751, **H36** 101, **TFM3** 206; small tree; montane forest; Gg Tahan, Ph; endemic.
- 143.10.73 **Syzygium palembanicum** Miq., **T22** 15; *Eugenia palembanica* (Miq.) Merr., **H36** 85, **TFM3** 206; *Eugenia lepidocarpa* Kurz, **FMP1** 730; *Eugenia selangorensis* Ridl., **FMP1** 730, **H36** 84; tree to 24 m tall; lowland to montane forest; Tg to Sp.
- 143.10.74 **Syzygium pallidulum** (Ridl.) I.M. Turner, **T22** 15; *Eugenia pallidula* Ridl., **FMP1** 748, **H36** 192, **TFM3** 207; tree to 21 m tall; lowland forest; Pk, Ph; endemic.
- 143.10.75 **Syzygium papillosum** (Duthie) Merr. & L.M. Perry, **M34** 157, **C04** 93, **T22** 15; *Eugenia papillosa* Duthie, **FMP1** 730, **H36** 77, **TFM3** 207; stilt-rooted tree to 21 m tall; swampy lowland forest; Pk and Tg to Sp.

- 143.10.76 *Syzygium pauper* (Ridl.) I.M. Turner, **T22** 15; *Eugenia pauper* Ridl., **FMP1** 745, **H36** 178, **TFM3** 207; small tree to 7 m tall; lowland and hill forest; NS, Jh, Sp; endemic.
- 143.10.77 *Syzygium pearsonianum* (King) I.M. Turner, **T22** 15; *Eugenia pearsoniana* King, **H36** 134, **TFM3** 207; *Eugenia prainiana* King var. *pearsoniana* (King) Ridl., **FMP1** 751; tree to 30 m tall; lowland forest; Pk, Jh; endemic.
- 143.10.78 *Syzygium pendens* (Duthie) I.M. Turner, **T22** 15; *Eugenia pendens* Duthie, **FMP1** 726, **H36** 71, **TFM3** 209; small tree; lowland forest; Kl and Pk to Sp; endemic.
- 143.10.79 *Syzygium perakense* (King) I.M. Turner, **T22** 15; *Eugenia perakensis* King, **FMP1** 726, **H36** 51, **TFM3** 209; stilt-rooted tree to 15 m tall; swampy lowland forest, river banks; Pk, Sl; endemic.
- 143.10.80 *Syzygium pergamentaceum* (King) P. Chantaranonthai & J. Parn., **C03** 607, **C04** 94, **T22** 15; *Eugenia pergamentacea* King, **FMP1** 732, **H36** 130, **TFM3** 209; tree to 10 m tall; lowland forest; Kd, Pn, Pk.
- 143.10.81 *Syzygium perryae* I.M. Turner; *Eugenia benjamina* King, **FMP1** 734, **H34** 152, **TFM3** 184; shrub or small tree; hill and montane forest; Pk; endemic.
- 143.10.82 *Syzygium plumbeum* (King) I.M. Turner, **T22** 15; *Eugenia plumbea* King, **FMP1** 727, **H36** 63, **TFM3** 209; tree; montane forest at 1200 m; once from Gg Batu Puteh, Pk; endemic.
- 143.10.83 *Syzygium politum* (King) I.M. Turner, **T22** 15; *Eugenia polita* King, **FMP1** 739, **H36** 221, **TFM3** 210; shrub or small tree sometimes to 25 m tall; lowland and hill forest; Kd, Pn, Pk, Ph, Sl, Ml, Jh; endemic.
- 143.10.84a *Syzygium polyanthum* (Wight) Walp. var. *polyanthum*, **M34** 155, **M33** 409, **C04** 95, **T22** 15; *Eugenia polyantha* Wight, **FMP1** 742, **H36** 211, **TFM3** 210; *Eugenia balsamea* auct. non Wight, **FMP1** 754; tree to 30 m tall; lowland forest; P. Langkawi & Kl to Sp.
- 143.10.84b *Syzygium polyanthum* (Wight) Walp. var. *sessile* (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia polyantha* Wight var. *sessilis* M.R. Hend., **H36** 212, **TFM3** 210; tree; lowland swamp forest; once from Sg Kayu, Jh; endemic variety.
- 143.10.85 *Syzygium praestigiosum* (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia praestigiosa* M.R. Hend., **H36** 158, **TFM3** 210; tree; once from Pk; endemic.
- 143.10.86 *Syzygium prainianum* (King) P. Chantaranonthai & J. Parn., **C03** 608, **T22** 15; *Eugenia prainiana* King, **FMP1** 750, **H36** 133, **TFM3** 210; tree to 48 m tall; lowland forest; Kd, Kl, Pk, Ph, Sl.

- 143.10.87 **Syzygium porphyrantherum** (Ridl.) I.M. Turner, **T22** 15; *Eugenia porphyranthera* Ridl., **FMP1** 727, **H36** 59, **TFM3** 211 '*prophyranthera*'; small tree; hill forest; Ph, Sl; endemic.
- 143.10.88 **Syzygium pseudoclaviflorum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia pseudoclaviflora* M.R. Hend., **H36** 252, **TFM3** 211; tree to 7 m tall; lowland forest; base of Gg Tahan, Ph; endemic.
- 143.10.89 **Syzygium pseudocrenulatum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia pseudocrenulata* M.R. Hend., **H36** 216, **TFM3** 211; *Eugenia crenulata* (non Willd.) Duthie, **FMP1** 751; stilt-rooted tree to 24 m tall; lowland forest; Tg, Pk, NS, Ml, Sp; endemic.
- 143.10.90 **Syzygium pseudoformosum** (King) Merr. & L.M. Perry, **M34** 165, **C04** 98, **T22** 15; *Eugenia pseudoformosa* King, **FMP1** 725 in part, **H36** 69, **TFM3** 211; tree to 10 m tall; lowland to montane forest: Tg and Pk to Sp.
- 143.10.91 **Syzygium pseudomolle** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia pseudomollis* M.R. Hend., **H36** 75, **TFM3** 212; *Eugenia mollis* (non Willd. ex Berg.) King, **FMP1** 728; shrub or small tree; lowland forest; Pk.
- 143.10.92 **Syzygium pulaiense** I.M. Turner, **T22** 15; *Eugenia johorensis* Ridl., **FMP1** 725, **H36** 73, **TFM3** 197; tree; once from Gg Pulai, Jh; endemic.
- 143.10.93 **Syzygium pustulatum** (Duthie) Merr., **M33** 421, **T22** 15; *Eugenia pustulata* Duthie, **FMP1** 736, **H36** 188, **TFM3** 212; tree to 24 m tall; lowland forest; Kd to Sp.
- 143.10.94 **Syzygium pycnanthum** Merr. & L.M. Perry, **M34** 168, **C04** 100, **T22** 15; *Eugenia densiflora* (Blume) Miq., **FMP1** 728, **H36** 78, **TFM3** 189; tree to 21 m tall; lowland forests, seashores; Pn and Tg to Sp.
- 143.10.95 **Syzygium pyrifolium** (Blume) DC., **M34** 182, **C04** 100, **T22** 15; *Eugenia pyrifolia* [non Desv.] (Blume) Duthie, **FMP1** 738; *Eugenia tumida* Duthie, **H36** 161, **TFM3** 221; tree to 18 m tall; lowlands; Kd to Sp.
- 143.10.96 **Syzygium quadratum** (King) I.M. Turner, **T22** 15; *Eugenia quadrata* King, **FMP1** 730, **H36** 55, **TFM3** 214; tree to 10 m tall; lowland forest; once from near Larut, Pk; endemic.
- 143.10.97 **Syzygium quadribracteatum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia quadribracteata* M.R. Hend., **H36** 166, **TFM3** 214; tree to 21 m tall; lowland forest; Pn, Kl, Tg, Pk, Ph, Jh; endemic.
- 143.10.98 **Syzygium rhomboideum** (Ridl.) I.M. Turner, **T22** 15; *Eugenia rhomboidea* Ridl., **FMP1** 753, **H36** 80, **TFM3** 214; shrub or small tree to 12 m tall; montane forest at 1300 m; only known from Gg Mengkuang, Sl; endemic.

- 143.10.99 **Syzygium ridleyi** (King) P. Chantaranothai & J. Parn., **C03** 608, **C04** 102, **T22** 15; *Eugenia ridleyi* King, **FMP1** 735, **H36** 125, **TFM3** 214; tree to 30 m tall; lowland forest; Kd to Sp.
- 143.10.100 **Syzygium rostadonis** (Ridl.) I.M. Turner, **T22** 15; *Eugenia rostadonis* Ridl., **FMP1** 727, **H36** 65, **TFM3** 215; ?tree; lowland forest; once from Bundi, Tg; endemic.
- 143.10.101a **Syzygium rugosum** Korth. var. **cordatum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia rugosa* (Korth.) Merr. var. *cordata* M.R. Hend., **H36** 246, **TFM3** 215; tree; montane forest; Kl, Ph, Sl; endemic variety.
- 143.10.101b **Syzygium rugosum** Korth. var. **rugosum**, **M34** 185; *Eugenia rugosa* (Korth.) Merr., **H36** 244 incl. var. *saxitana* (Ridl.) M.R. Hend., **TFM3** 215; *Eugenia goodenovii* King, **FMP1** 731 in part; *Eugenia johorensis* (non Ridl.) Ridl., **FMP5** 308; tree to 38 m tall; lowland and hill forest; Ps, Kd, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 143.10.102 **Syzygium salictoides** (Ridl.) I.M. Turner, **T22** 15; *Eugenia salictoides* Ridl., **FMP1** 728, **H36** 82, **TFM3** 215; rheophytic shrub; in and near streams; Tg, Ph; endemic.
- 143.10.103 **Syzygium scalarinerve** (King) I.M. Turner, **T22** 15; *Eugenia scalarinervis* King, **H36** 57, **TFM3** 216; tree to 10 m tall; lowland forest; Pk; endemic.
- 143.10.104a **Syzygium scortechinii** (King) P. Chantaranothai & J. Parn. var. **cuneatum** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia scortechinii* King var. *cuneata* M.R. Hend., **H36** 67, **TFM3** 216; lowland forest; Tg, Ph, Sl, NS, Jh; endemic variety.
- 143.10.104b **Syzygium scortechinii** (King) P. Chantaranothai & J. Parn. var. **scortechinii**, **C03** 609, **C04** 107, **T22** 15; *Eugenia scortechinii* King, **FMP1** 725 incl. var. *parvifolia* King, **H36** 66, **TFM3** 216; tree to 16 m tall; lowland forest; Pn to Jh.
- 143.10.105 **Syzygium setosum** (King) I.M. Turner, **T22** 15; *Eugenia setosa* King, **FMP1** 755, **H36** 176, **TFM3** 216; shrub or small tree; peatswamp forest mostly; Pk, Sl; endemic.
- 143.10.106 **Syzygium siamense** (Craib) P. Chantaranothai & J. Parn., **C03** 609, **C04** 108, **T22** 15; *Eugenia siamensis* Craib, **FMP1** 726, **H36** 59, **TFM3** 217; shrub or small tree to 15 m tall; lowland forest; north Malaya.
- 143.10.107 **Syzygium singaporense** (King) Airy Shaw, **A02** 124, **T22** 15; *Aphanomyrtus rostrata* Miq., **M32** 109; *Pseudoeugenia singaporensis* King, **FMP1** 755, **TFM3** 250; tree to 27 m tall; lowland forest; Kd, Pk, Ph, Sl, Jh, Sp.

- 143.10.108 *Syzygium skiophilum* (Duthie) Airy Shaw, **A02** 124, **T22** 15; *Aphanomyrtus skiophila* (Duthie) Valetton, **M32** 110; *Pseudoeugenia perakiana* Scort., **FMP1** 755, **TFM3** 250; tree to 5 m tall; lowland to montane forest; Pn, Kl, Pk, Ph.
- 143.10.109 *Syzygium spissifolium* (Ridl.) I.M. Turner, **T22** 15; *Eugenia spissifolia* Ridl., **FMP1** 753, **H36** 235, **TFM3** 217; shrub; montane forest at 1500 m; once from Gg Mengkuang, Sl; endemic.
- 143.10.110 *Syzygium stapfianum* (King) I.M. Turner, **T22** 15; *Eugenia stapfiana* King, **FMP1** 753, **H36** 228, **TFM3** 217; shrub or small tree to 8 m tall; montane forest; Kl, Tg, Pk, Ph, Sl; endemic.
- 143.10.111a *Syzygium subdecussatum* (Wall. ex Duthie) I.M. Turner var. **montanum** (King) I.M. Turner, **T22** 15; *Eugenia subdecussata* Duthie var. *montana* King, **FMP1** 752, **H36** 97, **TFM3** 218; montane forest, rarely in the lowlands; throughout.
- 143.10.111b *Syzygium subdecussatum* (Wall. ex Duthie) I.M. Turner var. **subdecussatum**, **T22** 15; *Eugenia subdecussata* Duthie, **FMP1** 752 incl. var. *colorata* King, **H36** 95, **TFM3** 218; tree to 30 m tall; lowland forest and rocky shores; common throughout.
- 143.10.112 *Syzygium subhorizontale* (King) P. Chantaranothai & J. Parn., **C03** 590, **T22** 15; *Eugenia subhorizontalis* King, **FMP1** 733, **H36** 124, **TFM3** 218; small tree; lowland forest; Pk, NS.
- 143.10.113 *Syzygium subrufum* (King) Masam., **C04** 110, **T22** 15; *Eugenia subrufa* King, **FMP1** 733 incl. var. *robusta* King; tree.
- 143.10.114 *Syzygium swettenhamianum* (King) I.M. Turner, **T22** 15; *Eugenia swettenhamiana* King, **FMP1** 755, **H36** 124, **TFM3** 218; tree to 21 m tall; once from near Gg Pondok, Pk; endemic.
- 143.10.115 *Syzygium syzygioides* (Miq.) Merr. & L.M. Perry, **M34** 171, **C04** 111; *Eugenia syzygioides* (Miq.) M.R. Hend., **H36** 154, **TFM3** 219; *Eugenia cymosa* auct. non Lam., **FMP1** 737 in part; *Eugenia pseudosyzygioides* M.R. Hend., **H36** 157; tree to 30 m tall; lowlands, often near sandy coasts; common throughout.
- 143.10.116 *Syzygium tahanense* (Ridl.) I.M. Turner, **T22** 15; *Eugenia tahanensis* Ridl., **FMP1** 752, **H36** 102, **TFM3** 219; shrub; high montane forest; Gg Tahan, Ph; endemic.
- 143.10.117 *Syzygium taipingense* (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia taipingensis* M.R. Hend., **H36** 193, **TFM3** 219; shrub or small tree; lowland forest; only known from near Taiping, Pk; endemic.

- 143.10.118 **Syzygium tectum** (King) I.M. Turner, **T22** 15; *Eugenia tecta* King, **FMP1** 739, **H36** 223, **TFM3** 220; tree; montane forest; Pk, Ph; endemic.
- 143.10.119 **Syzygium tekunense** (M.R. Hend.) I.M. Turner, **T22** 15; *Eugenia tekunensis* M.R. Hend., **H36** 48, **TFM3** 220; *Eugenia trunciflora* (non G. Don) Ridl., **FMP1** 724; small cauliflorous tree to 13 m tall; lowland forest; known only from Kuala Teku, Ph; endemic.
- 143.10.120 **Syzygium tenuifolium** (Ridl.) Airy Shaw, **A02** 124, **T22** 15; *Aphanomyrtus tenuifolia* (Ridl.) Merr., **M32** 110; *Pseudoengenia tenuifolia* Ridl., **TFM3** 250; tree to 6 m tall; lowland forest; once each from Kemasul F.R., Ph, and Sg Lalang F.R., Sl; endemic.
- 143.10.121a **Syzygium tetrapterum** (Miq.) P. Chantaranothai & J. Parn. var. **pseudotetrapterum** (King) I.M. Turner, **T22** 15; *Eugenia pseudotetraptera* King, **FMP1** 739; *Eugenia tetraptera* (Miq.) M.R. Hend. var. *pseudotetraptera* (King) M.R. Hend., **H36** 220, **TFM3** 220; *Syzygium pseudotetrapterum* (King) P. Chantaranothai & J. Parn., **C03** 590; tree to 9 m tall; mostly in the mountains; Ph, Jh.
- 143.10.121b **Syzygium tetrapterum** (Miq.) P. Chantaranothai & J. Parn. var. **tetrapterum**, **C03** 590; *Eugenia tetraptera* (Miq.) M.R. Hend., **H36** 218, **TFM3** 220; shrub; lowland forest; Sg Buloh F.R., Sl.
- 143.10.122 **Syzygium thumra** (Roxb.) Merr. & L.M. Perry var. **penangianum** (King) I.M. Turner; *Eugenia thumra* Roxb. var. *penangiana* King, **FMP1** 734, **H34** 121, **TFM3** 220; tree; hill forest; twice from Penang Hill; endemic variety.
- 143.10.123 **Syzygium tiumanense** (Ridl.) I.M. Turner, **T22** 15; *Eugenia tinmanensis* Ridl., **FMP1** 725, **H36** 70, **TFM3** 221; large tree; lowland forest; twice from P. Tioman; endemic.
- 143.10.124 **Syzygium urophyllum** Merr., **M33** 369; *Eugenia candata* King, **FMP1** 740, **H36** 148, **TFM3** 185; *Syzygium enervosum* P. Chantaranothai & J. Parn. *nom. superfl.*, **C03** 596; shrub or small tree to 12 m tall; hill and montane forest, often on high ridges; Pn, Tg, Pk, Ph, Sl; endemic.
- 143.10.125 **Syzygium valdevenosum** (Duthie) Merr. & L.M. Perry, **M34** 182, **T22** 15; *Eugenia valdevenosa* Duthie, **FMP1** 743, **H36** 180, **TFM3** 221; *Eugenia alata* Ridl., **FMP1** 743; tree to 9 m tall; lowland and hill forest; Pn to Jh.
- 143.10.126 **Syzygium variolosum** (King) P. Chantaranothai & J. Parn., **C03** 590, **T22** 15; *Eugenia variolosa* King, **FMP1** 736, **H36** 105, **TFM3** 221; shrub or small tree to 6 m tall; lowland forest; Pk, Sl; endemic.
- 143.10.127 **Syzygium viridescens** (Ridl.) I.M. Turner, **T22** 15; *Eugenia viridescens* Ridl., **FMP1** 752, **H36** 97, **TFM3** 222; shrub; montane forest at 1500 m; only known from Gg Tahan, Ph; endemic.

- 143.10.128 **Syzygium wrayi** (King) I.M. Turner, **T22** 15; *Eugenia wrayi* King, **FMP1** 753, **H36** 98, **TFM3** 222; shrub or small tree; montane forest above 1500 m; Pk, Ph, Sl; endemic.
- 143.10.129 **Syzygium zeylanicum** (L.) DC., **M34** 159, **C04** 118, **T22** 15; *Eugenia zeylanica* (*non* Willd.) Wight, **FMP1** 738; *Eugenia spicata* Lam., **H36** 231 incl. var. *tenuiramis* (Miq.) M.R. Hend., **TFM3** 217; *Eugenia longicaudata* Ridl., **FMP1** 752; shrub or tree to 18 m tall; sea shores and river banks, rarely in the mountains; Kd and Tg to Sp.
- 143.10.130 **Eugenia sp. 1**, **TFM3** 224; tree to 27 m tall; lowland forest; Jh; ?endemic.
- 143.10.131 **Eugenia sp. 2**, **TFM3** 224; tree to 15 m tall; lowland forest; once from Jh; ?endemic.
- 143.10.132 **Eugenia sp. 3**, **TFM3** 224; tree to 27 m tall; bamboo forest; once from Ps; ?endemic.
- 143.10.133 **Eugenia sp. 4**, **TFM3** 224; tree to 27 m tall; lowland and hill forest; Tg, Ph, Sl; ?endemic.
- 143.10.134 **Eugenia sp. 5**, **TFM3** 225; tree to 12 m tall; hill forest; Sl, Jh; ?endemic.
- 143.10.135 **Eugenia sp. 6**, **TFM3** 225; ?tree; once from Sepang, Sl; ?endemic.
- 143.10.136 **Eugenia sp. 7**, **TFM3** 225; tree to 27 m tall; lowland forest; Pk, Sl; ?endemic.
- 143.10.137 **Eugenia sp. 8**, **TFM3** 225; tree to 48 m tall; lowland forest; Kd, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp; ?endemic.
- 143.10.138 **Eugenia sp. 9**, **TFM3** 227; tree to 30 m tall; lowland forest; Kd, Kl, Pk, Ph; ?endemic.
- 143.10.139 **Eugenia sp. 10**, **TFM3** 227; tree to 10 m tall; lowland and hill forest; Kl, Tg, Ph, Sl, NS, Ml.
- 143.10.140 **Eugenia sp. 11**, **TFM3** 227; tree to 24 m tall; lowland forest; twice from Tg; ?endemic.
- 143.10.141 **Eugenia sp. 12**, **TFM3** 227; tree to 18 m tall; hill and montane forest; Kl, Tg, Ph, Ml; ?endemic.
- 143.10.142 **Eugenia sp. 13**, **TFM3** 229; tree to 21 m tall; lowland forest; once from Ulu Besut, Tg; ?endemic.
- 143.10.143 **Eugenia sp. 14**, **TFM3** 229; stilt-rooted tree to 21 m tall; lowland swamp forest; Sl, Jh; ?endemic.
- 143.10.144 **Eugenia sp. 15**, **TFM3** 229; tree to 27 m tall; hill forest at 1000 m; once from Gg Mandi Angin, Tg; ?endemic.

- 143.10.145 **Eugenia sp. 16, TFM3** 229; tree to 24 m tall; lowland forest; Kd, Jh; ?endemic.
- 143.10.146 **Eugenia sp. 17, TFM3** 231; tree to 30 m tall; lowland forest; Kd, Tg, Jh; ?endemic.
- 143.10.147 **Eugenia sp. 18, TFM3** 231; small tree; hill and montane forest over 700 m; Gg Mandi Angin, Tg; Fraser's Hill, Ph; ?endemic.
- 143.10.148 **Eugenia sp. 19, TFM3** 231; tree to 18 m tall; lowland forest; Kd, Ph; ?endemic.
- 143.10.149 **Eugenia sp. 20, TFM3** 231; tree to 14 m tall; montane forest at 1700 m; Cameron Highlands, Ph; ?endemic.
- 143.10.150 **Eugenia sp. 21, TFM3** 231; tree to 18 m tall; lowland forest; once from Ulu Muda FR, Kd; ?endemic.
- 143.10.151 **Eugenia sp. 22, TFM3** 233; tree to 24 m tall; lowland forest; Tg, Jh; ?endemic.
- 143.10.152 **Eugenia sp. 23, TFM3** 233; tree to 27 m tall; montane forest at 1000–1800 m; Cameron Highlands and Fraser's Hill, Ph; ?endemic.
- 143.10.153 **Eugenia sp. 24, TFM3** 233; tree to 21 m tall; lowland forest; Ph, Jh; ?endemic.
- 143.10.154 **Eugenia sp. 25, TFM3** 233; shrub about 2.5 m tall; montane forest at 1500 m; only known from Gg Sagi, Kl; ?endemic.
- 144.10.155 **Eugenia sp. 26, TFM3** 233; tree to 21 m tall; lowland forest; once from Mersing, Jh; ?endemic.
- 143.10.156 **Eugenia sp. 27, TFM3** 234; shrub to 6 m tall; lowland forest; once from Kluang FR, Jh; ?endemic.
- 143.10.157 **Eugenia sp. 28, TFM3** 234; tree to 21 m tall; hill forest; Ph, N; ?endemic.
- 143.10.158 **Eugenia sp. 29, TFM3** 234; tree to 30 m tall; lowland forest; Tg, Ph; ?endemic.
- 143.10.159 **Eugenia sp. 30, TFM3** 234; small tree; lowland forest; once from Tasek Bera, Ph; ?endemic.
- 143.10.160 **Eugenia sp. 31, TFM3** 234; tree to 5 m tall; montane forest at 1200 m; Gg Padang, Tg; ?endemic.
- 143.10.161 **Eugenia sp. 32, TFM3** 236; tree to 21 m tall; lowland forest; once from Tg; ?endemic.
- 143.10.162 **Eugenia sp. 33, TFM3** 236; tree to 42 m tall; lowland forest; Panti FR, Jh; ?endemic.
- 143.10.163 **Eugenia sp. 34, TFM3** 236; tree; lowland forest; Tg; ?endemic.

- 143.10.164 **Eugenia sp. 35, TFM3 236**; tree to 30 m tall; lowland forest; Jh; ?endemic.
- 143.10.165 **Eugenia sp. 36, TFM3 236**; tree to 28 m tall; lowland forest; Pk, Ph, Sl, Jh; ?endemic.
- 143.10.166 **Eugenia sp. 37, TFM3 237**; tree to 28 m tall; lowland and hill forest; Ph, Jh; ?endemic.
- 143.10.167 **Eugenia sp. 38, TFM3 237**; large tree; hill forest above 1000 m; twice from Gg Inas, Pk; ?endemic.
- 143.10.168 **Eugenia sp. 39, TFM3 237**; tree to 36 m tall; lowland forest; Jh, Sp; ?endemic.
- 143.10.169 **Eugenia sp. 40, TFM3 237**; tree to 33 m tall; lowlands; P. Langkawi, Kd; ?endemic.
- 143.10.170 **Eugenia sp. 41, TFM3 237**; tree; montane forest; Kl, Ph; ?endemic.
- 143.10.171 **Eugenia sp. 42, TFM3 238**; tree to 48 m tall; lowland and montane forest; Ph, Jh; ?endemic.
- 143.10.172 **Eugenia sp. 43, TFM3 238**; tree to 9 m tall; montane forest at 1200 m; once from Gg Lawit, Tg; ?endemic.
- 143.10.173 **Eugenia sp. 44, TFM3 238**; tree to 36 m tall; swampy lowland forest; Sl, Jh; ?endemic.
- 143.10.174 **Eugenia sp. 45, TFM3 238**; stilt-rooted tree to 18 m tall; peat swamp forest; only known from Klang, Sl; ?endemic.
- 143.10.175 **Eugenia sp. 46, TFM3 240**; tree to 27 m tall; montane forest at 1700 m; once from Cameron Highlands, Ph; ?endemic.
- 143.10.176 **Eugenia sp. 47, TFM3 240**; tree to 15 m tall; lowland forest; once from Labis FR, Jh; ?endemic.
- 143.10.177 **Eugenia sp. 48, TFM3 240**; tree to 24 m tall; lowland forest; once from Cabang Tongkat F.R., Kl; ?endemic.
- 143.10.178 **Eugenia sp. 49, TFM3 240**; shrub to 3 m tall; montane forest at 900 m; only known from the summit of Gg Belumut, Jh; ?endemic.
- 143.10.179 **Eugenia sp. 50, TFM3 240**; tree to 15 m tall; montane forest at 1200 m; Gg Padang, Tg; Fraser's Hill, Ph; ?endemic.
- 144.10.180 **Eugenia sp. 51, TFM3 240**; tree to 27 m tall; once from Gg Arong F.R., Ph; ?endemic.
- 143.10.181 **Eugenia sp. 52, TFM3 241**; tree to 21 m tall; hill forest at 600 m; once from Ph; ?endemic.

- 143.10.182 **Eugenia sp. 53, TFM3** 241; tree to 36 m tall; once from Jh; ?endemic.
- 143.10.183 **Eugenia sp. 54, TFM3** 241; tree to 30 m tall; lowland forest; once each from Pk, Sl and Jh; ?endemic.
- 143.10.184 **Eugenia sp. 55, TFM3** 241; ?tree; montane forest at 1200 m; once from Gg Padang, Tg; ?endemic.
- 143.10.185 **Eugenia sp. 56, TFM3** 241; tree to 6 m tall; once from Pk; ?endemic.
- 143.10.186 **Eugenia sp. 57, TFM3** 242; tree to 18 m tall; lowland forest; once from Sg Lallang F.R., Sl; ?endemic.
- 143.10.187 **Eugenia sp. 58, TFM3** 242; large tree; lowland forest; once from Lepar Hill F.R., Ph; ?endemic.
- 143.10.188 **Eugenia sp. 59, TFM3** 242; tree to 18 m tall; once from Tg; ?endemic.
- 144.10.189 **Eugenia sp. 60, TFM3** 242; tree to 12 m tall; coastal forest; once from Jh; ?endemic.
- 143.10.190 **Eugenia sp. 61, TFM3** 242; tree to 12 m tall; montane forest at 1300 m; once from Cameron Highlands, Ph; ?endemic.
- 143.10.191 **Eugenia sp. 62, TFM3** 242; tree to 21 m tall; lowland forest; once from Gg Panti, Jh; ?endemic.
- 143.10.192 **Eugenia sp. 63, TFM3** 244; ?tree; montane forest at 1800 m; once from Gg Berembun, Ph; ?endemic.
- 143.10.193 **Eugenia sp. 64, TFM3** 244; shrub about 2 m tall; montane forest at 1500 m; once from Gg Mengkuang, Sl; ?endemic.
- 143.10.194 **Eugenia sp. 65, TFM3** 244; tree to 3 m tall; hill forest at about 1000 m; once from Labis FR, Jh; ?endemic.
- 143.10.195 **Eugenia sp. 66, TFM3** 244; tree about 12 m tall; lowland forest; Sl; ?endemic.
- 143.11.1 **Tristaniaopsis fruticosa** (Ridl.) Peter G. Wilson & J.T. Waterh., **W21** 439; *Tristania fruticosa* Ridl., **FMP1** 715, **TFM3** 252; shrub to 1 m tall; montane forest above 1350 m; Gg Tahan, Ph; endemic.
- 143.11.2 **Tristaniaopsis merguensis** (Griff.) Peter G. Wilson & J.T. Waterh., **W21** 439; *Tristania merguensis* Griff., **FMP1** 715, **TFM3** 252; *Tristania subauriculata* King, **FMP1** 714; *Tristania maingayi* Duthie, **FMP1** 715; tree to 21 m tall; rocky coasts to mountains; widespread.
- 143.11.3 **Tristaniaopsis obovata** (R.Br.) Peter G. Wilson & J.T. Waterh., **W21** 439; *Tristania spatulata* Ridl., **FMP1** 715; *Tristania obovata* R.Br., **TFM3** 253; tree to 45 m tall; lowlands; Kd, Tg, Jh, Sp.

- 143.11.4 **Tristaniopsis pontianensis** (M.R. Hend.) Peter G. Wilson & J.T. Waterh., **W21** 440; *Tristania pontianensis* M.R. Hend., **TFM3** 253; tree to 27 m tall; South Jh; endemic.
- 143.11.5 **Tristaniopsis razakiana** (Kochummen) Peter G. Wilson & J.T. Waterh., **W21** 440; *Tristania razakiana* Kochummen, **TFM3** 253; tree to 21 m tall; montane forest; Pk, Ph; endemic.
- 143.11.6 **Tristaniopsis whiteana** (Griff.) Peter G. Wilson & J.T. Waterh., **W21** 440; *Tristania whiteana* Griff., **FMP1** 716, **TFM3** 253; tree to 24 m tall; river banks in the lowlands; widespread.

144. NELUMBONACEAE

- 144.1.1 **Nelumbo nucifera** Gaertn., **N11** 197; *Nelumbium speciosum* Willd. *nom. illeg.*, **FMP1** 118; large rhizomatous aquatic herb, leaves emergent; pools, ditches, much cultivated, dubiously native; widespread.

145. NEPENTHACEAE

- 145.1.1 **Nepenthes albomarginata** Lobb *ex* Lindl., **FMP3** 21, **D02** 262; slender climber; hills and mountains; Kd, Pn, Pk, Ml.
- 145.1.2 **Nepenthes ampullaria** Jack, **FMP3** 21, **D02** 365; climber; secondary forest, forest margins; Pn, Pk, Ml, Jh, Sp.
- 145.1.3 **Nepenthes gracilis** Korth., **FMP3** 24 incl. var. *arenaria* Ridl., **D02** 290; slender climber to 6 m long; secondary forest, forest margins in the lowlands; Kd, Pn, Tg, Pk, Ph, NS, Ml, Jh, Sp.
- 145.1.4 **Nepenthes gracillima** Ridl., **FMP3** 22 incl. var. *major* Ridl., **D02** 296; *Nepenthes alba* Ridl., **FMP3** 22; *Nepenthes ramispina* Ridl., **FMP3** 22; climber; mountain ridges at 600–2100 m; Kl, Ph, Sl; endemic.
- 145.1.5 **Nepenthes hookerana** Lindl., **D02** 309; climber; secondary forest; Sp.
- 145.1.6 **Nepenthes macfarlanei** Hemsl., **FMP3** 24, **D02** 323; stout climber; mountains at 1200–1600 m; Pk, Ph, Sl; endemic.
- 145.1.7 **Nepenthes nirabilis** Druce, **D02** 330; *Nepenthes phyllamphora* Willd., **FMP3** 25; climber to 7 m long; lowlands: P, Langkawi, Kd, Pn, Pk, Ml, ?Sp.
- 145.1.8 **Nepenthes rafflesiana** Jack, **FMP3** 24, **D02** 357; stout climber to 4 m or more long; forest margins in lowlands and hills; Pk, Ml, Jh, Sp.
- 145.1.9 **Nepenthes sanguinea** Lindl., **FMP3** 23, **D02** 366; climber; mountains at 900–1300 m; Pk, Ph, Sl, Ml; endemic.

- 145.1.10 **Nepenthes trichocarpa** Miq., **D02** 389; climber; open places; widespread.

Danser cites the following hybrids *N. gracillima* x *macfarlanei* [**D02** 299] {Gg Batu Puteh, Pk, Gg Tahan, Ph}, *N. macfarlanei* x *sanguinea* [**D02** 324] {Kl, Ph, Sl, Ml}.

146. NYCTAGINACEAE

- 146.1.1 **Boerhavia chinensis** (L.) Asch. & Schweinf., **FMi6** 455, **TFM2** 297; *Boerhavia repanda* Willd., **FMP3** 2; erect herb to 1 m tall; on limestone; Ps.
- 146.1.2 **Boerhavia diffusa** L., **FMP3** 1, **FMi6** 454, **TFM2** 297; creeping or erect herb to 1 m tall; dry sandy open places; widespread.
- 146.1.3 **Boerhavia erecta** L., **FMi6** 454, **TFM2** 297, **M47** 366; erect herb to 80 cm tall; roadsides, open sandy places; Sp.
- 146.2.1 **Pisonia aculeata** L., **FMP3** 3, **FMi6** 467, **TFM2** 298; thorny scrambling liana reaching to 20 m; on limestone; Ps, P. Langkawi.
- 146.2.2 **Pisonia grandis** R.Br., **FMi6** 464, **TFM2** 298; shrub or tree to 30 m tall; coastal; both coasts and offshore islands.
- 146.2.3 **Pisonia umbellifera** (J.R. Forst. & G. Forst.) Seem., **FMi6** 460, **TFM2** 298; *Pisonia excelsa* Blume, **FMP3** 3; shrub or tree to 28 m tall; bases of limestone hills; Pk, Ph.

147. NYMPHAEACEAE

- 147.1.1 **Barclaya kunstleri** (King) Ridl., **FMP1** 117; *Hydrostemma kunstleri* (King) B.C. Stone, **S56** 71; aquatic herb; shallow water; Pk, Ph, Sl, Jh, Sp.
- 147.1.2 **Barclaya longifolia** Wall., **FMP1** 118; *Hydrostemma longifolium* (Wall.) Mabb., **M04** 68; small aquatic herb; fast-flowing streams; P. Langkawi.
- 147.1.3 **Barclaya motleyi** Hook.f., **FMP1** 116; *Hydrostemma motleyi* (Hook.f.) Mabb., **M04** 68; small aquatic herb; small slow-flowing streams in lowland forest; Pn, Ph, Ml, Sp.
- 147.2.1 **Nymphaea pubescens** Willd., **M42** 431; *Nymphaea lotus* L., **FMP1** 116; aquatic rhizomatous herb with floating leaves; pools and ditches, often cultivated; Ml.
- 147.2.2 **Nymphaea nouchali** Burm.f., **N11** 198, **M42** 430; *Nymphaea stellata* Willd., **FMP1** 116; aquatic rhizomatous herb with floating leaves; pools and ditches; widespread.

148. OCHNACEAE

- 148.1.1 **Brackenridgea hookeri** (Planch.) A. Gray, **FMI7** 102, **TFM3** 256; *Gomphia hookeri* Planch., **FMP1** 366; tree to 27 m tall; lowland and hill forest to 1000 m; throughout.
- 148.1.2 **Brackenridgea palustris** Bartell., **FMI7** 102, **TFM3** 256; *Gomphia corymbosa* (King) Ridl., **FMP1** 367; tree to 9 m tall; swampy lowland forest and montane forest; Kd, Pk, Ph, Sl, Ml, Jh, Sp.
- 148.2.1 **Campylospermum serratum** (Gaertn.) Bittrich & M.C.E. Amaral, **B20** 92; *Gomphia microphylla* Ridl., **FMP1** 365; *Gomphia sumatrana* Jack, **FMP1** 365; *Gomphia oblongifolia* Ridl., **FMP5** 296; *Gomphia serrata* (Gaertn.) Kanis, **FMI7** 105, **TFM3** 258; tree to 25 m tall; lowland and hill forest to 1000 m, common near the sea; throughout.
- 148.3.1 **Euthemis leucocarpa** Jack, **FMP1** 368, **FMI7** 108, **TFM3** 257; shrub to 2 m tall; lowland swamps, ridges and mountain sides to 1000 m; Kd, Pn, Kl, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 148.3.2 **Euthemis minor** Jack, **FMP1** 368, **FMI7** 108, **TFM3** 257; prostrate shrub; sandy forest; Chua Chu Kang, Sp.
- 148.4.1 **Ochna integerrima** (Lour.) Merr., **FMI7** 99, **TFM3** 260; *Ochna grandis* Ridl., **FMP1** 365; shrub or small tree to 12 m tall; sandy beaches, swampy places; Ps, P, Langkawi, Kd.
- 149.5.1 **Sauvagesia serrata** (Korth.) Sastre, **S01** 18; *Neckia malayana* Ridl., **FMP1** 134; *Neckia serrata* Korth., **FMI7** 110, **TFM3** 260; shrub to 1 m tall; damp shady places in lowland and hill forest; Tg, Ph, Jh.

149. OLACACEAE

- 149.1.1 **Anacolosia frutescens** (Blume) Blume, **FMI10** 25; *Anacolosia heptandra* Maingay ex Mast., **FMP1** 425, **TFM2** 301; small tree to 15 m tall; lowland and hill forest to 600 m; Kd, Ph, Sl, NS, Ml, Jh, Sp.
- 149.2.1 **Erythralium scandens** Blume, **FMP1** 436, **TFM2** 299, **FMI10** 17; scandent shrub or liana to 10 m tall; lowland and hill forest; widespread.
- 149.3.1 **Harmandia mekongensis** Pierre ex Baill., **FMI10** 9; *Harmandia kunstleri* King, **FMP1** 421, **TFM2** 301; tree to 21 m tall; lowland forest to 240 m; Tg, Ph, Pk, Sl, NS, Ml.
- 149.4.1 **Ochanostachys amentacea** Mast., **FMP1** 422, **TFM2** 302, **FMI10** 14; tree to 30 m tall; lowland and hill forest to 900 m; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.

- 149.5.1 ***Olex imbricata*** Roxb., **FMP1** 421, **TFM2** 300, **FMi10** 8; unarmed climbing shrub; lowland forest; scattered.
- 149.5.2 ***Olex psittacorum*** (Willd.) Vahl, **FMi10** 717; *Olex scandens* Roxb., **FMP1** 421, **TFM2** 300, **FMi10** 7; prickly scandent shrub; open sandy country; widespread.
- 149.6.1 ***Scorodocarpus borneensis*** (Baill.) Becc., **FMP1** 424, **TFM2** 303, **FMi10** 15; pungent tree to 36 m tall; lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 149.7.1 ***Strombosia ceylanica*** Gardn., **FMi10** 22; *Strombosia multiflora* King, **FMP1** 425, **TFM2** 306; *Strombosia rotundifolia* King, **FMP1** 425; *Strombosia maingayi* (Mast.) Whitmore, **TFM2** 306; tree to 20 m tall; lowland forest; widespread.
- 149.7.2 ***Strombosia javanica*** Blume, **FMP1** 425, **TFM2** 306, **FMi10** 21; tree to 24 m tall; lowland forest; Kd, Pn, Kl, Pk, Ph, Sl, NS, Jh, Sp.
- 149.7.3 ***Strombosia* sp. A**, **TFM2** 307; shrub; lowland forest; Tg, Ph, Sl; ?endemic.
- 149.8.1 ***Ximenia americana*** L., **FMP1** 424, **TFM2** 300, **FMi10** 11; sprawling shrub or small tree to 10 m tall; sandy shores; common on west coast, rare on east.

150. OLEACEAE

- 150.1.1 ***Chionanthus calcicolus*** (Kerr) Kiew, **K23** 265, **TFM4** 287; shrub or small tree to 5 m tall; on limestone; P. Langkawi, Kl, Pk.
- 150.1.2 ***Chionanthus callophylus*** Blume, **K25** 210, **TFM4** 287; *Linociera paludosa* King & Gamble, **FMP2** 316; *Olea platycarpa* King & Gamble, **FMP2** 319; *Chionanthus platycarpus* (King & Gamble) Kiew, **K23** 272; tree to 25 m tall; lowland forest including swamps; Ph, Sl, Jh.
- 150.1.3 ***Chionanthus caudifolius*** (Ridl.) Kiew, **K24** 266, **TFM4** 287; *Linociera caudifolia* Ridl., **FMP2** 317; tree to 13 m tall; montane forest at 1200–1600 m; Pk, Ph; endemic.
- 150.1.4 ***Chionanthus curvicaupus*** Kiew, **K25** 211, **TFM4** 287; tree to 23 m tall; lowland forest; once from Sg Kayu, Jh.
- 150.1.5 ***Chionanthus evenius*** (Stapf) Kiew, **K24** 268, **TFM4** 288; tree to 50 m tall; lowland swamp forest; Pk, Sl, Jh.
- 150.1.6 ***Chionanthus grandifolius*** (Elmer) Kiew, **K25** 210, **TFM4** 287; *Chionanthus macrocarpus auct. non* Blume, **K24** 271; tree to 7 m tall; lowland forest; once from Batu Biwa, Tg.

- 150.1.7 **Chionanthus lancifolius** (Ridl.) Kiew, **K24** 269, **TFM4** 287; *Linociera lancifolia* Ridl., **FMP2** 317; *Linociera parvifolia* Ridl., **FMP2** 317; shrub or tree to 8 m tall; montane forest at 1500–1700 m; Kl, Pk, Ph, Sl; endemic.
- 150.1.8 **Chionanthus laxiflorus** Blume, **K24** 270, **TFM4** 287; tree to 4 m tall; lowlands and mountains; Ph, Jh (thrice in all).
- 150.1.9 **Chionanthus lucens** Kiew, **W30** 268; small tree; Gg Janing, Jh.
- 150.1.10 **Chionanthus macrocarpus** Blume, **K25** 209, **TFM4** 288; *Linociera insignis* (Miq.) C.B. Clarke, **FMP2** 316 in part; *Chionanthus elaeocarpus* (Stapf) Kiew, **K24** 267; tree to 42 m tall; lowland and hill forest to 1000 m; Tg, Ph, Jh, Sp.
- 150.1.11 **Chionanthus ramiflorus** Roxb., **K24** 274, **TFM4** 289; *Linociera pauciflora* (Wall.) C.B. Clarke, **FMP2** 317; tree to 17 m tall; coastal, riverine and swamp forest; throughout.
- 150.1.12 **Chionanthus spiciferus** (Ridl.) Kiew, **K24** 275; *Linociera spicifera* Ridl., **FMP2** 316; tree; lowland forest; only known from type, Rawang F.R., Sl; endemic.
- 150.2.1 **Jasminum cordatum** Ridl., **K41** 4; limestone hills; West Coast.
- 150.2.2 **Jasminum curtisii** King & Gamble, **FMP2** 312; climber; Ipoh, Pk; endemic.
- 150.2.3 **Jasminum decussatum** Wall., **FMP2** 313; bushy climber; open country; Ps, Kd.
- 150.2.4 **Jasminum elongatum** (Bergius) Willd., **G16** 572; *Jasminum bifarium* Wall. ex G. Don, **FMP2** 313; *Jasminum evansii* Ridl., **FMP2** 313; *Jasminum arenarium* Ridl., **FMP2** 313; *Jasminum aemulum* R.Br., **K42** 312; climbing shrub; forest margins and clearings; common throughout.
- 150.2.5 **Jasminum griffithii** C.B. Clarke, **FMP2** 311; slender climber; lowland forest; Pk, Sl, Ml, Jh, Sp; endemic.
- 150.2.6 **Jasminum insigne** Blume, **FMP2** 314; stout liana; lowland forest; Pk, Ph.
- 150.2.7 **Jasminum insularum** Kerr, **K41** 7; on limestone; P.Langkawi, Kl.
- 150.2.8 **Jasminum kedahense** Ridl., **FMP2** 311; stout climber; Gg Jerai, Kd; endemic.
- 150.2.9 **Jasminum lanceolaria** Roxb. ssp. *scortechinii* (King & Gamble) P.S. Green, **G16** 576; *Jasminum scortechinii* King & Gamble, **FMP2** 315; climber; hill forest; Pn, Pk, Ph.
- 150.2.10 **Jasminum longipetalum** King & Gamble, **FMP2** 314; slender climber; lowland forest; Pk, Sp; endemic.

- 150.2.11 **Jasminum maingayi** C.B. Clarke, **FMP2** 311; stout climber; hill forest; Ps, Pn, Pk, Ph, Sl.
- 150.2.12 **Jasminum malayanum** Kiew, **K40** 77; *Jasminum adenophyllum* auct. non Wall., **FMP2** 314; slender climber; hill forest on limestone; Kd; endemic.
- 150.2.13 **Jasminum smilacifolium** Griff. ex C.B. Clarke, **FMP2** 314; climber; lowland forest; NS, Ml.
- 150.2.14a **Jasminum wrayi** King & Gamble var. **axillare** King & Gamble, **FMP2** 312 'axillaris', **K41** 13; climber; Maxwell's Hill, Pk; endemic.
- 150.2.14b **Jasminum wrayi** King & Gamble var. **wrayi**, **FMP2** 312, **K41** 13; slender climber; lowland forest; Pk, Sl; endemic.
- 150.3.1 **Ligustrum confusum** Decne., **K22** 144, **TFM4** 290; *Olea puberula* Ridl., **FMP2** 318; shrub or small tree to 8 m tall; on limestone; Ps, P, Langkawi, Ph, Sl.
- 150.3.2 **Ligustrum glomeratum** Blume, **K22** 147, **TFM4** 290; shrub or tree to 15 m tall; open areas; Ps.
- 150.4.1 **Myxopyrum nervosum** Blume, **FMP2** 320, **K26** 505, **TFM4** 285; climbing shrub; lowland forests and swamps; widespread.
- 150.5.1 **Olea brachiata** (Lour.) Merr., **TFM4** 291; *Olea maritima* Wall. ex Don, **FMP2** 318; tree to 10 m tall; rocky shores; widespread.
- 150.5.2 **Olea dentata** Wall. ex DC., **TFM4** 292; *Olea penangiana* Ridl., **FMP2** 318; tree to 20 m tall; rocky coasts; Pn.
- 150.6.1 **Osmanthus scortechinii** King & Gamble, **FMP2** 315 incl. var. *oblonga* King & Gamble, **TFM4** 286; *Olea capitellata* Ridl., **FMP2** 319; shrub or small tree; montane forest; Tg, Pk, Ph, Sl, Jh.

151. ONAGRACEAE

- 151.1.1 **Ludwigia adscendens** (L.) H. Hara, **FMi8** 104, **M47** 368; *Jussiaea repens* L., **FMP1** 827; creeping or floating herb, ascending to 60 cm; pools, ditches and swamps; widespread.
- 151.1.2 **Ludwigia hyssopifolia** (G. Don) Exell, **FMi8** 104, **M47** 370; *Jussiaea suffruticosa* auct. non L., **FMP1** 827; herb to 3 m tall; weed of shallow water and wet places; widespread.
- 151.1.3 **Ludwigia octovalvis** (Jacq.) P.H. Raven, **FMi8** 101, **M47** 372; *Jussiaea erecta* auct. non L., **FMP1** 827; *Jussiaea villosa* Lam., **FMP1** 828; herb to 4 m tall; wet places, near rivers and ditches; widespread.

- 151.1.4 **Ludwigia perennis** L., **FMi8** 103, **M47** 374; *Ludwigia parviflora* Roxb., **FMP1** 828; herb to 1 m tall; wet places; Pk, Sl.
- 151.1.5 **Ludwigia peruviana** (L.) H. Hara, **FMi8** 100, **M47** 376; *Jussiaea speciosa* Ridl., **FMP1** 828; shrub to 3 m tall; ditches, damp waste ground; Sp; naturalized from tropical America.
- 151.1.6 **Ludwigia prostrata** Roxb., **FMP1** 829, **FMi8** 103; herb to 60 cm tall; water margins; widespread.

152. OPILIACEAE

- 152.1.1 **Cansjera rheedei** J.F. Gmel., **FMi10** 50, **TFM4** 294; *Cansjera zizypholia* Griff., **FMP3** 172; liana or shrub to 5 m tall; coastal vegetation; Ph, NS, MI, Jh, Sp.
- 152.2.1 **Champereia manillana** (Blume) Merr., **FMi10** 35, **TFM4** 294; *Champereia griffithii* Planch. ex Kurz, **FMP3** 172; shrub or small tree to 10 m tall; lowland forest; widespread.
- 152.3.1 **Lepionurus sylvestris** Blume, **FMP3** 172, **FMi10** 43, **TFM4** 295; *Lepionurus oblongifolius* (Griff.) Mast. var. *angustifolius* Ridl., **FMP3** 173; shrub to 3 m tall; lowland and hill forest to 600 m; throughout.
- 152.4.1 **Melientha suavis** Pierre, **FMi10** 39, **TFM4** 296; small tree to 12 m tall; lowland forest; Pn, Kl, Ph (once each).

153. OXALIDACEAE

- 153.1.1 **Averrhoa bilimbi** L., **FMP1** 331, **TFM1** 348, **FMi7** 177; tree to 15 m tall; lowland forest, often near rivers; native in the north, widely cultivated; Ps, Kd.
- 153.2.1 **Biophytum adiantoides** Wight ex Edgew. & Hook.f., **FMP1** 331, **FMi7** 165; woody-stemmed 'herb' to 30 cm tall; along rivers, forest clearings; Ps, Pk, Ph.
- 153.2.2 **Biophytum reinwardtii** (Zucc.) Klotzsch, **FMP1** 331, **FMi7** 164; herb to 35 cm tall; waste places, plantations; Kl.
- 153.2.3 **Biophytum sensitivum** (L.) DC., **FMP1** 331, **FMi7** 162; herb to 35 cm tall; weed; Pn, MI.
- 153.3.1 **Dapania racemosa** Korth., **TFM1** 347, **FMi7** 167; *Dapania scandens* Stapf, **FMP1** 334; liana to 30 m long; swampy lowland forest; Pk.

- 153.4.1 **Oxalis barrelieri** L., **FMP1** 330, **FMi7** 155, **M44** 378; erect herb to 1.5 m tall; waste places; widespread; naturalized from tropical South America.
- 153.4.2 **Oxalis corniculata** L., **FMP1** 330, **FMi7** 155, **M44** 380; small herb; garden weed, waste places; Pn, Pk, Ml, Sp.
- 153.4.3 **Oxalis corymbosa** DC., **FMP1** 330, **FMi7** 159; bulbous herb to 30 cm tall; waste places, lowlands and hills; scattered; naturalized from tropical South America.
- 153.5.1 **Sarcotheca glomerula** Veldkamp, **TFM1** 348, **FMi7** 170; *Connaropsis macrophylla* King, **FMP1** 334; shrub or small tree to 9 m tall; lowland forest; Kd, Pk, Ph; endemic.
- 153.5.2 **Sarcotheca griffithii** (Planch. ex Hook.f.) Hallier f., **TFM1** 349, **FMi7** 170; *Connaropsis griffithii* Planch. ex Hook.f., **FMP1** 332; tree to 42 m tall; lowland forest; Ps, Kd, Pn, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 153.5.3a **Sarcotheca laxa** (Ridl.) Knuth var. **hirsuta** Veldkamp, **TFM1** 349, **FMi7** 171; shrub or tree to 23 m tall; swamps and forest margins; Jh; endemic variety.
- 153.5.3b **Sarcotheca laxa** (Ridl.) Knuth var. **laxa**, **TFM1** 349, **FMi7** 171; *Connaropsis glabra* Ridl., **FMP1** 332; *Connaropsis laxa* Ridl., **FMP1** 333; shrub or tree to 23 m tall; swamps and forest margins; Ps, Kd, Kl, Tg, Pk; endemic variety.
- 153.5.3c **Sarcotheca laxa** (Ridl.) Knuth var. **sericea** (Ridl.) Veldkamp, **TFM1** 349, **FMi7** 171; *Connaropsis sericea* Ridl., **FMP1** 334; *Connaropsis simplicifolia* Ridl., **FMP1** 334; shrub or tree to 23 m tall; swamps and forest margins; Tg, Ph, Jh, Sp; endemic variety.
- 153.5.4 **Sarcotheca monophylla** (Planch. ex Hook.f.) Hallier f., **TFM1** 349, **FMi7** 172; *Connaropsis monophylla* Planch. ex Hook.f., **FMP1** 332; tree to 30 m tall; lowland forest; Pk, Ph, Sl, Ml; endemic.
154. PANDACEAE
- 154.1.1 **Galearia fulva** (Tul.) Miq., **FMP3** 257, **TFM2** 98; *Galearia affinis* (R.Br.) Miq., **FMP3** 255; *Galearia lindleyana* (Tul.) Hook.f., **FMP3** 255; *Galearia phlebocarpa* (R.Br.) Miq., **FMP3** 255; *Galearia minor* Gage, **FMP3** 256; *Galearia ridleyi* Gage, **FMP3** 256; *Galearia wallichii* (R.Br.) Kurz, **FMP3** 256; *Galearia finlaysonii* (R.Br.) Miq., **FMP3** 257; *Galearia fusca* Ridl., **FMP3** 257; *Galearia pedicellata* (R.Br.) Miq., **FMP3** 257; *Galearia subulata* (Müll.Arg.) Hook.f., **FMP3** 258; small tree; lowland and hill forest to 690 m; throughout.
- 154.1.2 **Galearia maingayi** Hook.f., **FMP3** 255, **TFM2** 98; tree to 30 m tall; lowland forest to 300 m; Kd, Pn, Kl, Pk, Ph, Sl, NS, Jh, Sp.

- 154.1.3 **Galearia stenophylla** Merr., **TFM2** 98; treelet; hill and montane forest; Ulu Gombak and Klang Gates, Sl.
- 154.2.1 **Microdesmis caseariifolia** Planch., **FMP3** 258, **TFM2** 118; shrub to 3 m tall; lowlands, often on or near limestone; throughout.
155. PASSIFLORACEAE
- 155.1.1 **Adenia cordifolia** (Blume) Engl., **FM17** 430; *Adenia populifolia* var. *pentamera* King, **FMP1** 841; liana to 50 m long; lowland forest margins and clearings; widespread.
- 155.1.2a **Adenia macrophylla** (Blume) Koord. var. **macrophylla**, **FM17** 428; *Adenia acuminata* (non Blume) King, **FMP1** 841; *Adenia grandifolia* Ridl., **FMP1** 842; liana to 25 m long; lowland and hill forest; widespread.
- 155.1.2b **Adenia macrophylla** (Blume) Koord. var. **singaporeana** (Wall. ex G. Don) W.J. de Wilde, **FM17** 429; *Adenia singaporeana* (Wall. ex G. Don) Engl., **FMP1** 841; liana to 25 m long; lowland forest margins; Jh, Sp; endemic variety.
- 155.1.3a **Adenia penangiana** (Wall. ex G. Don) W.J. de Wilde var. **parvifolia** (Pierre ex Gagnep.) W.J. de Wilde, **FM17** 423; tuberous climber or creeper to 2 m long; on limestone hills; Ps, Kd, P. Langkawi.
- 155.1.3b **Adenia penangiana** (Wall. ex G. Don) W.J. de Wilde var. **penangiana**, **FM17** 423; *Adenia nicobarica* (Kurz ex Trimen) King, **FMP1** 840; climber to 6 m tall; lowland forest margins; widespread.
- 155.2.1 **Paropsia vareciformis** (Griff.) Mast., **FMP1** 842, **FM15** 14, **TFM2** 157; tree to 24 m tall; lowland and hill forest to 500 m; Tg, Pk, Ph, Sl, NS, Ml.
- 155.3.1 **Passiflora foetida** L., **FMP1** 839, **M47** 384; slender hairy vine; waste places in the lowlands; widespread; naturalized from tropical America.
- 155.3.2 **Passiflora laurifolia** L., **B02** 290; wiry vine; forest margins; widespread; naturalized from tropical America.
- 155.3.3 **Passiflora perakensis** Hallier f., **FMI7** 414; *Passiflora horsfieldii* auct. non Blume, **FMP1** 839; slender climber to 15 m long; lowland and hill forest to 1000 m; Kd, Pk, Ph.
- 155.3.4 **Passiflora suberosa** L., **B02** 290, **C26** 662; vine; waste places; Sp; naturalized from tropical America.

156. PEDALIACEAE

- 156.1.1 **Sesamum orientale** L., **S18** 656; *Sesamum indicum* L., **FMP2** 553, **FMi4** 217; herb to 2 m tall; waste places in the lowlands; naturalized probably from Africa.
- 156.1.2 **Sesamum radiatum** L., **FMi4** 218, **T05** 131; herb to 1.2 m tall; waste places; Sp; naturalized from Africa.

157. PENTAPHRAGMATACEAE

- 157.1.1 **Pentaphragma aurantiacum** Stapf, **FMi4** 521; *Pentaphragma grande* Ridl., **FMP2** 203; herb to 90 cm tall; montane forest; Gg Tahan, Ph.
- 157.1.2 **Pentaphragma begoniifolium** (Roxb. ex Jack) Wall. ex G. Don, **FMP2** 202, **FMi4** 525; herb to 20 cm tall; lowland forest to 600 m; north of Malaya.
- 157.1.3 **Pentaphragma cyrtandriforme** Airy Shaw, **FMi4** 522, **K37** 549; prostrate herb 10–20 cm long; montane forest to 1800 m; Gg Mandi Angin, Gg Padang, Tg, and Gg Tapis, Ph; endemic.
- 157.1.4a **Pentaphragma ellipticum** Poulsen var. **ellipticum**, **K33** 7; *Pentaphragma ridleyi* King & Gamble, **FMP2** 202; *Pentaphragma ellipticum* Poulsen, **FMi4** 527; glabrous succulent herb to 40 cm tall; lowland forest to 550 m; Jh, Sp.
- 157.1.4b **Pentaphragma ellipticum** Poulsen var. **flocculosum** (King & Gamble) Kiew, **K33** 7; woolly succulent herb to 40 cm tall; lowland forest to 1000 m; Kl, Tg, Ph, NS, MI, Jh; endemic variety.
- 157.1.5 **Pentaphragma horsfieldii** (Miq.) Airy Shaw, **FMi4** 527, **K33** 9; *Pentaphragma scortechinii* King & Gamble, **FMP2** 203; herb to 35 cm tall; lowland and montane forest to 2000 m; Pk, Ph, SI, MI.

158. PENTAPHYLACACEAE

- 158.1.1 **Pentaphylax euryoides** Gardner & Champ., **FMi5** 123, **TFM2** 308; *Pentaphylax malayana* Ridl., **FMP1** 206; *Pentaphylax arborea* Ridl., **FMP5** 291; shrub or small tree to 12 m tall; montane forest at 975–1800 m; Ph, SI.

159. PHYTOLACCACEAE

- 159.1.1 **Phytolacca octandra** L., **S48** 255; herb to 60 cm tall; mountains above 1200 m; Cameron Highlands, Ph; naturalized from tropical America.
- 159.2.1 **Rivina humilis** L., **FMi4** 229; erect herb to 1 m tall; waste places, usually slightly shaded; Sp; naturalized from tropical America.

160. PIPERACEAE

- 160.1.1 **Peperomia blanda** (Jacq.) H.B.K. var. **leptostachya** (Hook. & Arn.) Düll, **D44** 110; *Peperomia dindygulensis* Miq., **FMP3** 26, **C14** 197, **K50** 33; succulent herb to 30 cm tall; on shaded limestone; Ph, Sl.
- 160.1.2 **Peperomia decumbens** C. DC., **FMP5** 327; creeping herb to 15 cm tall; Gg Raya, P. Langkawi.
- 160.1.3 **Peperomia kotana** C. DC., **FMP3** 27, **C14** 198; creeping herb to 20 cm tall; on rocks including limestone; Kd, Kl, Ph, Jh; endemic.
- 160.1.4 **Peperomia malaccensis** Ridl., **FMP3** 27; succulent herb; on rocks; Batu Tiga, Ml; ?endemic.
- 160.1.5 **Peperomia maxwelliana** C. DC., **FMP3** 27, **S48** 248; succulent decumbent herb; on shaded rocks; Maxwell's Hill, Pk, and Bt Takun, Sl (limestone); endemic.
- 160.1.6 **Peperomia pellucida** (L.) Kunth, **FMP3** 27; succulent herb to 20 cm tall; common weed of damp shaded sites; throughout; naturalized from tropical America.
- 160.1.7 **Peperomia portulacoides** (Lam.) A. Dietr., **FMP3** 26, **C14** 198; succulent herb; on limestone; Gua Batu, Sl.
- 160.1.8 **Peperomia wrayi** DC., **FMP3** 26; decumbent herb; on dead trees in lowland forest; Ulu Batang Padang, Pk; ?endemic.
- 160.1.9 **Peperomia** sp. A, **C14** 198, **K50** 34; succulent herb to 30 cm tall; mostly on limestone; Pk, Ph, Sl; ?endemic.
- 160.2.1 **Piper acre** Blume, **FMP3** 44; climber; montane forest; Pk.
- 160.2.2 **Piper aduncum** L., **M46** 307, **C11** 3; shrub or small tree to 3 m tall; roadsides and clearings in lowlands and hills; Sl; naturalized from tropical America.
- 160.2.3 **Piper argyrites** Ridl., **FMP3** 40; stout climber; lowland forest; Sl; ?endemic.
- 160.2.4 **Piper bipedale** C. DC., **FMP3** 33; subshrub to 60 cm tall; lowland forest; Pk; ?endemic.
- 160.2.5 **Piper boehneriifolium** (Miq.) DC., **FMP3** 41; shrub to 1 m tall; lowland forest; Pk, Ph, NS.
- 160.2.6 **Piper burkillii** Ridl., **FMP3** 36; slender climber; hill forest; NS; ?endemic.
- 160.2.7 **Piper caninum** Blume, **FMP3** 38, **C11** 5; slender climber; lowland forest; widespread.

- 160.2.8 **Piper collinum** C. DC., **FMP3** 36, **C14** 198; slender climber to 4 m; on limestone; once from Gopeng, Pk; endemic.
- 160.2.9 **Piper conibaccum** C. DC., **FMP3** 48; hill forest; Ph; ?endemic.
- 160.2.10 **Piper curtipetiolum** C. DC., **FMP3** 46; Gg Inas, Pk; ?endemic.
- 160.2.11 **Piper curtisii** C. DC., **FMP3** 37; slender creeper; lowland and hill forest; Pk, Sl, Ml, Jh; ?endemic.
- 160.2.12 **Piper cyrtostachys** Ridl., **FMP3** 41; herb to 60 cm tall; montane forest; Gg Berembun, Pk; ?endemic.
- 160.2.13 **Piper dindingsanum** C. DC., **FMP3** 38; ?climber; hill forest; Dindings, Pk; ?endemic.
- 160.2.14 **Piper erecticaule** C. DC., **FMP3** 43; ?shrub; montane forest; Gg Jerai, Kd; ?endemic.
- 160.2.15 **Piper eucalyptolimbium** C. DC., **FMP3** 49; scandent shrub; hill forest; Larut, Pk; ?endemic.
- 160.2.16 **Piper febrifugum** C. DC., **FMP3** 39; scandent shrub; lowland forest; Pk; ?endemic.
- 160.2.17 **Piper filipes** C. DC., **FMP3** 49; ?; Larut, Pk; ?endemic.
- 160.2.18 **Piper firmum** C. DC., **FMP3** 31; ?climber; Tapah, Pk.
- 160.2.19 **Piper flavibaccum** C. DC., **FMP3** 49; ?; Gg Batu Puteh, Pk; ?endemic.
- 160.2.20 **Piper flavimarginatum** C. DC., **FMP3** 31; stout climber; lowland forest; Sp; ?endemic.
- 160.2.21 **Piper flavispicum** C. DC., **FMP3** 46; herb to 60 cm tall; on limestone; Sg Prya, Pk; ?endemic.
- 160.2.22 **Piper globulistigma** C. DC., **FMP3** 43; ?; Pk; ?endemic.
- 160.2.23 **Piper gymnocladum** C. DC., **FMP3** 46; straggling climber; hill forest; Pk; ?endemic.
- 160.2.24 **Piper gymnophyllum** C. DC., **FMP3** 49; ?; Gg Bujong Malacca, Pk; ?endemic.
- 160.2.25 **Piper klossii** Ridl., **FMP3** 35; scandent shrub; montane forest; Sl; ?endemic.
- 160.2.26 **Piper kotanum** C. DC., **FMP3** 45, **C14** 198; herb to 20 cm tall; mostly from limestone; Kd, Kl, Ph; endemic.
- 160.2.27 **Piper kunstleri** C. DC., **FMP3** 50; herb to 1 m tall; among rocks; Pn; ?endemic.

- 160.2.28 **Piper kurzii** Ridl., **FMP3** 43; small shrub; lowland and montane forest; Kl, Pk, Ph, Sl.
- 160.2.29 **Piper lanatum** Roxb., **FMP3** 38; creeper; lowland forest; scattered.
- 160.2.30 **Piper larutanum** C. DC., **FMP3** 37; scandent shrub; lowland forest; Larut, Pk; ?endemic.
- 160.2.31 **Piper leptonema** Hook.f., **FMP3** 50; climber; hill forest; Pn, Pk.
- 160.2.32 **Piper lonchites** Wall., **FMP3** 49; slender woody climber; on rocks in hill forest; Pn, Pk; ?endemic.
- 160.2.33 **Piper longamentum** C. DC., **FMP3** 48; scandent shrub; hill forest; Pk; ?endemic.
- 160.2.34 **Piper longibracteum** C. DC., **FMP3** 37; climber; hill forest; Pk; ?endemic.
- 160.2.35 **Piper longicaule** C. DC., **FMP3** 51; climber; lowland forest; Pn, Pk, Ml.
- 160.2.36 **Piper lowong** Blume, **FMP5** 328; climber; P. Langkawi, Pk.
- 160.2.37 **Piper macropiper** Pennant, **C11** 10; *Piper miniatum* Blume, **FMP3** 39; *Piper arborescens* Roxb., **Q02** 20; climber; on rocks and trees in lowland and hill forest; widespread west of Main Range.
- 160.2.38 **Piper magnibaccum** C. DC., **FMP3** 46; climber reaching to 4 m; hill forest; Pk, Ph, Sl; ?endemic.
- 160.2.39 **Piper maingayi** Hook.f., **FMP3** 31; ?climber; lowland forest; Sl, Ml, Sp; ?endemic.
- 160.2.40 **Piper maxwellianum** C. DC., **FMP3** 35; climber; hill forest; Taiping Hills, Pk; ?endemic.
- 160.2.41 **Piper minutistigmum** C. DC., **FMP3** 43; large climber; Larut, Pk; ?endemic.
- 160.2.42 **Piper mucronatum** C. DC., **FMP3** 36; slender liana; lowland forest, occasionally on limestone; Pk; endemic.
- 160.2.43 **Piper muricatum** Blume, **FMP3** 32; subshrub to 60 cm tall; lowland forest; widespread.
- 160.2.44 **Piper obovantherum** C. DC., **FMP3** 47; ?; Penang Hill; ?endemic.
- 160.2.45 **Piper oreophilum** Ridl., **FMP3** 41; small shrub; montane forest; Gg Tahan, Ph; ?endemic.
- 160.2.46 **Piper pachyphyllum** Hook.f., **FMP3** 31; ?climber; lowland forest; Sl, Ml, Sp; ?endemic.

- 160.2.47 **Piper paucistigmum** C. DC., **FMP3** 35; slender creeper; bamboo forest; Pk; ?endemic.
- 160.2.48 **Piper pedicellosum** Wall., **FMP3** 34; slender liana; lowland forest; Pk, Sl, Ml, Sp.
- 160.2.49 **Piper penangense** C. DC., **FMP3** 42; subshrub to 60 cm tall; hill forest; Pn, Pk; ?endemic.
- 160.2.50 **Piper pentandrum** C. DC., **FMP3** 30; ?climber; Pk; ?endemic.
- 160.2.51 **Piper polyganum** C. DC., **FMP3** 31; large climber; hill forest; Pk.
- 160.2.52 **Piper porphyrophyllum** N.E. Br., **FMP3** 45; slender climber; lowland forest; widespread; ?endemic.
- 160.2.53 **Piper protractum** C. DC., **FMP3** 33, **C10** 147; *Piper malaccense* C. DC., **FMP3** 33; shrub; lowland forest; NS, Ml, Jh, Sp.
- 160.2.54 **Piper puberulirameum** C. DC., **FMP3** 45; ?shrub; hill forest; Pn; ?endemic.
- 160.2.55 **Piper ramipilum** C. DC., **FMP3** 39; creeper to 6 m long; hill forest; Pn, Pk, Jh; ?endemic.
- 160.2.56 **Piper rarispicum** C. DC., **FMP3** 32; ?climber; hill forest; Pn; ?endemic.
- 160.2.57 **Piper retrofractum** Vahl, **Q02** 106; *Piper officinarum* C. DC., **FMP5** 328; scandent shrub; coastal scrub; Ml, Jh.
- 160.2.58 **Piper ribesioides** Wall., **FMP3** 34; climber; common in lowland forest; widespread.
- 160.2.59 **Piper ridleyi** C. DC., **FMP3** 33, **C10** 148; shrub; hill forest; Pk, Sl.
- 160.2.60 **Piper rufibracteatum** C. DC., **FMP3** 48; Ml; ?endemic.
- 160.2.61 **Piper rufispicum** C. DC., **FMP3** 42; Gg Hijau, Pk; ?endemic.
- 160.2.62 **Piper sarmentosum** Roxb., **FMP3** 40; creeping herb to 20 cm tall; banks, waste ground, plantations; widespread.
- 160.2.63 **Piper schizonephros** C. DC., **FMP3** 32; ?climber; Pn, Ml.
- 160.2.64 **Piper scortechinii** C. DC., **FMP3** 50; slender creeper; hill forest and limestone; Pk; ?endemic.
- 160.2.65 **Piper selangorensis** C. DC., **FMP3** 34; scandent shrub; montane forest; Sl; ?endemic.
- 160.2.66 **Piper semangkoanum** C. DC., **FMP3** 45; erect plant; hill forest; Pk, Sl; ?endemic.

- 160.2.67 **Piper stylosum** Miq., **FMP3** 42; herb to 40 cm tall; lowland forest; widespread.
- 160.2.68 **Piper subalbicans** C. DC., **FMP3** 37; ?climber; montane forest; Gg Batu Puteh, Pk; ?endemic.
- 160.2.69 **Piper subfragile** C. DC., **FMP3** 46; climber; Kurau, Pk; ?endemic.
- 160.2.70 **Piper subgrande** Ridl., **FMP5** 329; woody climber; lowland forest; Ulu Batang Padang, Pk; ?endemic.
- 160.2.71 **Piper subpenninerve** (C. DC.) Ridl., **FMP3** 47; climber; Pk, Sl.
- 160.2.72 **Piper subrubripicum** C. DC., **FMP3** 44; shrub to 1 m tall; Pk; ?endemic.
- 160.2.73 **Piper subsessililimum** C. DC., **FMP3** 48; scandent shrub; Gopeng, Pk; ?endemic.
- 160.2.74 **Piper umbellatum** L., **FMP3** 51; shrub to 2 m tall; damp rocky forest; widespread.
- 160.2.75 **Piper uncinulatum** Ridl., **FMP5** 329; scandent shrub; hill forest; Fraser's Hill, Ph; ?endemic.
- 160.2.76 **Piper velutinervium** C. DC., **FMP3** 44; ?shrub; among rocks in hill forest; near Larut, Pk.
- 160.2.77 **Piper venosum** Ridl., **FMP3** 327; climber; Gg Angsi, NS; ?endemic.
- 160.2.78 **Piper xanthocarpum** C. DC., **FMP3** 36; climber; hill forest; Pk; ?endemic.
- 160.3.1 **Zippelia begoniifolia** Blume, **C14** 199; *Zippelia lappacea* Blume, **FMP3** 25; herb to 30 cm tall; lowland forest; Pk.

161. PITTOSPORACEAE

- 161.1.1 **Pittosporum ferrugineum** W.T. Aiton, **FMP1** 136, **FM15** 355, **TFM2** 310; shrub or tree to 15 m tall; common near rocky or sandy shores, rarely on limestone; throughout.
- 161.1.2 **Pittosporum reticosum** Ridl., **FMP1** 137, **FM15** 354, **TFM2** 309; shrub 3-5 m tall; montane forest 1000-1800 m; Tg, Ph, Sl.

162. PLANTAGINACEAE

- 162.1.1 **Plantago major** L., **C26** 662; *Plantago asiatica* Michx., **FMP2** 225; herb; waste ground; widespread.

163. PLUMBAGINACEAE

- 163.1.1 **Plumbago zeylanica** L., **FMP2** 225, **FM14** 109; straggling shrub to 2.5 m long; open sites, roadsides; widespread.

164. PODOSTEMACEAE

- 164.1.1 **Malaccotristicha malayana** (J. Dransf. & Whitmore) C. Cusset & G. Cusset, **C34** 175; *Indotristicha malayana* J. Dransf. & Whitmore, **D37** 154; creeping herb with leafy shoots to 2 cm tall; on rocks submerged in fast-flowing rivers; Tg, Ph; endemic.

165. POLYGALACEAE

- 165.1.1 **Epirixanthes elongata** Blume, **FMP1** 140, **FM10** 490; violet or red saprophytic herb to 25 cm tall; lowland to montane forest; quite widespread.
- 165.2.1 **Polygala cardiocarpa** Kurz, **FMP1** 139 in part, **FM10** 463; herb to 25 cm tall; on limestone; P. Langkawi.
- 165.2.2 **Polygala chinensis** L., **FM10** 478; herb to 75 cm tall; waste places; Pn.
- 165.2.3 **Polygala glaucoides** L., **FM10** 480; *Polygala brachystachya* (non Poir.) Blume, **FMP1** 139; erect or prostrate herb to 40 cm tall; waste places; Sp.
- 165.2.4 **Polygala malesiana** Adema, **FM10** 463; *Polygala cardiocarpa* auct. non Kurz, **FMP1** 139 in part; herb to 25 cm tall; on open limestone; Pk, Ph, Sl.
- 165.2.5 **Polygala oreotrephe**s B.L. Burtt, **FM10** 467; *Polygala monticola* (non Kunth) Ridl., **FMP1** 138; shrub 30–90 cm tall; rocky places in the mountains; Pk, Ph, Sl.
- 165.2.6 **Polygala paniculata** L., **FM10** 475, **M47** 480; erect herb to 50 cm tall; waste places; Sp; naturalized from Tropical America.
- 165.2.7 **Polygala polifolia** Presl, **FM10** 476; erect or prostrate herb to 50 cm tall; roadsides, waste places; Jh.
- 165.2.8 **Polygala venenosa** Juss. ex Poir., **FMP1** 138, **FM10** 468; *Polygala pulchra* Hassk., **FMP1** 138; shrub to 5 m tall; lowland and hill forest; widespread.
- 165.3.1 **Salomonina cantoniensis** Lour., **FMP1** 139, **FM10** 487; small herb to 30 cm tall; open grassy places; widespread.
- 165.3.2 **Salomonina ciliata** (L.) DC., **FMP1** 140, **FM10** 487; *Salomonina oblongifolia* DC., **FMP1** 140; herb to 25 cm tall; open sandy places; P. Langkawi.

- 165.4.1 **Securidaca inappendiculata** Hassk., **FMi10** 483; *Securidaca tavoyana* Wall. ex Benn., **FMP1** 141; *Securidaca bracteata* Benn., **FMP1** 141; liana; lowland and hill forest to 1000 m; scattered.
- 165.5.1 **Xanthophyllum affine** Korth. ex Miq., **FMP1** 143 in part, **TFM1** 354 in part, **FMi10** 503; tree to 30 m tall, usually smaller; lowlands and mountains; widespread.
- 165.5.2 **Xanthophyllum amoenum** Chodat, **TFM1** 356, **FMi10** 533; tree to 35 m tall; lowland and hill forest; Kd, Kl, Tg, Pk, Ph, Sl, NS, Ml.
- 165.5.3 **Xanthophyllum bullatum** King, **FMP1** 144, **TFM1** 356, **FMi10** 501; shrub or small tree to 5 m tall; moist sites in lowland forest; Tg, Pk, Sl; endemic.
- 165.5.4 **Xanthophyllum chartaceum** Meijden, **FMi10** 539; *Xanthophyllum* sp. E, **TFM1** 366; tree to 30 m tall; lowland forest; Tg, Ph.
- 165.5.5 **Xanthophyllum cockburnii** Meijden, **FMi10** 502; tree 20 m tall; lowland forest; only known from type, Sg Anak Endau, Ph; endemic.
- 165.5.6 **Xanthophyllum discolor** Chodat, **FMP1** 147, **TFM1** 356, **FMi10** 520; shrub or small tree to 10 m tall; lowland forest; Jh, Sp.
- 165.5.7 **Xanthophyllum ellipticum** Korth. ex Miq., **TFM1** 357, **FMi10** 530; *Xanthophyllum kingii* Chodat, **FMP1** 143; tree to 30 m tall; lowlands, sometimes at much higher elevations; Kd, Pn, Pk, Ph, Sl, Sp.
- 165.5.8a **Xanthophyllum eurhynchum** Miq. ssp. **eurhynchum**, **FMi10** 525; *Xanthophyllum verrucosum* Chodat, **FMP1** 147; *Xanthophyllum maingayi* auct. non Hook.f. ex A.W. Benn., **FMP1** 360 in part; shrub or tree to 20 m tall; lowland to mountains, forest understorey; widespread.
- 165.5.8b **Xanthophyllum eurhynchum** Miq. ssp. **maingayi** (Hook.f. ex A.W. Benn.) Meijden, **FMi10** 525; *Xanthophyllum palembanicum* auct. non Miq., **FMP1** 149; *Xanthophyllum maingayi* Hook.f. ex A.W. Benn., **FMP1** 360 in part; lowland to mountains, forest understorey; widespread.
- 165.5.9 **Xanthophyllum flavescens** Roxb., **FMi10** 500; *Xanthophyllum affine* auct. non Korth. ex Miq., **FMP1** 143 in part, **TFM1** 354 in part; tree to 36 m tall; lowlands and mountains; widespread.
- 165.5.10a **Xanthophyllum griffithii** Hook.f. ex A.W. Benn. ssp. **angustifolium** (Ng) Meijden, **FMi10** 513; *Xanthophyllum griffithii* Hook.f. ex A.W. Benn., **FMP1** 149 in part; *Xanthophyllum griffithii* Hook.f. ex A.W. Benn. var. **angustifolium** Ng, **TFM1** 358; tree to 27 m tall; lower montane forest to 1400 m; Pk, Sl, NS, Ml.

- 165.5.10b **Xanthophyllum griffithii** Hook.f. ex A.W. Benn. ssp. **erectum** Meijden, **FMi10** 514; *Xanthophyllum griffithii* Hook.f. ex A.W. Benn., **FMP1** 149 in part; *Xanthophyllum griffithii* Hook.f. ex A.W. Benn. var. *griffithii*, **TFM1** 359; tree to 27 m tall; lowland and hill forest; Kd, Pn, Tg, Pk, Ph, Sl, NS, Ml, Sp.
- 165.5.11 **Xanthophyllum lanceatum** (Miq.) J.J. Sm., **FMi10** 527; *Xanthophyllum glaucum* Wall. ex Hassk., **FMP1** 147, **TFM1** 357; shrub or tree to 12 m tall; swampy lowland forest usually near streams; Ps, P. Langkawi, Pn, Kl, Pk, Ph.
- 165.5.12 **Xanthophyllum malayanum** Meijden, **FMi10** 526; *Xanthophyllum* sp. A, **TFM1** 365; tree to 10 m tall; lowland forest; Ph, Jh; endemic.
- 165.5.13 **Xanthophyllum monticolum** Meijden, **FMi10** 514; *Xanthophyllum griffithii* Hook.f. ex A.W. Benn. var. *montanum* Ng, **FMP1** 359; tree to 10 m tall; lower montane forest at 1000–1500 m; Ph; endemic.
- 165.5.14 **Xanthophyllum ngii** Meijden, **FMi10** 526; *Xanthophyllum* sp. C, **TFM1** 365; tree to 35 m tall; lowland forest; Tg, NS, Ml.
- 165.5.15 **Xanthophyllum obscurum** A.W. Benn., **FMP1** 144, **TFM1** 361, **FMi10** 536; *Xanthophyllum scortechinii* King, **FMP1** 143, **TFM1** 363; tree to 47 m tall; lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 165.5.16 **Xanthophyllum pubescens** Meijden, **FMi10** 504; *Xanthophyllum* sp. B, **TFM1** 365; shrub or small tree to 12 m tall; lowland to lower montane forest; Ph, Jh; endemic.
- 165.5.17 **Xanthophyllum pulchrum** King, **FMP1** 146, **TFM1** 361, **FMi10** 521; shrub or small tree to 8 m tall; lowland forest; Pn, Tg, Pk, Jh.
- 165.5.18 **Xanthophyllum retinerve** Meijden, **FMi10** 524; tree to 12 m tall; Pk, Tg, Ph; endemic.
- 165.5.19 **Xanthophyllum rufum** Benn., **FMP1** 145, **TFM1** 361, **FMi10** 505; tree to 32 m tall; lowland forest; Kd, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh.
- 165.5.20 **Xanthophyllum stipitatum** A.W. Benn., **FMP1** 145, **TFM1** 363, **FMi10** 535; tree to 50 m tall; lowland and hill forest, usually on ridges; Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 165.5.21 **Xanthophyllum sulphureum** King, **FMP1** 145, **TFM1** 363, **FMi10** 502; tree 30–50 m tall; lowland forest; Kl, Pk, Ph; endemic.
- 165.5.22 **Xanthophyllum venosum** King, **FMP1** 144, **FMi10** 525; *Xanthophyllum wrayi* auct. non King, **TFM1** 363 in part; shrub or small tree to 10 m tall; lowland forest; Pk, Sl.

- 165.5.23 **Xanthophyllum virens** Roxb., **FMI10** 528; tree to 30 m tall; lowland forest; Kl, Pk.
- 165.5.24 **Xanthophyllum vitellinum** (Blume) Dietr., **FMI10** 514; *Xanthophyllum hookerianum* King, **FMP1** 144, **TFM1** 359; *Xanthophyllum curtisii* King, **FMP1** 146; *Xanthophyllum kunstleri* King, **FMP1** 146, **TFM1** 359; *Xanthophyllum griffithii* Hook.f. ex A.W. Benn. var. *curtisii* (King) Ng, **FMP1** 359; tree to 30 m tall; lowland to lower montane forest; Pn, Kl, Pk, Ph, NS, Ml, Jh, Sp.
- 165.5.25 **Xanthophyllum wrayi** King, **FMP1** 148, **TFM1** 363 in part, **FMI10** 525; *Xanthophyllum puberulum* Ridl., **FMP1** 146; shrub or small tree to 10 m tall; lowland and hill forest; Pn, Kl, Pk, Ph, Sl, NS, Jh, Sp.
166. POLYGONACEAE
- 166.1.1 **Aconogonum molle** (D. Don) var. **frondosum** (Meisn.) H. Hara, **H17** 172; *Polygonum paniculatum* Blume, **D01** 233, **S46** 254; herb; montane forest clearings; Gg Brinchang, Cameron Highlands, Ph.
- 166.2.1 **Persicaria attenuata** (R.Br.) Soják ssp. **pulchra** (Blume) K.L. Wilson, **W20** 629; *Polygonum tomentosum* (non Schrank) Willd., **FMP3** 11; *Polygonum pulchrum* Blume ssp. *hallieri* Danser, **D01** 157; herb to 60 cm tall; wet places in open country; Ps, Pn, Pk, Ml.
- 166.2.2 **Persicaria barbata** (L.) H. Hara var. **gracilis** (Danser) H. Hara, **H17** 175; *Polygonum barbatum* L. ssp. *gracile* Danser, **FMP3** 11, **D01** 145; herb to 3 m tall; wet open spots in lowlands and hills; widespread; herb to 1 m tall; ditches and other damp places; widespread.
- 166.2.3 **Persicaria capitata** (Buch.-Ham. ex D. Don) H. Gross, **H17** 175; *Polygonum capitatum* Buch.-Ham. ex D. Don, **FMP5** 326; tufted wiry herb; waste ground at the hill resorts; Pk, Ph; naturalized from India.
- 166.2.4a **Persicaria chinensis** (L.) H. Gross var. **chinensis**, **H17** 175; *Polygonum chinense* L., **FMP3** 12, **D01** 209; scrambling herb; damp waste ground in lowlands and mountains; widespread.
- 166.2.4b **Persicaria chinensis** (L.) H. Gross var. **ovalifolia** (Meisn.) H. Hara, **H17** 175; *Polygonum malaicum* Danser, **D01** 218; *Polygonum auriculatum* Meisn., **V18** 357; herb to 1.5 m tall; damp open places in the mountains; Ph.
- 166.2.5 **Persicaria dichotoma** (Blume) Masam., **W19** 179; *Polygonum dichotomum* Blume, **D01** 222; *Polygonum pedunculare* Meisn., **FMP3** 14; slender aquatic herb to 30 cm tall; ditches and ponds; widespread.

- 166.2.6 **Persicaria hydropiper** (L.) Spach, **H17** 176, **W19** 179; *Polygonum hydropiper* L. ssp. *microcarpum* Danser, **FMP3** 12, **D01** 187; herb to 50 cm tall; damp sandy spots; Kl, Ph, NS
- 166.2.7 **Persicaria nepalensis** (Meisn.) H. Gross, **H17** 177, **T19** 126; herb; damp open places; Cameron Highlands, Ph; probably naturalized from Continental Asia.
- 166.2.8 **Persicaria orientalis** (L.) Spach, **W19** 179; *Polygonum orientale* L., **D01** 168, **T05** 131; herb; waste ground; Sp.
- 166.2.9 **Persicaria pubescens** (Blume) H. Hara, **H17** 177; *Polygonum flaccidum* auct. non Roxb., **FMP3** 12; *Polygonum pubescens* Blume, **D01** 193; herb; damp places; widespread.
- The Malayan plants are probably var. *acuminata* (Franch. & Sav.) H. Hara.
- 166.2.10 **Persicaria strigosa** (R.Br.) Nakai, **H17** 178; *Polygonum strigosum* R.Br., **FMP3** 13, **D01** 227; straggling herb to 1 m tall; once from Pn.
- 166.2.11 **Persicaria tenella** (Blume) H. Hara var. **kawagoeana** (Makino) H. Hara, **H17** 178; *Polygonum minus* Huds. ssp. *micranthum* Danser, **D01** 176, **FMP3** 11; slender herb to 30 cm tall; wet places; Pk, Ph, Sl.
- 166.2.1 **Rumex crispus** L., **S48** 255; herb; weed of tea plantation; Cameron Highlands, Ph; naturalized from Europe.
- 166.2.2 **Rumex patentia** L., **S48** 255; herb; weed of tea plantation; naturalized from Central Asia.

167. PORTULACACEAE

- 167.1.1 **Portulaca oleracea** L., **FMP1** 151, **FM17** 129, **M47** 490; fleshy herb to 40 cm tall; waste places, weed of cultivation; widespread.
- 167.1.2 **Portulaca pilosa** L., **FMP5** 289, **FM17** 131; herb to 30 cm tall; open sandy places; Sl, Jh; naturalized.
- 167.1.3 **Portulaca quadrifida** L., **FMP1** 151, **FM17** 127; small creeping herb; open sandy ground, weed of cultivation; widespread.
- 167.2.1 **Talinum paniculatum** (Jacq.) Gaertn., **FM17** 124, **T05** 131; semi-woody plant to 70 cm tall; waste places; Sp; naturalized from tropical America.

168. PRIMULACEAE

- 168.1.1 **Lysimachia peduncularis** Wall. ex Kurz, **FM16** 182, **C14** 201; herb to 30 cm tall; on open limestone; twice collected at Batu Ayam on P. Langkawi.

169. PROTEACEAE

- 169.1.1 ***Helicia attenuata*** (Jack) Blume, **FMP3** 141, **FMi5** 186, **TFM2** 313; *Helicia suffruticosa* Ridl., **FMP3** 141; shrub or small tree to 20 m tall; lowlands and mountains near streams; Ps, Kd, Kl, Tg, Pn, Pk, Ph, Sl, Jh.
- 169.1.2 ***Helicia excelsa*** (Roxb.) Blume, **FMP3** 143 incl. var. *forbesii* Gamble & var. *salicifolia* (Prain) Gamble, **FMi5** 174, **TFM2** 315; *Alseodaphne crassipes* Hook.f., **FMP3** 100; small tree to 10 m tall; lowland forests; Kd, Pk, Sl, NS, Ml, Sp.
- 169.1.3 ***Helicia maxwelliana*** Gibbs, **FMi5** 178, **TFM2** 312; small tree to 3 m tall; montane forest at 1200 m; one sterile specimen from Gg Padang, Tg.
- 169.1.4a ***Helicia petiolaris*** Benn. var. *kingiana* (Prain) Sleumer, **FMi5** 189, **TFM2** 315; *Helicia kingiana* Prain, **FMP3** 142; tree to 27 m tall; montane forests 650–1300 m; Kd, Tg, Pk, Ph, Sl.
- 169.1.4b ***Helicia petiolaris*** Benn. var. *petiolaris*, **FMP3** 141, **FMi5** 188, **TFM2** 315; shrub or small tree to 18 m tall; lowland and hill forest to 900 m; Kd, Pk, Sl, NS, Ml.
- 169.1.5 ***Helicia robusta*** (Roxb.) R.Br. ex Wall., **FMP3** 142, **FMi5** 184, **TFM2** 315; small tree to 10 m tall; lowland and hill forest, mostly near streams; Kd, Kl, Tg, Ph, Sl, Ml, Jh, Sp.
- 169.1.6 ***Helicia rufescens*** Prain, **FMP3** 142, **FMi5** 171, **TFM2** 315; tree to 27 m tall; lowland and montane forest to 1700 m; Kd, Kl, Pk, Ph, Sl, Jh.
- 169.1.7 ***Helicia serrata*** (R.Br.) Blume, **FMi5** 176, **TFM2** 316; *Helicia curtisii* Gamble, **FMP3** 142; *Helicia scortechinii* Gamble, **FMP3** 143; tree to 8 m tall; hill forest; Pn, Pk (one collection each).
- 169.2.1 ***Heliciopsis cockburnii*** Kochummen, **TFM2** 317; tree to 24 m tall; lowland and hill forest to 800 m; Tg, Pk; endemic.
- 169.2.2 ***Heliciopsis montana*** Kochummen, **TFM2** 317; tree to 26 m tall; montane forest about 1300 m; Pk, Ph; endemic.
- 169.2.3 ***Heliciopsis ruficula*** Sleumer, **FMi5** 192, **TFM2** 319; tree to 33 m tall; lowland and montane forest to 1500 m; Tg, Pk, Ph, Sl; endemic.
- 169.2.4 ***Heliciopsis velutina*** (Prain) Sleumer, **FMi5** 191, **TFM2** 320; *Helicia velutina* Prain, **FMP3** 143; tree to 23 m tall; lowland forests; Tg, Pk, Ph, Sl, Jh; endemic.
- 169.2.5 ***Heliciopsis whitmorei*** Kochummen, **TFM2** 320; tree to 21 m tall; lowland and hill forest 200–700 m; Tg; endemic.

170. RAFFLESIACEAE

- 170.1.1 **Rafflesia cantleyi** Solms, **M29** 210; *Rafflesia hasseltii* auct. non Suringar, **FMP3** 19; parasite of *Tetrastigma* lianas; lowland forest; widespread; ?endemic.
- 170.1.2 **Rafflesia kerrii** Meijer, **M29** 210; parasite of *Tetrastigma* lianas; lowland forest.
- 170.2.1 **Rhizanthus lowi** (Becc.) Harms, **M30** 335; *Brugmansia lowi* Becc., **FMP3** 20; parasite of *Tetrastigma* lianas; lowland and hill forest; Tg, Pk, Ph.
- 170.2.2 **Rhizanthus zippelii** (Blume) Spach, **M30** 339; parasite of lianas; lowland forest; once from near Chenderiang, Pk.

Plants similar to *Rafflesia hasseltii* Suringar [**M29** 210] have recently been reported from the Gerik area of Perak [**L14** 185].

171. RANUNCULACEAE

- 171.1.1 **Anemone sumatrana** de Vriese, **FMP5** 286, **E02** 10; herb to 60 cm tall; mountains; Cameron Highlands, Ph.
- 171.2.1 **Clematis papillosa** H. Eichler, **E02** 50; climber; once from near Taiping, Pk.
- 171.2.2 **Clematis smilacifolia** Wall., **FMP1** 1, **E02** 44; slender climber; open places; Pn, Jh.
- 171.3.1 **Naravelia dasyoneura** Korth., **E02** 58; *Naravelia axillaris* Ridl., **FMP1** 2; slender climber; hedges in ricefields; once from Kangar, Ps.
- 171.3.2 **Naravelia laurifolia** Wall. ex Hook.f. & Thomson, **FMP1** 2, **E02** 54; climber; lowland to montane forest; Pn, Tg, Pk, Ph, Sl.

172. RHAMNACEAE

- 172.1.1 **Colubrina asiatica** L. ex Brongn., **FMP1** 465, **TFM4** 298; shrub to 3 m tall; sandy and rocky shores; all coasts.
- 172.1.2 **Colubrina beccariana** Warb., **S76** 312; *Colubrina anomala* King, **FMP1** 465, **TFM4** 298; small tree to 15 m tall; hill forest; Pk.
- 172.2.1 **Gouania javanica** Miq., **FMP1** 469; slender woody climber; open country; Ml northwards.
- 172.2.2 **Gouania leptostachya** DC., **FMP1** 469; slender woody climber; lowland forest margins; scattered localities.

- 172.3.1a **Rhamnus borneensis** Steenis var. **borneensis**, **TFM4** 299; tree to 12 m tall; montane forest; Gg Jerai, Kd.
- 172.3.1b **Rhamnus borneensis** Steenis var. **estellare** Steenis, **TFM4** 299; *Oreorhamnus serrulata* Ridl., **FMP1** 464; tree to 12 m tall; montane forest; Ph, Sl.
- 172.3.2 **Rhamnus nipalensis** (Wall.) Lawson, **TFM4** 299; liana; lowland forest; Taman Negara, Ph.
- 172.4.1 **Sageretia thea** (Osbeck) M.C. Johnst., **TFM4** 297; *Sageretia parviflora* Don, **FMP1** 464; scrambling shrub; exposed limestone; only known from Gua Batu, Sl.
- 172.5.1 **Smythea lanceata** (Tul.) Summerh., **S72** 389; *Smythea pacifica* Seem., **FMP1** 468; liana; seashores; widespread.
- 172.5.2 **Smythea lancifolia** Ridl., **FMP5** 300; slender climber; lowland and hill forest; Pn; ?endemic.
- 172.5.3 **Smythea macrocarpa** Hemsl., **FMP1** 468; liana; lowland forest; Pn, Pk.
- 172.5.4a **Smythea velutina** (Ridl.) S.P. Banerjee & P.K. Mukh. var. **kingiana**, **B09** 251; *Ventilago velutina* Ridl., **FMP1** 467 in part; woody climber; Pk; endemic.
- 172.5.4b **Smythea velutina** (Ridl.) S.P. Banerjee & P.K. Mukh. var. **velutina**, **B09** 251; *Ventilago velutina* Ridl., **FMP1** 467 in part; woody climber; Pk; endemic.
- 172.6.1 **Ventilago gladiata** Pierre, **FMP1** 467; woody climber; lowland forest, mostly on limestone; Kl, Pk, Ph.
- 172.6.2 **Ventilago kurzii** Ridl., **FMP5** 300; woody climber; P, Langkawi.
- 172.6.3 **Ventilago maingayi** Lawson, **FMP1** 467; woody climber; lowland forest margins; widespread.
- 172.6.4 **Ventilago malaccensis** Ridl., **FMP1** 466; woody climber; lowland forest; widespread.
- 172.6.5 **Ventilago oblongifolia** Blume, **FMP1** 467; stout woody climber; lowland forest, also on limestone; widespread.
- 172.7.1 **Ziziphus affinis** Hemsl., **FMP1** 464, **TFM4** 300; prickly liana; lowland forest; Ps, Kd, Pk.
- 172.7.2 **Ziziphus angustifolia** (Miq.) Hatus. ex Steenis, **TFM4** 300; small tree without prickles; lowland forest; Ps, Kd, Kl, Pk, Ph.
- 172.7.3 **Ziziphus calophylla** Wall. ex Hook.f., **FMP1** 463, **TFM4** 300; prickly liana or scandent shrub; lowland forests; throughout.

- 172.7.4 **Ziziphus elegans** Wall., **FMP1** 463, **TFM4** 300; slender thorny climbing shrub; lowland forest margins; Pk, Ph, Sl, Ml, Sp.
- 172.7.5 **Ziziphus grewoides** (Warb.) L.M. Perry, **V15** 595, **TFM4** 300 '*grewiodes*'; prickly liana or scandent shrub; lowland forests; Ps, Kd, Pk.
- 172.7.6 **Ziziphus horsfieldii** Miq., **FMP1** 463, **TFM4** 300; slender thorny liana; lowland forest; Sl, Ml, Sp.
- 172.7.7 **Ziziphus kunstleri** King, **FMP1** 462, **TFM4** 300; thorny scrambling shrub; lowland forests; throughout.
- 172.7.8 **Ziziphus oenoplia** (L.) Mill., **FMP1** 462, **TFM4** 300; rambling thorny bush; thickets and open country; throughout.
- 172.7.9 **Ziziphus pernettoides** Ridl., **FMP1** 463; thorny scrambling shrub; on limestone; Ps, Kd, Pk, Sl; endemic.

173. RHIZOPHORACEAE

- 173.1.1 **Bruguiera cylindrica** (L.) Blume, **FMi5** 467, **TFM4** 310; *Bruguiera caryophylloides* Blume, **FMP1** 695; tree to 23 m tall; muddy mangroves; widespread.
- 173.1.2 **Bruguiera gymnorrhiza** (L.) Lam., **FMP1** 695, **FMi5** 461, **TFM4** 310; tree to 36 m tall; mangroves, usually to the landward fringe; widespread.
- 173.1.3 **Bruguiera hainesii** C.G. Rogers, **FMi5** 468, **TFM4** 310; tree to 33 m tall; inland edge of mangrove; Sl, NS.
- 173.1.4 **Bruguiera parviflora** (Roxb.) Wight & Arn. *ex* Griff., **FMP1** 695, **FMi5** 464, **TFM4** 310; tree to 24 m tall; inner side of mangrove forests; all coasts.
- 173.1.5 **Bruguiera sexangula** (Lour.) Poir., **FMi5** 463, **TFM4** 312; *Bruguiera eriopetala* Wight & Arn. *ex* Arn., **FMP1** 695; tree to 33 m tall; mangroves, usually to the landward fringe; all coasts.
- 173.2.1 **Carallia brachiata** (Lour.) Merr., **FMi5** 485, **TFM4** 313; *Carallia integerrima* DC., **FMP1** 696; *Carallia scortechinii* King, **FMP1** 697; *Carallia spinulosa* Ridl., **FMP1** 698; *Carallia lancaefolia* Roxb., **TFM4** 315; tree to 33 m tall; lowland and hill forest, also in swamps; Kd, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 173.2.2 **Carallia eugenioidea** King, **FMP1** 697, **FMi5** 484, **TFM4** 313; *Carallia montana* Ridl., **FMP1** 697; *Carallia euryoides* Ridl., **FMP1** 698, **TFM4** 313; shrub or small tree to 21 m tall; montane forests above 1200 m; Kl, Pk, Ph.
- 173.2.3 **Carallia suffruticosa** Ridl., **FMP1** 698, **FMi5** 485, **TFM4** 315; shrub 2-3 m tall; lowland forest; Tg, Pk, Sl.

- 173.3.1 **Ceriops decandra** (Griff.) W. Theob., **FMi5** 471, **TFM4** 316, **M06** 154; small tree to 15 m tall; mangrove; East Coast.
- 173.3.2 **Ceriops tagal** (Pers.) C.B. Rob., **FMi5** 469, **TFM4** 316; *Ceriops candolliana* Arn., **FMP1** 694; tree to 15 m tall; mangrove; commoner on West Coast.
- 173.4.1 **Gynotroches axillaris** Blume, **FMP1** 698, **FMi5** 488, **TFM4** 317; small tree exceptionally reaching 36 m tall; lowlands, including swamps, to mountains at 1400 m; throughout.
- 173.5.1 **Kandelia candel** (L.) Druce, **FMi5** 473, **TFM4** 319; *Kandelia rheedei* Wight & Arn., **FMP1** 694 '*rheedii*'; shrub or small tree to 7 m tall; banks of tidal rivers; sporadic.
- 173.6.1 **Pellacalix axillaris** Korth., **FMP1** 699, **FMi5** 493, **TFM4** 320; tree to 24 m tall; damp or wet lowland or hill forest; widespread.
- 173.6.2 **Pellacalix saccardianus** Scort., **FMP1** 699, **FMi5** 491, **TFM4** 320; tree to 30 m tall; lowland and hill forest to 900 m; widespread; endemic.
- 173.7.1 **Rhizophora apiculata** Blume, **FMi5** 452, **TFM4** 322; *Rhizophora conjugata* auct. non L., **FMP1** 693; stilt-rooted tree to 30 m tall; mangrove gregarious on soft estuarine mud; all coasts.
- 173.7.2 **Rhizophora mucronata** Lam., **FMP1** 693, **FMi5** 453, **TFM4** 322; stilt-rooted tree to 30 m tall; gregarious mangrove of muddy or sandy shores; all coasts.
- 173.7.3 **Rhizophora stylosa** Griff., **FMP1** 693, **FMi5** 456, **TFM4** 323; stilt-rooted tree to 10 m tall; sandy and rocky shores; P. Langkawi, Ml, Jh, Sp.
174. **ROSACEAE**
- 174.1.1 **Eriobotrya bengalensis** (Roxb.) Hook.f., **FMP1** 681, **TFM2** 326, **FMi11** 309; shrub or large tree to 27 m tall; offshore islands, limestone hills and mountains; scattered widely.
- 174.2.1a **Photinia integrifolia** Lindl. var. *integrifolia*, **S59** 190; shrub; montane forest at 1550 m; Gg Ulu Kali, Ph.
- 174.2.1b **Photinia integrifolia** Lindl. var. *sublanceolata* Miq., **TFM2** 323, **FMi11** 314; shrub or small tree to 15 m tall; montane forest at 1200 m; once from Gg Benom, Ph.
- 174.3.1 **Potentilla indica** (Andr.) Wolf, **FMi11** 291; *Duchesnea indica* (Andr.) Focke, **K09** 27; stoloniferous rosette herb; waste places; scattered; naturalized from elsewhere in tropical Asia.

- 174.4.1a **Prunus arborea** (Blume) Kalkman var. **arborea**, **TFM2** 338 in part, **FMi11** 332; *Pygeum parviflorum* Teijsm. & Binn., **FMP1** 675; *Pygeum persimile* Kurz, **FMP1** 675; *Pygeum griffithii* Hook.f., **FMP1** 676; tree to 30 m tall; lowland to lower montane forest at 1300 m; Pk, Sl, NS, Ml, Sp.
- 174.4.1b **Prunus arborea** (Blume) Kalkman var. **densa** (King) Kalkman, **TFM2** 338 in part, **FMi11** 332; *Pygeum patens* Ridl., **FMP1** 676; *Pygeum ovalifolium* King, **FMP1** 677; *Pygeum rubiginosum* Ridl., **FMP1** 677; tree to 26 m tall; lowland to lower montane forest at 1300 m; Kd, Pn, Pk, Ph, Sl, Jh.
- 174.4.1c **Prunus arborea** (Blume) Kalkman var. **stipulacea** (King) Kalkman, **TFM2** 338 in part, **FMi11** 332; *Pygeum stipulaceum* King, **FMP1** 673; tree to 20 m tall; lowland to lower montane forest at 1300 m; Kd, Pk, Ph, Jh, Sp.
- 174.4.2 **Prunus glabrifolia** Kalkman, **TFM2** 338, **FMi11** 337; *Pygeum scortechinii* King, **FMP1** 674; *Pygeum brevifolium* Hook.f., **FMP1** 676; shrub or small tree to 15 m tall; montane forest; Pk, Sl, Ml, Jh.
- 174.4.3 **Prunus grisea** (Blume) Kalkman var. **tomentosa** (Koord. & Valetton) Kalkman, **TFM2** 337, **FMi11** 339; *Pygeum lanceolatum* Hook.f., **FMP1** 674 incl. var. *maingayi* (Hook.f.) Ridl.; *Pygeum hookerianum* King, **FMP1** 676; *Pygeum velutinosum* Ridl., **FMP5** 306; shrub or small tree to 15 m tall; lowland forest to 600 m; widespread.
- 174.4.4 **Prunus javanica** (Teijsm. & Binn.) Miq., **TFM2** 338, **FMi11** 328; *Prunus martabanica* Kurz var. *scortechinii* King, **FMP1** 672; tree to 35 m tall; lowland forest; Kd, Pk, Ph.
- 174.4.5 **Prunus lamponga** (Miq.) Kalkman, **TFM2** 338, **FMi11** 340; *Pygeum coriifolium* Ridl., **FMP1** 675; tree to 15 m tall; lowland forest to 750 m; Pk, Ph, Jh.
- 174.4.6 **Prunus malayana** Kalkman, **TFM2** 338, **FMi11** 341; tree to 30 m tall; lower montane forest at about 1200 m; Tg, Ph, Pk; endemic.
- 174.4.7 **Prunus polystachya** (Hook.f.) Kalkman, **TFM2** 339, **FMi11** 343; *Pygeum polystachyum* Hook.f., **FMP1** 674; tree to 36 m tall; lowland forest; Kl and Pk southward.
- 174.4.8 **Prunus wallichii** Steud., **TFM2** 337, **FMi11** 329; small tree to 9 m tall; montane forest; Tg, Ph.
- Prunus odorata* (M.R. Hend.) Whitmore [**TFM2** 338, **FMi11** 349] remains a dubious species.
- 174.5.1 **Rubus alceifolius** Poir., **FMP1** 677, **FMi11** 268; *Rubus hasskarlii* auct. non Miq., **FMP1** 679 in part; scandent shrub; forest margins; mostly in the hills; Pk, Ph.

- 174.5.2 **Rubus elongatus** Sm., **FMP1** 679, **FMi11** 272; thorny climbing or scrambling shrub; forest margins, roadsides; Pn, Pk, Sl, Jh.
- 174.5.3 **Rubus glomeratus** Blume, **FMi11** 272; weakly prickly scrambling shrub to 3 m tall; forest margins and clearings in the mountains: Pn, Pk.
- 174.5.4a **Rubus moluccanus** L. var. **angulosus** Kalkman, **FMi11** 278; *Rubus angulosus* (*non* Gremli) Focke, **FMP1** 678; climbing and scrambling shrub; forest margins, riverbanks; Kl, Pk, Ph, Sl, Ml, Jh, Sp.
- 174.5.4b **Rubus moluccanus** L. var. **discolor** (Blume) Kalkman, **FMi11** 278; *Rubus hasskarlii* Miq., **FMP1** 679 in part; climbing and scrambling shrub; forest clearings; Pn, Ph.
- 174.5.4c **Rubus moluccanus** L. var. **moluccanus**, **FMi11** 278; *Rubus glomeratus* auct. *non* Blume, **FMP1** 679; climbing and scrambling shrub; forest margins in the lowlands and hills; P. Langkawi, Pn, Tg, Pk, Ph, Sl, NS, Sp.
- 174.5.4d **Rubus moluccanus** L. var. **obtusangulus** Miq., **FMi11** 278; climbing and scrambling shrub; montane forest margins; Cameron Highlands, Ph.
- 174.5.5 **Rubus niveus** Thunb., **FMi11** 264; shrub, sometimes scandent, to 2 m tall; open places in the mountains; Fraser's Hill, Ph; naturalized from continental Asia.
- 174.5.6 **Rubus sumatranus** Miq., **FMi11** 266; *Rubus rosifolius* auct. *non* Sm., **FMP1** 680; erect or scrambling shrub to 2 m tall; forest margins and waste places; hills and mountains at 500–2000 m; Pk, Ph, Sl.
- 174.6.1 **Sorbus corymbifera** (Miq.) Khep & Yakovlev, **K20** 1188; *Pyrus granulosa* Bertol., **FMP1** 680, **TFM2** 340; *Micromeles malayensis* Ridl., **FMP5** 307; *Micromeles corymbifera* (Miq.) Kalkman, **FMi11** 311; tree to 30 m tall, starting life as an epiphyte; montane forest at about 1200 m; quite widespread.

175. RUBIACEAE

- 175.1.1 **Acranthera pulchella** (Ridl.) K.M. Wong, **W22** 29; *Gardenia pulchella* Ridl., **FMP2** 81; *Gardenia virescens* Ridl., **FMP2** 81; subshrub; lower montane forest; Pk, Ph; endemic.
- 175.1.2 **Acranthera didymocarpa** (Ridl.) K.M. Wong, **W22** 30; *Gardenia didymocarpa* Ridl., **FMP2** 81; subshrub; hill forest; Sl, NS; endemic.
- 175.2.1 **Aidia acuminata** (Blume) K.M. Wong, **R20** 167; *Randia binata* King & Gamble, **FMP2** 76; *Gynopachis binata* (King & Gamble) Tirveng., **T14** 283; *Aidia binata* (King & Gamble) K.M. Wong, **W26** 18 in part; climber; Pk, Jh.

- 175.2.2 **Aidia auriculata** (Wall.) Ridsdale, **R20** 16; *Randia auriculata* (Wall.) Steud., **FMP2** 75; *Anomanthodia auriculata* (Wall.) Hook.f., **T14** 277; *Aidia corymbosa* (Blume) K.M. Wong, **W26** 19; liana to 30 m long; lowland forest; Kd, Pk, Sl, NS.
- 175.2.3 **Aidia densiflora** (Wall.) Masam., **R20** 150; *Randia densiflora* (Wall.) Benth., **FMP2** 75; *Aidia wallichiana* (Wall.) Tirveng., **T14** 263, **TFM4** 338; *Aidia cochinchinensis* auct. non Lour., **W26** 10; small tree to 15 m tall; lowland to montane forest; throughout.
- 175.2.4 **Aidia impressinervis** (King & Gamble) Ridsdale, **R20** 168; *Randia impressinervis* King & Gamble, **FMP2** 77; *Gynopachis impressinervis* (King & Gamble) Tirveng., **T14** 283; *Aidia binata* (King & Gamble) K.M. Wong, **W26** 18 in part; strangling root climber; lowland forest; Pk.
- 175.2.5 **Aidia lancifolia** K.M. Wong, **W26** 20, **R20** 16, **T14** 271; *Anomanthodia lancifolia* (K.M. Wong) Tirveng., **T14** 279; climber to 30 m long; once from Jh.
- 175.2.6 **Aidia parvifolia** (King & Gamble) K.M. Wong, **W26** 16, **T14** 271, **TFM4** 338, **R20** 152; *Randia densiflora* (Wall.) Benth. var. *parvifolia* King & Gamble, **FMP2** 76; small tree to 10 m tall; hill forest; P. Langkawi, Kd, Pn, P. Tioman.
- 175.2.7 **Aidia racemosa** (Cav.) Tirveng., **R20** 149; tree to 15 m tall; on limestone.
- 175.3.1 **Aidiopsis orophila** (Miq.) Ridsdale, **R20** 176; *Randia forbesii* King & Gamble, **FMP2** 76; *Aidiopsis forbesii* (King & Gamble) Tirveng., **T14** 288; *Aidia forbesii* (King & Gamble) K.M. Wong, **W26** 17; epiphytic strangler or free-standing shrub; lowland forest; Pk, Sl, Jh.
- 175.4.1 **Aleisanthia rupestris** (Ridl.) Ridl., **FMP2** 20, **TFM4** 339; shrub to 1 m tall; quartzite ridges; only known from Klang Gates, Sl; endemic.
- 175.4.2 **Aleisanthia sylvatica** Ridl., **FMP2** 20, **TFM4** 339; shrub to 4 m tall; lowland and hill forest; Ulu Kelantan; endemic.
- 175.5.1 **Antirhea atropurpurea** (Craib) Chaw ex K.M. Wong, **W27** 493, **TFM4** 339; *Timonius hirsutus* (non Merr.) Ridl., **FMP2** 115; *Timonius atropurpureus* Craib, **C15** 150; *Guettardella atropurpurea* (Craib) M.E. Jansen, **J03** 571; shrub to 3 m tall; lowlands, mostly on limestone; P. Langkawi, Kd, Pn, Pk.
- 175.6.1 **Argostemma acuminatissimum** Ridl., **FMP5** 315; erect herb to 20 cm tall; hill forest; Pk; ?endemic.
- 175.6.2a **Argostemma aequifolium** Ridl. var. *aequifolium*, **FMP2** 25, **B07** 333; creeping herb; montane streams; Mount Ophir, Ml; ?endemic.

- 175.6.2b **Argostemma aequifolium** Ridl. var. **albociliatum** (Ridl.) Bakh.f., **B07** 333; *Argostemma albociliatum* Ridl., **FMP2** 25; creeping herb; mossy rocks; Gg Tahan, Ph; ?endemic.
- 175.6.3 **Argostemma bicolor** King; herb to 10 cm tall; Pk; ?endemic.
- 175.6.4 **Argostemma bifolium** Ridl., **FMP5** 314; *Argostemma pictum* auct. non Wall., **FMP2** 24 in part; small herb; montane forest; Pk; ?endemic.
- 175.6.5 **Argostemma curtisii** King, **FMP2** 33; erect herb to 20 cm tall; in rocky mountain streams; Gg Bujong Malacca, Pk; ?endemic.
- 175.6.6 **Argostemma debile** Ridl., **FMP2** 32; succulent herb to 20 cm tall; montane forest; Gg Mengkuang Lebah, Sl; ?endemic.
- 175.6.7 **Argostemma denticulatum** Ridl., **FMP2** 32; erect herb to 30 cm tall; lower montane forest; Genting Simpah, Sl; ?endemic.
- 175.6.8 **Argostemma diversifolium** Ridl., **FMP2** 23; succulent herb to 1.5 m tall; on limestone; collected once at Lenggong, Pk.
- 175.6.9a **Argostemma elatostemma** Hook.f. var. **elatostemma**, **FMP2** 26, **B33** 14; creeping herb to 10 cm tall; hill forest; Pk, NS.
- 175.6.9b **Argostemma elatostemma** Hook.f. var. **obovatum** King, **FMP2** 26 'obovata'; creeping herb; hill forest; Pn, Pk.
- 175.6.10 **Argostemma elongatum** Ridl., **FMP2** 34; succulent creeping herb; montane forest near streams; Ph; ?endemic.
- 175.6.11 **Argostemma enerve** Ridl., **FMP2** 33; creeping herb to 20 cm tall; montane forests; Gg Angsi, NS; ?endemic.
- 175.6.12 **Argostemma grandiflorum** Ridl., **FMP2** 33; ascending herb; montane forest; Gg Kerbau, Pk; ?endemic.
- 175.6.13 **Argostemma hirsutum** Ridl., **FMP2** 33; slender creeping herb; Gg Bintang, Kd; ?endemic.
- 175.6.14 **Argostemma hookeri** King, **FMP2** 33; slender creeping herb to 15 cm tall; hill and montane forest; Pn, Ph, Sl, Jh; ?endemic.
- 175.6.15 **Argostemma humile** Benn., **FMP5** 314; small herb to 10 cm tall; hill forest; Penang Hill; endemic.
- 175.6.16 **Argostemma inaequilaterum** Benn., **FMP5** 314; *Argostemma acuminatum* King, **FMP2** 23 in part; erect herb; on rocks, often limestone; Pn, Pk, Sl.
- 175.6.17 **Argostemma involucreatum** Hemsl., **FMP2** 28; creeping herb ascending to 25 cm; hill and montane forest; Pn, Pk, Ph, Sl, Ml.

- 175.6.18a *Argostemma johorens* Ridl. var. *johorens*, **FMP2** 31; herb to 25 cm tall; lowland forest; Jh; ?endemic.
- 175.6.18a *Argostemma johorens* Ridl. var. *kelsallii* Ridl., **FMP2** 32; herb to 25 cm tall; forest; Bt Hitam, Sl; ?endemic.
- 175.6.19 *Argostemma klossii* Ridl., **FMP2** 28; erect herb to 15 cm tall; lowland and hill forest; NS, Jh; ?endemic.
- 175.6.20 *Argostemma lanceolatum* Ridl., **FMP2** 29; erect herb to 20 cm tall; montane forest; Cameron Highlands, Ph; ?endemic.
- 175.6.21 *Argostemma longifolium* Benn., **FMP5** 315; *Argostemma spinulosum* C.B. Clarke, **FMP2** 29; erect herb to 20 cm tall; montane forest; Pk, Sl, Jh.
- 175.6.22 *Argostemma longistipulum* Ridl., **FMP5** 315; woody-stemmed herb to 20 cm tall; hill forest; NS, Jh; ?endemic.
- 175.6.23 *Argostemma muscicola* Ridl., **FMP2** 25; small creeping herb to 5 cm tall; wet mountain rocks; Gg Tahan, Ph; ?endemic.
- 175.6.24 *Argostemma nervosum* Ridl., **FMP2** 27; creeping herb to 20 cm tall; montane forest; Sl; ?endemic.
- 175.6.25 *Argostemma neurosepalum* Bakh.f., **B07** 331; *Argostemma acuminatum* auct. non King, **FMP2** 23 in part; herb about 20 cm tall; on limestone rocks; only known from Lenggong, Pk; endemic.
- 175.6.26 *Argostemma nigrum* M.R. Hend., **H30** 220; creeping herb; montane forest; Gg Benom, Ph; ?endemic.
- 175.6.27 *Argostemma nutans* King, **FMP2** 24; succulent herb to 30 cm tall; hill forest; Pk; ?endemic.
- 175.6.28 *Argostemma oblongum* King, **FMP2** 31; herb to 15 cm tall; hill forests; Pk, Sl, NS, Jh; ?endemic.
- 175.6.29 *Argostemma ophirens* Maing. ex Hook.f., **FMP2** 32, **B33** 18; herb to 25 cm tall; montane forest; Pk, Ph, Sl, Ml, Jh.
- 175.6.30 *Argostemma perakense* King, **FMP2** 31; herb; Pk; ?very dubious species.
- 175.6.31 *Argostemma pictum* Wall., **FMP2** 24 in part; succulent herb to 15 cm tall; damp rocks in montane forest; widespread.
- 175.6.32 *Argostemma propinquum* Ridl., **FMP2** 29; erect hairy herb to 10 cm tall; forest; Tg, Pk; ?endemic.
- 175.6.33 *Argostemma reptans* Ridl., **FMP2** 34; slender creeping herb to 10 cm tall; in rocky streams; Gg Jerai, Kd; ?endemic.

- 175.6.34 **Argostemma rugosum** Ridl., **FMP2** 30; herb to 10 cm tall; montane forest; Gg Mengkuang Lebah, Sl; ?endemic.
- 175.6.35 **Argostemma stipulaceum** Ridl., **FMP2** 30; herb to 30 cm tall; lowland forest; Kuala Lebir, Kl; ?endemic.
- 175.6.36 **Argostemma subcrassum** King, **FMP2** 30; succulent herb to 45 cm tall; lower montane forest; Pk, Ph, Sl; ?endemic.
- 175.6.37 **Argostemma subinaequale** Benn., **FMP2** 23; fleshy herb to 20 cm tall; Pk.
- 175.6.38 **Argostemma tenue** Ridl., **FMP2** 26; small tuberous herb; on rocks in streams; NS; ?endemic.
- 175.6.39 **Argostemma trichanthum** Ridl., **FMP2** 29; small creeping herb; hill forest; Sl; ?endemic.
- 175.6.40 **Argostemma unifolioide** King, **FMP2** 26; tuberous herb to 20 cm tall; on rocks in hill forest; Pk; ?endemic.
- 175.6.41 **Argostemma unifolium** Benn., **FMP2** 26; tuberous herb to 20 cm tall; on rocks in hill forest; Kd, Pn, Ml, Jh; ?endemic.
- 175.6.42 **Argostemma urticifolium** King, **FMP2** 25; herb to 30 cm tall; montane forest; Pk, Ph, Sl.
- 175.6.43 **Argostemma viscidum** Ridl., **FMP2** 25; sticky herb to 15 cm tall; on rocks near mountain streams; Cameron Highlands, Ph; ?endemic.
- 175.6.44 **Argostemma wrayi** King, **FMP2** 34; slender procumbent herb; montane forest; Pk; ?endemic.
- 175.6.45 **Argostemma yappii** King, **FMP2** 24; succulent herb to 30 cm tall; on banks in montane forest; Pk, Ph, Sl; ?endemic.
- 175.7.1 **Brachytome scortechinii** King & Gamble, **FMP2** 70, **W26** 22, **T14** 293, **TFM4** 340; shrub to 4 m tall; montane forest above 900 m; Kd, Pk, Ph.
- 175.8.1 **Canthium aciculatum** Ridl., **FMP2** 124, **C15** 142, **TFM4** 341; spiny shrub; on limestone; Kd, Kl, Pk; endemic.
- 175.8.2 **Canthium cochinchinense** Pierre ex Pit., **TFM4** 342 'cochinchinensis'; shrub or small tree; open areas and rocky places near the sea; P. Langkawi, Tg.
- 175.8.3 **Canthium confertum** Korth., **FMP2** 125, **TFM4** 342; tree to 18 m tall; lowland to lower montane forest; throughout.
- 175.8.4 **Canthium congestiflorum** Ridl., **FMP2** 126, **TFM4** 342; small tree; lowland forest; Jh; endemic.

- 175.8.5 **Canthium depressinerve** Ridl., **FMP2** 124, **TFM4** 341; shrub to 4 m tall; lowland forest; throughout.
- 175.8.6 **Canthium glabrum** Blume, **FMP2** 124, **TFM4** 343; tree to 25 m tall; lowland to montane forest; widespread.
- 175.8.7 **Canthium hirtellum** Ridl., **FMP5** 317, **TFM4** 342; thorny shrub; lowland to lower montane forest; Kl, Ph, Sl, NS, Jh.
- 175.8.8 **Canthium horridum** Blume, **FMP2** 123, **TFM4** 341; spiny scrambling shrubs; lowland forest margins; throughout.
- 175.8.9 **Canthium molle** King & Gamble, **FMP2** 123, **TFM4** 341; spiny liana; lowland forest; Ml, Sp; endemic.
- 175.8.10 **Canthium pauciflorum** King & Gamble, **FMP2** 123, **TFM4** 342; shrub or small tree to 4 m tall; Pk; endemic.
- 175.8.11 **Canthium scabridum** Ridl., **FMP5** 317, **TFM4** 342; spiny shrub; Kluang, Jh; ?endemic.
- 175.8.12 **Canthium strigosum** Craib, **TFM4** 341; shrub to 1.5 m tall; lowland forest; P. Langkawi.
- 175.8.13 **Canthium strychnoides** Craib, **FMP4** 342; shrub or small tree; lowland to lower montane forest; Kl, Tg.
- 175.8.14 **Canthium** sp. 1, **TFM4** 341; shrub or small tree to 5 m tall; lowland forest; Pk, Ph, Sl; ?endemic.
- 175.8.15 **Canthium** sp. 2, **TFM4** 342; shrub or small tree to 10 m tall; lowland forest; P. Langkawi; ?endemic.
- 175.8.16 **Canthium** sp. 3, **TFM4** 342; climber; hill forest; Bt Pengantin, Jh; ?endemic.
- 175.9.1 **Catunaregam spinosa** (Thunb.) Tirveng., **W26** 25; *Randia oocarpa* Ridl., **FMP2** 71; thorny shrub or small tree; lowland forest; Ps, P. Langkawi, Kd, Tg, Pk, Ph, Sl, NS.
- 175.9.2 **Catunaregam tomentosa** (Blume ex DC.) Tirveng., **W26** 26; *Randia tomentosa* (Blume ex DC.) Hook.f., **FMP2** 72; large spiny shrub; open sandy places; Kl, Tg.
- 175.10.1 **Ceriscoides perakensis** (King & Gamble) K.M. Wong, **W26** 27, **TFM4** 343; *Randia perakensis* King & Gamble, **FMP2** 72; small spiny tree to 5 m tall; twice collected in Pk; endemic.
- 175.11.1 **Chassalia bracteata** Ridl., **FMP2** 143; shrub to 60 cm tall; lower montane forest; Semangkok Pass, Sl; ?endemic.
[**TFM4** 344 says probably *Cephaelis*].

- 175.11.2 **Chassalia chartacea** Craib, **TFM4** 344; shrub to 3 m tall; lowland to lower montane forest; widespread.
- 175.11.3 **Chassalia curviflora** (Wall.) Thwaites, **FMP2** 142, **TFM4** 344; shrub to 2 m tall; lowland and hill forest; Kd, Pn.
- 175.11.4 **Chassalia longifolia** (Dalzell) K.M. Wong, **TFM4** 344; *Chassalia curviflora* (Wall.) Thwaites var. *longifolia* (Dalzell) Hook.f., **FMP2** 142; shrub to 2 m tall; lowland and hill forest; Kl, Pn, Pk, Ph, Jh.
- 175.11.5 **Chassalia minor** Ridl., **FMP2** 142, **TFM4** 344; shrub to 2 m tall; montane forest at 1200–1600 m; Kd, Pk, Ph, Sl; endemic.
- 175.11.6 **Chassalia pubescens** Ridl., **FMP2** 143, **TFM4** 344; shrub to 2 m tall; lowland forest; Kl, Ph, Sl, Jh, Sp; endemic.
- 175.12.1 **Coelospermum truncatum** (Wall.) Baill. ex K. Schum., **FMP2** 121, **J13** 277; *Coelospermum biovulatum* C.B. Clarke ex Ridl., **FMP2** 121; *Coelospermum scandens* Blume, **FMP2** 121; liana climbing to 15 m; forest margins; widespread.
- 175.13.1 **Coptophyllum bracteatum** Korth., **P27** 18; *Pomazota rivularis* M.R. Hend., **H33** 411, **B27** 201; *Coptophyllum capitatum* auct. non Miq., **FMP2** 43; shrub to 30 cm tall; hill forest; Pk, Sl, Jh.
- 175.13.2 **Coptophyllum sylvestre** (Ridl.) I.M. Turner, **T24** 222; *Pomazota sylvestris* Ridl., **FMP2** 43, **B27** 199; sparsely-branched herb to 10 cm tall; open places in lowland forest; Ph.
- 175.14.1 **Coptosapelta griffithii** Hook.f., **FMP2** 17; liana; lowland forest; widespread.
- 175.14.2 **Coptosapelta parviflora** Ridl., **FMP2** 18; lofty liana; lowland forest; Pn, Sp.
- 175.14.3 **Coptosapelta tomentosa** (Blume) Valetton ex K. Heyne, **K09** 153; *Coptosapelta flavescens* Korth., **FMP2** 17; high-climbing liana; lowland forest; widespread.
- 175.15.1 **Dentella repens** (L.) J.R. Forst. & G. Forst., **FMP2** 44, **M44** 500; small prostrate herb; waste places; widespread.
- 175.16.1 **Diodia ocymifolia** (Willd. ex Roem. & Schult.) Bremek., **K09** 153; herb to 1 m tall; waste places, forest margins; Sp; naturalized from tropical America.
- 175.16.2 **Diodia sarmentosa** Sw., **FMP2** 174; scrambling herb; damp waste places; widespread; naturalized from tropical America.
- 175.17.1 **Diplospora beccariana** King & Gamble, **FMP2** 86, **TFM4** 345; *Discospermum beccarianum* (King & Gamble) S.J. Ali & Robbr., **A08** 300; tree to 15 m tall; wet lowland forest; Tg, Pk, Jh.

- 175.17.2 **Diplospora kunstleri** King & Gamble, **FMP2** 87, **TFM4** 345; *Diplospora pubescens* auct. non Hook.f., **FMP2** 88; shrub or small tree to 4 m tall; montane forest 1100–1400 m; Pk, Ph, Ml; endemic.
- 175.17.3 **Diplospora lasiantha** Ridl., **FMP2** 88, **TFM4** 345; shrub; lowland to montane forest; Pk, Ph, NS, Jh; ?endemic.
- 175.17.4 **Diplospora majumdarii** M.G. Gangop. & Chakrab., **G02** 86; tree/shrub; lower montane forest; Pk; endemic.
- 175.17.5 **Diplospora malaccensis** Hook.f., **FMP2** 86, **TFM4** 346; tree to 18 m tall; lowland to montane forest at 1500 m; throughout. [not *Diplospora* according to **A08** 298].
- 175.17.6 **Diplospora stylosa** Ridl., **TFM4** 345; *Coffea viridiflora* Ridl., **FMP2** 111 in part; shrub; lowland forest; Kd.
- 175.17.7 **Diplospora velutina** King & Gamble, **FMP2** 87, **TFM4** 345; small tree to 5 m tall; lower montane forest; Selama, Pk; endemic.
- 175.17.8 **Diplospora wrayi** King & Gamble, **FMP2** 87, **TFM4** 345, **A08** 300; *Coffea viridiflora* Ridl., **FMP2** 111 in part; shrub to 4 m tall; lowland to lower montane forest; Pk, Ph, Sl; endemic.
- 175.18.1a **Fagerlindia fasciculata** (Roxb.) Tirveng. var. **fasciculata**, **T13** 458, **W26** 29, **TFM4** 346; *Randia fasciculata* (Roxb.) DC., **FMP2** 73; *Randia hirsuta* Ridl., **FMP2** 73; shrub or small tree to 6 m tall; lowland and hill forest; Ps, Kd, Kl, Tg, Pn, Pk, Ph, Ml, Jh.
- 175.18.1b **Fagerlindia fasciculata** (Roxb.) Tirveng. var. **parviflora** (King & Gamble) K.M. Wong, **W26** 31, **TFM4** 346; shrub or small tree to 6 m tall; lowland and hill forest; P. Langkawi, Kd, Pn; endemic variety.
- 175.19.1 **Gaertnera grisea** Hook.f. ex C.B. Clarke, **FMP2** 431, **V01** 373, **TFM4** 347; shrub or small tree to 5 m tall; lowland and hill forest; Sl, Jh, Sp.
- 175.19.2 **Gaertnera obesa** Hook.f. ex C.B. Clarke, **FMP2** 431, **V01** 381, **TFM4** 347; shrub to 4 m tall; damp lowland forest, often near rivers; Ml, Jh, Sp; endemic.
- 175.19.3a **Gaertnera oblanceolata** King & Gamble var. **diversifolia** (Ridl.) Beusekom, **V01** 384; *Gaertnera diversifolia* Ridl., **FMP2** 430; *Gaertnera intermedia* Ridl., **FMP2** 430; *Gaertnera lanceolata* Ridl., **FMP2** 430; *Gaertnera rigida* Ridl., **FMP2** 430; *Gaertnera ovata* Ridl., **FMP2** 431; *Gaertnera latifolia* Ridl., **FMP5** 323; *Gaertnera oblanceolata* King & Gamble, **TFM4** 347 in part; shrub to 3 m tall; hill and montane forest to 1500 m; Ph, Sl, NS.
- 175.19.3b **Gaertnera oblanceolata** King & Gamble var. **oblanceolata**, **V01** 384; *Gaertnera oblanceolata* King & Gamble, **FMP2** 429, **TFM4** 347 in part; shrub to 3 m tall; hill and montane forest to 1500 m; Pk, Sl.

- 175.19.4 **Gaertnera schizocalyx** Bremek., **V01** 372, **TFM4** 347; shrub to 1.5 m tall; riverine or swampy lowland forest; a few times from Jh.
- 175.19.5 **Gaertnera vaginans** (DC.) Merr. ssp. **junghuhniana** (Miq.) Beusekom, **V01** 385, **TFM4** 348; *Gaertnera sessiliflora* Ridl., **FMP2** 427; *Gaertnera acuminata* Benth., **FMP2** 427 incl. var. *oxyphylla* (Benth.) Ridl. and var. *montana* Ridl.; *Gaertnera caudata* Ridl., **FMP2** 429; *Gaertnera pedicellata* Ridl., **FMP2** 429; *Gaertnera ramosa* Ridl., **FMP2** 429; shrub or small tree to 10 m tall; lowland to montane forest; throughout.
- 175.19.6 **Gaertnera viminea** Hook.f. ex C.B. Clarke, **FMP2** 427, **V01** 377, **TFM4** 348; shrub to 3 m tall; lowland forest; NS, Jh, Sp.
- 175.20.1 **Gardenia carinata** Wall., **FMP2** 82, **TFM4** 349; small tree to 15 m tall; lowland and hill forest; commonest in the north.
- 175.20.2 **Gardenia coronaria** Buch.-Ham., **W22** 27, **TFM4** 349; small tree; only known from P. Langkawi.
- 175.20.3 **Gardenia griffithii** Hook.f., **FMP2** 83, **TFM4** 349; small tree; lowland forest; south of Malaya; ?endemic.
- 175.20.4 **Gardenia pterocalyx** Valetton, **W22** 27, **TFM4** 349; small tree to 5 m tall; swamp forest, heath forest, hill forest; Tg, Ph.
- 175.20.5a **Gardenia tubifera** Wall. var. **subcarinata** Corner, **TFM4** 350; *Gardenia tubifera* Wall., **FMP2** 82 in part; *Gardenia resinifera* Korth., **FMP2** 82; tree usually 8-15 m but sometimes to 25 m tall; lowland and hill forest; Kd, Kl, Tg, Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 175.20.5b **Gardenia tubifera** Wall. var. **tubifera**, **TFM4** 350; *Gardenia tubifera* Wall., **FMP2** 82 in part; *Gardenia elata* Ridl., **FMP2** 83; *Gardenia speciosa* [non Salisb.] (Hook.) Hook.f., **FMP2** 83; tree usually 8-15 m but sometimes to 25 m tall; lowland and hill forest; Kd, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.21.1 **Gardeniopsis longifolia** Miq., **FMP2** 112, **TFM4** 350; shrub or small tree to 8 m tall; lowland to montane forest; throughout.
- 175.22.1 **Gentingia subsessilis** (King & Gamble) J.T. Johanss. & K.M. Wong, **J15** 352, **TFM4** 425; *Prismatomeris subsessilis* King & Gamble, **FMP2** 117, **TFM4** 395; shrub to 4 m tall; montane forest above 1200 m; Pk, Ph, Sl; endemic.
- 175.23.1 **Geophila humifusa** King & Gamble, **FMP2** 146; slender creeping herb; Pk; ?endemic.
- 175.23.2 **Geophila melanocarpa** Ridl., **FMP2** 147; creeping herb to 10 cm tall; hill forest; Pk, Sl; ?endemic.
- 175.23.3 **Geophila pilosa** H. Pearson, **FMP2** 146; long-creeping herb; lowland forest; Sp.

- 175.23.4 **Geophila repens** (L.) I.M. Johnst. var. **asiatica** (Cham. & Schltdl.) Fosberg, **F14** 58; *Geophila reniformis* D. Don, **FMP2** 147; *Geophila herbacea* (Jacq.) K. Schum; creeping herb to 10 cm tall; lowland forest; widespread.
- 175.23.5 **Geophila scortechinii** King, **FMP2** 148; creeping herb; Pk; ?endemic.
- 175.24.1 **Greenea corymbosa** (Jack) K. Schum., **TFM4** 351; *Greenea jackii* Wight & Arn., **FMP2** 19; shrub or small tree to 10 m tall; rocky coasts and hill ridges to 700 m; widespread.
- 175.25.1 **Guettarda speciosa** L., **FMP2** 112, **W27** 496, **TFM4** 351; tree to 10 m tall; sea shores; all coasts.
- 175.26.1 **Gynochthodes coriacea** Blume, **FMP2** 122; high-climbing liana; lowland forest; NS, Sp.
- 175.26.2 **Gynochthodes macrophylla** Kurz, **FMP2** 122; liana; lowland to montane forest; Pk.
- 175.26.3 **Gynochthodes sublanceolata** Miq., **FMP2** 122; slender liana; open country, forest margins; widespread, commonest in the south.
- 175.27.1 **Haldina cordifolia** (Roxb.) Ridsdale, **R16** 361, **TFM4** 353; tree to 40 m tall; lowland forest; once from Ps.
- 175.28.1 **Hedyotis andamanica** Kurz, **FMP2** 49; slender creeping herb; montane forest; Gg Senyum, Ph.
- 175.28.2 **Hedyotis auricularia** L., **FMP2** 49; wiry herb to 60 cm tall; open places, roadsides; widespread.
- 175.28.3 **Hedyotis biflora** (L.) Lam., **F18** 333, **F16** 65; *Oldenlandia paniculata* L., **FMP2** 53; *Oldenlandia biflora* L., **H01** 689; herb; waste places; Pn, Sp.
- 175.28.4 **Hedyotis brachypoda** (DC.) Sivar. & Biju, **S26** 672; *Oldenlandia diffusa* auct. non (Willd.) Roxb., **FMP2** 54 in part; straggling herb; open sandy places; Sp at least.
- 175.28.5 **Hedyotis capitellata** Wall. ex G. Don, **FMP2** 46, **F18** 326; scrambling herb; lowlands to mountains; common and widespread.
- 175.28.6 **Hedyotis coronaria** (Kurz) Craib, **F18** 320, **C15** 143; *Hedyotis coronata* Wall. ex Hook.f. & B.D. Jacks., **FMP2** 48; slender decumbent herb 15-20 cm tall; lowland and hill forest, often on limestone; north of Malaya.
- 175.28.7 **Hedyotis corymbosa** (L.) Lam., **F18** 333, **F16** 67, **M47** 502; *Oldenlandia corymbosa* L., **FMP2** 54, **V38** 308, **H01** 690; herb to 30 cm tall; common in open sandy places; widespread.
- 175.28.8 **Hedyotis cyanantha** Kurz, **F16** 69; *Hedyotis caerulea* auct. non (L.) Hook., **FMP2** 52; wiry herb to 20 cm tall; Pn.

- 175.28.9 **Hedyotis dichotoma** Koenig ex Roth, **F18** 332; *Oldenlandia dichotoma* (Koenig ex Roth) Hook.f., **FMP2** 53; much-branched herb to 30 cm tall; garden weed and open sandy places: widespread.
- 175.28.10 **Hedyotis diffusa** Willd., **F18** 333, **S26** 672, **M47** 504; *Oldenlandia diffusa* (Willd.) Roxb., **FMP2** 54 in part; straggling herb; open sandy places: widespread.
- 175.28.11 **Hedyotis flexuosa** Ridl., **FMP2** 47; slender herb to 30 cm tall; on rocks in lowlands and hills; Kd, Ml, Jh; ?endemic.
- 175.28.12 **Hedyotis globiceps** Ridl., **FMP2** 47, **F18** 336; herb to 30 cm tall; damp places; P. Langkawi.
- 175.28.13 **Hedyotis havilandii** King, **FMP2** 50; herb to 30 cm tall; Pn, Pk, Ph.
- 175.28.14 **Hedyotis herbacea** L., **F18** 335; *Oldenlandia heynei* (R.Br. ex Wight & Arn.) G. Don, **FMP2** 54; *Oldenlandia herbacea* (L.) Roxb., **V38** 305; bushy herb to 60 cm tall; open sandy places, often near the sea; widespread.
- It is possible that this is really *Hedyotis lancifolia* Schumach. [**V38** 292].
- 175.28.15 **Hedyotis insularis** (Spreng.) Deb & R. Dutta, **D20** 285; *Hedyotis glabra* R.Br. ex Wall., **FMP2** 48, **F18** 312; slender branched herb to 60 cm tall; dry places in lowland and hill forest; Ps, Kd, Pn, Pk.
- 175.28.16 **Hedyotis kunstleri** King, **FMP2** 50; herb to 45 cm tall; near hill forest streams: Ulu Kerling, Pk; ?endemic.
- 175.28.17 **Hedyotis lindleyana** Hook. ex Wight & Arn., **F18** 327; *Hedyotis stipulata* R.Br. ex Hook.f., **FMP2** 48; slender creeping herb; on rocks in mountain streams; Pk, Ph.
- 175.28.18 **Hedyotis maingayi** Hook.f., **FMP2** 46; herb to 30 cm tall; open grassy places on mountains; Gg Ledang, Ml; ?endemic.
- 175.28.19 **Hedyotis mollis** Wall. ex G. Don, **FMP2** 45; scandent herb; hill forest: north of Malaya.
- 175.28.20 **Hedyotis nitida** Wight & Arn., **FMP2** 51; diffuse wiry herb; Pn, Pk.
- 175.28.21 **Hedyotis ovatifolia** Cav., **F18** 334; *Oldenlandia nudicaulis* Roth, **FMP2** 53; *Oldenlandia ovatifolia* (Cav.) DC., **C15** 145; *Oldenlandia rosettifolia* Geddes, **C15** 146; small herb to 15 cm tall; on limestone: P. Langkawi.
- 175.28.22 **Hedyotis pachycarpa** Ridl., **FMP2** 50, **F18** 314; herb to 30 cm tall; damp forest near the sea; Kl.
- 175.28.23 **Hedyotis patens** Ridl., **FMP2** 46; herb to 60 cm tall; rocky slopes on mountains; Gg Tahan, Ph; ?endemic.

- 175.28.24 **Hedyotis peduncularis** King, **FMP2** 47; herb; open grassy places on mountains; Gg Jerai, Kd; ?endemic.
- 175.28.25 **Hedyotis philippinensis** (Willd. ex Spreng.) Merr. ex C.B. Rob., **F18** 315, **H01** 716; *Hedyotis congesta* R.Br. ex G. Don, **FMP2** 51 incl. var. *nicobarica* King; herb to 60 cm tall; lowland and hill forests; widespread.
- 175.28.26 **Hedyotis pinifolia** Wall. ex G. Don, **FMP2** 52, **F18** 324; *Oldenlandia pinifolia* (Wall. ex G. Don) K. Schum.; diffuse wiry herb; open sandy places; widespread.
- 175.28.27 **Hedyotis prainiana** King, **FMP2** 45, **F18** 324; scandent herb; once from Telok Bahang, Pn.
- 175.28.28 **Hedyotis pterita** Blume, **F18** 332; *Oldenlandia alata* (non Koenig) Roxb., **FMP2** 53; *Oldenlandia pterita* (Blume) Miq., **C15** 146; succulent herb to 30 cm tall; open places, garden weed, on limestone; Ps, MI.
- 175.28.29 **Hedyotis pumila** L.f., **T05** 131; *Oldenlandia pumila* (L.f.) DC., **V38** 307; herb; weed of lawns and waste ground; Sp.
- 175.28.30 **Hedyotis rivalis** Ridl., **FMP2** 47; rheophytic herb to 1 m tall; on rocks in river; Ph, Jh; endemic.
- 175.28.31 **Hedyotis similis** Geddes, **F18** 324; scandent herb; locality unclear.
- 175.28.32 **Hedyotis stelligera** Ridl., **FMP2** 47; herb to 60 cm tall; open sandy places; once from Besut, Tg.
- 175.28.33 **Hedyotis tenelliflora** Blume, **FMP2** 51, **F18** 322; slender erect herb to 40 cm tall; open dry places; widespread.
- 175.28.34 **Hedyotis tetrandia** (Roxb.) Craib, **F18** 315; *Hedyotis macrophylla* Wall. ex Wight & Arn., **FMP2** 50; herb to 30 cm tall; sporadic.
- 175.28.35 **Hedyotis trinervia** (Retz.) Roem. & Schult., **K09** 155; *Oldenlandia trinervia* Retz., **FMP2** 55; small prostrate herb; open sandy places; quite widespread.
- 175.28.36 **Hedyotis verticillata** (L.) Lam., **F18** 322, **F16** 81; *Oldenlandia verticillata* L.; *Hedyotis hispida* Retz., **FMP2** 52; herb to 60 cm tall; open places; north of Malaya.
- 175.28.37 **Hedyotis vestita** R.Br. ex G. Don, **FMP2** 49, **F18** 312, **F16** 82; *Oldenlandia vestita* (R.Br. ex G. Don) Drake; herb to 1 m or more tall; open ground; common and widespread.
- 175.28.38 **Hedyotis viarum** (Craib) Fukuoka, **F18** 331; herb; waste places; Pn, Sp.
- 175.29.1 **Hydnophytum formicarum** Jack, **FMP2** 172; large tuberous myrmecophytic epiphyte; forest near the sea, also in the mountains; widespread.

- 175.30.1 **Hymenodictyon orixense** (Roxb.) Mabb., **M04** 66, **N11** 224; *Hymenodictyon excelsum* (Roxb.) Wall. ex DC., **FMP2** 18, **TFM4** 353; tree to 12 m tall; lowland forest; P. Langkawi, Kd.
- 175.31.1 **Hypobathrum coniferum** (Ridl.) Bakh.f., **K09** 156; *Petunga conifera* Ridl., **FMP2** 85; *Hypobathrum* sp. 11, **TFM4** 355; tree to 9 m tall; lowland forest; only known from type; Botanic Gardens' Jungle, Sp; endemic.
- 175.31.2a **Hypobathrum longifolium** (DC.) K.M. Wong var. **hirtum** (Ridl.) K.M. Wong, **TFM4** 354 '*hirta*'; small tree to 4 m tall; lowland to hill forest; Kl, Pk, Ph.
- 175.31.2b **Hypobathrum longifolium** (DC.) K.M. Wong var. **longifolium**, **TFM4** 354; *Petunga longifolia* DC., **FMP2** 84; small tree to 4 m tall; lowland to hill forest; Kl, Pn, Pk, Ph.
- 175.31.3 **Hypobathrum microcarpum** (Blume) Bakh.f., **TFM4** 355; small tree; lowland forest; once from Ps.
- 175.31.4 **Hypobathrum racemosum** (Roxb.) Kurz, **TFM4** 355; *Petunga roxburghii* DC., **FMP2** 84; *Petunga floribunda* (King & Gamble) Ridl., **FMP2** 85; small tree to 12 m tall; wet lowland forest; widespread.
- 175.31.5 **Hypobathrum venulosum** (Hook.f.) K.M. Wong, **TFM4** 355; *Petunga venulosa* Hook.f., **FMP2** 85; tree to 6 m tall; lowland and hill forest; widespread; ?endemic.
- 175.31.6 **Hypobathrum** sp. 1, **TFM4** 355; *Diplospora minutiflora* Ridl., **FMP2** 87; small tree to 4 m tall; lowland and hill forest; Chaning, Kl; Kuala Lompat, Ph; endemic.
- 175.31.7 **Hypobathrum** sp. 2, **TFM4** 355; tree to 10 m tall; lowland forest; Pk, Ml; ?endemic.
- 175.31.8 **Hypobathrum** sp. 3, **TFM4** 355; small tree to 11 m tall; lowland forest; Ph, Ml; ?endemic.
- 175.31.9 **Hypobathrum** sp. 4, **TFM4** 355; small tree; swampy lowland forest; Pk, Jh; ?endemic.
- 175.31.10 **Hypobathrum** sp. 5, **TFM4** 355; small tree to 4 m tall; Tasek Bera, Ph; ?endemic.
- 175.31.11 **Hypobathrum** sp. 6, **TFM4** 355; shrub to 2 m tall; Kluang, Jh; ?endemic.
- 175.31.12 **Hypobathrum** sp. 7, **TFM4** 354; shrub or small tree; lowland forest; Lemoi, Ph; ?endemic.
- 175.31.13 **Hypobathrum** sp. 8, **TFM4** 355; small tree to 4 m tall; lowland forest; Kl, Tg; ?endemic.

- 175.31.14 **Hypobathrum** sp. 9, **TFM4** 355; shrub; hill forest at 700 m; Gg Tapis, Ph; ?endemic.
- 175.31.15 **Hypobathrum** sp. 10, **TFM4** 355; shrub to 2 m tall; swampy forest; Mawai, Jh; ?endemic.
- 175.32.1 **Ixora brunonis** Don, **FMP2** 91, **TFM4** 356; shrub to 3 m tall; lowland forest; Kd, Pn, Pk.
- 175.32.2 **Ixora clerodendron** Ridl., **FMP2** 91, **TFM4** 358; *Ixora pumila* Ridl., **FMP2** 91; shrub to 4 m tall; lowland forest, also on limestone; Kd, Tg, Ph; endemic.
- 175.32.3 **Ixora concinna** Hook.f., **FMP2** 95, **TFM4** 360; shrub to 8 m tall; lowland and hill forest; throughout.
- 175.32.4 **Ixora congesta** Roxb., **FMP2** 93, **TFM4** 361; shrub or small tree to 6 m tall; lowland and hill forest to 1000 m; throughout.
- 175.32.5a **Ixora grandifolia** Zoll. & Moritzi var. **grandifolia**, **FMP2** 97, **TFM4** 364; *Ixora fluminialis* Ridl., **FMP2** 97; *Ixora crassifolia* (non Merr.) Ridl., **FMP2** 98; *Ixora elliptica* Ridl., **FMP2** 98; *Ixora ridleyi* Merr., **M28** 132; shrub or tree to 18 m tall; lowland and hill forest; throughout.
- 175.32.5b **Ixora grandifolia** Zoll. & Moritzi var. **lancifolia** Corner, **TFM4** 364; shrub or tree to 18 m tall; lowland and hill forest; K1, Tg, Pn, Ph, NS, Ml, Jh.
- 175.32.6a **Ixora javanica** (Blume) DC. var. **javanica**, **TFM4** 360; *Ixora stricta* auct. non Roxb., **FMP2** 94 in part incl. var. *amoena* (Don) Ridl.; shrub to 4 m tall; lowland and hill forest, often cultivated; widespread.
- 175.32.6b **Ixora javanica** (Blume) DC. var. **retinervia** Corner, **TFM4** 360; shrub or small tree to 9 m tall; lowland and hill forest to 1000 m; widespread; endemic variety.
- 175.32.7 **Ixora kingstonii** Hook.f., **TFM4** 358; shrub or small tree to 8 m tall; swampy lowland forest; Tg, Pk, Ph, Sl, Ml, Jh; endemic.
- 175.32.8a **Ixora lobbii** King & Gamble var. **lobbii**, **FMP2** 93 incl. var. *angustifolia* King & Gamble, **TFM4** 361; shrub or small tree to 6 m tall; lowland to montane forest at 1200 m; throughout.
- 175.32.8b **Ixora lobbii** King & Gamble var. **stenophylla** Corner, **TFM4** 361; *Ixora stenophylla* sensu Ridl., **FMP2** 94; shrub to 2 m tall; rocky stream banks in lowland forest; widespread.
- 175.32.9 **Ixora micrantha** Ridl., **FMP2** 98, **TFM4** 360; *Ixora patens* Ridl., **FMP2** 98; *Ixora undulata* auct. non Roxb., **FMP2** 98; shrub or small tree to 10 m tall; hill and montane forest above 700 m; Pk, Ph, Sl; endemic.

- 175.32.10a ***Ixora nigricans*** Wight & Arn. var. ***nigricans***. **TFM4** 359; *Ixora arguta* King. **FMP2** 92; *Ixora plunea* Ridl., **FMP2** 92; shrub to 4 m tall; lowland forest, also on limestone; widespread.
- 175.32.10b ***Ixora nigricans*** Wight & Arn. var. ***ovalis*** Pit., **TFM4** 359; shrub to 3 m tall; lowland forest, also on limestone; Kd, Kl, Pn, Pk.
- 175.32.11a ***Ixora pendula*** Jack var. ***montana*** (Ridl.) K.M. Wong. **TFM4** 359; *Ixora montana* Ridl., **FMP2** 97; shrub to 7 m tall; montane forest above 1200 m; Pk, Ph, Sl; endemic variety.
- 175.32.11b ***Ixora pendula*** Jack var. ***pendula***. **FMP2** 95 incl. var. *opaca* (Don) Ridl., **TFM4** 359; *Ixora candida* Ridl., **FMP2** 95; *Ixora diversifolia sensu* King & Gamble. **FMP2** 96; shrub or small tree to 10 m tall; lowland and hill forest to 600 m; throughout.
- 175.32.12 ***Ixora robinsonii*** Ridl., **FMP2** 92. **TFM4** 360; shrub or small tree to 7 m tall; montane forest about 1100 m; Kl, Tg, Ph; endemic.
- 175.32.13a ***Ixora scortechinii*** King & Gamble var. ***caulescens*** Corner, **TFM4** 358; shrub to 4 m tall; lowland forest; Kl, Pk, Ph, Sl.
- 175.32.13b ***Ixora scortechinii*** King & Gamble var. ***scortechinii***. **TFM4** 357; *Ixora humilis* King & Gamble. **FMP2** 94 incl. var. *scortechinii* Ridl.; shrub to 1 m tall; lowland forest; Kl, Tg, Pn, Pk, Ph, Ml; endemic variety.
- 175.32.14a ***Ixora umbellata*** Koord. & Valeton var. ***multibracteata*** (H. Pearson ex King & Gamble) Corner, **TFM4** 358; *Ixora multibracteata* H. Pearson ex King & Gamble. **FMP2** 92; shrub to 2 m tall; lowland forest; Ps, Kd, Pk.
- 175.32.14b ***Ixora umbellata*** Koord. & Valeton var. ***umbellata***. **TFM4** 358; shrub to 4 m tall; lowland and hill forest, also limestone; throughout.
- 175.33.1 ***Jackiopsis ornata*** (Wall.) Ridsdale, **R18** 296. **TFM4** 364; *Jackia ornata* Wall., **FMP2** 89; tree to 35 m tall; lowlands swamps or near rivers; widespread.
- 175.34.1 ***Kailarsenia campanula*** (Ridl.) Tirveng., **T13** 464; *Randia campanula* Ridl., **FMP2** 81; shrub to 2 m tall; open sandy places; Ps, Ph.
- 175.34.2 ***Kailarsenia tentaculata*** (Hook.f.) Tirveng., **T13** 464; *Gardenia tentaculata* Hook.f., **FMP2** 80; shrub to 1.5 m tall; river banks; widespread.
- 175.35.1 ***Keenania modesta*** Hook.f., **H35** 107; subshrub; once from Ps.
- 175.36.1 ***Klossia montana*** Ridl., **FMP2** 43; herb to 50 cm tall; montane forest; Ph, Sl; endemic.
- 175.37.1 ***Knoxia corymbosa*** L., **FMP2** 177; erect herb; open grassy places; Pn, Ml.

- 175.38.1 **Kochummenia parviflora** K.M. Wong, **W26** 34, **TFM4** 366; shrub; lowland forest; twice from Tg; endemic.
- 175.38.2 **Kochummenia stenopetala** (King & Gamble) K.M. Wong, **W26** 32, **TFM4** 366; *Randia stenopetala* (King & Gamble) Ridl., **FMP2** 79; shrub; lowland and hill forest; Pk; endemic.
- 175.38.3 **Kochummenia** sp., **TFM4** 366; shrub to 2 m tall; once from Tg; endemic.
- 175.39.1 **Lasianthus angustifolius** King & Gamble, **FMP2** 161, **TFM4** 368; *Lasianthus stercorarius* auct. non Blume, **FMP2** 166; shrub; lowland and montane forest to 1500 m; Kd, Pk, Ph, Jh; endemic.
- 175.39.2 **Lasianthus appressus** Hook.f., **FMP2** 156, **TFM4** 371; shrub to 3 m tall; lowland and hill forest; Kd, Pn, Pk, Sl, Jh, Sp.
- 175.39.3 **Lasianthus attenuatus** Jack, **FMP2** 156, **TFM4** 367; shrub to 1 m tall; lowland and hill forest; Pk, Ph, NS, Ml, Jh, Sp.
- 175.39.4 **Lasianthus barbellatus** Ridl., **FMP2** 164, **TFM4** 368; shrub to 1 m tall; lowland forest; P. Tioman, P. Pemanggil.
- 175.39.5 **Lasianthus biflorus** (Blume) M.G. Gangop. & Chakrab., **G05** 338; *Lasianthus gracilis* King & Gamble, **FMP2** 169, **TFM4** 367; shrub about 1 m tall; lowland and hill forest; P. Langkawi, Pk, Ph.
- 175.39.6 **Lasianthus bractescens** Ridl., **FMP2** 154, **TFM4** 370; shrub to 2 m tall; lowland and hill forest; Pk, Sl; endemic.
- 175.39.7 **Lasianthus conspicuus** Ridl., **FMP2** 167, **TFM4** 369; shrub to 2 m tall; montane forest at 1200 m; Pk, Ph; endemic.
- 175.39.8 **Lasianthus constrictus** Wight, **FMP2** 163, **TFM4** 369; shrub to 2 m tall; throughout.
- 175.39.9 **Lasianthus curtisii** King & Gamble, **FMP2** 161, **TFM4** 369; *Lasianthus pseudolucidus* King, **FMP2** 168; shrub to 2 m tall; hill and montane forest to 1700 m; Pn, Pk; endemic.
- 175.39.10 **Lasianthus cyanocarpus** Jack, **FMP2** 153, **TFM4** 370; shrub to 1 m tall; lowland and hill forest to 1100 m, sometimes on limestone; throughout.
- 175.39.11 **Lasianthus densifolius** Miq., **FMP2** 156 incl. var. *calycinus* King and var. *latifolius* King, **TFM4** 368; shrub or small tree to 5 m tall; lowland and hill forest; Kd, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.39.12 **Lasianthus ellipticus** Wight, **FMP2** 159, **TFM4** 372; shrub; lowland and hill forest; Pn, Jh, Sp; endemic.

- 175.39.13a **Lasianthus filiformis** King & Gamble var. **bracteatus** King & Gamble, **TFM4** 367 'bracteata'; *Litosanthes filiformis* (King & Gamble) Deb & M.G. Gangop. var. *bracteata* (King & Gamble) Deb & M.G. Gangop., **D22** 222; shrub to 1 m tall; lowland and hill forest, including swamps; Tg, Pk, Ph, Sl, NS; endemic.
- 175.39.13b **Lasianthus filiformis** King & Gamble var. **filiformis**, **FMP2** 169, **TFM4** 367; *Litosanthes filiformis* (King & Gamble) Deb & M.G. Gangop. var. *filiformis*, **D22** 222; shrub to 1 m tall; lowland and hill forest; Pk, Ph; endemic.
- 175.39.14 **Lasianthus foxworthyanus** Craib, **TFM4** 369; shrub to 2 m tall; Kl.
- 175.39.15 **Lasianthus glaber** Ridl., **FMP2** 155, **TFM4** 373; shrub; lowland forest including swamps; Kl, Pk, Ph, NS, Sp; endemic.
- 175.39.16 **Lasianthus griffithii** Wight, **FMP2** 152 incl. var. *latibracteatus* King & Gamble, **TFM4** 371; shrub or small tree to 4 m tall; lowland and hill forest; Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.39.17 **Lasianthus harveyanus** King & Gamble, **FMP2** 162, **TFM4** 370; shrub; montane forest; Pk, Ml; endemic.
- 175.39.18 **Lasianthus inaequalis** Blume, **FMP2** 155, **TFM4** 370; *Lasianthus subinaequalis* King & Gamble, **FMP2** 155; shrub to 2 m tall; lowland and hill forest; Pn, Pk, Ph, Sl, NS.
- 175.39.19 **Lasianthus lowianus** King & Gamble, **FMP2** 167, **TFM4** 368; *Lasianthus glaberrimus* Ridl., **FMP2** 166; *Amaracarpus caudatus* Ridl., **FMP2** 172; shrub to 2 m tall; lowland and montane forest to 1500 m; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.39.20 **Lasianthus maingayi** Hook.f., **FMP2** 160 incl. var. *subglabrus* (King) Ridl., **TFM4** 369; shrub or small tree to 3 m tall; lowland and hill forest; Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.39.21 **Lasianthus malaccensis** King & Gamble, **FMP2** 165, **TFM4** 368; shrub or small tree to 3 m tall; hill tops and montane forest at 600–2100 m; Kl, Tg, Ph, NS, Ml, Jh; endemic.
- 175.39.22 **Lasianthus mollis** Ridl., **FMP2** 158, **TFM4** 373; shrub to 2 m tall; lowland forest; Ml; endemic.
- 175.39.23 **Lasianthus montanus** King & Gamble, **FMP2** 163, **TFM4** 373; *Lasianthus coronatus* King & Gamble, **FMP2** 157; *Lasianthus caudiculatus* Ridl., **FMP2** 167; shrub to 3 m tall; montane forest at 1200–1500 m; Pk; endemic.
- 175.39.24 **Lasianthus myrtifolius** Ridl., **FMP2** 161, **TFM4** 369; shrub to 2 m tall; montane forest above 1300 m; Cameron Highlands, Ph; endemic.

- 175.39.25 **Lasianthus nervosus** King & Gamble, **FMP2** 163, **TFM4** 367; shrub about 1 m tall; montane forest above 1500 m; Pk, Sl; endemic.
- 175.39.36 **Lasianthus oblongus** King & Gamble, **FMP2** 166, **TFM4** 368; shrub or small tree to 9 m tall; lowland and hill forest to 1200 m; Kd, Pk, Sl; endemic.
- 175.39.27 **Lasianthus pendulus** Ridl., **FMP2** 168, **TFM4** 372; *Litosanthes pendula* (Ridl.) Deb & M.G. Gangop., **D22** 222 'pendulus'; shrub to 4 m tall; montane forests at 1500–1900 m; Cameron Highlands and Gg Tahan, Ph; endemic.
- 175.39.28 **Lasianthus perakensis** King & Gamble, **FMP2** 160, **TFM4** 372; *Lasianthus flavinervius* Ridl., **FMP2** 162; shrub or small tree to 4 m tall; lowland to montane forest; Kd, Kl, Tg, Pn, Pk, Ph, Jh, Sp; endemic.
- 175.39.29 **Lasianthus pergamaceus** King & Gamble, **FMP2** 164, **TFM4** 369; *Lasianthus chinensis auct. non* Benth., **FMP2** 164; *Lasianthus longifolius auct. non* Wight, **FMP2** 164 in part; *Lasianthus crassifolius* Ridl., **FMP2** 165; shrub or small tree; hill and montane forest to 1700 m; Kl, Tg, Pk, Ph, Sl, Jh.
- 175.39.30a **Lasianthus pilosus** Wight var. **angustifolius** King & Gamble, **FMP2** 157 'angustifolia', **TFM4** 372; shrub; lowland and hill forest; Pk, Sl, Ml.
- 175.39.30b **Lasianthus pilosus** Wight var. **pilosus**, **FMP2** 157, **TFM4** 370; *Lasianthus hirtus* Ridl., **FMP2** 156; *Lasianthus ferrugineus* King & Gamble, **FMP2** 158; *Lasianthus robustus* King & Gamble, **FMP2** 165; shrub or small tree to 7 m tall; lowland forests; throughout.
- 175.39.31 **Lasianthus politus** Ridl., **FMP2** 158, **TFM4** 372; shrub or small tree to 6 m tall; hill and lower montane forest to 1100 m; Ph, Sl, NS; endemic.
- 175.39.32 **Lasianthus pterospermus** Wight, **FMP2** 160, **TFM4** 368; *Lasianthus longifolius auct. non* Wight, **FMP2** 164 in part; shrub or small tree to 3 m tall; lowland and hill forest to 1200 m; Pk, Ph, Sl, NS, Ml, Jh, Sp; endemic.
- 175.39.33 **Lasianthus retosus** Wight, **TFM4** 371; *Lasianthus pilosus* Wight var. *retosus* (Wight) Ridl., **FMP2** 157 'setosus'; shrub; lowland and hill forest; Pk, NS, Ml; endemic.
- 175.39.34 **Lasianthus rhinocerotis** Blume, **FMP2** 154, **TFM4** 372; shrub; montane forest; 1200–1800 m; Pk, Ph, Sl.
- 175.39.35 **Lasianthus ridleyi** King & Gamble, **FMP2** 154, **TFM4** 371; *Lasianthus singaporensis* King & Gamble, **FMP2** 159; *Lasianthus maingayi* Hook.f. var. *hirtus* Ridl., **FMP2** 160 'hirta'; shrub to 2 m tall; lowland and hill forest including swamps; Ph, Sl, Jh, Sp; endemic.
- 175.39.36 **Lasianthus robinsonii** Ridl., **FMP2** 169, **TFM4** 373; *Litosanthes robinsonii* (Ridl.) Deb & M.G. Gangop., **D22** 222; shrub to 2 m tall; montane forest at about 1200 m; Pk, Ph, Sl; endemic.

- 175.39.37 **Lasianthus salicifolius** Ridl., **FMP2** 166, **TFM4** 367; shrub; montane forest above 1500 m; Ph, Sl; endemic.
- 175.39.38 **Lasianthus scabridus** King & Gamble, **FMP2** 152, **TFM4** 370; shrub to 2 m tall; lowland and hill forest; Ml, Jh, Sp.
- 175.39.39 **Lasianthus scalariformis** King & Gamble, **FMP2** 167, **TFM4** 369; *Litosanthes scalariformis* (King & Gamble) Deb & M.G. Gangop., **D22** 222; shrub to 2 m tall; montane forest at 1800–2200 m; Main Range, Gg Tahan.
- 175.39.40a **Lasianthus stipularis** Blume var. *hirtus* Ridl., **FMP2** 153, **TFM4** 370; shrub to 2 m tall; lowland forest, also on limestone; Sl; endemic variety.
- 175.39.40b **Lasianthus stipularis** Blume var. *stipularis*, **FMP2** 152, **TFM4** 368; shrub to 2 m tall; lowland and hill forest; Kl, Tg, Pk, Ph, Sl, Jh, Sp.
- 175.39.41 **Lasianthus subaureus** Craib, **TFM4** 368; shrub; hill and lower montane forest; P. Langkawi, Jh.
- 175.39.42 **Lasianthus subspicatus** King & Gamble, **FMP2** 168, **TFM4** 373; *Litosanthes subspicata* (King & Gamble) Deb & M.G. Gangop., **D22** 223 '*subspicatus*'; small tree; montane forest; Pk, Pn.
- 175.39.43 **Lasianthus tomentosus** Blume, **FMP2** 161, **TFM4** 371; *Lasianthus chryseus* Ridl., **FMP2** 158; shrub or small tree to 5 m tall; lowland and hill forest; Tg, Ph, Sl, NS, Ml, Jh, Sp.
- 175.39.44 **Lasianthus velutinus** Ridl., **FMP2** 159, **TFM4** 372; shrub to 1 m tall; lowland forest; Kl, Tg; endemic.
- 175.39.45 **Lasianthus villosus** Ridl., **FMP2** 168, **TFM4** 371; *Litosanthes villosa* (Ridl.) Deb & M.G. Gangop., **D22** 223 '*villosus*'; shrub; lowland forest; Tapah, Pk; endemic.
- 175.39.46 **Lasianthus wrayi** King & Gamble, **FMP2** 162, **TFM4** 369; shrub or small tree; hill forest at 600–900 m; Kd, Ph; endemic.
- 175.39.47 **Lasianthus** sp. 1, **TFM4** 367; shrub about 1 m tall; lowland forest; Ph; endemic.
- 175.39.48 **Lasianthus** sp. 2, **TFM4** 370; small tree to 5 m tall; lowland forest; Sg Petuang, Tg; endemic.
- 175.39.49 **Lasianthus** sp. 3, **TFM4** 370; shrub; lowland forest; Gali, Ph; endemic.
- 175.39.50 **Lasianthus** sp. 4, **TFM4** 371; shrub to 2 m tall; lowland forest; Kl, Ph, Sl, NS; endemic.
- 175.39.51 **Lasianthus** sp. 5, **TFM4** 371; shrub; lowland forest; P. Tioman; endemic.

- 175.39.52 **Lasianthus** sp. 6, **TFM4** 372; shrub to 3 m tall; montane forest at 1500–1900 m; Tg, Ph; endemic.
- 175.39.53 **Lasianthus** sp. 7, **TFM4** 372; shrub to 3 m tall; hill forest; Pk, Sl; endemic.
- 175.39.54 **Lasianthus** sp. 8, **TFM4** 373; shrub; lowland forest; Ph, Jh, Sp; endemic.
- 175.40.1 **Lecananthus erubescens** Jack, **FMP2** 57; epiphytic shrub; wet lowland forest; widespread.
- 175.41.1 **Lucinaea membranacea** King, **FMP2** 56; slender climber; lowland and montane forest; widespread.
- 175.41.2 **Lucinaea morinda** DC.; scandent shrub; open sandy spots; widespread.
- 175.41.3 **Lucinaea paniculata** King, **FMP2** 56; climber; Pk; ?endemic.
- 175.41.4 **Lucinaea ridleyi** King, **FMP2** 56; epiphytic climber; montane forest; Pk.
- 175.42.1 **Metadina trichotoma** (Zoll. & Moritzi) Bakh.f., **R16** 374, **TFM4** 374; *Adina polycephala* Benth., **FMP2** 10; tree to 40 m tall; hill and montane forests to 1300 m; scattered.
- 175.43.1 **Meyna grisea** (King & Gamble) Robyns, **TFM4** 375; *Vangueria grisea* (King & Gamble) Ridl., **FMP2** 126; shrub or small spiny tree; open sandy places; Ps, P. Langkawi.
- 175.43.2 **Meyna** sp., **TFM4** 375; shrub or small spiny tree; lowland and secondary forest; Kl, Tg.
- 175.44.1 **Mitracarpus hirtus** (L.) DC., **T19** 127; *Mitracarpus villosus* (Sw.) DC., **M47** 506; erect or spreading herb to 40 cm tall; sandy waste ground; Sl, Jh, Sp; naturalized from tropical America.
- 175.45.1 **Mitragyna diversifolia** (Wall. ex G. Don) Havil., **R17** 65, **TFM4** 375; *Mitragyne parvifolia* auct. non (Roxb.) Korth., **FMP2** 6; small tree; Ps.
- 175.45.2 **Mitragyna speciosa** (Korth.) Havil., **FMP2** 6, **R17** 65, **TFM4** 375; tree to 25 m tall; wet lowland forest; Kl, Pk, Ph, Sl.
- 175.46.1 **Morinda calciphila** K.M. Wong, **W25** 97, **TFM4** 377; climber; on limestone; P. Langkawi, Kd, Kl, Pk, Sl; endemic.
- 175.46.2 **Morinda citrifolia** L., **FMP2** 117, **W25** 94, **TFM4** 376; tree to 9 m tall; lowland forests and rocky coasts, often cultivated; scattered.
- 175.46.3 **Morinda corneri** K.M. Wong, **W25** 96, **TFM4** 376; small tree to 5 m tall; forest margins and secondary forest in the lowlands; Tg, Ph; endemic.

- 175.46.4 **Morinda elliptica** (Hook.f.) Ridl., **FMP2** 118, **W25** 94, **TFM4** 377; tree to 16 m tall; lowland secondary forest and forest margins; widespread and common.
- 175.46.5 **Morinda hispida** K.M. Wong, **W30** 269, **TFM4** 377; climber; heath forest; only known from type, Padang Temambun, Jh; endemic.
- 175.46.6 **Morinda lacunosa** King & Gamble, **FMP2** 119, **W25** 95, **TFM4** 377; liana; hill forest; a few collections from Pk.
- 175.46.7 **Morinda ridleyi** (King & Gamble) Ridl., **FMP2** 118, **W25** 96, **TFM4** 377; liana; lowland forest; south of Malaya; endemic.
- 175.46.8 **Morinda rigida** Miq., **FMP2** 118, **W25** 95, **TFM4** 377; liana; lowland to montane forest; widespread and common.
- 175.46.9 **Morinda scortechinii** (King & Gamble) Ridl., **FMP2** 118, **W25** 95, **TFM4** 377; liana; lowland forest; a few collections from Pk and Ph; endemic.
- 175.46.10 **Morinda umbellata** L., **FMP2** 119, **W25** 95, **TFM4** 377; climber; sea shores to mountains; widespread.
- 175.47.1 **Mussaenda angustisepala** Ridl., **FMP2** 60; large climber; forest margins; north of Malaya; ?endemic.
- 175.47.2 **Mussaenda cordifolia** Wall. ex G. Don, **FMP2** 62; climbing shrub; hill forest; widespread.
- 175.47.3 **Mussaenda glabra** Vahl, **FMP2** 61; shrub or climber; common in secondary forests; widespread.
- 175.47.4 **Mussaenda malaccensis** Ridl., **FMP2** 59; shrub; lowland forest; Ml; ?endemic.
- 175.47.5 **Mussaenda mutabilis** Hook.f., **FMP2** 58; scrambling shrub; lowland to montane forest; widespread.
- 175.47.6 **Mussaenda oblonga** King, **FMP2** 62; large shrub; hill forests; widespread.
- 175.47.7 **Mussaenda polyneura** King, **FMP2** 62; large climber; hill forest; Pk.
- 175.47.8 **Mussaenda purpurascens** Ridl., **FMP2** 61; scrambling shrub; montane forest; Sl; ?endemic.
- 175.47.9 **Mussaenda spectabilis** Ridl., **FMP2** 59; shrub; lowland forest; P. Tioman; ?endemic.
- 175.47.10 **Mussaenda villosa** Wall. ex Hook.f., **FMP2** 60; shrub; lowland and hill forest; widespread.

- 175.47.11 **Mussaenda wrayi** King, **FMP2** 59; scandent shrub; montane forest; widespread.
- 175.48.1 **Mussaendopsis beccariana** Baill., **FMP2** 19, **TFM4** 378; tree to 35 m tall; swampy lowland forest; Pk, Ph, Sl, NS, MI, Jh, Sp.
- 175.49.1 **Mycetia cauliflora** Reinw., **TFM4** 379; *Mycetia scortechinii* (King & Gamble) Ridl., **FMP2** 63; shrub or small tree to 3 m tall; hill forest to 700 m; Ph, Sl.
- 175.49.2 **Mycetia flava** (Ridl.) Ridl., **FMP2** 64, **TFM4** 379; shrub; hill to lower montane forest; Pk, Ph, Sl; endemic.
- 175.49.3 **Mycetia lanceolata** (Ridl.) Ridl., **FMP2** 64, **TFM4** 379; shrub; montane forest at 1000–1600 m; Ph, Sl.
- 175.49.4 **Mycetia malayana** (Wall. ex Ridl.) Craib, **TFM4** 379; *Adenosacme malayana* Wall. ex Ridl., **FMP2** 63; shrub or small tree to 4 m tall; lowland and hill forest, also on limestone; Pn, Pk, Ph, Sl, NS.
- 175.50.1 **Myrmecodia tuberosa** Jack, **FMP2** 173, **H58** 276; spiny ant-inhabited tuberous epiphyte; lowland forest, usually near the sea; KI, Pk, Ph, Sp.
- 175.51.1 **Nauclea officinalis** (Pierre ex Pit.) Merr. & Chun, **R16** 328, **TFM4** 380; *Sarcocephalus junghuhnii* auct. non Miq., **FMP2** 7; tree to 30 m tall; lowland and hill forest; throughout.
- 175.51.2 **Nauclea subdita** (Korth.) Steud., **R16** 329, **TFM4** 381; *Sarcocephalus subditus* (Korth.) Miq., **FMP2** 8; tree to 25 m tall; lowland and hill forest; throughout.
- 175.52.1 **Neolamarckia cadamba** (Roxb.) Bosser, **TFM4** 381; *Anthocephalus indicus* A. Rich., **FMP2** 8; *Anthocephalus chinensis* auct. non (Lam.) A. Rich.; pagoda tree to 40 m tall; lowland and hill forest, often near rivers; Jh northwards.
- 175.53.1 **Neonauclea calycina** (DC.) Merr., **R19** 200; tree to 25 m tall; lowland forest; scattered.
- 175.53.2 **Neonauclea lanceolata** (Blume) Merr. ssp. **gracilis** (Vidal) Ridsdale, **R19** 225; tree to 25 m tall; ?lowland forest; once collected in Malaya, ?Ph.
- 175.53.3 **Neonauclea pallida** (Reinw. ex Havil.) Bakh.f. ssp. **malaccensis** (Gand.) Ridsdale, **R19** 199; *Nauclea purpurascens* auct. non Korth., **FMP2** 9; *Neonauclea purpurascens* Ridl., **FMP5** 314 in part; *Neonauclea pallida* (Reinw. ex Havil.) Bakh.f., **TFM4** 383; shrub or small tree to 12 m tall; lowland to montane forest, often rheophytic; widespread.
- 175.53.4 **Neonauclea sp. 1**, **TFM4** 383; tree to 12 m; Pasoh F.R., NS once.
- 175.53.5 **Neonauclea sp. 2**, **TFM4** 383; tree; Sp.

- 175.53.6 **Neonauclea** sp. 3. **TFM4** 383; tree; Jh.
- 175.54.1 **Nertera granadensis** (Mutis ex L.f.) Druce, **B03** 348 '*granadense*'; *Nertera depressa* Banks & Sol. ex Gaertn., **FMP5** 318; densely tufted creeping herb to 5 cm tall; banks on high mountains; Gg Tahan, Ph.
- 175.55.1 **Ochreinauclea maingayi** (Hook.f.) Ridsdale, **R16** 332. **TFM4** 385; *Sarcocephalus maingayi* (Hook.f.) Havil., **FMP2** 7; tree to 25 m tall; Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.56.1 **Ophiorrhiza communis** Ridl., **FMP2** 39; herb; lowland and hill forest; common and widespread.
- 175.56.2 **Ophiorrhiza costata** Ridl., **FMP2** 37; herb to 40 cm tall; lowland and hill forest; widespread; ?endemic.
- 175.56.3 **Ophiorrhiza discolor** R.Br., **FMP2** 36; herb to 20 cm tall; lowland and hill forest; widespread.
- 175.56.4 **Ophiorrhiza fontinalis** Ridl., **FMP2** 38; herb to 15 cm tall; on rocks in streams; P. Langkawi.
- 175.56.5 **Ophiorrhiza fruticosa** Ridl., **FMP2** 41; much-branched shrublet; on limestone; only known from Bt Takun and Gua Batu, Sl; endemic.
- 175.56.6 **Ophiorrhiza hispidula** Wall. ex G. Don, **FMP2** 40; herb to 20 cm tall; montane forest; Pk, Ph.
- 175.56.7 **Ophiorrhiza kingiana** Ridl., **FMP2** 41; woody-stemmed "herb" to 40 cm tall; near limestone; Pk; ?endemic.
- 175.56.8 **Ophiorrhiza klossii** Ridl., **FMP2** 37; herb to 30 cm tall; forest; Sl; ?endemic.
- 175.56.9 **Ophiorrhiza kunstleri** King, **FMP2** 41; woody-stemmed "herb" to 30 cm tall; on limestone; Ps, P. Langkawi, Kl.
- 175.56.10 **Ophiorrhiza lancifolia** Ridl., **FMP2** 38; subshrub to 20 cm tall; forest; Kl.
- 175.56.11 **Ophiorrhiza longerepens** Ridl.; **R15** 258, **C15** 147; prostrate herb; on limestone; only known from Gua Musang, Kl; endemic.
- 175.56.12 **Ophiorrhiza nervosa** Ridl., **FMP2** 40; herb to 30 cm tall; montane forest; Sl; ?endemic.
- 175.56.13 **Ophiorrhiza pallidula** Ridl., **FMP2** 38; slightly woody-stemmed herb; hill forest; Pk, Ph, Sl; endemic.
- 175.56.14 **Ophiorrhiza remotiflora** Ridl., **FMP2** 37; *Ophiorrhiza major* Ridl., **FMP2** 36; herb; lowland and hill forest; widespread.

- 175.56.15 **Ophiorrhiza rosacea** Ridl., **FMP2** 38; much-branched woody-stemmed 'herb' to 30 cm tall; lowland forest; Pk; ?endemic.
- 175.56.16 **Ophiorrhiza rugosa** Wall., **FMP2** 40; herb to 15 cm tall; lower montane forest; Pk.
- 175.56.17 **Ophiorrhiza scabrella** Ridl., **FMP2** 39; subshrub to 30 cm tall; lowland forest; P. Langkawi.
- 175.56.18 **Ophiorrhiza singaporensis** Ridl., **FMP2** 39; herb to 30 cm tall; lowland forest; south of Malaya.
- 175.56.19 **Ophiorrhiza tenella** King, **FMP2** 40; herb to 30 cm tall; lowland and hill forest; widespread; ?endemic.
- 175.56.20 **Ophiorrhiza tenuis** Ridl., **FMP2** 42; herb to 20 cm tall; lowland and hill forest; scattered; ?endemic.
- 175.56.21 **Ophiorrhiza tomentosa** Jack, **FMP2** 41; herb to 50 cm tall; hill forests; widespread.
- 175.57.1 **Oxyceros curtisii** (King & Gamble) K.M. Wong, **W26** 43; *Randia curtisii* King & Gamble, **FMP2** 74; *Randia incurva* Ridl., **FMP2** 76; spiny liana; lowland and hill forest; Kl, Tg, Pn, Pk, Ph.
- 175.57.2 **Oxyceros fragrantissima** (Ridl.) K.M. Wong, **W26** 43; *Randia fragrantissima* Ridl., **FMP2** 75; spiny liana; Kl, Sl, Ml, Sp; endemic.
- 175.57.3 **Oxyceros horrida** Lour., **W26** 38; *Randia kunstleri* King & Gamble, **FMP2** 74; *Oxyceros kunstleri* (King & Gamble) Tirveng., **T13** 466; *Oxyceros pauciflora* (Ridl.) Tirveng., **T13** 466; liana with curved spines; lowlands; P. Langkawi.
- 175.57.4 **Oxyceros longiflora** (Lam.) T. Yamaz., **W26** 39; *Randia longiflora* Lam., **FMP2** 73; very thorny scrambling shrub; common along rivers and near the sea; P. Langkawi, Pk, Ph, Sl, Ml, Jh, Sp.
- 175.57.5 **Oxyceros penangiana** (King & Gamble) Tirveng., **T13** 466, **W26** 39; *Randia penangiana* King & Gamble, **FMP2** 72; liana with curved spines; lowland and hill forest; Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp; endemic.
- 175.57.6 **Oxyceros pubicalyx** K.M. Wong, **W26** 40; ? climber; hill forest; known only from type, Ml; endemic.
- 175.57.7 **Oxyceros scandens** (Blume) Tirveng., **T13** 466, **W26** 42; *Randia clarkei* King & Gamble, **FMP2** 72; high-climbing liana with recurved spines; lowland forest; Tg, Pk, Sl, NS, Ml, Sp.

- 175.58.1 **Paederia foetida** L., **FMP2** 173, **P26** 210; *Paederia tomentosa* Blume, **FMP2** 174; vine to 7 m long; open disturbed places and secondary forests in the lowlands; Ps, Kd, Kl, Tg, Pn, Pk, Ph, Sl, Ml, Sp.
- 175.58.2 **Paederia verticillata** Blume, **FMP2** 174, **P26** 282; vine to 30 m long; lowland forest; Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.59.1 **Pavetta graciliflora** Wall. ex Ridl., **FMP2** 100, **TFM4** 387; shrub or small tree to 5 m tall; lowland and hill forest to 900 m; widespread.
- 175.59.2 **Pavetta humilis** Hook.f., **FMP2** 101, **TFM4** 388; subshrub to 30 cm tall; lowland and hill forest; Ph, Ml; endemic.
- 175.59.3 **Pavetta kedahica** Bremek., **TFM4** 387; shrub to 3 m tall; islands off Kd; endemic.
- 175.59.4 **Pavetta montana** Reinw. ex Blume, **TFM4** 387; shrub or small tree to 4 m tall; hill and montane forest, 700-1600 m; Tg, Pk, Ml.
- 175.59.5 **Pavetta napieri** (Ridl.) Bremek., **TFM4** 388; *Tarenna napieri* (Ridl.) Ridl., **FMP2** 102; small shrub; lowland forest; mostly in the south.
- 175.59.6 **Pavetta naucleiflora** R.Br. ex G. Don, **FMP2** 101, **TFM4** 388; shrub to 4 m tall; lowland forest, sometimes on limestone; Ps, Kd, Pn, Ph.
- 175.59.7 **Pavetta pauciflora** Ridl., **FMP2** 101, **TFM4** 387; shrub to 3 m tall; on limestone; Ph, Sl; endemic.
- 175.59.8 **Pavetta salicina** (Ridl.) Bremek., **TFM4** 387; *Tarenna salicina* (Ridl.) Ridl., **FMP2** 104; shrub or small tree to 6 m tall; hill and lower montane forest to 1600 m; Main Range; endemic.
- 175.59.9 **Pavetta siamica** Bremek., **TFM4** 388; shrub to 4 m tall; exposed riverbanks; Ps, Kd, Kl, Tg, Ph, Jh.
- 175.59.10 **Pavetta wallichiana** Steud., **TFM4** 388; shrub to 4 m tall; lowland forest; throughout.
- 175.59.11 **Pavetta sp. 1**, **TFM4** 388; shrub or small tree to 6 m tall; lowland forest; Sl, NS; ?endemic.
- 175.59.12 **Pavetta sp. 2**, **TFM4** 388; shrub to 3 m tall; swamp forest; Sg Kayu Ara, Jh; ?endemic.
- 175.59.13 **Pavetta sp. 3**, **TFM4** 388; shrub or small tree to 7 m tall; Kd, Pn; ?endemic.
- 175.59.14 **Pavetta sp. 4**, **TFM4** 388; shrub or small tree to 7 m tall; P. Langkawi; ?endemic.

- 175.60.1 **Perakanthus velutinus** (Ridl.) Robyns, **TFM4** 390; *Canthium velutinum* Ridl., **FMP2** 124; shrub to 4 m tall; lowland to lower montane forest; Kd, Pk, Jh; endemic.
- 175.61.1 **Pertusadina eurhyncha** (Miq.) Ridsdale, **R16** 354, **TFM4** 391; *Adina rubescens* Hemsl., **FMP2** 10; latticed tree to 30 m tall; lowland and hill forest to 400 m; scattered.
- 175.61.2 **Pertusadina malaccensis** Ridsdale, **R16** 356, **TFM4** 391; tree to 30 m tall; lowland and hill forest; localities unclear.
- 175.62.1 **Pleiocarpidia enneandra** (Wight) K. Schum., **B25** 208, **TFM4** 392; *Autocodiscus premnoides* Hook.f., **FMP2** 64; small tree to 16 m tall; lowland forest including swamps; Pn, Pk, Ph, Sl, Ml, Jh; endemic.
- 175.63.1 **Porterandia anisophyllea** (Jack ex Roxb.) Ridl., **W26** 45, **TFM4** 393; *Randia anisophyllea* (Jack ex Roxb.) Hook.f., **FMP2** 77; *Randia scortechinii* King & Gamble, **FMP2** 78; tree to 12 m tall; lowland and hill forest; Kd, Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.63.2 **Porterandia sessiliflora** Ridl., **W26** 46, **TFM4** 393; tree to 12 m tall; hill forest; twice from Pk.
- 175.64.1 **Prismatomeris glabra** (Korth.) Valetton, **J12** 54, **TFM4** 395; shrub to 4 m tall; lowland to montane forest; throughout.
- 175.64.2 **Prismatomeris griffithii** Ridl., **J12** 32, **TFM4** 395; shrub; dry deciduous forest and on limestone; Ps.
- 175.64.3 **Prismatomeris tetrandra** (Roxb.) K. Schum. ssp. **malayana** (Ridl.) J.T. Johanss., **J12** 29, **TFM4** 396; *Prismatomeris malayana* Ridl., **FMP2** 116; shrub to 5 m tall; rocky shores, lowland forest, limestone; throughout.
- 175.64.4 **Prismatomeris sp.**, **TFM4** 395; ?*Coffea malayana* Ridl., **FMP2** 111; shrub to 2 m tall; lowland and hill forest, also on limestone; Ps, Pk, Sl, NS, Ml.
- 175.65.1 **Psychotria adenophylla** Wall., **TFM4** 398; *Psychotria siamensis* Ridl., **FMP2** 138; shrub or small tree; lowland forest; Ps, P. Langkawi.
- 175.65.2 **Psychotria albopedunculata** I.M. Turner, **T21** 27; *Cephaelis melanocarpa* Ridl., **FMP2** 144; shrub to 1 m tall; hill forest; Bt Tangga, NS; ?endemic.
- 175.65.3 **Psychotria angulata** Korth., **FMP2** 138, **TFM4** 398; *Psychotria griffithii* Hook.f. var. *angustifolia* Ridl., **FMP2** 137; shrub to 3 m tall; lowland forest, also on limestone; throughout.
- 175.65.4 **Psychotria atroviridis** Ridl., **FMP2** 140; subshrub to 30 cm tall; hill forest; Bt Tangga, NS; ?endemic.

- 175.65.5 **Psychotria birchiana** King & Gamble, **FMP2** 135; shrublet; montane forests; Pk, Sl; ?endemic.
- 175.65.6 **Psychotria brachybotrys** Ridl., **FMP2** 133; slender scandent shrub; montane forest; Ph, Sl; ?endemic.
- 175.65.7 **Psychotria calocarpa** Kurz, **FMP2** 133, **TFM4** 398; shrub; lowland forest; Kd, Kl, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.65.8 **Psychotria cantleyi** Ridl., **FMP2** 130; scandent shrub; lowland and hill forest; widespread; ?endemic.
- 175.65.9 **Psychotria condensa** King & Gamble, **FMP2** 129; epiphytic shrub; montane forest; Kd, Pk, Ph; ?endemic.
- 175.65.10 **Psychotria coriacea** Korth., **FMP2** 136; shrub; forest; Gg Puali, Jh.
- 175.65.11 **Psychotria cuspidella** Miq., **FMP2** 139; shrub; montane forest; Semangkok Pass, Sl; ?endemic.
- 175.65.12 **Psychotria fulva** Buch.-Ham. ex Hook.f., **FMP2** 136, **TFM4** 397; shrub; montane forest; Kl, Pk, Ph.
- 175.65.13 **Psychotria fulvoidea** King & Gamble, **FMP2** 136; small shrub; Pk; ?endemic.
- 175.65.14 **Psychotria griffithii** Hook.f., **FMP2** 137, **TFM4** 399; shrub or small tree; lowland forest; Tg, Pk, Sl, NS, Ml, Jh, Sp; endemic.
- 175.65.15 **Psychotria helferiana** Kurz, **FMP2** 134, **TFM4** 396; shrub; lowland and hill forest; Pn, Pk, Sl, Ml, Jh, Sp.
- 175.65.16 **Psychotria inaequalis** King & Gamble, **FMP2** 141; subshrub; Pk; ?endemic.
- 175.65.17 **Psychotria kunstleri** King & Gamble, **FMP2** 132; epiphyte; Pk.
- 175.65.18 **Psychotria lanceolaria** Ridl., **FMP2** 134; slender shrub; lowland forest; Sl; ?endemic.
- 175.65.19 **Psychotria lasiocephala** Ridl., **TFM4** 398; shrub; on limestone; Ps.
- 175.65.20 **Psychotria laxiflora** Blume, **FMP2** 133; slender climber; Pk.
- 175.65.21 **Psychotria maingayi** Hook.f., **FMP2** 131; slender climber; lowland forest, often near the sea; Sl southward; ?endemic.
- 175.65.22 **Psychotria malaccensis** I.M. Turner, **T21** 27; *Cephaelis griffithii* Hook.f., **FMP2** 144; shrublet; lowland forest; scattered.
- 175.65.23 **Psychotria malayana** Jack, **FMP2** 139, **TFM4** 397; *Psychotria stipulacea* Wall., **FMP2** 140.

- 175.65.24 **Psychotria megacarpa** Ridl., **FMP2** 140; shrub; montane forest; Gg Kerbau, Pk; ?endemic.
- 175.65.25 **Psychotria montana** Blume, **FMP2** 137, **TFM4** 397; *Becheria parviflora* Ridl., **FMP2** 21 in part; shrub; lowland to lower montane forest; Kl, Tg, Pk, Ph, Sl, Ml, Jh.
- 175.65.26 **Psychotria morindiflora** Wall., **FMP2** 131; large woody climber; lowland forest; Pn, Pk; ?endemic.
- 175.65.27 **Psychotria multicapitata** King & Gamble; shrub; Pk; ?endemic.
- 175.65.28 **Psychotria naviculiformis** I.M. Turner, **T21** 27; *Cephaelis ridleyi* King, **FMP2** 144; shrub to 60 cm tall; montane forest; Pk, Sl; ?endemic.
- 175.65.29 **Psychotria obovata** Wall., **FMP2** 129; climbing shrub; lowlands; widespread and common.
- 175.65.30 **Psychotria ophirensis** I.M. Turner, **T21** 26; *Cephaelis angustifolia* Ridl., **FMP2** 145; sparsely-branched shrub to 50 cm tall; montane forest; NS, Ml, Jh; ?endemic.
- 175.65.31 **Psychotria ovoidea** Wall., **FMP2** 130; slender climber; lowland forest, on trees or the ground; Pk southward; ?endemic.
- 175.65.32 **Psychotria pachyphylla** (King & Gamble) Ridl., **FMP2** 129; large climbing shrub; hill forest; Pn.
- 175.65.33 **Psychotria penangiana** Hook.f., **FMP2** 132; shrubby climber; lowland forest; common and widespread; ?endemic.
- 175.65.34 **Psychotria pilulifera** King & Gamble, **FMP2** 130; small tree or climber; hill forest; Pk; ?endemic.
- 175.65.35 **Psychotria polytricha** Miq., **FMP2** 132; slender climber; on tree trunks in lowland forest; Pk.
- 175.65.36 **Psychotria porcata** I.M. Turner, **T21** 27; *Cephaelis elongata* Ridl., **FMP2** 145; montane forest; Semangkok Pass, Sl; ?endemic.
- 175.65.37 **Psychotria rhinocerotis** Reinw. ex Blume, **FMP2** 135, **TFM4** 396; shrub or small tree to 3 m tall; lowland forest; Ps, Kd, Kl, Pk, Ph.
- 175.65.38 **Psychotria ridleyi** King & Gamble, **FMP2** 133; climber; lowland and hill forest; scattered.
- 175.65.39 **Psychotria robusta** Blume, **TFM4** 397; shrub or small tree; lowland and hill forest; Tg, Ph, Jh.
- 175.65.40 **Psychotria rostrata** Blume, **FMP2** 134, **TFM4** 397; shrub or small tree to 3 m tall; lowland and hill forest; Pk, Ph, Sl, NS, Ml, Jh, Sp.

- 175.65.41 **Psychotria rudis** Ridl., **FMP2** 138; small shrub; hill forest; Gg Jerai, Kd; ?endemic.
- 175.65.42 **Psychotria sarmentosa** Blume, **FMP2** 131; climber; lowland forest; widespread.
- 175.65.43 **Psychotria scortechinii** King & Gamble, **FMP2** 130; climber; Pk; ?endemic.
- 175.65.44 **Psychotria setistipula** Ridl., **FMP2** 138; shrub; montane forest; Gg Mengkuang Lebah, Sl; ?endemic.
- 175.65.45 **Psychotria singaporensis** (Ridl.) I.M. Turner, **T21** 27; *Cephaelis singaporensis* Ridl., **FMP2** 144; lowland and hill forest; Jh, Sp; ?endemic.
- 175.65.46 **Psychotria sohmerana** I.M. Turner, **T21** 26; *Psychotria minutiflora* (non Müll.Arg.) Ridl., **FMP2** 141; small shrub; montane forest; Genting Simpah, Sl; ?endemic.
- 175.65.47 **Psychotria subcoriacea** (Ridl.) I.M. Turner, **T21** 27; *Cephaelis subcoriacea* Ridl., **FMP2** 145; subshrub; montane forest; Gg Mengkuang Lebah, Sl; ?endemic.
- 175.65.48 **Psychotria tahanica** I.M. Turner, **T21** 26; *Cephaelis albiflora* Ridl., **FMP2** 146; shrub to 2 m tall; montane forest near streams; Gg Tahan, Ph; ?endemic.
- 175.65.49 **Psychotria triceps** (Ridl.) I.M. Turner, **T21** 27; *Cephaelis triceps* Ridl., **FMP2** 145; shrub to 1 m or more tall; montane forest; Sl; ?endemic.
- 175.65.50 **Psychotria viridiflora** Reinw. ex Blume, **FMP2** 139, **TFM4** 398; shrub or small tree; lowland forest, also on limestone; throughout.
- 175.65.51 **Psychotria vulpina** Ridl., **FMP2** 136; shrub; lowland forest; Kuala Lebir, Kl; ?endemic.
- 175.65.52 **Psychotria wrayi** King & Gamble, **FMP2** 141; shrub; Pk; ?endemic.
- 175.65.53 **Psychotria** sp. 1, **TFM4** 396; shrub to 3 m tall; lowland forest; Kl, Ph; ?endemic.
- 175.65.54 **Psychotria** sp. 2, **TFM4** 397; shrub to 3 m tall; lowland forest; Kl, Tg, Pk, Ph; ?endemic.
- 175.65.55 **Psychotria** sp. 3, **TFM4** 397; shrub to 3 m tall; lowland forest; Pk, Jh; ?endemic.
- 175.65.56 **Psychotria** sp. 4, **TFM4** 397; shrub or small tree to 6 m tall; hill forest; Sl; ?endemic.
- 175.65.57 **Psychotria** sp. 5, **TFM4** 397; shrub; lowland and hill forest; Pn, Sl; ?endemic.
- 175.65.58 **Psychotria** sp. 6, **TFM4** 397; shrub; lowland forest; Tg; ?endemic.

- 175.65.59 **Psychotria sp. 7, TFM4** 398; shrub; lowland swamp forest; Sg Kayu, Jh; ?endemic.
- 175.65.60 **Psychotria sp. 8, TFM4** 398; shrub; lowland forest; K1, Pk; ?endemic.
- 175.65.61 **Psychotria sp. 9, TFM4** 398; shrub; lowland forest; Sp; ?endemic.
- 175.65.62 **Psychotria sp. 10, TFM4** 399; shrub; montane forest at 1300 m; Gg Padang, Tg; ?endemic.
- 175.65.63 **Psychotria sp. 11, TFM4** 399; small tree; montane forest at 1800 m; Cameron Highlands, Ph; ?endemic.
- 175.65.64 **Psychotria sp. 12, TFM4** 399; shrub; hill forest at 900 m; Gg Tahan, Ph; ?endemic.
- 175.66.1 **Psydrax maingayi** (Hook.f.) Bridson, **TFM4** 402; *Mesoptera maingayi* Hook.f., **FMP2** 127; tree to 18 m tall; lowland to lower montane forest; Tg, Ph, Pk, Sl, NS, Ml, Jh; endemic.
- 175.66.2 **Psydrax nitidum** (Craib) K.M. Wong, **TFM4** 400; *Canthium didymum* sensu Ridl., **FMP2** 126 in part; small tree to 5 m tall; lowland forest including that on limestone; P. langkawi.
- 175.66.3 **Psydrax sp. 1, TFM4** 402; tree to 18 m tall; lowland and hill forest; widespread; ?endemic.
- 175.66.4 **Psydrax sp. 2, TFM4** 403; tree to 12 m tall; hill forest at 800–1100 m; Gg Jerai, Kd; endemic.
- 175.66.5 **Psydrax sp. 3, TFM4** 400; small tree to 6 m tall; montane forest at 1100–1300 m; Main Range; ?endemic.
- 175.66.6 **Psydrax sp. 4, TFM4** 401; small tree to 4 m tall; montane forest; Ph; ?endemic.
- 175.66.7 **Psydrax sp. 5, TFM4** 403; tree to 15 m tall; lowland forest, often near the coast; Pn, Pk, Ph, Jh.
- 175.66.8 **Psydrax sp. 6, TFM4** 400; tree to 9 m tall; montane forest; Ph, Sl; ?endemic.
- 175.66.9 **Psydrax sp. 7, TFM4** 403; tree to 15 m tall; lowland forest including swamps; Pk, Sl, Jh; ?endemic.
- 175.66.10 **Psydrax sp. 8, TFM4** 403; tree to 15 m tall; lowland and hill forest, also on limestone; widespread.
- 175.66.11 **Psydrax sp. 9, TFM4** 404; tree to 16 m tall; montane forest; Cameron Highlands, Ph; ?endemic.
- 175.66.12 **Psydrax sp. 10, TFM4** 404; tree to 23 m tall; lowland forest; widespread.

- 175.66.13 **Psydrax sp. 11**, **TFM4** 402; small tree to 9 m tall; freshwater and mangrove swamps; Ph, Jh, Sp.
- 175.66.14 **Psydrax sp. 12**, **TFM4** 401; small tree; on limestone; P. Langkawi; ?endemic.
- 175.67.1 **Rennellia elliptica** Korth., **J14** 7; *Rennellia speciosa* (Wall. ex Kurz) Hook.f. var. *elongata* King & Gamble, **FMP2** 120; ?*Rennellia speciosa* var. *angustifolia* Ridl., **FMP2** 120; *Rennellia elongata* (King & Gamble) Ridl., **TFM4** 405; *Rennellia paniculata* King & Gamble var. *condensa* K.M. Wong, **TFM4** 405; shrub or tree to 8 m tall; lowland to lower montane forest at 1500 m; widespread.
- 175.67.2 **Rennellia microcephala** (Ridl.) K.M. Wong, **TFM4** 405; *Myrioneuron microcephalum* Ridl., **FMP2** 57; shrub to 4 m tall; lowland and hill forest to 800 m; Kd, Kl, Tg, Ph; endemic.
- 175.67.3 **Rennellia morindiformis** (Korth.) Ridl., **J14** 15; *Rennellia paniculata* King & Gamble, **FMP2** 119, **TFM4** 405; *Rennellia sp.*, **TFM4** 405; shrub or tree to 8 m tall; lowland to lower montane forest; once each from Kl, Pk, Ph.
- 175.67.4 **Rennellia speciosa** (Wall. ex Kurz) Hook.f., **FMP2** 120, **J14** 7, **TFM4** 405; shrub or tree to 7 m tall; lowland and hill forest; south and east of Malaya.
- 175.68.1 **Rothmannia kuchingensis** (J.J. Sm.) K.M. Wong, **W30** 270, **TFM4** 406; tree to 6 m tall; on sandstone plateaux; Ulu Endau, Jh.
- 175.68.2 **Rothmannia macrophylla** (R.Br. ex Hook.f.) Bremek., **W26** 48, **TFM4** 406; *Randia macrophylla* R.Br. ex Hook.f., **FMP2** 78; shrub to 3 m tall; lowland and hill forest; Kd, Kl, Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.68.3 **Rothmannia malayana** K.M. Wong, **W26** 51, **TFM4** 406; tree to 10 m tall; lowland forest; once each from Kl and Ph; endemic.
- 175.68.4 **Rothmannia schoemannii** (Teijsm. & Binn.) Tirveng., **W26** 49, **TFM4** 406; *Randia exaltata* Griff., **FMP2** 78; tree to 30 m tall; lowland and hill forest; P. Langkawi, Kd, Kl, Tg, Pn, Pk, Ph, Sl, NS, Ml.
- 175.69.1 **Saprosma glomerulata** King & Gamble, **FMP2** 170, **TFM4** 407; shrub to 3 m tall; lowland to lower montane forest; Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp; endemic.
- 175.69.2 **Saprosma indica** *sensu* Ridl., **FMP2** 170, **TFM4** 407; *Amaracarpus saxicola* Ridl., **FMP2** 172, **C15** 141; shrub to 3 m tall; on limestone; Ps, Kd, Kl, Pk, Ph.
- 175.69.3a **Saprosma pubescens** Ridl. var. *hirsuta* Ridl., **FMP2** 171, **TFM4** 408; shrub; lowland and hill forest; Tg, Ml; endemic.
- 175.69.3b **Saprosma pubescens** Ridl. var. *pubescens*, **FMP2** 171, **TFM4** 408; shrub to 3 m tall; lowland and hill forest; Ph, NS, Ml; endemic.

- 175.69.4 **Saprosma scortechinii** King & Gamble, **FMP2** 170, **TFM4** 407; shrub to 2 m tall; lowland and hill forest to 1000 m; Kd, Tg, Pk, Ph; endemic.
- 175.69.5 **Saprosma ternata** (Wall.) Hook.f., **FMP2** 170, **TFM4** 407, G01 92; shrub to 3 m tall; lowland and hill forest; Pn, Kl, Pk, Ph, Sl, Jh.
- 175.69.6 **Saprosma** sp. 1, **TFM4** 407; shrub; lowlands; Sg Serai, Kl; ?endemic.
- 175.69.7 **Saprosma** sp. 2, **TFM4** 407; shrub; lowland and hill forest; Kl, Pk, Ph, Sl; ?endemic.
- 175.69.8 **Saprosma** sp. 3, **TFM4** 407; shrub; lowland forest; Krau, Ph; ?endemic.
- 175.70.1 **Scyphiphora hydrophyllacea** C.F. Gaertn., **FMP2** 89, **TFM4** 408; tree to 6 m tall, sometimes with stilt roots; sea shores and mangrove swamps; all coasts except Pk.
- 175.71.1 **Spermacoce articularis** L.f., **S27** 363; *Borreria articularis* (L.f.) F.N. Williams, **K09** 152; *Borreria hispida* auct. non (L.) K. Schum., **FMP2** 175; rough wiry herb; sandy waste ground, common near the sea; throughout.
- 175.71.2 **Spermacoce assurgens** Ruiz & Pav., **F16** 118, **B39** 315; *Borreria laevis* auct. non (Lam.) Griseb., **M28** 132, **M44** 496; herb; waste places; widespread; naturalized from tropical America.
- 175.71.3 **Spermacoce exilis** (L.O. Williams) C.D. Adams, **B09** 316; *Borreria setidens* (Miq.) Bold., **FMP2** 177; *Borreria repens* DC., **F19** 133; *Borreria ocyroides* auct. non (Burm.f.) DC., **K09** 152; *Spermacoce mauritiana* Gideon, **V09** 547; herb, often creeping, ascending to 30 cm; waste places, garden weed; throughout.
- 175.71.4 *Borreria laevicaulis* (Miq.) Ridl., **FMP2** 176; wiry herb to 50 cm tall; roadsides, waste places; common throughout.
The correct name in *Spermacoce* for this species remains unknown to me.
- 175.71.5 **Spermacoce latifolia** Aubl., **D21** 1051; *Borreria latifolia* (Aubl.) K. Schum., **FMP2** 175; *Borreria alata* (Aubl.) DC., **M47** 492; herb to 60 cm tall; waste places; widespread; naturalized from tropical America.
- 175.71.6 **Spermacoce parviceps** (Ridl.) I.M. Turner, **T24** 222; *Borreria parviceps* Ridl., **FMP2** 176; slender erect herb; roadsides; Tg, NS, MI, Sp; ?endemic.
- 175.71.7 **Spermacoce pilulifera** (Ridl.) I.M. Turner, **T24** 222; *Borreria pilulifera* Ridl., **FMP2** 176; slender herb about 30 cm tall; roadsides; Klang, Gates, Sl; ?endemic.
- 175.72.1 **Streblosa polyantha** Korth., **B28** 176; *Streblosa pubescens* Ridl., **FMP2** 148; *Streblosa hirta* Ridl., **FMP2** 149; herb to 25 cm tall; Pn, Pk.
- 175.72.2 **Streblosa microcarpa** Ridl., **FMP2** 148, **B28** 164; herb to 60 cm tall; Pn, Pk.

- 175.73.1 **Tarenna adangensis** (Ridl.) Ridl., **FMP2** 107, **TFM4** 412; *Tarenna calcarea* Ridl., **FMP2** 108; shrub to 6 m tall; on limestone; Ps, P. Langkawi, Kl, Pk, Sl.
- 175.73.2 **Tarenna adpressa** (King) Merr., **TFM4** 411; *Tarenna papillosa* Ridl., **FMP2** 103; *Stylocoryna adpressa* King, **FMP2** 110; shrub to 4 m tall; peat swamp forest; Ph, Sl, Jh; endemic.
- 175.73.3 **Tarenna angustifolia** (King) Merr., **TFM4** 412; *Stylocoryna angustifolia* King, **FMP2** 109; shrub to 3 m tall; on limestone; Kl, Pk, Ph, Sl.
- 175.73.4 **Tarenna costata** (Miq.) Merr., **TFM4** 415; *Stylocoryna costata* Miq., **FMP2** 109; shortly buttressed tree to 30 m tall; lowland and hill forest; Ph, Sl, NS, Ml, Jh, Sp.
- 175.73.5 **Tarenna curtisii** (King) F.N. Williams, **FMP2** 107, **TFM4** 412; shrub to 3 m tall; on limestone; P. Langkawi.
- 175.73.6 **Tarenna evansii** Ridl., **FMP2** 103, **TFM4** 410; subshrub to 50 cm tall; montane forest; Gg Senyum, Ph; endemic.
- 175.73.7 **Tarenna fragrans** (Nees) Koord. & Valetton, **TFM4** 411; *Stylocoryna fragrans* (Nees) DC., **FMP2** 108; shrub or small tree to 8 m tall; lowland forest, often on river banks; Kd, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.73.8 **Tarenna glabra** Ridl., **FMP2** 106, **TFM4** 412; shrub to 4 m tall; lowland and hill forest; Kl, Tg, Pk; endemic.
- 175.73.9 **Tarenna hispidula** Craib, **TFM4** 410; *Tarenna adpressa auct. non* (King) Merr., **C14** 149; shrub; lowland forest; P. Langkawi.
- 175.73.10 **Tarenna insularis** (Ridl.) Ridl., **FMP2** 107, **TFM4** 412; shrub to 2 m tall; lowland forest; Ps, P. Langkawi.
- 175.73.11 **Tarenna lancifolia** Ridl., **FMP5** 316, **TFM4** 411; shrub; hill forest at 600–1000 m; Gg Jerai, Kd, Gg Tahan, Ph; endemic.
- 175.73.12 **Tarenna longifolia** (G. Don) Ridl., **FMP2** 104, **TFM4** 409; shrub to 3 m tall; lowland forest; Pn, Pk; endemic.
- 175.73.13 **Tarenna maingayi** (Hook.f.) Merr., **TFM4** 410; *Stylocoryna maingayi* (Hook.f.) King, **TFM2** 110; shrub to 3 m tall; lowland and hill forest; Sl, NS, Ml, Jh; endemic.
- 175.73.14 **Tarenna mollis** (Wall. ex Hook.f.) B.L. Rob., **TFM4** 416; *Stylocoryna mollis* (Wall. ex Hook.f.) King, **FMP2** 109; shrub or tree to 16 m tall; lowland to lower montane forest; Pn, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.73.15 **Tarenna mussaendoides** (Craib) K.M. Wong, **TFM4** 411; shrub or small tree; on limestone; Kaki Bukit, Ps.

- 175.73.16 **Tarenna odorata** (Roxb.) B.L. Rob., **FMP2** 105, **TFM4** 410; *Tarenna grandifolia* (Hook.f.) Ridl., **FMP2** 104; shrub or small tree to 6 m tall; lowland forest including swamps; Pn, Pk, Sl, Ml, Jh, Sp; ?endemic.
- 175.73.17 **Tarenna pulchra** (Ridl.) Ridl., **FMP2** 104, **TFM4** 410; shrub to 3 m tall; montane forest above 1200 m; Ph, Sl.
- 175.73.18 **Tarenna ridleyi** (H. Pearson ex King) Ridl., **FMP2** 106 in part, **TFM4** 412; shrub; lowland forest; Ph, Sp; endemic.
- 175.73.19 **Tarenna rudis** Ridl., **FMP2** 103, **TFM4** 409; shrub to 4 m tall; lowland forest; Sl; endemic.
- 175.73.20 **Tarenna stellulata** (Hook.f.) Ridl., **FMP2** 106, **TFM4** 412; shrub to 4 m tall; lowland to montane forest at 1200 m; Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.73.21 **Tarenna wallichii** (Hook.f.) Ridl., **FMP2** 106, **TFM4** 413; shrub to 3 m tall; lowland forest; Pn, Pk, Ml.
- 175.73.22 **Tarenna wrayi** (King) Ridl., **FMP2** 105, **TFM4** 411; shrub; Pk; endemic.
- 175.73.23 **Tarenna yappii** (King) Ridl., **FMP2** 105, **TFM4** 411; shrub; Pk; endemic.
- 175.73.24 **Tarenna** sp. 1, **TFM4** 409; shrub; Ulu Brang, Tg; ?endemic.
- 175.73.25 **Tarenna** sp. 2, **TFM4** 409; hill forest at 680 m; Gg Tapis, Ph; ?endemic.
- 175.73.26 **Tarenna** sp. 3, **TFM4** 410; shrub; lowland forest; Gg Lang, Kd; ?endemic.
- 175.73.27 **Tarenna** sp. 4, **TFM4** 410; shrub to 2 m tall; lowland forest; Tg, Ph, Jh; ?endemic.
- 175.73.28 **Tarenna** sp. 5, **TFM4** 411; shrub; lowland forest; Bubu F.R., Pk; endemic.
- 175.73.29 **Tarenna** sp. 6, **TFM4** 411; shrub; montane forest; Fraser's Hill, Ph; endemic.
- 175.73.30 **Tarenna** sp. 7, **TFM4** 411; shrub to 2 m tall; lower montane forest; Tg, Ph; endemic.
- 175.73.31 **Tarenna** sp. 8, **TFM4** 412; shrub or small tree to 8 m tall; lowland and hill forest, also limestone; Ps, Kd, Pn, Kl, Pk, Ph, Sl, NS, Jh; endemic.
- 175.73.32 **Tarenna** sp. 9, **TFM4** 412; shrub to 4.5 m tall; on limestone; Lenggong, Pk; endemic.
- 175.73.33 **Tarenna** sp. 10, **TFM4** 413; shrub to 3 m tall; on limestone; Pk; endemic.
- 175.73.34 **Tarenna** sp. 11, **TFM4** 413; shrub to 3 m tall; Pasoh F.R., NS; ?endemic.
- 175.73.35 **Tarenna** sp. 12, **TFM4** 413; shrub to 2 m tall; hill forest; Ulu Langat, Sl; ?endemic.

- 175.73.36 **Tarenna** sp. **13**, **TFM4** 414; shrub to 3 m tall; lowland and hill forest; Ph; ?endemic.
- 175.73.37 **Tarenna** sp. **14**, **TFM4** 415; shrub; montane forest; Gg Tahan, Ph; ?endemic.
- 175.73.38 **Tarenna** sp. **15**, **TFM4** 415; shrub; montane forest at 1200 m; Gg Padang, Tg; ?endemic.
- 175.73.39 **Tarenna** sp. **16**, **TFM4** 412; tree to 8 m tall; on limestone; Batu Caves, Sl; endemic.
- 175.74.1 **Timonius compressicaulis** (Miq.) Boerl., **W27** 514, **TFM4** 417; *Timonius finlaysonianus* Hook.f., **FMP2** 113; shrub or small tree to 7 m tall; sandy and rocky shores; all coasts.
- 175.74.2a **Timonius corneri** K.M. Wong var. **corneri**, **W27** 500, **TFM4** 419; tree to 18 m tall; lowland and hill forest; Kl, Tg.
- 175.74.2b **Timonius corneri** K.M. Wong var. **penangianus** (Ridl.) K.M. Wong, **W27** 502, **TFM4** 419; *Timonius wallichianus* (Korth.) Valeton var. *penangianus* Ridl., **FMP2** 116; tree to 18 m tall; hill and montane forest; Kd, Pn, Pk, Ph.
- 175.74.3 **Timonius diffusus** Ridl., **FMP2** 115, **W27** 503, **TFM4** 417; tree to 10 m tall; montane forest at 1000–1500 m; Ph, Sl; endemic.
- 175.74.4 **Timonius flavescens** (Jack) Baker, **W27** 504, **TFM4** 418; *Timonius peduncularis* Ridl., **FMP2** 113; tree to 12 m tall; on peaty soils in the lowlands and mountains; throughout.
- 175.74.5 **Timonius glabrior** (Valeton) K.M. Wong, **W27** 505, **TFM4** 417; tree to 10 m tall; lowland forest; Pk; endemic.
- 175.74.6 **Timonius laxus** King & Gamble, **FMP2** 115, **W27** 506, **TFM4** 418; tree to 10 m tall; lowland forest; only known from type, Ulu Bubong, Pk; endemic.
- 175.74.7 **Timonius montanus** Ridl., **FMP2** 114, **W27** 506, **TFM4** 418; shrub to 3 m tall; montane forest above 1200 m; Gg Lawit, Tg; Gg Tahan & Gg Tapis, Ph; endemic.
- 175.74.8 **Timonius oreophilus** Ridl., **FMP2** 114, **W27** 506, **TFM4** 418; shrub to 6 m tall; hill and montane forest above 700 m; Ph, Sl; endemic.
- 175.74.9 **Timonius wallichianus** (Korth.) Valeton, **FMP2** 116, **W27** 507, **TFM4** 417; tree to 7 m tall; lowland forests, common in secondary vegetation; Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.74.10 **Timonius wrayi** King & Gamble, **FMP2** 115, **W27** 512, **TFM4** 419; tree to 15 m tall; lowland and hill forest; Tg, Pk, Ph, Jh; endemic.

- 175.74.11 **Timonius** sp. A, **W27** 509, **TFM4** 418; shrub to 3 m tall; lowland forest; NS; ?endemic.
- 175.74.12 **Timonius** sp. B, **W27** 509, **TFM4** 418; tree to 10 m tall; Jh; ?endemic.
- 175.74.13 **Timonius** sp. C, **W27** 512, **TFM4** 418; ?shrub; hill forest; Larut, Pk; ?endemic.
- 175.74.14 **Timonius** sp. D, **W27** 512, **TFM4** 417; ?shrub; Larut, Pk; ?endemic.
- 175.75.1 **Uncaria** *acida* (W. Hunt.) Roxb., **R17** 80; *Uncaria* *ovalifolia* Roxb., **FMP2** 14; slender liana; damp or swampy lowland forest; south of Malaya.
- 175.75.2 **Uncaria** *attenuata* Korth., **FMP2** 16, **R17** 79; slender liana; lowland forest; scattered.
- 175.75.3 **Uncaria** *barbata* Merr., **R17** 80; liana; localities uncertain.
- 175.75.4 **Uncaria** *borneensis* Havil., **R17** 79; liana; localities uncertain.
- 175.75.5 **Uncaria** *callophylla* Blume ex Korth., **R17** 85; *Uncaria* *wrayi* King & Gamble, **FMP2** 14; *Uncaria* *jasminiflora* Hook.f., **FMP2** 15; liana; lowland forests; widespread.
- 175.75.6 **Uncaria** *canescens* Korth., **FMP2** 16, **R17** 80; slender liana; lowland forest; Pn, Pk.
- 175.75.7a **Uncaria** *cordata* (Lour.) Merr. var. *cordata*, **R17** 75; *Uncaria* *pedicellata* Roxb., **FMP2** 12; liana; lowland forest; widespread.
- 175.75.7b **Uncaria** *cordata* (Lour.) Merr. var. *ferruginea* (Blume) Ridsdale, **R17** 76; *Uncaria* *sclerophylla* auct. non Roxb., **FMP2** 12; big liana; common in lowland forest; widespread.
- 175.75.8 **Uncaria** *elliptica* R.Br. ex G. Don, **R17** 81; *Uncaria* *dasyoneura* Korth., **FMP2** 16; liana; lowland forest; Pn, Pk, Ml.
- 175.75.9 **Uncaria** *gambir* (W. Hunt.) Roxb., **FMP2** 15, **R17** 82; liana; established in southern lowlands as relic of former cultivation; naturalized but origins obscure.
- 175.75.10 **Uncaria** *homomalla* Miq., **R17** 95; *Uncaria* *parviflora* (Ridl.) Ridl., **FMP2** 12; liana; open country; Ps.
- 175.75.11 **Uncaria** *kunstleri* King, **FMP2** 14, **R17** 80; big liana; lowland forest including peat swamps; Pk.
- 175.75.12b **Uncaria** *lanosa* Wall. var. *ferrea* (Blume) Ridsdale, **R17** 87; *Uncaria* *ferrea* (Blume) DC., **FMP2** 14 incl. var. *tomentosa* King; slender hairy liana; lowland forest margins; widespread.

- 175.75.12b **Uncaria lanosa** Wall. var. **glabrata** (Blume) Ridsdale, **R17** 86; *Uncaria glabrata* Blume, **FMP2** 14; slender liana; lowland forest; south of Malaya.
- 175.75.12c **Uncaria lanosa** Wall. var. **lanosa**, **R17** 86; *Uncaria lanosa* Wall., **FMP2** 12; hairy liana; forest margins; Pn, Pk, Ph, Ml.
- 175.75.13a **Uncaria longiflora** (Poir.) Merr. var. **longiflora**, **R17** 82; *Uncaria trinervis* Havil., **FMP2** 15; slender liana; hill forest; Pn.
- 175.75.13b **Uncaria longiflora** (Poir.) Merr. var. **pteropoda** (Miq.) Ridsdale, **R17** 82; *Uncaria pteropoda* Miq., **FMP2** 15; big liana; lowland forest margins; widespread.
- 175.75.14 **Uncaria roxburghiana** Korth., **FMP2** 11, **R17** 89; slender liana; lowland forest margins; widespread.
- 175.76.1 **Urophyllum blumeanum** (Wight) Hook.f., **TFM4** 421; *Urophyllum glabrum* Wall. var. *blumeanum sensu* Ridl., **FMP2** 69; shrub or small tree to 8 m tall; lowland and hill forest to 900 m; throughout.
- 175.76.2 **Urophyllum corymbosum** (Blume) Korth., **FMP2** 67, **TFM4** 422; *Maschalocorymbus corymbosus* (Blume) Bremek.; **B40** 182, **B03** 307; shrub or small tree to 9 m tall; lowland to lower montane forest at 1300 m; Ps, Ph, Sl, NS, Jh, Sp.
- 175.76.3 **Urophyllum ferrugineum** King & Gamble, **FMP2** 67, **TFM4** 421; shrub to 2 m tall; lowland to lower montane forest at 1300 m; Pk, Jh; endemic.
- 175.76.4 **Urophyllum glabrum** Wall., **FMP2** 68, **TFM4** 423; shrub or small tree to 5 m tall; lowland to lower montane forest at 1400 m; throughout.
- 175.76.5 **Urophyllum griffithianum** (Wight) Hook.f., **FMP2** 69, **TFM4** 423; shrub or small tree to 5 m tall; lowland and hill forest; Pn, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.76.6 **Urophyllum hirsutum** (Wight) Hook.f., **FMP2** 66, **TFM4** 422; shrub to 3 m tall; lowland and hill forest to 1000 m; throughout.
- 175.76.7 **Urophyllum lasiocarpum** Ridl., **FMP2** 66, **TFM4** 422; shrub to 2 m tall; lowland forest; Pk; endemic.
- 175.76.8 **Urophyllum leucophloem** Ridl., **TFM4** 423; *Urophyllum coriaceum* Ridl., **FMP2** 68; shrub or small tree to 6 m tall; hill and montane forest to 1500 m; Tg, Pk, Ph, Sl, Ml; endemic.
- 175.76.9 **Urophyllum macrophyllum** Korth., **FMP2** 66, **TFM4** 422; shrub to 4 m tall; lowland to lower montane forest at 1300 m; Kl, Tg, Pk, Ph, Sl, NS.

- 175.76.10 **Urophyllum streptopodium** Wall. *ex* Hook.f., **FMP2** 67, **TFM4** 421; shrub or small tree to 7 m tall; lowland to lower montane forest at 1200 m; Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 175.76.11 **Urophyllum trifurcum** H. Pearson *ex* King & Gamble, **FMP2** 68, **TFM4** 422; shrub or small tree to 15 m tall; lowland to lower montane forest at 1200 m; Pn, Kl, Tg, Pk, Ph, Sl, NS, Jh, Sp; endemic.
- 175.76.12 **Urophyllum umbellulatum** Miq., **FMP2** 68, **TFM4** 421; shrub to 4 m tall; lowland to hill forest; Kd, Pn, Sl, NS.
- 175.76.13 **Urophyllum villosum** Wall., **FMP2** 65, **TFM4** 422; *Maschalocorymbus villosus* (Wall.) Bremek., **B22** 182; shrub or small tree to 6 m tall; lowland and hill forest; Kd, Pn, Tg, Pk, Ph; endemic.
- Bremekamp [**B24** 189] also mentions one specimen (Holttum 10795) of *Leucolophus tobingensis* (Miq.) Bremek. from Gg Belumut, Jh.
- 175.76.14 **Urophyllum sp. 1**, **TFM4** 421; shrub; hill forest; Ulu Temango, Pk; ?endemic.
- 175.76.15 **Urophyllum sp. 2**, **TFM4** 421; shrub to 5 m tall; lowland to lower montane forest at 1300 m; Tg, Ph, Sl, Jh, Sp.
- 175.76.16 **Urophyllum sp. 3**, **TFM4** 421; shrub; hill forest; Ulu Brang, Tg; ?endemic.
- 175.76.17 **Urophyllum sp. 4**, **TFM4** 422; shrub to 3 m tall; lowland forest; Kl, Jh; ?endemic.
- 175.76.18 **Urophyllum sp. 5**, **TFM4** 422; shrub to 3 m tall; lowland forest; Pn, Ph; ?endemic.
- 175.76.19 **Urophyllum sp. 6**, **TFM4** 422; shrub or small tree to 10 m tall; lowland and hill forest; Tg, Ph, Jh; endemic.
- 175.76.20 **Urophyllum sp. 7**, **TFM4** 423; shrub to 2 m tall; montane forest; Tg, Ph; ?endemic.
- 175.76.21 **Urophyllum sp. 8**, **TFM4** 423; shrub to 4 m tall; lowland and hill forest; Kl, Pk.
- 175.76.22 **Urophyllum sp. 9**, **TFM4** 423; shrub to 4 m tall; lowland to lower montane forest at 1300 m; Ph, P. Tioman, Sl; ?endemic.
- 175.76.23 **Urophyllum sp. 10**, **TFM4** 424; shrub or small tree to 9 m tall; lowland and hill forest; Tg, Ph, Jh, Sp; ?endemic.
- 175.76.24 **Urophyllum sp. 11**, **TFM4** 422; shrub to 4 m tall; lowland forest; Tg, Ph; ?endemic.
- 175.76.25 **Urophyllum sp. 12**, **TFM4** 421; *Urophyllum hirsutum* (Wight) Hook.f. var. *longifolium* Ridl., **FMP2** 67; shrub to 2 m tall; lowland to hill forest; Jh.

- 175.76.26 **Urophyllum** sp. 13, **TFM4** 421; shrub to 2 m tall; hill forest; Ulu Brang, Tg; ?endemic.
- 175.77.1 **Wendlandia burkillii** Cowan, **TFM4** 424; *Wendlandia paniculata* sensu Ridl., **FMP2** 19; tree to 25 m tall; montane forest above 1500 m; Main Range.
- 175.77.2 **Wendlandia glabrata** DC., **TFM4** 425; tree to 30 m tall; montane forest above 1500 m; Main Range.
- 175.77.3 **Wendlandia ternifolia** Cowan, **H35** 108, **TFM4** 424; shrub to 5 m tall; rocky coasts; scattered.
- 175.78.1 **Xanthophytum biceps** Ridl., **FMP5** 316; shrublet to 20 cm tall; Ulu Tahan, Ph.
Excluded from *Xanthophytum* by **A18**.
- 175.78.2 **Xanthophytum capitellatum** Ridl., **FMP5** 316, **A18** 483; *Xanthophytum capitatum* (*non* Valetton) Ridl., **FMP2** 55; slender woody-stemmed "herb" to 30 cm tall; lowland forest; Kl, Tg; endemic.
- 175.79.1 **Zuccarinia macrophylla** Blume, **TFM4** 425; small tree; lowland forest; P, Aor, Jh.
176. RUTACEAE
- 176.1.1 **Acronychia pedunculata** (L.) Miq., **H19** 549; *Acronychia laurifolia* Blume, **FMP1** 347, **TFM1** 371; tree to 30 m tall; lowland and hill forest; P, Langkawi, Kd, Pn, Pk, Ph, Sl, Jh.
- 176.2.1 **Atalantia monophylla** (L.) DC., **FMP1** 356, **TFM1** 373; spiny shrub to 6 m tall; rocky and sandy coasts, dry open places; commonest in the north.
- 176.2.2 **Atalantia roxburghiana** Hook.f., **FMP1** 357, **TFM1** 373; weakly spiny shrub; open country, also on limestone; Pk, Ph, Ml, NS; ?endemic.
- 176.3.1 **Burkillanthus malaccensis** (Ridl.) Swingle, **TFM1** 373; *Citrus malaccensis* Ridl., **FMP1** 359; sparsely thorny tree to 12 m tall; lowland forest; Ph, Sl, Ml.
- 176.4.1 **Citrus aurantifolia** (Christm.) Swingle, **TFM1** 375; small tree; perhaps wild.
- 176.4.2 **Citrus halimii** B.C. Stone, **S68** 106, **S66** 123; *Citrus* sp. A, **TFM1** 375; tree to 23 m tall; lower montane forest at 600–1200 m, lower on limestone; Kd, Pk, Ph, NS.
- 176.4.3 **Citrus hystrix** DC., **FMP1** 358, **TFM1** 375; small tree; probably wild.
- 176.4.4 **Citrus macroptera** Montrouz., **TFM1** 374; small tree; lowland forest; northern half of the Peninsula.

- 176.5.1 **Clausena excavata** Burm.f., **FMP1** 352, **TFM1** 375; foetid shrub or small tree; lowland forest margins and open places; throughout.
- 176.5.2 **Clausena harmandiana** (Pierre) Pierre, **M53** 124; *Clausena macrophylla* auct. non Hook.f., **TFM1** 376; small tree; rare in N. Malaya.
- 176.6.1 **Fortunella polyandra** (Ridl.) Tanaka, **TFM1** 380; *Atalantia polyandra* Ridl., **FMP5** 295; shrub; lowlands; once each from Pk, Ml and Jh; ?endemic.
- 176.7.1a **Glycosmis chlorosperma** Spreng. var. **angustifolia** Narayanas., **S60** 3; shrub; lowland forest; Pk.
- 176.7.1b **Glycosmis chlorosperma** Spreng. var. **chlorosperma**, **TFM1** 382, **S46** 93; *Glycosmis malayana* Ridl., **FMP1** 350; *Glycosmis monticola* Ridl., **FMP1** 350, **TFM1** 382; shrub; lowland to montane forest; widespread.
- 176.7.1c **Glycosmis chlorosperma** Spreng. var. **lindleyana** (Swingle) B.C. Stone, **S60** 3; *Glycosmis macrophylla* [non (Blume) Miq.] Lindl., **FMP1** 349; *Glycosmis lindleyana* Swingle, **TFM1** 381; shrub; hill forest; Pn, Pk; endemic variety.
- 176.7.1d **Glycosmis chlorosperma** Spreng. var. **macrorachis** (King) B.C. Stone, **S60** 3; shrub; Pn; endemic variety.
- 176.7.1e **Glycosmis chlorosperma** Spreng. var. **paraphyllophora** B.C. Stone, **S60** 3; shrub; Pn.
- 176.7.2 **Glycosmis crassifolia** Ridl., **FMP1** 349, **TFM1** 381, **S63** 124; small tree; once each from Ml and Ph; endemic.
- 176.7.3 **Glycosmis collina** B.C. Stone, **S60** 4, **S66** 124; *Glycosmis macrocarpa* auct. non Wight, **FMP1** 349, **TFM1** 381; small tree; lower montane forest; Gg Batu Puteh, Pk, Fraser's Hill, Ph; endemic.
- 176.7.4 **Glycosmis decipiens** B.C. Stone, **TFM1** 381, **S46** 106, **S66** 125; *Phoenicimon rubiginosus* Ridl., **FMP5** 301; small shrub to 6 m tall; lowland to lower montane forest; Tg, Ph, P. Tioman, NS, Jh.
- 176.7.5 **Glycosmis lanceolata** Spreng., **TFM1** 381; *Glycosmis citrifolia* (Willd.) Lindl., **FMP1** 349 in part; small tree; open country; Kl to Sp.
- 176.7.6 **Glycosmis macrophylla** (Blume) Miq., **S66** 125; *Glycosmis sapindoides* Lindl. ex Wall., **FMP1** 351, **TFM1** 381, **S60** 34; *Glycosmis elata* Ridl., **FMP1** 351, **TFM1** 381; shrub; lowland forest; P. Langkawi, Pn, Kl, Tg, Pk.
- 176.7.7a **Glycosmis mauritiana** (Lam.) Tanaka var. **insularis** (Kurz) Tanaka, **S60** 14; shrub; once from Bt Sebukor, Ml.
- 176.7.7b **Glycosmis mauritiana** (Lam.) Tanaka var. **mauritiana**, **S60** 13, **S66** 124; *Glycosmis rupestris* Ridl., **FMP1** 350, **TFM1** 381; shrub; usually on limestone; Ps, P. Langkawi, Kd, Pn, Kl, Pk.

- 176.7.7c **Glycosmis mauritiana** (Lam.) Tanaka var. **tomentosa** (Ridl.) B.C. Stone, **S60** 14; *Glycosmis rupestris* Ridl. var. *tomentosa* Ridl., **FMP1** 350; shrub; P. Langkawi; endemic variety.
- 176.7.8 **Glycosmis pentaphylla** (Retz.) DC., **TFM1** 382, **S46** 87, **S60** 16, **S66** 125; *Glycosmis citrifolia* auct. non Lindl., **FMP1** 349 in part; small shrub; P. Langkawi, Kd, Kl.
- 176.7.9 **Glycosmis perakensis** Narayanas., **TFM1** 381, **S60** 16, **S66** 125; shrub, possibly rheophytic; Pk, Ph; endemic.
- 176.7.10 **Glycosmis puberula** Lindl., **FMP1** 351, **TFM1** 381, **S66** 124; shrub; forest, including that on limestone; Pn, Pk.
- 176.7.11 **Glycosmis stenura** B.C. Stone, **S60** 19; shrub to 4 m tall; only known from Gg Lang, Kd; endemic.
- 176.7.12 **Glycosmis tomentella** Ridl., **FMP1** 350, **TFM1** 382, **S60** 21, **S66** 126; shrub; montane forest; Gg Menuang Gasing, Sl.
- 176.7.13a **Glycosmis trichanthera** Guillaumin var. **kelantanica** (B.C. Stone) B.C. Stone, **S60** 22, **S66** 125; *Glycosmis calcicola* B.C. Stone var. *kelantanica* B.C. Stone, **TFM1** 381, **C15** 152; shrub to 3 m tall; on limestone; Kl; endemic variety.
- 176.7.13b **Glycosmis trichanthera** Guillaumin var. **trichanthera**, **S60** 21, **S66** 125; *Glycosmis calcicola* B.C. Stone var. *calcicola*, **TFM1** 381, **C15** 152; shrub to 3 m tall; on limestone; P. langkawi, Pk, Sl.
- 176.8.1 **Luvunga crassifolia** Tanaka; *Luvunga eleutherandra* Dalzell, **FMP1** 355; big liana with hooks; swampy lowland forest; Pk, Sp.
- 176.8.2 **Luvunga scandens** Buch.-Ham., **FMP1** 355; liana; lowland and hill forest; widespread.
- 176.9.1 **Maclurodendron magnificum** T.G. Hartley, **H22** 15, **S66** 127; *Acronychia* sp. nov.; **S48** 252; tree to 4.5 m tall; upper montane forest at 1500 m; known only from the summit of Gg Ulu Kali, Ph; endemic.
- 176.9.2 **Maclurodendron porteri** (Hook.f.) T.G. Hartley, **H22** 8; *Acronychia porteri* Hook.f., **FMP1** 348, **TFM1** 371; tree to 25 m tall; lowland to lower montane forest; throughout.
- 176.10.1 **Melicope accedens** (Blume) T.G. Hartley, **H23** 67, **S66** 132; *Euodia pilulifera* King, **FMP1** 344, **TFM1** 377; *Euodia latifolia* auct. non DC., **FMP1** 342 in part, **TFM1** 378 in part; shrub to 5 m tall; montane forest; Kl, Pk, Ph, NS; endemic.
- 176.10.2 **Melicope corneri** T.G. Hartley, **S66** 131; *Euodia latifolia* auct. non DC., **FMP1** 342 in part, **TFM1** 378 in part; shrub to 7.5 m tall; lowland and hill forest to 750 m; Ph, Sl, NS, Jh; endemic.

- 176.10.3 **Melicope glabra** (Blume) T.G. Hartley, **H23** 60, **S66** 130; *Euodia glabra* (Blume) Blume, **FMP1** 342, **TFM1** 377; tree to 25 m tall; lowland forest; widespread.
- 176.10.4 **Melicope hookeri** T.G. Hartley, **H23** 70, **S66** 133; *Euodia robusta* Hook.f., **FMP1** 343, **TFM1** 379; tree to 6 m tall; lowlands and hills; NS, Sp.
- 176.10.5 **Melicope latifolia** (DC.) T.G. Hartley, **H23** 72; tree to 20 m tall; lowland to lower montane forest; widespread.
- 176.10.6 **Melicope lunu-ankenda** (Gaertn.) T.G. Hartley, **H23** 61, **S66** 131; *Euodia malayana* Ridl., **FMP1** 342; *Euodia roxburghiana* (Cham.) Benth., **TFM1** 379; tree to 20 m tall; lowland forest; throughout.
- 176.10.7 **Melicope macrocarpa** (King) T.G. Hartley, **S66** 133; *Euodia macrocarpa* King, **FMP1** 344, **TFM1** 378; *Euodia euneura* auct. non (Miq.) Miq., **TFM1** 377; tree to 20 m tall; mostly in the lowlands; Pn, Pk, Ph, Sl.
- 176.10.8 **Melicope pachyphylla** (Blume) T.G. Hartley, **S66** 134; *Euodia pachyphylla* King, **FMP1** 344, **TFM1** 376; shrub to 4 m tall; upper montane forest; Pk, Ph; endemic.
- 176.10.9 **Melicope pahangensis** T.G. Hartley, **S66** 135; *Euodia simplicifolia* Ridl., **FMP1** 345, **TFM1** 376; shrub to 2 m tall; upper montane forest; summit of Gg Tahan and Gg Brinchang, Ph; endemic.
- 176.10.10 **Melicope suberosa** B.C. Stone, **S57** 94, **S66** 129; small tree to 10 m tall; upper montane forest at 1550 m; only known from the summit of Gg Ulu Kali, Ph; endemic.
- 176.11.1 **Merope angulata** (Willd.) Swingle, **TFM1** 382; *Merope longispina* Hook.f., **FMP1** 356; spiny shrub or small tree; mangrove swamps; Pk, NS, MI, Sp.
- 176.12.1 **Merrillia caloxylon** (Ridl.) Swingle, **FMP1** 354, **TFM1** 383; small tree; lowland forest, often on riverbanks; Kd, Pk, Ph, Sl.
- 176.13.1 **Micromelum hirsutum** Oliv., **FMP1** 352, **TFM1** 383; shrub to 2 m tall; open country; MI and Ph northward.
- 176.13.2 **Micromelum minutum** (G. Forst.) Wight & Arn., **TFM1** 383; *Micromelum pubescens* Blume, **FMP1** 352; shrub or small tree; hills, sometimes on limestone; P. Langkawi, Kd, Pk, Ph, Sl.
- 176.14.1 **Murraya paniculata** (L.) Jack, **TFM1** 384, **C15** 152; *Murraya exotica* L., **FMP1** 353; shrub or small tree to 5 m tall; wild on limestone hills, also widely cultivated; KI, Pk.
- 176.15.1 **Paramignya cuspidata** (Ridl.) Swingle, **TFM1** 384; *Atalantia cuspidata* Ridl., **FMP1** 357; prickly shrub; lowland and hill forest; Pk, MI; endemic.

- 176.15.2 **Paramignya lobata** Burkill, **TFM1** 384; *Atalantia hispida* auct. non Guillaumin, **FMP1** 357; scandent shrub; lowlands; widespread; endemic.
- 176.15.3 **Paramignya scandens** (Griff.) Craib var. **ridleyi** (Burkill) Swingle, **TFM1** 384; *Paramignya griffithii* Hook.f., **FMP1** 356; woody climber; lowlands; Ml, Sp; endemic variety.
- 176.16.1 **Tetractomia majus** Hook.f., **FMP1** 346, **TFM1** 385, **H20** 145; tree to 15 m tall; lowland peat swamp forest; Ml, Jh; endemic.
- 176.16.2 **Tetractomia tetrandum** (Roxb.) Merr., **TFM1** 385, **H20** 132; *Tetractomia roxburghii* Hook.f., nom. illeg., **FMP1** 346; *Terminthodia viridiflora* Ridl., **FMP1** 345, **TFM1** 385; *Tetractomia holtumi* Ridl., **FMP5** 295; shrub or tree to 35 m tall; lowlands and mountains; Kd, Pn, Kl, Tg, Pk, Ph, Sl, Jh, ?Sp.
- 176.17.1 **Tetradium glabrifolium** (Champ. ex Benth.) T.G. Hartley, **H21** 109, **S66** 139; *Euodia meliifolia* (Hance ex Walp.) Benth., **TFM1** 379; tree to 20 m tall; lowland forest; Bt Enggang F.R. and Gg Jerai, Kd.
- 176.17.2 **Tetradium sambucinum** (Blume) T.G. Hartley, **H21** 100, **S66** 139; tree; montane forest; once from Gg Mandi Angin, Tg.
- 176.18.1 **Zanthoxylum acanthopodium** DC., **H18** 209, **S41** 31, **TFM1** 386; prickly scandent shrub; montane forest margins; Cameron Highlands, Ph.
- 176.18.2 **Zanthoxylum myriacanthum** Wall. ex Hook.f., **FMP1** 347, **H18** 185, **TFM1** 386; prickly-trunked tree to 25 m tall; hill forest to 1000 m; Pn, Pk, Ph, Sl, NS, Ml.
- 176.18.3 **Zanthoxylum nitidum** (Roxb.) DC., **H18** 180, **TFM1** 386; *Zanthoxylum hirtellum* Ridl., **FMP1** 347; prickly climbing shrub; Pk, Ph, Sl, NS, Sp.
- 176.18.4 **Zanthoxylum rhetsa** (Roxb.) DC., **TFM2** 386; *Zanthoxylum limonella* (Dennst.) Alston, **H18** 197; prickly tree to 35 m tall; lowland forest; Kl.
177. **SABIACEAE**
- 177.1.1 **Sabia erratica** van de Water, **FMi10** 684; ?liana; lowland forest; only known from type; Bt Timah, Sp (dubiously localized); endemic.
- 177.1.2 **Sabia limoniacea** Wall. ex Hook.f., **FMP1** 513, **FMi10** 685; liana to 10 m long; hill forest; Pn, Pk.
- 177.1.3 **Sabia sumatrana** Blume, **FMP1** 513, **FMi10** 689; liana; lowland and hill forest; Pk.

178. SALICACEAE

- 178.1.1 **Salix tetrasperma** Roxb., **FMP1** 393, **TFM4** 433; narrow-leaved tree to 25 m tall; along rivers (male trees only); dubiously native in Pk, Ph, Sl.

179. SANTALACEAE

- 179.1 **Dendromyza reinwardtiana** (Blume) Danser, **S36** 59, **TFM2** 342; *Henslowia reinwardtiana* Blume, **FMP3** 169; twining hemiparasite; lowland forest; once from Pk.
- 179.2.1a **Dendrotrophe buxifolia** (Blume) Miq. var. **buxifolia**, **S36** 54, **TFM2** 342; *Henslowia buxifolia* Blume, **FMP3** 170; yellowish hemiparasitic shrubby twiner; dry open forest often near the sea; P. Langkawi, Pn, Jh, Sp.
- 179.2.1b **Dendrotrophe buxifolia** (Blume) Miq. var. **minor** (Ridl.) Stauffer, **S36** 58; *Henslowia minor* Ridl., **FMP3** 167; slender twining hemiparasite; Kd, Tg, Ph.
- 179.2.1c **Dendrotrophe buxifolia** (Blume) Miq. var. **multinervis** Stauffer, **S36** 59; twining hemiparasite; montane forest; Tg, Pk, Ph, Sl, Ml.
- 179.2.2 **Dendrotrophe umbellata** (Blume) Miq., **TFM2** 342; *Henslowia umbellata* Blume, **FMP3** 167; *Henslowia monticola* Gamble, **FMP3** 169; twining hemiparasite; forest; widespread.
- 179.2.3 **Dendrotrophe varians** (Blume) Miq., **TFM2** 342; *Henslowia ridleyi* Gamble, **FMP3** 167; *Henslowia philippinensis* A. DC., **FMP3** 168; *Henslowia wrayi* Gamble, **FMP3** 168; *Henslowia lobbiana* A. DC., **FMP3** 169; *Henslowia varians* Blume, **FMP3** 170; hemiparasitic twiner; widespread.
- 179.3.1 **Dufrenoyia euryphylla** (Danser) Stauffer, **S36** 67; hemiparasitic shrub; once from Ph.
- 179.3.2 **Dufrenoyia oresitropha** (Danser) Stauffer, **S36** 66; hemiparasitic shrub; Ph.
- 179.3.3 **Dufrenoyia papillosa** Stauffer, **S36** 66; hemiparasitic shrub; montane forest at 1200 m; Cameron Highlands, Ph; endemic.
- 179.4.1 **Phacellaria malayana** Ridl., **FMP3** 170; small leafless hyperparasitic epiphytic shrub; on mistletoes in montane forest; Ph, Sl.
- 179.5.1 **Scleropyrum pentandrum** (Dennst.) Mabb., **M02** 533; *Scleropyrum maingayi* Hook.f., **FMP3** 171; *Scleropyrum ridleyi* Gamble, **FMP3** 171; *Scleropyrum wallichianum* (Wight & Arn.) Arn., **TFM2** 343; spiny tree to 21 m tall; lowland forest; scattered throughout.

180. SAPINDACEAE

- 180.1.1 ***Allophylus cobbe*** (L.) Raeusch., **TFM4** 436 incl. vars. *glaber* Corner, *linosus* Corner, *marinus* Corner, *velutinus* Corner and *villosus* Corner, **FMI11** 459; *Allophylus fulvinervis* (Blume) Blume, **FMP1** 489; *Allophylus glaber* Roxb., *nom. illeg.*, **FMP1** 489; *Allophylus ternatus* Lour., **FMP1** 489; *Allophylus villosus* (Roxb.) Blume, **FMP1** 490; *Allophylus scandens* Ridl., **FMP1** 490; shrub or small tree to 15 m tall; lowland forests, often coastal; throughout.
- 180.2.1 ***Amesiodendron chinense*** (Merr.) Hu, **TFM4** 437, **FMI11** 467; tree to 30 m tall; hill forest at 300–400 m; Kd, Pk, Ph, Sl, NS.
- 180.3.1 ***Arytera littoralis*** Blume, **FMP1** 507, **TFM4** 438, **FMI11** 473; tree to 30 m tall; lowland forest; Kd, Pk, Ph, Sl, ML.
- 180.4.1 ***Cardiospermum halicacabum*** L., **FMP1** 488, **TFM4** 434, **FMI11** 484; trailing or climbing vine; cultivated ground, waste places near the sea; widespread.
- 180.5.1 ***Dimocarpus fumatus*** (Blume) Leenh., **TFM4** 439, **FMI11** 515; tree to 20 m tall; lowland forest; once each from Baling, Kd, and Ulu Trengganu, Tg.
- 180.5.2a ***Dimocarpus longan*** Lour. ssp. *longan*, **TFM4** 439, **FMI11** 518; *Nephelium longana* Camb., **FMP1** 499; tree; lowland forest (longan of cultivation); twice from Pk.
- 180.5.2b ***Dimocarpus longan*** Lour. ssp. *malesianus* Leenh., **TFM4** 439, **FMI11** 519; *Nephelium malaiense* Griff., **FMP1** 503; *Nephelium echinulatum* (Radlk.) Ridl., **FMP1** 503; tree to 20 m tall; lowland forest (mata kuching of cultivation); Tg, Pk, Jh.
- 180.6.1 ***Dodonaea viscosa*** Jacq., **FMP1** 510, **TFM4** 440, **FMI11** 526; shrub or small tree to 6 m tall; sandy shores; mostly East Coast.
- 180.7.1 ***Ganophyllum falcatum*** Blume, **TFM4** 440, **FMI11** 538; tree to 24 m tall; coastal forest; once from Tg Penawar, Jh.
- 180.8.1 ***Glenniea penangensis*** (Ridl.) Leenh., **TFM4** 440, **FMI11** 542; *Tristira penangensis* Ridl., **FMP1** 496; tree to 30 m tall; lowland and hill forest to 1000 m; widespread; endemic.
- 180.9.1 ***Guioa bijuga*** (Hiern) Radlk., **TFM4** 441, **FMI11** 567; *Guioa pleuropteris* (Blume) Radlk. var. *bijuga* (Hiern) Ridl., **FMP1** 505; tree to 10 m tall; lowland forest; common throughout.
- 180.9.2 ***Guioa diplopetala*** (Hassk.) Radlk., **FMI11** 570; *Guioa fuscidula* (Kurz) Radlk., **FMP1** 506, **TFM4** 442; *Guioa squamosa* Radlk., **FMP1** 506, **TFM4** 442; *Guioa microphylla* Radlk., **FMP1** 506; *Guioa* sp. 1, **TFM4** 443; *Guioa* sp. 2, **TFM4** 443; ?*Guioa* sp. 3, **TFM4** 443; tree to 18 m tall; lowland and hill forest; northern half of the Peninsula.

- 180.9.3 **Guioa pleuropteris** (Blume) Radlk., **FMP1** 505, **TFM4** 442, **FMi11** 584; tree to 10 m tall; coastal and riverine forest; widespread.
- 180.9.4 **Guioa pubescens** (Zoll. & Moritzi) Radlk., **FMP1** 506, **TFM4** 442, **FMi11** 591; tree to 15 m tall; secondary forest; NS southward.
- 180.10.1 **Harpullia arborea** (Blanco) Radlk., **TFM4** 444, **FMi11** 601; tree to 20 m tall; lowland forest; Pk, Ph.
- 180.10.2 **Harpullia cupanioides** Roxb., **TFM4** 444, **FMi11** 606; *Harpullia confusa* Blume, **FMP1** 510; *Walsura villosa auct. non* Wall., **FMP1** 412; tree to 16 m tall; lowland forest; Kl, Pk, Ph, Sl, NS.
- 180.11.1 **Lepisanthes alata** (Blume) Leenh., **TFM4** 445, **FMi11** 646; small tree; once from Jh (possibly merely in cultivation).
- 180.11.2 **Lepisanthes amoena** (Hassk.) Leenh., **TFM4** 445, **FMi11** 636; *Otophora imbricata* Blume, **FMP1** 495; shrub to 3 m tall; Ph, Sl.
- 180.11.3 **Lepisanthes ferruginea** (Radlk.) Leenh., **TFM4** 445, **FMi11** 634; tree to 15 m tall; hill forest; Gg Bubu, Pk; P. Tioman.
- 180.11.4 **Lepisanthes fruticosa** (Roxb.) Leenh., **TFM4** 446, **FMi11** 643; *Otophora resecta* Radlk., **FMP1** 495; *Otophora sessilis* King, **FMP1** 495; *Otophora erythrocalyx* Hiern, **FMP1** 496; tree to 6 m tall; lowland forest, usually on slopes; Kd, Pn, Kl, Pk, Ph, Sl, Ml.
- 180.11.5 **Lepisanthes rubiginosa** (Roxb.) Leenh., **TFM4** 446, **FMi11** 648; *Erioglossum edule* (Blume) Blume, **FMP1** 492; *Lepisanthes hirta* Ridl., **FMP1** 494; tree to 10 m tall; coastal forest, widely cultivated; widespread.
- 180.11.6 **Lepisanthes senegalensis** (Poir.) Leenh., **TFM4** 446, **FMi11** 651; *Aphania paucijuga* (Hiern) Radlk., **FMP1** 492; tree to 20 m tall; lowland and hill forest to 1000 m; widespread.
- 180.11.7 **Lepisanthes tetraphylla** (Vahl) Radlk., **TFM4** 447, **FMP5** 301, **FMi11** 630; *Lepisanthes cuneata* Hiern, **FMP1** 493; *Lepisanthes kunstleri* King, *nom. illeg.*, **FMP1** 493; *Lepisanthes scortechinii* King, **FMP1** 493 incl. var. *hirta* Radlk.; *Lepisanthes longifolia* (Hiern) Radlk., **FMP1** 494; shrub or small tree to 8 m tall; lowland forest; widespread.
- 180.12.1 **Litchi chinensis** Sonn., **TFM4** 447, **FMi11** 654; tree to 30 m tall; hill forest; Kd, Tg, Pk, Sl, NS.
- 180.13.1 **Mischocarpus pentapetalus** (Roxb.) Radlk., **TFM4** 449, **FMi11** 662; *Mischocarpus sumatranus* Blume, **FMP1** 508; tree to 20 m tall; lowland and hill forest to 1500 m; scattered.

- 180.13.2 **Mischocarpus sundaicus** Blume, **TFM4** 449, **FMi11** 667; *Mischocarpus lessertianus* Ridl., **FMP1** 508; tree to 6 m tall; sandy or swampy coastal forest; widespread.
- 180.14.1 **Nephelium costatum** Hiern, **FMP1** 501, **TFM4** 451, **FMi11** 673; tree to 18 m tall; lowland forest; Pk, Ph, Sl, NS, Ml; endemic.
- 180.14.2a **Nephelium cuspidatum** Blume var. **cuspidatum**, **TFM4** 451, **FMi11** 676; tree to 20 m tall; lowland forest; Tg, Sl, NS, Jh.
- 180.14.2b **Nephelium cuspidatum** Blume var. **eripetalum** (Miq.) Leenh., **TFM4** 451, **FMi11** 676; *Nephelium eripetalum* Miq., **FMP1** 502; tree to 22 m tall; lowland forest; Kl, Ph, Sl, NS, Jh.
- 180.14.2c **Nephelium cuspidatum** Blume var. **ophioides** (Radlk.) Leenh., **TFM4** 451, **FMi11** 677; *Nephelium ophioides* Radlk., **FMP1** 502; tree to 23 m tall; lowland and hill forest; Ph, NS, Jh.
- 180.14.3 **Nephelium hamulatum** Radlk., **FMP1** 501, **TFM4** 452, **FMi11** 678; *Nephelium herveyi* Ridl., **FMP1** 500 in part; tree to 27 m tall; lowland forest; Kd, Pk, Ph, Sl, NS, Ml, Jh; endemic.
- 180.14.4 **Nephelium juglandifolium** Blume, **TFM4** 452, **FMi11** 679; *Nephelium tuberculatum* Radlk., **TFM4** 452; tree to 30 m tall; lowland forest; scattered.
- 180.14.5a **Nephelium lappaceum** L. var. **lappaceum**, **FMP1** 499, **TFM4** 453, **FMi11** 682; *Nephelium glabrum* Noronha var. *sufferugineum* (Radlk.) Ridl., **FMP1** 499; tree to 30 m tall; lowland and hill forest to 600 m (ubiquitously cultivated); scattered in the wild.
- 180.14.5b **Nephelium lappaceum** L. var. **pallens** (Hiern) Leenh., **TFM4** 453, **FMi11** 683; tree to 25 m tall; swampy lowland forest to 400 m; scattered widely.
- 180.14.6 **Nephelium laurinum** Blume, **TFM4** 453, **FMi11** 684; *Nephelium herveyi* Ridl., **FMP1** 500 in part, not including type; *Nephelium caudifolium* Ridl., **FMP1** 500; *Nephelium rubescens* Hiern, **FMP1** 500; tree to 20 m tall; wet lowland forest, often near streams; widespread.
- 180.14.7 **Nephelium maingayi** Hiern, **TFM4** 454, **FMi11** 685; *Nephelium glabrum* auct. non Noronha, **FMP1** 499; tree to 35 m tall; swampy lowland forest; Kl and Pk to Jh.
- 180.14.8 **Nephelium melliferum** Gagnep., **TFM4** 454, **FMi11** 688; tree to 30 m tall; sandstone ridge (350 m); Gg Kerbat, Tg, and one other collection.
- 180.14.9 **Nephelium ramboutan-ake** (Labill.) Leenh., **TFM4** 454, **FMi11** 679; *Nephelium mutabile* Blume, **FMP1** 501; tree to 35 m tall; lowland forest, riverbanks; Pn, Kl, Tg, Pk, Ph, Sl, Ml, Sp.

- 180.14.10 **Nephelium subfalcatum** Radlk., **TFM4** 455, **FMi11** 692; tree to 38 m tall; lowland forest, hillslopes; Pk, Ph, Jh.
- 180.14.11 **Nephelium uncinatum** Radlk. ex Leenh., **TFM4** 455, **FMi11** 692; tree to 20 m tall; lowland forest; Ulu Gombak, Sl.
- 180.14.12 **Nephelium** sp. 1, **TFM4** 455, **FMi11** 693; tree to 45 m tall; hill forest; Tapah Hills, Pk; endemic.
- 180.15.1 **Paranephelium macrophyllum** King, **FMP1** 509, **TFM4** 456, **FMi11** 696; tree to 10 m tall; lowland forest; Ps, Kd, Pk, Sp.
- 180.15.2 **Paranephelium spirei** Lecomte, **TFM4** 456, **FMi11** 696; tree to 15 m tall; lowland forest; Ps, Pk, Ph.
- 180.15.3 **Paranephelium xestophyllum** Miq., **TFM4** 457, **FMi11** 696; *Paranephelium nitidum* King, **FMP1** 509; tree to 35 m tall; lowland forest, sometimes on limestone; Kl, Pk, Ph, Sl, NS.
- 180.16.1 **Pometia pinnata** J.R. Forst. & G. Forst., **FMP1** 504, **TFM4** 457, **FMi11** 701; *Pometia macrocarpa* Kurz, **FMP1** 503; *Pometia alnifolia* (Blume) King, **FMP1** 504; tree to 40 m tall; damp forest in the lowlands and hills; throughout.
- 180.16.2 **Pometia ridleyi** King ex Radlk., **TFM4** 458, **FMi11** 703; tree to 50 m tall; lowland and hill forest to 750 m; Pk, Ph, Sl, NS.
- 180.17.1 **Trigonachras acuta** (Hiern) Radlk., **FMP1** 507, **TFM4** 459, **FMi11** 735; tree to 18 m tall; swampy lowland forest, often near the sea; Kl, Ph, Sl, Ml, Jh.
- 180.17.2 **Trigonachras** sp. 1, **TFM4** 459; tree; lowland forest; once from Jenangau F.R., Tg; endemic.
- 180.18.1 **Xerospermum laevigatum** Radlk., **FMP1** 497, **TFM4** 461, **FMi11** 748; *Xerospermum unijugum* Radlk., **FMP1** 497; tree to 30 m tall; lowland and hill forest to 700 m; throughout.
- 180.18.2 **Xerospermum noronhianum** (Blume) Blume, **TFM4** 461, **FMi11** 750; *Xerospermum echinulatum* Radlk., **FMP1** 497; *Xerospermum intermedium* Radlk., **FMP1** 497; *Xerospermum wallichii* King, **FMP1** 498; tree to 25 m tall; lowland forest to 500 m; widespread.
181. **SAPOTACEAE**
- 181.1.1 **Chrysopyllum roxburghii** G. Don, **FMP2** 257; *Chrysopyllum lanceolatum* [non Casar.] (Blume) A. DC., **TFM1** 396, **P15** 221; tree to 30 m tall; lowland forest; Kd, Ph, Sl, NS, Ml, Jh, Sp.

- 181.2.1 **Diploknema sebifera** Pierre, **TFM1** 396, **P15** 164; big tree to 40 m tall; lowland forest; Kl, Pk.
- 181.3.1a **Isonandra perakensis** King & Gamble var. **kelantanensis** Ng, **FMP1** 400; tree to 10 m tall; summits of limestone hills; Kl, Ph; endemic.
- 181.3.1b **Isonandra perakensis** King & Gamble var. **perakensis**, **FMP1** 261, **TFM1** 400, **P15** 154; small tree to 10 m tall; summits of limestone hills; three limestone outcrops in the Kinta Valley, Pk; endemic.
- 181.4.1 **Madhuca aristulata** (King & Gamble) H.J. Lam, **TFM1** 404, **P15** 156; *Bassia aristulata* King & Gamble, **FMP2** 266; tree to 10 m tall; once each from Gg Bintang, Kd and Gopeng, Pk; endemic.
- 181.4.2 **Madhuca calcicola** P. Royen, **TFM1** 405; small tree; on limestone; P. Langkawi; endemic.
- 181.4.3 **Madhuca cuprea** (King & Gamble) H.J. Lam, **TFM1** 405; *Bassia cuprea* King & Gamble, **FMP2** 270; tree to 20 m tall; once collected but type lost, Pk; endemic but doubtful species.
- 181.4.4 **Madhuca curtisii** (King & Gamble) Ridl., **FMP5** 319, **P15** 157; *Bassia curtisii* King & Gamble, **FMP2** 268; *Bassia perakensis* (King & Gamble) H.J. Lam, **FMP2** 269; *Madhuca chrysocarpa* (Pierre ex Dubard) Ridl., **FMP5** 342; *Ganua curtisii* (King & Gamble) H.J. Lam, **TFM1** 397; tree to 25 m tall; hill forest; Pn, Tg, Pk, Ph.
- 181.4.5 **Madhuca decipiens** J. Sinclair, **TFM1** 405, **P15** 157; *Payena grandiflora* Ridl., **FMP2** 262 in part; tree to 20 m tall; lowland forest; Jh, Sp.
- 181.4.6 **Madhuca erythrophylla** (King & Gamble) H.J. Lam, **TFM1** 405, **P15** 157; *Bassia erythrophylla* King & Gamble, **FMP2** 272; tree to 35 m tall; lowland forest; Pn, Ph, Jh (once each).
- 181.4.7 **Madhuca hirtiflora** (Ridl.) H.J. Lam, **FMP5** 319; *Bassia hirtiflora* Ridl., **FMP2** 266; *Ganua hirtiflora* (Ridl.) P. Royen, **TFM1** 398; tree to 12 m tall; lowland forest; Pk, Jh.
- 181.4.8 **Madhuca kingiana** (Brace ex King & Gamble) H.J. Lam, **FMP5** 319, **P15** 157; *Bassia kingiana* Brace ex King & Gamble, **FMP2** 267; *Ganua kingiana* (Brace ex King & Gamble) Van den Assem, **TFM1** 399; tree to 27 m tall; lowland and hill forest; Tg, Pk, Ph, Sl, Jh, Sp.
- 181.4.9 **Madhuca korthalsii** (Pierre ex Burck) H.J. Lam, **TFM1** 406, **P15** 157; *Bassia braceana* King & Gamble, **FMP2** 270; tree to 20 m tall; lowland forest; ?Kl, Pk, Ph, Sl.

- 181.4.10 **Madhuca kunstleri** (Brace ex King & Gamble) H.J. Lam, **TFM1** 406, **P15** 157; *Bassia kunstleri* Brace ex King & Gamble, **FMP2** 267; tree to 18 m tall; lowland and hill forest; Kd, Pk.
- 181.4.11 **Madhuca laurifolia** (King & Gamble) H.J. Lam, **TFM1** 406, **P15** 157; *Bassia laurifolia* King & Gamble, **FMP1** 269 incl. vars. *typica* Ridl. and *obtusata* Ridl.; *Bassia rupicola* (King & Gamble) H.J. Lam, **FMP2** 269; tree to 30 m tall; lowland and hill forest; Kd, Pn, Tg, Pk, Ph, NS, Jh.
- 181.4.12 **Madhuca longistyla** (King & Gamble) H.J. Lam, **TFM1** 407; *Bassia longistyla* King & Gamble, **FMP2** 270; tree to 30 m tall; lowlands and freshwater swamps; Pk; endemic.
- 181.4.13 **Madhuca malaccensis** (C.B. Clarke) H.J. Lam, **TFM1** 407, **P15** 158; *Bassia malaccensis* (C.B. Clarke) King & Gamble, **FMP2** 268; *Bassia elongata* auct. non Miq., **FMP2** 272; tree to 20 m tall; lowland forest; Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 181.4.14 **Madhuca motleyana** (de Vriese) J.F. Macbr., **P15** 158; *Bassia motleyana* (de Vriese) C.B. Clarke, **FMP2** 271; *Ganua motleyana* (de Vriese) Pierre ex Dubard, **TFM1** 399; tree to 35 m tall; lowland forest and swamps; widespread.
- 181.4.15 **Madhuca obtusifolia** (King & Gamble) P. Royen, **TFM1** 408; *Payena obtusifolia* King & Gamble, **FMP2** 264; tree; only known from type, Pk; endemic.
- 181.4.16 **Madhuca penangiana** (King & Gamble) H.J. Lam, **TFM1** 408; *Bassia laurifolia* King & Gamble var. *parvifolia* King & Gamble, **FMP2** 269; *Bassia penangiana* King & Gamble, **FMP2** 269; tree to 25 m tall; hill and montane forest; Kd, Pn, Pk; endemic.
- 181.4.17 **Madhuca penicillata** (King & Gamble) H.J. Lam, **TFM1** 408; *Bassia penicillata* King & Gamble, **FMP2** 268; tree to 30 m tall; lowland forest; Kl, Tg, Pk, Sl, NS; endemic.
- 181.4.18 **Madhuca ridleyi** H.J. Lam, **TFM1** 409; tree to 15 m tall; usually on limestone hills; Ps, Kd, Kl, Pk, Ph; endemic.
- 181.4.19 **Madhuca rufa** (King & Gamble) P. Royen, **TFM1** 409; *Isonandra rufa* King & Gamble, **FMP2** 261; tree to 10 m tall; lowland forest; thrice from Pk; endemic.
- 181.4.20 **Madhuca selangorica** (King & Gamble) J. Sinclair, **TFM1** 410, **P15** 158; *Payena selangorica* King & Gamble, **FMP2** 264; tree to 15 m tall; lowland forest; Ph, Sl, NS; endemic.
- 181.4.21a **Madhuca sericea** (Miq.) H.J. Lam var. **ridleyi** (Gand.) Ng, **TFM1** 410; tree to 30 m tall; lowland forest; Tg, Jh, Sp.

- 181.4.21b **Madhuca sericea** (Miq.) H.J. Lam var. **sericea**, **TFM1** 410, **P15** 159; *Bassia argentea* auct. non de Vriese, **FMP2** 270; tree to 30 m tall; lowland forest; Pk, Ph, NS, Sp.
- 181.4.22 **Madhuca sessiliflora** P. Royen, **TFM1** 410; tree to 5 m tall; swampy lowland forest; Jh; endemic.
- 181.4.23 **Madhuca sessilis** (King & Gamble) Baehni, **B05** 36; *Ganua sessilis* (King & Gamble) H.J. Lam, **TFM1** 399; *Payena sessilis* King & Gamble, **FMP2** 265; tree: once from Singapore.
- 181.4.24 **Madhuca tomentosa** H.J. Lam, **FMP5** 342, **TFM1** 411; tree to 10 m tall; swampy lowland forest; Ph, Jh; endemic.
- 181.4.25 **Madhuca tubulosa** H.J. Lam, **TFM1** 411, **P15** 159; tree to 20 m tall; lowland forest; Tg, Jh; endemic.
- 181.4.26 **Madhuca utilis** (Ridl.) H.J. Lam, **TFM1** 411, **P15** 159; *Payena utilis* Ridl., **FMP2** 265; *Madhuca stenophylla* H.J. Lam, **FMP5** 342; tree to 40 m tall; lowland forest; Tg, Pk, Ph, Sl, Jh.
- 181.4.27 **Madhuca sp. A**, **TFM1** 412; tree to 30 m tall; lowland forest; Jh; ?endemic.
- 181.4.28 **Madhuca sp. B**, **TFM1** 412; tree to 30 m tall; lowland forest; Jh; ?endemic.
- 181.4.29 **Madhuca sp. C**, **TFM1** 412; tree to 15 m tall; lowland forest; once from Labis F.R., Jh; ?endemic.
- 181.5.1 **Manilkara kauki** (L.) Dubard, **TFM1** 414, **P15** 133; *Minusops kauki* L., **FMP2** 278; tree to 23 m tall; rocky shores; Ph, Jh.
- 181.6.1 **Mimusops elengi** L., **FMP2** 278, **TFM1** 414, **P15** 123; tree to 15 m tall; rocky headlands; Ps, P, Langkawi, Kd.
- 181.7.1 **Palaquium burckii** H.J. Lam, **TFM1** 419, **P15** 150; tree to 27 m tall; peat swamp forest; Pontian, Jh.
- 181.7.2 **Palaquium clarkeanum** King & Gamble, **FMP2** 274 in part, **TFM1** 419; tree to 45 m tall; lowland forest; Kd, Kl, Tg, Pk, Ph, Sl, NS, Jh.
- 181.7.3 **Palaquium confertum** H.J. Lam, **TFM1** 419; tree to 27 m tall; once from swamp forest in Jh.
- 181.7.4 **Palaquium gutta** (Hook.f.) Baill., **FMP2** 274, **TFM1** 420, **P15** 150; tree to 25 m tall; lowland and hill forest; Pn, Kl, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 181.7.5 **Palaquium herveyi** King & Gamble, **FMP2** 276, **TFM1** 420; tree to 50 m tall; lowland forest; Kd, Pn, Kl, Pk, Ph, Sl, NS, Ml.

- 181.7.6 ***Palaquium hexandrum*** (Griff.) Baill., **FMP2** 277, **TFM1** 421, **P15** 151; tree to 50 m tall; mostly lowland forest, a few records from much higher; Kd, Pn, Kl, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 181.7.7 ***Palaquium hispidum*** H.J. Lam, **FMP2** 421; tree to 45 m tall; lowland forest; Kd, Kl, Tg, Pk, Ph, Sl, NS, Ml, Sp.
- 181.7.8 ***Palaquium impressinervium*** Ng, **TFM1** 422; tree to 45 m tall; lowland forest; Kd, Kl, Pk, Ph, NS.
- 181.7.9 ***Palaquium leiocarpum*** Boerl., **TFM2** 422, **P15** 151; tree to 35 m tall; lowland freshwater swamp forest; Kl, Tg.
- 181.7.10 ***Palaquium macrocarpum*** Burck, **TFM2** 422; tree to 25 m tall; lowland forest; Sl, Jh.
- 181.7.11 ***Palaquium maingayi*** (C.B. Clarke) King & Gamble, **FMP2** 273, **TFM1** 423, **P15** 151; tree to 30 m tall; lowland anmd hill forest; Kd, Kl, Pk, Ph, Sl, NS, Ml, Jh; endemic.
- 181.7.12 ***Palaquium microphyllum*** King & Gamble, **FMP2** 276, **TFM1** 423, **P15** 151; tree to 30 m tall; lowland forest; Kd, Pk, Ph, Sl, NS, Jh, Sp.
- 181.7.13 ***Palaquium obovatum*** (Griff.) Engl., **FMP2** 273, **TFM1** 423, **P15** 151; tree to 30 m tall; lowland forest; Kd, Pn, Kl, Tg, Ph, Sl, NS, Ml, Jh, Sp.
- 181.7.14 ***Palaquium ottolanderi*** Koord. & Valetton, **TFM1** 424, **P15** 151; tree to 45 m tall; lowland forest; Kd, Pk, Ph.
- 181.7.15 ***Palaquium oxleyanum*** Pierre, **FMP2** 275, **TFM1** 424; tree to 25 m tall; lowland and hill forest; Pk, Ph, Sl, Sp; endemic.
- 181.7.16 ***Palaquium regina-montium*** Ng, **TFM1** 425, **P15** 151; tree to 25 m tall; montane forest; Pk, Ph, Sl; endemic.
- 181.7.17 ***Palaquium ridleyi*** King & Gamble, **FMP2** 276, **TFM1** 426; tree to 40 m tall; lowland swamp forest; Pk, Ph, Sl, Jh, Sp.
- 181.7.18 ***Palaquium rostratum*** (Miq.) Burck, **TFM1** 426, **P15** 152; *Bassia cuneata* auct. non Blume, **FMP2** 272; *Palaquium bancanum* Burck, **FMP2** 275; *Palaquium calophylloides* Ridl., **FMP2** 276; tree to 50 m tall; lowland to montane forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 181.7.19 ***Palaquium semiram*** H.J. Lam, **TFM1** 427; tree to 45 m tall; lowland forest; Kl, Tg, Ph, Jh.
- 181.7.20 ***Palaquium stellatum*** King & Gamble, **FMP2** 277, **TFM1** 427, **P15** 152; tree to 50 m tall; lowland forest; Kd, Kl, Pk, Ph, Sl, NS, Ml, Jh.

- 181.7.21 **Palaquium sukoei** C.E.C. Fisch., **TFM1** 427; tree to 35 m tall; lowland and hill forest; Tg, Pk, Jh.
- 181.7.22 **Palaquium xanthochyllum** (de Vriese) Pierre ex Burck, **FMP2** 275, **TFM1** 428; tree to 40 m tall; swampy lowland forest; Tg, Pk, Ph, Sl, Jh, Sp.
- 181.8.1 **Payena acuminata** (Blume) Pierre, **TFM1** 429, **P15** 160; tree to 15 m tall; lowland and hill forest; Tg, Ph.
- 181.8.2 **Payena dasyphylla** (Miq.) Pierre, **FMP2** 264, **TFM1** 430, **P15** 160; *Bassia caudata* Ridl., **FMP2** 267; tree to 27 m tall; lowland to montane forest; Kl, Pk, Ph, NS.
- 181.8.3 **Payena lanceolata** Ridl., **FMP2** 264, **TFM1** 430, **P15** 160; tree to 40 m tall; lowland and hill forest; Ps, Kd, Kl.
- 181.8.4 **Payena leerii** (Teijsm. & Binn.) Kurz, **FMP2** 263, **TFM1** 432; tree to 40 m tall; lowland forest; Pk, ?Sp.
- 181.8.5 **Payena longipedicellata** Brace ex King & Gamble, **FMP2** 262, **TFM1** 432; tree to 35 m tall; lowland forest; once from Pk (type).
- 181.8.6 **Payena lowiana** Pierre, **TFM1** 432; tree to 35 m tall; once from Bt Berapit, Pk.
- 181.8.7 **Payena lucida** (G. Don) A. DC., **FMP2** 263, **TFM1** 433, **P15** 160; *Payena dasyphylla* (Miq.) Pierre var. *glabrata* King & Gamble, **FMP2** 265; tree to 20 m tall; lowland to montane forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, MI, Jh, Sp.
- 181.8.8 **Payena maingayi** C.B. Clarke, **FMP2** 262, **TFM1** 433, **P15** 160; *Payena grandiflora* Ridl., **FMP2** 262 in part; tree to 45 m tall; lowland forest; Kd, Pn, Tg, Pk, Ph, Sl, NS, MI, Jh, Sp; endemic.
- 181.8.9 **Payena obscura** Burck, **TFM1** 433; *Payena havilandii* King & Gamble, **FMP2** 263; tree to 35 m tall; lowland to lower montane forest; Kd, Pn, Pk, Ph, Sl, Jh, Sp.
- 181.8.10 **Payena sp. A**, **TFM1** 434; tree to 27 m tall; lowland forest; twice from Bt Bauk, Tg.
- 181.9.1 **Pouteria firma** (Miq.) Baehni, **P15** 198; *Sideroxylon firmum* (Miq.) Pierre ex Burck, **FMP2** 260; *Planchonella firma* (Miq.) Dubard, **TFM1** 435; tree to 25 m tall; montane forests, once on rocky coast; Kd, Pn, Ph, Jh.
- 181.9.2 **Pouteria glabra** (Ridl.) I.M. Turner, **T24** 223; *Planchonella glabra* (Ridl.) H.J. Lam, **TFM1** 435; *Sideroxylon glabrum* Ridl., **FMP2** 259; tree to 27 m tall; montane forest; known only from Fraser's Hill, Ph.

- 181.9.3 **Pouteria linggensis** (Burck) Baehni, **P15** 199; *Chrysophyllum curtisii* King & Gamble, **FMP2** 257; *Sideroxylon littorale* Ridl., **FMP2** 259; *Planchonella linggensis* (Burck) Pierre, **FMP2** 436; tree to 20 m tall; rocky coasts and hill forest; Pn, Ph, Jh, Sp.
- 181.9.4 **Pouteria maingayi** (C.B. Clarke) Baehni, **P15** 199; *Sideroxylon maingayi* C.B. Clarke, **FMP2** 258; *Planchonella maingayi* (C.B. Clarke) P. Royen, **TFM1** 436; tree to 35 m tall; lowland and hill forest; throughout.
- 181.9.5 **Pouteria malaccensis** (C.B. Clarke) Baehni, **TFM1** 438, **P15** 199; *Sideroxylon malaccense* C.B. Clarke, **FMP2** 258; tree to 35 m tall; lowland to lower montane forest; throughout.
- 181.9.6 **Pouteria obovata** (R.Br.) Baehni, **P15** 199; *Sideroxylon ferrugineum* Hook. & Arn., **FMP2** 259; *Planchonella obovata* (R.Br.) Pierre, **TFM2** 437; tree to 25 m tall; rocky and sandy shores, also on limestone; all coasts.
- 181.9.7 **Pouteria paucinervia** Erlee, **TFM1** 438; tree to 27 m tall; swampy lowland forest; Tg, Jh.
- 181.10.1 **Sarcosperma paniculatum** (King) Stapf & King, **FMP2** 260, **TFM1** 440, **P15** 180; tree to 35 m tall; lowland and hill forest; Pk, Ph, Sl, Ml, Jh, Sp.
- 181.10.2 **Sarcosperma uittienii** H.J. Lam, **TFM1** 441; tree to 15 m tall; hill forest; Ulu Gombak and Ulu Langat, Sl.

182. SCHISANDRACEAE

- 182.1.1 **Kadsura lanceolata** King, **FMP1** 21, **S28** 203; slender liana; hill forest; Taiping Hills, Pk; Fraser's Hill, Ph.
- 182.1.2 **Kadsura scandens** Blume, **FMP1** 20, **S28** 199; *Kadsura cauliflora* Blume, **FMP1** 20; slender liana; lowland forest; widespread.

183. SCROPHULARIACEAE

- 183.1.1 **Adnosma caerulea** R.Br., **FMP2** 474, **Y05** 26, **Y06** 147; aromatic herb to 60 cm tall; grassy places; widespread.
- 183.1.2 **Adenosma hirsuta** (Miq.) Kurz, **FMP2** 475, **Y06** 148 '*hirsutum*'; robust herb to 1 m tall; sandy places; P. Langkawi, Pn.
- 183.1.3 **Adenosma indiana** (Lour.) Merr., **Y05** 29, **Y06** 150 '*indianum*'; *Adenosma capitata* (Benth.) Benth. ex Hance, **FMP2** 474; herb to 60 cm tall; sandy waste ground; widespread.

- 183.1.4 **Adenosma inopinata** Prain, **FMP2** 474; herb to 60 cm tall; damp grassy places; mostly in the south.
- 183.1.5 **Adenosma javanica** (Blume) Koord., **Y05** 35, **Y06** 152; *Adenosma ovata* (Benth.) Benth., **FMP2** 474 '*ovatum*'; low creeping herb; on shaded banks; widespread.
- 183.2.1 **Aeginetia pedunculata** Wall., **FMP2** 488; parasitic herb to 15 cm tall; hill forest; Pk.
- 183.3.1 **Artanema longifolium** (L.) Vatke, **Y05** 76, **Y06** 176, **M47** 514; *Artanema angustifolium* Benth., **FMP2** 484; herb to 1 m tall; marshy places; Ps, Pn, Kl, Pk, Ph, Sl, Jh, ?Sp.
- 183.4.1 **Bacopa floribunda** (R.Br.) Wettst., **Y05** 24, **Y06** 146; *Herpestis floribunda* R.Br., **H31** 57; herb to 50 cm tall; waste ground.
- 183.4.2 **Bacopa monnieri** (L.) Wettst., **Y05** 21, **Y06** 145; *Herpestis monnieri* (L.) Kunth, **FMP2** 475; prostrate succulent herb to 15 cm tall; damp places; widespread.
- 183.5.1 **Centranthera hispida** R. Br., **C15** 157; herb; once from Selat Panchur, P. Langkawi.
- 183.5.2 **Centranthera tranquebarica** (Spreng.) Merr., **Y05** 177, **Y06** 226; *Centranthera humifusa* Wall. ex Benth., **FMP2** 487; herb to 15 cm tall; short grass; P. Langkawi, Ml, Sp.
- 183.6.1 **Christisonia scortechinii** Prain, **FMP2** 489; fleshy white parasitic herb; hill forest; Pk, Sl.
- 183.7.1 **Cyrtandromoea grandis** Ridl., **FMP2** 543, **B43** 85, **Y06** 154; shrub to 2 m tall; lowland and hill forest; Kl, Tg, Pk, Sl, NS, Jh.
- 183.7.2 **Cyrtandromoea megaphylla** Hemsl., **FMP2** 543, **B43** 84; spreading shrub to 3 m tall; hill forest; Pk, Ph; endemic.
- 183.7.3 **Cyrtandromoea subsessilis** (Miq.) B.L. Burtt, **B43** 86, **Y06** 155; *Cyrtandromoea acuminata* C.B. Clarke, **FMP2** 542; shrub to 1 m tall; lowland and hill forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS.
- 183.8.1a **Limnophila chinensis** (Osbeck) Merr. ssp. *aromatica* (Lam.) T. Yamazaki, **Y04** 600; *Limnophila gratissima* Blume, **FMP2** 478; *Limnophila aromatica* (Lam.) Merr., **P18** 145; herb to 50 cm tall; pools in lowland forest; Pk, Ml, Sp.
- 183.8.1b **Limnophila chinensis** (Osbeck) Merr. ssp. *chinensis*, **P18** 151, **Y04** 598; *Limnophila hirsuta* (Heyne ex Benth.) Benth., **FMP2** 477; herb to 40 cm tall; damp places; Pk, Ml (once each).

- 183.8.2 ***Limnophila erecta*** Benth., **FMP2** 477, **P18** 157, **Y04** 593, **M47** 526; herb to 30 cm tall; streams and pools; Kl, Tg, Pk, Sl, Ml, Jh.
- 183.8.3 ***Limnophila glabra*** (Benj.) Kerr, **P18** 121, **Y04** 582, **Y06** 163; *Limnophila griffithii* Hook.f., **FMP2** 479; small tufted aquatic herb to 10 cm long; muddy pools; Ml.
- 183.8.4 ***Limnophila heterophylla*** (Roxb.) Benth., **FMP2** 479, **P18** 124, **Y04** 580, **Y06** 162; slender aquatic herb to 50 cm long; pools, rice-fields; Ps, P, Langkawi, Ml.
- 183.8.5 ***Limnophila hippuridoides*** Philcox, **P18** 150; aquatic herb to 60 cm long; pools; Pk, Ml; endemic.
- 183.8.6 ***Limnophila indica*** (L.) Druce, **P18** 115, **Y04** 581, **Y06** 163; amphibious herb to 15 cm tall; ditches; once from Kd.
- 183.8.7 ***Limnophila laxa*** Benth., **FMP2** 478, **P18** 161, **Y04** 589, **Y06** 168; slender flaccid herb to 25 cm tall; damp open places; Ps, P, Langkawi, Pn, Tg, Pk, NS, Ml, Sp.
- 183.8.8 ***Limnophila micrantha*** (Benth.) Benth., **FMP2** 476, **P18** 144, **Y04** 585, **Y06** 166; slender herb to 10 cm tall; rice-fields; Kd, Ph.
- 183.8.9 ***Limnophila repens*** (Benth.) Benth., **P18** 154, **Y04** 589, **Y06** 169; herb to 40 cm tall; Pn.
- 183.8.10 ***Limnophila rugosa*** (Roth) Merr., **P18** 135, **Y04** 584; *Limnophila roxburghii* auct. non G. Don, **FMP2** 476; stout herb to 60 cm tall; muddy places; P, Langkawi, Pk.
- 183.8.11 ***Limnophila sessiliflora*** (Vahl) Blume, **FMP2** 478, **P18** 112, **Y04** 579; aquatic herb to 40 cm tall; rice-fields, ditches, pools; P, Langkawi, Sp.
- 183.8.12 ***Limnophila villifera*** Miq., **FMP2** 477, **P18** 140; herb to 70 cm tall; once from Pk.
- 183.8.13 ***Limnophila villosa*** Blume, **FMP2** 477, **P18** 141, **M47** 528; aromatic herb to 40 cm tall; ditches and damp spots; common and widespread.
- 183.9.1 ***Lindernia anagallis*** (Burm.f.) Pennell, **P17** 45, **Y06** 192, **M47** 530; *Vandellia pedunculata* Benth., **FMP2** 481; herb to 50 cm tall; marshy ground; Kd, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 183.9.2 ***Lindernia antipoda*** (L.) Alston, **P17** 57, **Y06** 199, **M47** 532; *Bonnaya veronicifolia* (Retz.) Spreng., **FMP2** 486 incl. vars. *grandiflora* (Retz.) Hook.f. and *verbenifolia* (Colsm.) Hook.f.; herb to 30 cm tall; damp grassy places; P, Langkawi, Kd, Pn, Kl, Tg, Pk, Sl, Ml, Sp.

- 183.9.3 **Lindernia caespitosa** (Blume) Panigrahi, **P02** 320; *Vandellia scabra* Benth., **FMP2** 480; *Lindernia pusilla* (Willd.) Bold., **P17** 41; herb to 10 cm tall; open sandy places; Pn, Kl, Tg, NS, Sp.
- 183.9.4 **Lindernia ciliata** (Colsm.) Pennell, **P17** 51, **Y06** 200, **M47** 534; *Bonnaya brachiata* Link & Otto, **FMP2** 485; herb to 20 cm tall; damp spots by streams; Kl, Tg, Pk, Ph, Ml, Sp.
- 183.9.5 **Lindernia crustacea** (L.) F. Muell., **P17** 17, **Y06** 193, **M47** 536; *Vandellia crustacea* (L.) Benth., **FMP2** 479; herb to 20 cm tall; sandy waste ground, paths and drains; throughout.
- 183.9.6 **Lindernia elata** (Benth.) Wettst., **Y03** 20, **Y06** 187; *Vandellia elata* Benth., **FMP2** 481 in part; *Lindernia urticifolia* (Hance) Bonati, **P17** 31; herb to 25 cm tall; paddy-fields; once from near Besut, Tg.
- 183.9.7 **Lindernia mollis** (Benth.) Wettst., **Y05** 91, **Y06** 186; *Vandellia mollis* Benth., **FMP2** 480; *Lindernia montana* [non Hiern] (Blume) Koord., **P17** 44; herb to 20 cm tall; pathways; Pk.
- 183.9.8 **Lindernia multiflora** (Roxb.) Mukerjee, **P17** 36; *Vandellia multiflora* (Roxb.) G. Don, **FMP2** 480; herb to 15 cm tall; damp sandy places; once from near Kangar, Ps.
- 183.9.9 **Lindernia nummulariifolia** (D. Don) Wettst.: **S30** 80; *Lindernia sessiliflora* (Benth.) Wettst., **P17** 10; herb to 10 cm tall; short grass; Ml, Sp; ?naturalized.
- 183.9.10 **Lindernia procumbens** (Krock.) Borbás, **P17** 29, **Y05** 82, **Y06** 181, **M47** 540; herb to 25 cm tall; once from Pn.
- 183.9.11 **Lindernia ruellioides** (Colsm.) Pennell, **P17** 54, **Y06** 201; *Bonnaya reptans* (Roxb.) Spreng, **FMP2** 485; herb to 20 cm tall; wet spots in the lowlands and hills; Kl, Pk, Ph, Sl, Ml, Jh, Sp.
- 183.9.12 **Lindernia tenuifolia** (Colsm.) Alston, **P17** 62; herb to 15 cm tall; marshy ground; Tg.
- 183.9.13 **Lindernia viscosa** (Hornem.) Bold., **P17** 38, **Y05** 90, **Y06** 184; *Vandellia hirsuta* Benth., **FMP2** 480; herb to 15 cm tall; open sandy places; Kl, Tg, Pk, Ph, Sp.
- 183.10.1 **Mazus pumilus** (Burm.f.) Steenis, **Y05** 45, **Y06** 159; *Mazus rugosus* Lour., **FMP2** 473; stoloniferous herb; weed of cultivation; Sp.
- 183.11.1 **Microcarpaea minima** (J. König ex Retz.) Merr., **Y05** 156, **Y06** 215, **M47** 542 'Mitracarpaea'; *Microcarpaea muscosa* R.Br., **FMP2** 486; small tufted herb to 10 cm tall; pond margins, damp places; Pk, Sp.

- 183.12.1 **Picria fel-terrae** Lour., **Y05** 37, **Y06** 153 ; *Curanga amara* Juss., **FMP2** 484, **C15** 157; herb to 30 cm tall; lowland forest, also on limestone; Kl, Pk, Ph, Sl.
- 183.13.1 **Scoparia dulcis** L., **FMP2** 488, **Y06** 218, **M47** 544; herb to 60 cm tall; waste ground; common throughout; naturalized from tropical America.
- 183.14.1 **Stemodia verticillata** (Mill.) Bold., **Y05** 72; herb to 30 cm tall; roadsides, waste places; Sp.
- 183.15.1 **Striga asiatica** (L.) Kuntze, **Y06** 232, **M47** 546; *Striga hirsuta* Benth., **FMP2** 487; slender hemi-parasitic herb to 15 cm tall; short sward; widespread.
- 183.16.1 **Torenia atropurpurea** Ridl., **FMP2** 483; *Schizotorenia atropurpurea* (Ridl.) T. Yamaz., **Y06** 206; creeping herb; banks in montane forest; Kd, Pk, Ph, Sl.
- 183.16.2 **Torenia bimaculata** Ridl., **FMP2** 482; herb to 30 cm tall; river banks; Sg Chaning, Kl.
- 183.16.3 **Torenia caelestis** Ridl., **FMP2** 483; slender creeping herb; grassy paths; Kota Tinggi, Jh.
- 183.16.4 **Torenia ciliata** Sm., **FMP2** 482; herb to 30 cm tall; waysides; Ps, Kd, Pn, Kl, Pk.
- 183.16.5 **Torenia flava** Buch.-Ham. ex Benth., **FMP2** 483, **Y04** 606, **Y06** 207; herb to 30 cm tall; pathsides; Pk.
- 183.16.6 **Torenia polygonoides** Benth., **FMP2** 484; *Legazpia polygonoides* (Benth.) T. Yamaz., **Y05** 154, **Y06** 214; slender prostrate herb; damp grassy places; common throughout.
- 183.16.7 **Torenia violacea** (Azaola ex Blanco) Pennell, **Y04** 620, **Y06** 212, **M47** 548; *Torenia peduncularis* Benth. ex Hook.f., **FMP2** 482; herb to 30 cm tall; by forest streams; Kd, Pn, Kl, Pk, NS, Ml.
- 183.17.1 **Wightia borneensis** Hook.f., **FMP2** 472; climbing arborescent epiphyte; hill forest; Pk, Ph, Ml.

184. SIMAROUBACEAE

- 184.1.1 **Ailanthus integrifolia** Lam., **FMi6** 218, **TFM2** 346; tree to 24 m tall; lowland forest; once from Seletar Reservoir, Sp.
- 184.1.2 **Ailanthus triphysa** (Dennst.) Alston. **FMi6** 219, **TFM2** 346; tree to 18 m tall; lowland forest; Ps, Kd, Pk.

- 184.2.1 **Brucea javanica** (L.) Merr., **FMi6** 211, **TFM2** 348; *Brucea sumatrana* Roxb., **FMP1** 361; shrub or small tree to 10 m tall; open country; throughout but commoner in the north.
- 184.3.1 **Eurycoma apiculata** Benn., **FMP1** 363, **FMi6** 206, **TFM2** 349; treelet to 5 m tall; usually in the mountains, about 1200 m; widespread.
- 184.3.2 **Eurycoma longifolia** Jack, **FMP1** 362, **FMi6** 205, **TFM2** 349; treelet to 5 m tall; lowlands and hills; throughout.
- 184.4.1 **Harrisonia perforata** (Blanco) Merr., **FMi6** 208, **TFM2** 350; *Harrisonia bennettii* Benn., **FMP1** 360; ?*Harrisonia brownii* auct. non A. Juss., **FMP1** 360; scandent prickly shrub; open country; Ps, ?Kd, ?Pk.
- 184.5 **Picrasma javanica** Blume, **FMP1** 361, **FMi6** 214, **TFM2** 351; tree to 24 m tall; lowland forest to 750 m; Pk, Sl, NS, MI.
- 184.6.1 **Quassia indica** (Gaertn.) Noot., **FMi6** 199, **TFM2** 352; *Samadera indica* Gaertn., **FMP1** 363; tree to 20 m tall; tidal swamps; Jh, Sp.

185. SOLANACEAE

- 185.1.1 **Browallia americana** L., **S53** 144, **T19** 126; herb; weed of cultivation; hill stations; Cameron Highlands and Genting Highlands, Ph; naturalized from tropical America.
- 185.2.1 **Lycianthes biflora** (Lour.) Bitter, **B03** 476; *Solanum biflorum* Lour., **FMP2** 467, **C15** 158; *Solanum decemdentatum* Roxb., **FMP2** 466, **C15** 158; shrub; mostly limestone; Kl, Ph, Sl.
- 185.2.2 **Lycianthes laevis** (Dunal) Bitter, **S53** 144; *Solanum blumei* Nees, **FMP2** 466; shrub to 2 m tall; hill and montane forest; widespread.
- 185.2.3 **Lycianthes parasitica** (Blume) Bitter, **B03** 476; *Solanum parasiticum* Blume, **FMP2** 466; epiphytic shrub to 1 m tall; lowland forest; Pk, Jh.
- 185.3.1 **Physalis minima** L., **FMP2** 470; herb to 45 cm tall; waste ground, sea shores; widespread. .
- 185.4.1 **Solanum capsicoides** All., **H38** 374; *Solanum aculeatissimum* auct. non Jacq., **FMP2** 468; prickly herb to 30 cm tall; sandy sea shores; widespread; naturalized from tropical America.
- 185.4.2 **Solanum coagulans** Forssk., **FMP2** 468; prickly shrub; waste ground; Kl, Sp.
- 185.4.3 **Solanum erianthum** D. Don, **H38** 369; *Solanum verbascifolium* auct. non L., **FMP2** 466; shrub to 3 m tall; open ground; Kd, Pn, Kl, Ph, Sl.

- 185.4.4 **Solanum indicum** L., **FMP2** 468; shrub to 2 m tall; waste ground; Kl, Ph, Sl, Ml.
- 185.4.5 **Solanum involucratum** Blume, **FMP2** 467; prickly shrub; open places; Ps, Pk.
- 185.4.6 **Solanum lasiocarpum** Dunal, **H38** 371; *Solanum ferox sensu auctt., non L.*, **FMP2** 467; prickly shrub to 1 m tall; waste ground; widespread.
- 185.4.7 **Solanum mammosum** L., **FMP2** 467; shrub to 1 m tall; roadsides, waste ground; naturalized from tropical America.
- 185.4.8 **Solanum nigrum** L., **FMP2** 465; herb to 1 m tall; waste ground; common throughout.
- 185.4.9 **Solanum sarmentosum** Nees, **FMP2** 469; procumbent prickly shrub; garden weed, waste ground; Ph, Ml, Sp.
- 185.4.10 **Solanum torvum** Sw., **FMP2** 468, **H38** 376; shrub to 2 m tall; waste ground, sometimes cultivated; widespread.
- 185.4.11 **Solanum trilobatum** L., **FMP2** 469, **H38** 380; slender thorny climber; waste ground; Pn, Sl, Ml; naturalized from continental Asia.

186. STAPHYLEACEAE

- 186.1.1 **Turpinia ovalifolia** Elmer, **FMi6** 58, **TFM1** 448; *Turpinia trifoliata* Ridl., **FMP1** 511; shrub or tree to 8 m tall; lowland and hill forest, sometimes on limestone; P. Langkawi, Kl, Pk, Sl, NS.
- 186.1.2 **Turpinia sphaerocarpa** Hassk., **FMi6** 57, **TFM1** 448; *Turpinia latifolia* Wall. ex Ridl., **FMP1** 512; *Turpinia laxiflora* Ridl., **FMP1** 512; tree to 20 m tall; lowland and hill forest; Kd, Pk, Ph, Sl, Ml, Jh, Sp.
- There is also one doubtful record of *Turpinia pomifera* (Roxb.) DC. [**FMi6** 58, **TFM1** 448] from montane forest in Pk.

187. STERCULIACEAE

- 187.1.1 **Abroma augusta** (L.) Willd., **FMP1** 286, **FMP2** 355; shrub to 2 m tall; open places; Pk, Ph, Sl.
- 187.2.1 **Byttneria brevipes** Ridl., **FMP1** 287; slender liana; forest margins; Pk; ?endemic.
- 187.2.2 **Byttneria curtisii** Oliv., **FMP1** 287; slender liana; lowland and hill forest; scattered.

- 187.2.3 **Byttneria elegans** Ridl., **FMP1** 288; slender liana; river banks; Pk, Ph.
- 187.2.4 **Byttneria elliptica** Mast., **FMP1** 288; climbing shrub; Ml.
- 187.2.5 **Byttneria jackiana** Wall., **FMP1** 287; liana; lowland and hill forest; widespread.
- 187.2.6 **Byttneria maingayi** Mast., **FMP1** 286; liana; lowland forest margins; widespread.
- 187.3.1 **Commersonia bartramia** (L.) Merr., **TFM2** 357; *Commersonia platyphylla* Andr., **FMP1** 288; tree to 12 m tall; lowland disturbed sites; widespread.
- 187.4.1 **Firmiana malayana** Kosterm., **TFM2** 357; *Erythropsis fulgens* (Wall. ex Mast.) Ridl., **FMP1** 277; deciduous tree to 24 m tall; lowland and hill forest to 1200 m; NS northward.
- 187.5.1 **Helicteres angustifolia** L., **FMP1** 282, **C14** 160; *Helicteres lanceolata* DC.; **H33** 411; shrub to 1 m tall; sandy and rocky places, limestone; widely scattered.
- 187.5.2 **Helicteres hirsuta** Lour., **FMP1** 281; shrub to 3 m tall; open country including limestone; widespread.
- 187.5.3 **Helicteres isora** L., **FMP1** 281; shrub; open country; Pn, Pk, Ph.
- 187.5.4 **Helicteres viscida** Blume, **FMP1** 281; shrub to 2 m tall; open country; Kl, Ph.
- 187.6.1 **Heritiera borneensis** (Merr.) Kosterm., **TFM2** 360; *Tarrietia unifoliolata* Ridl., **FMP1** 279; tree to 45 m tall; lowland forest; Tg, Ph, NS, Jh.
- 187.6.2 **Heritiera elata** Ridl., **FMP1** 280, **TFM2** 361; coppery-crowned tree to 33 m tall; lowland forest; Tg, Ph, Jh, Sp.
- 187.6.3 **Heritiera javanica** (Blume) Kosterm., **TFM2** 361; tree to 42 m tall; lowland forest to 600 m; Kd, Kl, Tg, Pk, Ph, Sl, NS, Jh.
- 187.6.4 **Heritiera kunstleri** (King) Kosterm., **TFM2** 361; *Tarrietia kunstleri* King, **FMP1** 279; tree to 30 m tall; hill forest; once from Gg Bubu, Pk.
- 187.6.5 **Heritiera littoralis** Dryand., **FMP1** 279, **TFM2** 361; small bushy tree to 15 m tall; sea shores, mangrove swamps; all coasts.
- 187.6.6 **Heritiera pterospermoides** Kosterm., **TFM2** 363, **C15** 160; tree to 18 m tall; on limestone hills; Kd, Pk.
- 187.6.7 **Heritiera simplicifolia** (Mast.) Kosterm., **TFM2** 363; *Tarrietia simplicifolia* Mast., **FMP1** 278; tree to 45 m tall; lowland forest; Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.

- 187.6.8 ***Heritiera sumatrana*** (Miq.) Kosterm., **TFM2** 364; *Tarrietia perakensis* King, **FMP1** 278; *Tarrietia curtisii* King, **FMP1** 278; tree to 30 m tall; lowland forest; Kd, Pn, Tg, Pk, Ph, Sl, Jh.
- 187.6.9 ***Heritiera* sp. A**, **TFM2** 364; tree to 30 m tall; lowland forest; once from Ulu Endau, Jh; ?endemic.
- 187.7.1 ***Kleinhovia hospita* L.**, **FMP1** 280, **TFM2** 364; tree to 20 m tall; lowland forest; Kd, Pk.
- 187.8.1 ***Leptonychia caudata*** (Wall. ex G. Don) Burret, **V33** 451; *Leptonychia glabra* Turcz., **FMP1** 289 incl. var. *mastersiana* King, **TFM2** 365; shrub or small tree to 12 m tall; lowlands to lower montane forest; Ps, Kd, Pn, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 187.8.2 ***Leptonychia parviflora*** (Ridl.) Veldkamp & Flipphi, **V33** 455; *Leptonychiopsis parviflora* Ridl., **FMP1** 290, **TFM2** 355; small tree; disturbed sites in lowland forest; Gg Panti and Gg Pulai, Jh; endemic.
- 187.9.1 ***Melochia corchorifolia* L.**, **FMP1** 284, **G11** 304, **TFM2** 366, **M47** 554; subshrub to 60 cm tall; waste ground, open grassy places; throughout.
- 187.9.2 ***Melochia umbellata*** (Houtt.) Stapf, **TFM2** 366, **G11** 220; *Melochia velutina* Wall. ex Bedd., **FMP1** 285; tree to 10 m tall; often near rivers, disturbed sites; Ml northward.
- 187.10.1 ***Pentapetes phoenicea* L.**, **FMP1** 284; herb to 120 cm tall; open places; Ps.
- 187.11.1 ***Pterocymbium javanicum* R.Br.**, **FMP1** 276, **TFM2** 366; tree; alluvial flats of river floodplains; NS northward.
- 187.11.2 ***Pterocymbium tubulatum*** (Mast.) Pierre, **FMP1** 277, **TFM2** 367; tree; lowland forest; Kl, Ml, Jh, Sp.
- 187.12.1 ***Pterospermum acerifolium* (L.) Willd.**, **TFM2** 368; tree to 30 m tall; lowlands and hills, also on limestone; Ps, Kl, Ph, Sl.
- 187.12.2 ***Pterospermum diversifolium*** Blume, **FMP1** 282, **TFM2** 368; tree to 20 m tall; lowland forest; scattered.
- 187.12.3 ***Pterospermum jackianum*** Wall. ex Mast., **FMP1** 283, **TFM2** 369; tree to 15 m tall; lowlands, sometimes on limestone; P. Langkawi, Pn, Kl.
- 187.12.4 ***Pterospermum javanicum*** Jungh., **TFM2** 369; *Pterospermum blumeanum* Korth., **FMP1** 283; tree to 42 m tall; lowland and hill forest to 1000 m; Kd, Pn, Tg, Pk, Ph, Sl, Ml, Jh, Sp.
- 187.12.5 ***Pterospermum lancifolium*** Roxb., **TFM2** 369; tree to 15 m tall; open country and on limestone; Ps, P. Langkawi, Kd, Pk.

- 187.12.6 **Pterospermum pectiniforme** Kosterm., **TFM2** 369; tree to 23 m tall; on limestone; Ps, P. Langkawi.
- 187.13.1 **Pterygota alata** (Roxb.) R. Br., **TFM2** 371; tree to 50 m tall; lowland forest near rivers; NS and Ph northward.
- 187.14.1 **Scaphium linearicarpum** (Mast.) Pierre, **FMP1** 275, **TFM2** 374; tree to 36 m tall; lowland forest to 720 m; Kd, Kl, Tg, Pk, Ph, Sl, Jh, Sp.
- 187.14.2 **Scaphium longiflorum** Ridl., **FMP1** 276, **TFM2** 374; tree to 36 m tall; swampy lowland forest; Kd, Pn, Pk, Sl, Jh; endemic.
- 187.14.3 **Scaphium macropodium** (Miq.) Beumée *ex* Heyne, **TFM2** 374; *Scaphium affine* (Mast.) Pierre, **FMP1** 275; tree to 45 m tall; lowland and hill forest to 1200 m; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 187.14.4 **Scaphium scaphigerum** (G. Don) Guibourt & Planch., **TFM2** 376; tree to 36 m tall; lowland forest; Ps, Kd, Kl, Pk.
- 187.15.1 **Sterculia balanghas** L., **T06** 140; shrub, shale beach; once from P. Langkawi.
- 187.15.2 **Sterculia coccinea** Jack, **TFM2** 377, **T06** 129; *Sterculia laevis* Wall., **FMP1** 269; *Sterculia elongata* Ridl., **FMP1** 270, **TFM2** 377; *Sterculia neriifolia* Ridl., **FMP5** 292; shrub to 3 m tall; lowland forest; common throughout.
- 187.15.3 **Sterculia cordata** Blume, **TFM2** 378, **T06** 63; *Sterculia javanica* R. Br., **FMP1** 274; tree to 30 m tall; lowland forest; Kd, Pn, Pk, Sl, Ml, Jh.
- 187.15.4 **Sterculia cuspidata** R.Br., **T06** 126; *Sterculia hyposticta* auct. non Miq., **FMP1** 269, **TFM2** 377; *Sterculia microphylla* Ridl., **TFM2** 377; *Sterculia sp. D*, **TFM2** 377; small tree to 10 m tall; lowland and hill forest; Kd, Pn, Tg, Pk, Ph, NS, Ml, Jh.
- 187.15.5 **Sterculia foetida** L., **FMP1** 268, **TFM2** 378, **T06** 44; tree to 30 m tall; rocky and sandy coasts; north and east of Malaya.
- 187.15.6 **Sterculia gilva** Miq., **T06** 106; *Sterculia bicolor* Mast., **FMP1** 274, **TFM2** 378; tree to 40 m tall; mostly swamp forest; Tg, Pk, Ph, Ml, Jh.
- 187.15.7 **Sterculia hypochra** Pierre, **T06** 53; tree to 30 m tall; on limestone; P. Langkawi.
- 187.15.8 **Sterculia lancaviensis** Ridl., **FMP1** 270, **TFM2** 377, **T06** 145, **C15** 161; small tree; limestone; P. Langkawi, Kl.
- 187.15.9 **Sterculia macrophylla** Vent., **FMP1** 268, **TFM2** 382, **T06** 68; tree to 36 m tall; lowland forest to 450 m; Kd, Kl, Pk, Sl, Ml, Jh, Sp.
- 187.15.10 **Sterculia megistophylla** Ridl., **T06** 93; *Sterculia sp. B*, **TFM2** 378; tree to 20 m tall; Sg Lembing, Ph, and Sg Kayu Ara, Jh.

- 187.15.11 ***Sterculia oblongata*** R.Br., **T06** 150; *Sterculia kunstleri* King, **FMP1** 270, **TFM2** 382; *Sterculia sp. A*, **TFM2** 377 in part; tree to 30 m tall; lowland forest; Kd, Pk, Ph, Sl, Ml.
- 187.15.12 ***Sterculia parviflora*** Roxb., **FMP1** 271, **TFM2** 382, **T06** 50; *Sterculia holttumii* Ridl., **R14** 471; briefly deciduous tree to 30 m tall; lowland forest; P. Langkawi, Kl, Tg, Ph, Sl, NS, Jh, Sp.
- 187.15.13 ***Sterculia parvifolia*** Wall. ex R.Br., **FMP1** 270, **TFM2** 377, **T06** 128; small tree to 10 m tall; hill forest; Pn, Pk, Sl.
- 187.15.14a ***Sterculia rubiginosa*** Vent. var. ***ensifolia*** (Mast.) Ridl., **FMP1** 273, **TFM2** 378, **T06** 84; *Sterculia angustifolia* auct. non Roxb., **FMP1** 274, **TFM2** 378, **C14** 161; tree to 12 m tall; lowland and hill forest, also on limestone; widespread.
- 187.15.14b ***Sterculia rubiginosa*** Vent. var. ***rubiginosa***, **FMP1** 271, **TFM2** 378, **T06** 80; *Sterculia brachycarpa* Ridl., **FMP1** 273, **TFM2** 378; *Sterculia rostrata* Ridl., **FMP1** 273, **TFM2** 378; *Sterculia sp. C*, **TFM2** 378; tree to 10 m tall; lowland to montane forest; throughout.
- 187.15.14c ***Sterculia rubiginosa*** Vent. var. ***setistipula*** (Merr.) Tantra, **T06** 86; *Sterculia hispidissima* Ridl., **FMP1** 273; small tree; hill forest; Sl.
- 187.15.15 ***Sterculia scortechinii*** King, **FMP1** 271, **TFM2** 377, **T06** 51; tree to 20 m tall; lowland forest; Pk, Jh.
- 187.15.16 ***Sterculia stipulata*** Korth., **T06** 88; tree to 15 m tall; lowland forest; once from Kuala Trengganu, Tg.
- 187.16.1 ***Waltheria arenaria*** Ridl., **FMP1** 285; wiry creeper; sandy places near the sea; Kuala Kelantan, Kl; ?endemic.
- 187.16.2 ***Waltheria indica*** L., **FMP1** 285; shrub to 1 m tall; sea shores; Ml, Sp.

188. **STYLIDIACEAE**

- 188.1.1 ***Stylidium tenellum*** Sw., **FMP2** 197, **FM14** 530; slender herb to 20 cm tall; wet grassy places, rice-fields; north of Malaya.

189. **STYRACACEAE**

- 189.1.1a ***Styrax benzoin*** Dryand. var. ***benzoin***, **FMP2** 297, **FM14** 52, **TFM3** 263; tree to 30 m tall; lowland and hill forest to 800 m; Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.

- 189.1.1b ***Styrax benzoin*** Dryand. var. ***hiliferum*** Steenis, **FMi4** 52, **TFM3** 263; tree to 30 m tall; lowland forest; Ph.
- 189.1.2a ***Styrax crotonoides*** C.B. Clarke ssp. ***crotonoides***, **FMP2** 298, **FMi4** 53, **TFM3** 263; tree to 30 m tall; lowland forest; Pn, Pk, Jh, Sp.
- 189.1.2b ***Styrax crotonoides*** C.B. Clarke ssp. ***fraserensis*** (F.E. Putz & Ng) Steenis, **FMi9** 568; *Styrax fraserensis* F.E. Putz & Ng, **TFM3** 263; small tree; montane forest at 1300 m; Fraser's Hill, Ph; endemic.
- 189.1.3 ***Styrax paralleloneurus*** Perkins, **FMi4** 53, **TFM3** 264; tree to 27 m tall; montane forest at 800–1700 m; Kd, Pk, Ph, Sl.
- 189.1.4 ***Styrax ridleyanus*** Perkins, **FMi9** 569 '*ridleyanum*'; tree to 30 m tall; lowland forest; Tg, ?Ph.
- 189.1.5 ***Styrax serrulatus*** Roxb. var. ***rugosus*** Steenis, **FMP2** 296, **FMi4** 55, **TFM3** 264 '*serrulatum* var. *rugosum*'; tree to 17 m tall; lowland forest; Ps, Pn, Ph, Ml.

190. SYMPLOCACEAE

- 190.1.1 ***Symplocos adenophylla*** Wall. ex G. Don, **FMP2** 303 incl. vars. *montana* Ridl. and *virgata* Wall. ex Brand, **FMi8** 239, **TFM3** 268; *Symplocos fulvosa* King & Gamble, **FMP2** 300; *Symplocos pruniflora* Ridl., **FMP2** 304; shrub or tree to 15 m tall; sea coasts to montane forest at 1500 m; widespread.
- 190.1.2 ***Symplocos anomala*** Brand, **FMi8** 239, **TFM3** 268; *Symplocos concolor* Brand, **FMP2** 304; shrub or tree to 12 m tall; lower montane forest at 1000 m; Pn, Pk.
- 190.1.3 ***Symplocos barringtoniifolia*** Brand, **FMi8** 242, **TFM3** 268; *Symplocos rigida* (non G. Don) C.B. Clarke, **FMP2** 306; tree to 24 m tall; lowland and hill forest to 750 m; Tg, Pk, Ph, Sl, Ml, Jh.
- 190.1.4 ***Symplocos calycodactylos*** Brand, **FMP2** 305, **FMi8** 244, **TFM3** 268; shrub to 3 m tall; hill forest at 900–1000 m; once each from Kd and Pk; endemic.
- 190.1.5 ***Symplocos celastrifolia*** Griff. ex C.B. Clarke, **FMP2** 302, **FMi8** 244, **TFM3** 269; tree to 30 m tall; lowland to montane forest; Pn, Kl, Tg, Ph, Sl, Ml, Jh, Sp.
- 190.1.6 ***Symplocos cerasifolia*** Wall. ex DC., **FMP2** 306, **FMi8** 245, **TFM3** 269; tree to 24 m tall; lowland to montane forest at 1200 m; Pn, Kl, Tg, Pk, Ph, NS, Ml.

- 190.1.7a **Symplocos cochinchinensis** (Lour.) S. Moore ssp. **cochinchinensis**, **FMi8** 246, **TFM3** 269; *Symplocos ferruginea* Roxb., **FMP2** 302; tree to 18 m tall; lowland to montane forest; Pn, Kl, Tg, Ph, NS, Ml.
- 190.1.7b **Symplocos cochinchinensis** (Lour.) S. Moore ssp. **laurina** (Retz.) Noot., **FMi8** 248, **TFM3** 269; *Symplocos spicata* Roxb., **FMP2** 301; tree to 18 m tall; lowland and hills to 1500 m; P. Langkawi, Kl, Tg, Pk, Ph, Ml.
- 190.1.8a **Symplocos crassipes** C.B. Clarke var. **brandiana** (King & Gamble) Noot., **FMi8** 257, **TFM3** 270; *Symplocos brandiana* King & Gamble, **FMP2** 304; tree to 8 m tall; lowland to montane forest; Pk, Sl, Jh; endemic variety.
- 190.1.8b **Symplocos crassipes** C.B. Clarke var. **crassipes**, **FMP2** 305, **FMi8** 257, **TFM3** 270; shrub; only known from type, Jh; endemic variety.
- 190.1.8c **Symplocos crassipes** C.B. Clarke var. **curtisii** (Oliv.) Noot., **FMi8** 257, **TFM3** 270; *Symplocos monticola* King & Gamble, **FMP2** 301; *Symplocos curtisii* Oliv., **FMP2** 305; shrub to 5 m tall; lowland to montane forest, 300–1200 m; Tg, Pk, Ph, Sl.
- 190.1.8d **Symplocos crassipes** C.B. Clarke var. **ernae** (Brand) Noot., **FMi8** 258, **TFM3** 270; small tree; lower montane forest; once from near Taiping, Pk.
- 190.1.8e **Symplocos crassipes** C.B. Clarke var. **penangiana** (King & Gamble) Noot., **FMi8** 258, **TFM3** 270; *Symplocos penangiana* King & Gamble, **FMP2** 306; tree to 10 m tall; lowland forest; Pn, Kl, Tg, Pk, Ph, Sl, NS, Jh.
- 190.1.9 **Symplocos fasciculata** Zoll., **FMP2** 301, **FMi8** 259, **TFM3** 270; small tree to 15 m tall; lowland forest, common in secondary stands; Pk, Ph, Sl, NS, Ml, Jh.
- 190.1.10 **Symplocos glomerata** King ex C.B. Clarke, **FMi8** 260, **TFM3** 270; small tree to 6 m tall; montane forest at 1500 m; summit of Gg Lawit, Tg.
- 190.1.11a **Symplocos henschelii** (Moritzi) Benth. ex C.B. Clarke var. **henschelii**, **FMi8** 214, **TFM3** 270; *Cordyloblaste scortechinii* Ridl., **FMP2** 309; tree to 30 m tall; montane forest; Kd, Ph, Jh.
- 190.1.11b **Symplocos henschelii** (Moritzi) Benth. ex C.B. Clarke var. **maingayi** (Benth. ex C.B. Clarke) Noot., **FMi8** 214, **TFM3** 272; *Cordyloblaste maingayi* (Benth. ex C.B. Clarke) Ridl., **FMP2** 309; tree to 21 m tall; lowland forest; Pk, Ml, Jh.
- 190.1.12 **Symplocos laeteviridis** Stapf, **FMi8** 261, **TFM3** 272; small tree; lower montane forest at 1000 m; once from Maxwell's Hill, Pk.
- 190.1.13 **Symplocos lucida** (Thunb.) Siebold & Zucc., **FMi8** 264; *Symplocos ridleyi* King & Gamble, **FMP2** 302; shrub or tree to 20 m tall; lowland forest; Sp.

- 190.1.14 **Symplocos nivea** Brand, **FMP2** 300, **FMi8** 265, **TFM3** 272; tree to 18 m tall; lowland forest; once each from Pn and Jh; endemic.
- 190.1.15 **Symplocos odoratissima** (Blume) Choisy & Zoll., **FMP2** 299, **FMi8** 266, **TFM3** 272; *Symplocos pulverulenta* King & Gamble, **FMP2** 300; tree to 30 m tall; lowland forest; Pk, Ph, Jh.
- 190.1.16a **Symplocos ophirensis** C.B. Clarke ssp. **ophirensis** var. **densireticulata** Noot., **FMi8** 268, **TFM3** 272; shrub 2–4 m tall; montane forest at 1500 m; twice from Cameron Highlands, Ph.
- 190.1.16b **Symplocos ophirensis** C.B. Clarke ssp. **ophirensis** var. **ophirensis**, **FMP2** 305, **FMi8** 267, **TFM3** 272; shrub or small tree; montane forest above 1200 m; Pk, Sl, Jh; endemic variety.
- 190.1.16c **Symplocos ophirensis** C.B. Clarke ssp. **perakensis** (King & Gamble) Noot., **FMi8** 268, **TFM3** 273; *Symplocos caudata* auct. non Wall. ex G. Don, **FMP2** 300; *Symplocos perakensis* King & Gamble, **FMP2** 304; tree to 18 m tall; lowland forest; Pk, Ph, Sl, NS.
- 190.1.17a **Symplocos pendula** Wight var. **hirtistylis** (C.B. Clarke) Noot., **FMi8** 215, **TFM3** 273; *Cordyblaste confusa* (Brand) Ridl., **FMP2** 307; *Cordyloblaste obovata* Ridl., **FMP2** 308; *Cordyblaste crenulata* Ridl., **FMP2** 309; shrub or tree; montane forest above 1200 m; Ph, Jh.
- 190.1.17b **Symplocos pendula** Wight var. **pendula**, **FMi8** 214, **TFM3** 273; *Cordyloblaste pulcherrima* (Ridl.) Ridl., **FMP2** 308; shrub or tree; montane forest above 1200 m; Tg, Pk, Ph, Sl, Jh.
- 190.1.18 **Symplocos pyriflora** Ridl., **FMP2** 307, **FMi8** 270, **TFM3** 273; small tree; montane forest at 1450 m; once each from Gg Tapis and Gg Tahan, Ph; endemic.
- 190.1.19 **Symplocos rubiginosa** Wall. ex DC., **FMP2** 306, **FMi8** 271, **TFM3** 273; tree to 18 m tall; lowland to montane forest; Kd, Pn, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 190.1.20 **Symplocos sumuntia** Buch.-Ham. ex D. Don, **FMi8** 271, **TFM3** 274; shrub or small tree; montane forest at 1800 m; once each from Cameron Highlands and Gg Tahan. Ph.
- 190.1.21 **Symplocos tricoccata** Noot., **FMi8** 272, **TFM3** 274; shrub to 4 m tall; twice from Pk.
- 190.1.22 **Symplocos wikstroemiifolia** Hayata, **FMi8** 263; *Symplocos microtricha* Hand.-Mazz., **TFM3** 272; shrub or tree to 20 m tall; hill and montane forest; Ph.

191. TETRAMERISTACEAE

- 191.1.1 **Tetramerista glabra** Miq., **FMP1** 367, **TFM4** 470; tree to 35 m tall; lowland freshwater and peat swamp forests; Kd, Tg, Pk, Ph, Sl, Ml, Jh, Sp.

192. THEACEAE

- 192.1.1 **Adinandra acuminata** Korth., **FMP1** 194, **TFM3** 277; tree to 20 m tall; lowland to lower montane forest at 1200 m; Kd to Sp.
- 192.1.2 **Adinandra angulata** Ridl., **FMP1** 195, **TFM3** 278; tree to 16 m tall; montane forest at 1700–1800 m; Gg Tahan, Ph; endemic.
- 192.1.3 **Adinandra corneriana** Kobuski, **TFM3** 278; tree to 10 m tall; lowland forest; Tg, Ph, Jh; endemic.
- 192.1.4 **Adinandra dumosa** Jack, **FMP1** 194, **TFM3** 278; tree to 20 m tall; secondary forest; throughout, commoner in the south.
- 192.1.5 **Adinandra integerrima** T. Anderson *ex* Dyer, **FMP1** 196, **TFM3** 279; *Adinandra hullettii* King, **FMP1** 196; tree; lowland forest below 750 m; Kd, Pn, Pk, Ph, Jh, Sp; endemic.
- 192.1.6 **Adinandra maculosa** T. Anderson *ex* Dyer, **FMP1** 195, **TFM3** 279; tree to 25 m tall; hill and montane forest below 1500 m; Pn, Kl, Tg, Pk, Sl, Ph, Jh; endemic.
- 192.1.7 **Adinandra parvifolia** Ridl., **FMP1** 195, **TFM3** 279; tree to 15 m tall; montane forest at 1500–2000 m; Kd, Pk, Ph; ?endemic.
- 192.1.8 **Adinandra phlebophylla** Hance, **TFM3** 279; tree to 25 m tall; lowland forest; P. Langkawi, Kd.
- 192.1.9 **Adinandra sarosanthera** Miq., **TFM3** 280; *Adinandra macrantha* Teijsm. & Binn., **FMP1** 195; tree to 30 m tall; lowland to montane forest at 1500 m; Pn, Kl, Tg, Pk, Ph, Sl, Jh.
- 192.1.10 **Adinandra villosa** Choisy, **FMP1** 196, **TFM3** 280; tree to 15 m tall; lowland to montane forest at 1800 m; Pn, Tg, Pk, Ph, Sl.
- 192.2.1 **Anneslea fragrans** Wall. var. **crassipes** (Hook.f. *ex* Choisy) Pierre, **TFM3** 280; *Anneslea crassipes* Hook.f. *ex* Choisy, **FMP1** 193; tree to 25 m tall; montane forest at 800–2000 m; Kl, Pk, Ph, Sl, Ml, Jh.
- 192.3.1 **Eurya acuminata** DC., **FMP1** 199, **TFM3** 282; *Eurya monticola* (Ridl.) Ridl., **FMP1** 199; *Eurya wrayi* King, **FMP1** 199; shrub or tree to 15 m tall; lowlands to mountains tops; throughout.

- 192.3.2 **Eurya nitida** Korth., **TFM3** 282; shrub or tree to 10 m tall; montane forest above 900 m; Kd, Tg, Pk, Ph.
- 192.3.3 **Eurya trichocarpa** Korth., **FMP1** 200, **TFM3** 284; shrub or small tree; montane forest at 1000–1300 m; P, Langkawi, Pk, Ph.
- 192.4.1 **Gordonia concentricatrix** Burkill, **FMP1** 203, **TFM3** 285; tree to 33 m tall; lowland forest; Pk, Ph, Sl, NS, Ml, Jh; endemic.
- 192.4.2 **Gordonia hirtella** Ridl., **FMP1** 204, **TFM3** 285; tree; hill forest; Bt Kutu, Sl; endemic.
- 192.4.3 **Gordonia imbricata** King, **FMP1** 203, **TFM3** 285; tree to 15 m tall; hill and montane forest above 600 m; Kl, Tg, Pk, Ph, Jh; endemic.
- 192.4.4 **Gordonia maingayi** Dyer, **FMP1** 204, **TFM3** 285; tree to 18 m tall; lowland to montane forest at 1600 m; Kl, Tg, Pk, Ph, Sl, NS, Ml; endemic.
- 192.4.5 **Gordonia multinervis** King, **FMP1** 203, **TFM3** 286; tree to 30 m tall; lowland forest below 800 m; Pn, Kl, Tg, Pk, Ph, Ml, Jh, Sp; endemic.
- 192.4.6 **Gordonia penangensis** Ridl., **FMP1** 203, **TFM3** 286; tree to 13 m tall; lowland forest; Pn, Pk, Ph, Sp; endemic.
- 192.4.7 **Gordonia scortechinii** King, **FMP1** 204, **TFM3** 286; tree; lowland forest; Pk, Ph; endemic.
- 192.4.8 **Gordonia singaporiana** Wall. ex Ridl., **FMP1** 202, **TFM3** 286; tree to 40 m tall; lowland forest; Pn, Pk, Ph, NS, Ml, Jh, Sp; endemic.
- 192.4.9 **Gordonia taipingensis** Burkill, **FMP1** 204, **TFM3** 288; tree to 20 m tall; lowland and hill forest to 1400 m; Pk; endemic.
- 192.5.1 **Pyrenaria acuminata** Planch., **FMP1** 200, **TFM3** 290; tree to 10 m tall; lowland forest; Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 192.5.2 **Pyrenaria garrettiana** Craib, **TFM3** 290; tree to 10 m tall; montane forest at 1500 m; Ph.
- 192.5.3 **Pyrenaria kunstleri** King, **FMP1** 201, **TFM3** 291; tree to 15 m tall; lowland forest; Kd, Pn, Pk, Ph, Sl.
- 192.5.4 **Pyrenaria pahangensis** H. Keng, **TFM3** 291; shrub to 4 m tall; lowland forest along streams; Ph; endemic.
- 192.5.5 **Pyrenaria** sp. A, **TFM3** 291; tree; lowland forest; Jh; ?endemic.
- 192.6.1 **Schima monticola** Kurz, **K10** 83; *Schima noronhae* Reinw. ex Blume var. *rigida* Ridl., **FMP1** 201; tree to 35 m tall; montane forest above 1400 m; Tg, Ph, Sl.

- 192.6.2 *Schima wallichii* (DC.) Korth., **TFM3** 291, **K10** 85; *Schima noronhae* Reinw. ex Blume, **FMP1** 201; shrub or tree to 45 m tall; lowlands to mountain tops; widespread.
- 192.7.1 *Ternstroemia bancana* Miq., **FMP1** 197, **TFM3** 293; tree to 20 m tall; lowland forest to 500 m; Pk, Ph, Sl, Ml, Jh.
- 192.7.2 *Ternstroemia corneri* H. Keng, **TFM3** 293; tree to 20 m tall; freshwater swamp forest; S.E. Jh; endemic.
- 192.7.3 *Ternstroemia evenia* (King) A.C. Sm., **TFM3** 295; *Illicium evenium* King, **FMP1** 19; *Ternstroemia scortechinii* King, **FMP1** 198; tree to 10 m tall; lowlands to mountain tops; Kl, Pk, Ph, Sl; endemic.
- 192.7.4 *Ternstroemia maclellandiana* Ridl., **FMP1** 198, **TFM3** 295; tree to 10 m tall; montane forest above 1000 m; Kl, Tg, Pk, Ph, Sl.
- 192.7.5 *Ternstroemia montana* Ridl., **FMP1** 198; shrub; montane forest about 1500 m; Kd, Pk, Ph; endemic.
- 192.7.6 *Ternstroemia penangiana* Choisy, **FMP1** 197, **TFM3** 295; tree to 20 m tall; lowland and hill forest to 1000 m; Kd, Pn, Kl, Pk, Ph, Sl, Ml, Jh, Sp.
- 192.7.7 *Ternstroemia wallichiana* (Griff.) Engl., **FMP1** 198, **TFM3** 295; tree to 20 m tall; lowland forest; Ps, Kd, Pn, Tg, Ph, Jh, Sp.

193. THYMELAEACEAE

- 193.1.1 *Aquilaria beccariana* Tiegh., **FMi6** 13, **TFM2** 385; tree to 20 m tall; swampy lowland forest; S.E. Jh.
- 193.1.2 *Aquilaria hirta* Ridl., **FMP3** 148, **FMi6** 12, **TFM2** 385; tree to 15 m tall; lowland forest; Tg, Ph, Jh, Sp.
- 193.1.3 *Aquilaria malaccensis* Lam., **FMP3** 147, **FMi6** 9, **TFM2** 385; tree to 36 m tall; lowland and hill forest to 750 m; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 193.1.4 *Aquilaria microcarpa* Baill., **FMi6** 9, **TFM2** 385; tree to 36 m tall; lowland forest; Sp.
- 193.1.5 *Aquilaria rostrata* Ridl., **FMP3** 148, **FMi6** 13, **TFM2** 385; tree; montane forest; dubious species known only from type collections, Gg Tahan, Ph; endemic.
- 193.2.1 *Daphne composita* (L.f.) Gilg, **FMi6** 37, **TFM2** 384; *Daphne pendula* Sm. nom. illeg., **FMP3** 144; shrub to 5 m tall; montane forest; Pk, Ph, Sl, Ml.

- 193.3.1 **Enkleia malaccensis** Griff., **FMP3** 147, **FMi6** 25, **TFM2** 384; liana reaching 30 m long; lowland forest; MI, Sp.
- 193.4.1 **Gonystylus acuminatus** Airy Shaw, **FMi4** 356, **TFM2** 388; tree to 25 m tall; one doubtful specimen from Kokmoi F.R., Kd.
- 193.4.2 **Gonystylus affinis** Radlk., **FMi4** 357, **TFM2** 388; tree to 33 m tall; lowland forest to 330 m; widespread.
- 193.4.3 **Gonystylus bancanus** (Miq.) Kurz, **FMi4** 361, **TFM2** 388; tree to 27 m tall (sometimes even bigger); lowland peat swamp forest; Pk, SI, Jh.
- 193.4.4 **Gonystylus brunnescens** Airy Shaw, **FMi4** 356, **TFM2** 388; tree to 36 m tall; lowland forest, often near the sea; Pn, Tg, Pk, Ph.
- 193.4.5 **Gonystylus confusus** Airy Shaw, **FMi4** 357, **TFM2** 391; tree to 30 m tall; lowland forest to 600 m; Kd, Pn, KI, Tg, Pk, Ph, SI, NS, Jh, Sp.
- 193.4.6 **Gonystylus macrophyllus** (Miq.) Airy Shaw, **FMi4** 354, **TFM2** 388; tree to 45 m tall; lowland forest; once each from Kuantan, Ph, and Mawai, Jh.
- 193.4.7 **Gonystylus maingayi** Hook.f., **FMP1** 322, **FMi4** 359, **TFM2** 391; tree to 40 m tall; lowland forest; KI, Pk, Ph, SI, NS, Jh.
- 193.5.1 **Linostoma pauciflorum** Griff., **FMP3** 146, **FMi6** 27, **TFM2** 384; liana to 30 m long; lowland forest margins, often near the sea; Ps, Kd, Pn, Pk, Ph, MI, Sp.
- 193.6.1 **Phaleria capitata** Jack, **FMi6** 20, **TFM2** 384, **C31** 221; shrub or small tree to 9 m tall; freshwater swamp forest; Jh.
- 193.7.1 **Wikstroemia androsaemifolia** Decne., **FMi6** 33, **TFM2** 384, **C15** 161; shrub to 2.5 m tall; on limestone hills; KI, Ph, SI.
- 193.7.2 **Wikstroemia indica** (L.) C.A. Mey., **FMi6** 34, **C15** 162; *Wikstroemia viridiflora* Meisn., **FMP3** 145; shrub to 3 m tall; lowland and hill forest including limestone; widespread.
- 193.7.3 **Wikstroemia polyantha** Merr., **FMi6** 32; *Wikstroemia candolleana* auct. non Meisn., **FMP3** 145; shrub or small tree to 7 m tall; lowland to montane forest; Kd, KI, Pk, Ph, SI, Jh.
- 193.6.4 **Wikstroemia ridleyi** Gamble, **FMP3** 146, **FMi6** 34; shrub to 2 m tall; open sandy places, forest margins; KI, Tg, Ph, (Sp introduced).

194. TILIACEAE

- 194.1.1 **Berrya cordifolia** (Willd.) Burret, **TFM2** 393, **P16** 69; *Berrya ammonilla* Roxb., **FMP1** 299; small crooked tree; lowlands including on limestone; P. Langkawi, Kd.
- 194.2.1 **Brownlowia argentata** Kurz, **TFM2** 394; *Brownlowia riedelii* Hemsl., **FMP1** 292; shrub or small tree to 18 m tall; mangroves, tidal channels; widespread.
- 194.2.2 **Brownlowia helferiana** Pierre, **TFM2** 395; *Brownlowia scortechinii* King, **FMP1** 292; tree to 24 m tall; lowland forest; Tg, Pk, Sl, NS.
- 194.2.3 **Brownlowia kleinhovioidea** King, **FMP1** 292, **TFM2** 395; tree; lowland forest; only known from type, Pk; endemic.
- 194.2.4 **Brownlowia macrophylla** King, **FMP1** 292, **TFM2** 395; small tree to 15 m tall; lowland forest; Pk.
- 194.2.5 **Brownlowia tersa** (L.) Kosterm., **TFM2** 394; *Brownlowia lanceolata* Benth., **FMP1** 291; shrub to 5 m tall; mangrove; widespread.
- 194.2.6 **Brownlowia velutina** Kosterm., **TFM2** 395; small tree; known only from type, Tg; endemic.
- 194.3.1 **Colona javanica** (Blume) Burret, **TFM2** 395, **P16** 61; *Colombia integrifolia* Ridl., **FMP1** 306; small tree; on limestone; once from Lengong, Pk.
- 194.3.2 **Colona merguensis** (Planch. ex Mast.) Burret, **TFM2** 395; *Columbia curtisii* Ridl., **FMP1** 307; *Columbia diptera* Ridl., **FMP1** 307; *Colona diptera* (Ridl.) Craib, **P16** 65; small tree to 12 m tall; mostly on limestone; Ps, P. langkawi.
- 194.3.3 **Colona serratifolia** Cav., **TFM2** 396; *Columbia serratifolia* (Cav.) DC., **FMP1** 306; small tree to 15 m tall; near the sea; Ph, Jh.
- 194.4.1 **Corchorus aestuans** L.; **P16** 30; *Corchorus acutangulus* Lam., **FMP1** 306; herb or subshrub; waste ground; widespread.
- 194.4.2 **Corchorus capsularis** L., **FMP1** 305, **P16** 32; shrub to 1 m tall; waste ground; Ps, Pk.
- 194.4.3 **Corchorus olitorius** L., **FMP1** 305, **P16** 28; *Corchorus tridens* L., **FMP1** 305; shrub to 60 cm tall; open dry places; Pn, Sl, Jh.
- 194.5.1 **Diplodiscus hookerianus** (King) Kosterm., **TFM2** 396; *Pentace hookeriana* King, **FMP1** 294; tree; lowland forest; only known from type, Kinta River, Pk; endemic.
- 194.5.2 **Diplodiscus scortechinii** (King) P.S. Ashton ex Kochummen, **TFM2** 396; *Pentace scortechinii* King, **FMP1** 297; tree; twice from Pk; endemic.

- 194.6.1 **Grewia laevigata** Vahl, **P16** 26; *Grewia acuminata* Juss., **TFM2** 397; *Grewia umbellata* Roxb. ex DC., **FMP1** 300; liana; lowland forest margins; common and widespread.
- 194.6.2 **Grewia viminea** Wall. ex Burret, **TFM2** 397; *Grewia polygama* Roxb. var. *curtisii* Ridl., **FMP5** 294; shrub; limestone hills; Ps, P, Langkawi, Kd.
- 194.6.3 **Grewia** sp. nov.; *Grewia sclerophylla* auct. non Roxb. ex G. Don, **FMP5** 293, **TFM2** 397; shrub; twice from Grik area, Pk.
- 194.7.1 **Microcos antidesmifolia** (King) Burret, **B40** 780; *Grewia antidesmifolia* King, **FMP1** 302 incl. var. *hirsuta* King, **TFM2** 399; tree to 24 m tall; lowland forest, often near rivers; Kl, Tg, Pk, Ph, Sl, Jh.
- 194.7.2 **Microcos blattifolia** (Corner) R.S. Rao; *Grewia latifolia* (non Muell. ex Benth.) Mast., **FMP1** 300; *Microcos latifolia* (Mast.) Burret, **B40** 781; *Grewia blattifolia* Corner, **TFM2** 399; small tree sometimes to 24 m tall; lowland and hill forest to 1000 m; widespread.
- 194.7.3 **Microcos erythrocarpa** (Ridl.) Airy Shaw; *Grewia erythrocarpa* Ridl., **FMP1** 301; small tree to 5 m tall; lowland forest to 600 m; widespread; endemic.
- 194.7.4 **Microcos fibrocarpa** (Mast.) Burret, **B40** 782, **P16** 38; *Grewia fibrocarpa* Mast., **FMP1** 301, **TFM2** 397; small tree; lowland forest; scattered widely.
- 194.7.5 **Microcos globulifera** (Mast.) Burret, **B40** 782; *Grewia globulifera* Mast., **FMP1** 302, **TFM2** 397; small tree; lowland forest; Pk to Jh; endemic.
- 194.7.6 **Microcos hirsuta** (Korth.) Burret, **B40** 782; *Grewia omphacarpa* Miq., **FMP1** 301; *Grewia hirsuta* [non Vahl] (Korth.) Kochummen, **TFM2** 397; small tree; lowland forest; widespread.
- 194.7.7 **Microcos lanceolata** (Miq.) Burret, **B40** 778; *Grewia miqueliana* Kurz, **FMP1** 302, **TFM2** 397; shrub or small tree; lowland forest; mostly west coast states.
- 194.7.8 **Microcos latistipulata** (Ridl.) Burret, **B40** 795; *Grewia latistipulata* Ridl., **FMP5** 293; tree; once from Klang, Sl.
- 194.7.9 **Microcos laurifolia** (Hook. ex Mast.) Burret, **B40** 771, **P16** 39; *Grewia florida* auct. non Miq., **FMP1** 303; *Grewia laurifolia* Hook. ex Mast., **TFM2** 399; tree to 30 m tall; lowland and hill forest to 1000 m; Kd, Pn, Kl, Tg, Pk, Ph, Sl, Ml, Jh.
- 194.7.10 **Microcos tomentosa** Sm., **B40** 776, **P16** 37; *Grewia paniculata* Roxb. ex DC., **FMP1** 300, **TFM2** 397; small bushy tree; open places; common and widespread.
- 194.8.1 **Muntingia calabura** L., **K09** 88, **P16** 43; shrub or small tree; waste ground, around towns and villages; throughout; naturalized from tropical America.

- 194.9.1 **Pentace acuta** Ridl., **FMP1** 297, **TFM2** 401; shrub or small tree; lowland forest; Tg, Pk; endemic.
- 194.9.2 **Pentace adenophora** Kosterm., **TFM2** 401; tree to 30 m tall; swampy lowland forest; Tg, Jh.
- 194.9.3 **Pentace corneri** Kosterm., **TFM2** 401; tree to 50 m tall; lowland forest; once from S.E. Jh.
- 194.9.4 **Pentace curtisii** King, **FMP1** 296, **TFM2** 401; tree to 40 m tall; hill forest; Ps, Kd, Pn, Kl, Tg, Pk, Ph, Sl.
- 194.9.5 **Pentace excelsa** Kochummen, **TFM2** 404; tree to 60 m tall; lowland and hill forest; Gg Mandi Angin, Tg, Gg Tapis, Ph; endemic.
- 194.9.6 **Pentace eximia** King, **FMP1** 295, **TFM2** 404; tree to 30 m tall; coastal hills; Pn, Pk, Ph; endemic.
- 194.9.7 **Pentace floribunda** King, **FMP1** 295, **TFM2** 404; tree to 27 m tall; hill forest; Kl, Pk, Ph, Sl.
- 194.9.8 **Pentace grandiflora** Kochummen, **TFM2** 406; tree to 27 m tall; ridge-top forest; Tg; endemic.
- 194.9.9 **Pentace hirtula** Ridl., **FMP1** 295, **TFM2** 406; tree to 23 m tall; hill forest; Pn, Pk.
- 194.9.10 **Pentace macrophylla** King, **FMP1** 297, **TFM2** 406; tree to 40 m tall; lowland and hill forest; Tg, Pk, Sl, Jh.
- 194.9.11 **Pentace microlepidota** Kosterm., **TFM2** 407; tree to 60 m tall; lowland and hill forest; Kl, Pk, Ph, Sl; endemic.
- 194.9.12 **Pentace perakensis** King, **FMP1** 295, **TFM2** 401; *Pentace kunstleri* King, **FMP2** 296; small tree; lowland forest; Pk; endemic.
- 194.9.13 **Pentace strychnoidea** King, **FMP1** 296, **TFM2** 407; tree to 30 m tall; lowland and hill forest; Kd, Kl, Tg, Pk, Ph, Sl, NS; endemic.
- 194.9.14 **Pentace triptera** Mast., **FMP1** 293, **TFM2** 407; tree to 45 m tall; lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 194.9.15 **Pentace sp. A**, **TFM2** 407; tree to 36 m tall; once each from Tg and Sl; ?endemic.
- 194.9.16 **Pentace sp. B**, **TFM2** 408; tree to 24 m tall; lowland forest; once from Rompin, Ph; ?endemic.
- 194.10.1a **Schoutenia accrescens** (Mast.) C.H. Curtis ssp. **accrescens**, **TFM2** 409; *Scoutenia mastersii* King, **FMP1** 298; tree to 33 m tall; lowland to montane forest; common and widespread.

- 194.10.1b **Schoutenia accrescens** (Mast.) C.H. Curtis ssp. **borneensis** Roekm., **TFM2** 410; tree: lowland forest; Ulu Endau, Jh.
- 194.10.2 **Schoutenia corneri** Roekm., **TFM2** 410; tree to 15 m tall; lowlands near streams; Ps, Jh; endemic.
- 194.10.3 **Schoutenia furfuracea** Kochummen, **TFM2** 410; tree to 10 m tall; lowland forest; only known from type, Ulu Sg Anak Endau, Jh; endemic.
- 194.10.4 **Schoutenia glomerata** King, **FMP1** 298, **TFM2** 410; tree to 15 m tall; along lowland streams; Kl, Tg, Ph.
- 194.10.5 **Schoutenia kunstleri** King, **FMP1** 298, **TFM2** 410; tree to 15 m tall; lowland forest; Pn, Tg, Pk, Ph, Jh; endemic.
- 194.10.6 **Schoutenia leprosula** L.G. Saw, **W30** 272; tree to 6 m tall; river banks in lowland forest; Endau Rompin area of Ph and Jh; endemic.
- 194.11.1 **Trichospermum javanicum** Blume, **TFM2** 412, **P16** 49; *Trichospermum kurzii* King, **FMP1** 307; *Trichospermum cymbiforme* Sprague ex Ridl., **FMP1** 308; tree to 30 m tall; lowland and hill forest, often in clearings; Pn, Kl, Pk, Ph, Sl, Jh.
- 194.12.1 **Triumfetta grandidens** Hance, **FMP1** 304, **P16** 40; prostrate shrublet; sandy shores; East Coast.
- 194.12.2 **Triumfetta pilosa** Roth, **FMP1** 304, **P16** 46; herb to 1.5 m tall; open sandy places; Pk, Ph.
- 194.12.3 **Triumfetta repens** (Blume) Merr. & Rolfe, **P16** 48; *Triumfetta subpalmata* Sol. ex Hemsl., **FMP1** 304; prostrate shrub; sandy shores; East Coast.
- 194.12.4 **Triumfetta rhomboidea** Jacq., **FMP1** 303, **L25** 174; *Triumfetta bartramia* L., *nom. illeg.*, **P16** 49; shrubby herb; common weed of waste ground; widespread.
- 194.12.5 **Triumfetta tomentosa** Bojer, **L25** 175; *Triumfetta pseudocana* Sprague & Craib, **FMP1** 304; shrub to 1 m tall; waste ground; widely scattered.

195. TRIGONIACEAE

- 195.1.1 **Trigoniastrum hypoleucum** Miq., **FMP1** 142, **FMi4** 59, **TFM1** 449; tree to 30 m tall; lowland forest; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.

196. TURNERACEAE

- 196.1.1 **Turnera subulata** Sm., **FMI4** 236; *Turnera trioniflora* Sims, **FMP1** 838; herb to 80 cm tall; damp waste ground; widespread; naturalized from tropical America.
- 196.1.2 **Turnera ulmifolia** L., **FMP1** 838, **FMI4** 237; herb to 1.5 m tall; open sandy places; widespread; naturalized from tropical America.

197. ULMACEAE

- 197.1.1 **Celtis philippensis** Blanco, **TFM2** 416, **FMI8** 62; *Celtis collinsae* Craib, **FMP3** 322; shrub or small tree to 10 m tall; on limestone; Ps, P. Langkawi, Kd, Kl, Ph.
- 197.1.2 **Celtis rigescens** (Miq.) Planch., **TFM2** 416, **FMI8** 58; tree to 40 m tall; lowland and hill forest; Pk, Ph, Sl.
- 197.2.1 **Gironniera hirta** Ridl., **FMP3** 321, **TFM2** 417, **FMI8** 74; tree to 20 m tall; lowland forest; Kl, Ph, Jh, Sp.
- 197.2.2 **Gironniera nervosa** Planch., **FMP3** 320, **TFM2** 419, **FMI8** 74; tree to 35 m tall, usually smaller; lowland forest below 500 m; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 197.2.3 **Gironniera parvifolia** Planch., **FMP3** 321, **TFM2** 419, **FMI8** 75; tree to 20 m tall; lowland and hill forest to 900 m; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 197.2.4 **Gironniera subaequalis** Planch., **FMP3** 320, **TFM2** 419, **FMI8** 75; tree to 38 m tall; lowland and hill forest to 1100 m; Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 197.3.1 **Trema angustifolia** (Planch.) Blume, **FMP3** 319, **TFM2** 421, **FMI8** 54; small shrubby tree; roadsides and forest margins to 1200 m; Kd, Pn, Pk, Ph, Sl, NS, Ml.
- 197.3.2 **Trema cannabina** Lour., **TFM2** 421, **FMI8** 50; *Trema virgata* Blume, **FMP3** 319; shrub or small tree to 10 m tall; secondary forest to 1000 m; throughout.
- 197.3.3 **Trema orientalis** (L.) Blume, **TFM2** 421, **FMI8** 51; tree to 27 m tall; lowlands and hills; Main Range and near Kuala Lumpur.
- 197.3.4 **Trema tomentosa** (Roxb.) Hara, **TFM2** 423, **FMI8** 53; *Trema amboinensis* Blume, **FMP3** 319; shrub or tree to 15 m tall; lowland forest margins, waste places; Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.

198. UMBELLIFERAE.

- 198.1.1 **Centella asiatica** (L.) Urb., **FMi4** 117, **M47** 48; *Hydrocotyle asiatica* L., **FMP1** 869; low slender, long-creeping herb; damp grassy places; throughout.
- 198.2.1 **Eryngium foetidum** L., **FMP1** 870, **FMi4** 126; spiny foetid herb to about 60 cm tall; sandy waste ground, roadsides; widespread; naturalized from tropical America.
- 198.3.1 **Hydrocotyle javanica** Thunb., **FMP1** 869, **FMi4** 115; creeping herb ascending to 50 cm; damp clearings in lowland to montane forest; Pk, Ph.
- 198.3.2 **Hydrocotyle sibthorpioides** Lam., **FMi4** 115, **M47** 50; *Hydrocotyle rotundifolia* DC., **FMP1** 870; slender creeping herb; weed of short grass; Sp.
- 198.4.1 **Oenanthe javanica** (Blume) DC., **FMi4** 136; *Oenanthe stolonifera* (Roxb.) DC., **FMP1** 871; herb to 1 m tall; pool margins, swamps; Pk.
- 198.5.1 **Sanicula europea** L., **FMP1** 871, **FMi4** 125; herb to 75 cm tall; montane forest; Cameron Highlands, Ph.

199. URTICACEAE

- 199.1.1 **Boehmeria clidemioides** Miq., **Y01** 8; *Boehmeria sidifolia* Wedd., **FMP3** 365; shrub to 1.5 m tall; montane forest; Ph.
- 199.1.2 **Boehmeria glomerulifera** Miq., **Y01** 6; shrub to 1 m tall; once on P.Tioman, Ph.
- 199.1.3 **Boehmeria lanceolata** Ridl., **FMP3** 365; shrub; sandy places; Temengoh, Pk; ?endemic.
- 199.1.4 **Boehmeria malabarica** Wedd., **Y01** 5; shrub to 4 m tall; forest near streams.
- 199.1.5 **Boehmeria nivea** (L.) Gaudich., **C15** 165, **K09** 67; shrub; quite common on limestone, waste ground elsewhere; ramie of commerce; naturalized.
- 199.2.1 **Debregeasia longifolia** (Burm.f.) Wedd., **TFM4** 474; small tree to 7 m; mountains above 1300 m; Ph; possibly recent escape.
- 199.2.2 **Debregeasia squamata** King ex Hook.f., **FMP3** 368, **C15** 165, **TFM4** 474; shrub to 4 m; lowlands to 500 m, mostly on limestone; Kl, Pk, Sl.
- 199.3.1 **Dendrocnide sinuata** (Blume) Chew, **C07** 36, **C15** 165, **TFM4** 475; *Laportea pustulosa* Ridl., **FMP3** 360; stinging tree to 10 m tall; on limestone; Pk.
- 199.3.2 **Dendrocnide stimulans** (L.f.) Chew, **C07** 11, **TFM4** 475; *Laportea stimulans* (L.f.) Miq., **FMP3** 359; small tree to 7 m, with irritant hairs; Pn, Sl.

- 199.4.1 **Elatostema acuminatum** (Poir.) Brongn., **FMP3** 364, **Y02** 492; herb to 30 cm; near mountain streams.
- 199.4.2 **Elatostema curtisii** (Ridl.) H. Schröt., **S12** 35; *Pellionia curtisii* Ridl., **FMP3** 362; shrubby herb to 30 cm tall; on rocks near mountain streams; Pk, Sl; endemic.
- 199.4.3 **Elatostema garrettii** Yahara, **Y02** 496; herb to 50 cm; forest on limestone; Pk, Ph.
- 199.4.4 **Elatostema inaequilobum** Ridl., **FMP3** 364; succulent creeping herb to 30 cm tall; montane forest; Sl.
- 199.4.5a **Elatostema latifolium** (Blume) H. Schröt. var. **acaule** (Hook.f.) H. Schröt. 'acaulis', **S12** 20; *Pellionia javanica* (Wedd.) Wedd. var. *acaulis* (Hook.f.) Ridl., **FMP3** 362; small herb; Pn, Pk.
- 199.4.5b **Elatostema latifolium** (Blume) H. Schröt. var. **latifolium**, **S12** 17; *Procris latifolia* Blume, **FMP3** 365; *Pellionia javanica* (Wedd.) Wedd., **FMP3** 362; *Pellionia helferiana* Wedd., **FMP3** 361; *Pellionia latifolia* (Blume) Boerl., **Y02** 484; herb; hill forest; Pn, Kl, Pk, Ph, Sl, Jh.
- 199.4.6 **Elatostema molle** Wedd., **FMP3** 364, **Y02** 494; herb to 50 cm tall; on rocks in unshaded streams; Pn, Pk, Ph.
- 199.4.7 **Elatostema platyphyllum** Wedd., **FMP3** 363; herb to 30 cm tall; lowlands; Pn, Kl, Sl.
- 199.4.8 **Elatostema repens** (Lour.) Hallier f. var. **pulchrum** (N.E. Br.) H. Schröt., **S12** 25; *Pellionia repens* (Lour.) Merr., **Y02** 485; *Pellionia daveauana* N.E. Br., **FMP3** 362 incl. var. *viridis* N.E.Br.; creeping herb; lowland forest; Kd, Kl, Pk, Ph, Sl, NS.
- 199.4.9 **Elatostema sessile** J.R. Forst. & G. Forst., **FMP3** 363; herb to 30 cm tall; on rocks in streams; widespread.
- 199.4.10 **Elatostema subscabrum** H. Schröt., **S12** 85, **K49** 33; herb to 20 cm tall; on limestone; Ph; endemic.
- 199.5.1 **Laportea interrupta** (L.) Chew, **C08** 145, **TFM4** 473; *Fleurya interrupta* (L.) Wight, **FMP3** 359; herbaceous weed to 2 m tall; waste ground; widespread.
- 199.6.1 **Nothocnide mollissima** (Blume) Chew, **C09** 365, **TFM4** 473; *Pipturus mollissimus* (Blume) Wedd., **FMP3** 367; scrambling shrub; lowland and hill forest; Kd, Pn, Pk, Sl, Jh.
- 199.7.1 **Oreocnide rubescens** (Blume) Miq., **G21** 132; *Villebrunea sylvatica* Blume, **FMP3** 367; *Villebrunea rubescens* (Blume) Blume, **TFM4** 478; tree to 15 m; hill forests to 900 m; Pk, Ph, Sl, NS, Ml.

- 199.8.1 ***Pilea fruticosa*** Hook.f., **FMP3** 360, **C15** 166; *Pilea calcarea* Ridl., **FMP3** 361; herb to 1 m tall; shady places on limestone; north of Malaya; endemic.
- 199.8.2 ***Pilea microphylla*** (L.) Liebm., **K09** 67; *Pilea muscosa* Lindl., **FMP3** 361; herb to 20 cm; weed in damp shady places; naturalized from South America.
- 199.9.1 ***Pipturus argenteus*** (G. Forst.) Wedd., **TFM4** 476; shrub or small tree to 10 m; lowlands; Kd, Pn, Ph, Jh, Sp.
- 199.10.1 ***Pouzolzia hirta*** (Blume) Hassk., **C12** 88, **G21** 130; *Pouzolzia bennettiana* Wight, **FMP3** 367; *Gonostegia hirta* (Blume) Miq., **TFM4** 472; erect herb; Ph.
- 199.10.2 ***Pouzolzia sanguinea*** (Blume) Merr., **B03** 47, **G21** 128; *Pouzolzia viminea* Wedd., **FMP3** 366; shrubby herb to 1.5 m tall; lowland and hill forest; widespread.
- 199.10.3 ***Pouzolzia zeylanica*** (L.) Benn., **G21** 130; *Pouzolzia indica* (L.) Gaudich., **FMP3** 366; herb to 40 cm tall; damp waste ground; widespread.
- 199.11.1 ***Procris frutescens*** Blume, **S11** 272; shrub to 3 m tall; lowland and hill forest including limestone; K1, Pk, Ph, Sl.
- 199.11.2 ***Procris pedunculata*** (J.R. Forst. & G. Forst.) Wedd., **S11** 259; *Procris laevigata* Blume, **FMP3** 364; shrub to 2 m tall; lowland and hill forest; Kd, Pn, Ph, Sl.
200. VERBENACEAE
- 200.1.1 ***Callicarpa angustifolia*** King & Gamble, **FMP2** 616, **TFM3** 301, **C15** 168; shrub to 2 m tall; dry craggy limestone; Pk, Sl.
- 200.1.2 ***Callicarpa candicans*** (Burm.f.) Hochr., **TFM3** 301; *Callicarpa cana* L., **FMP2** 616; shrub; open country, forest margins; widespread.
- 200.1.3 ***Callicarpa furfuracea*** Ridl., **FMP2** 615, **TFM3** 301; shrub; Gg Senyum, Ph; endemic.
- 200.1.4 ***Callicarpa longifolia*** Lam., **FMP2** 616, **TFM3** 301; straggling shrub to 5 m tall; open country; widespread.
- 200.1.5 ***Callicarpa maingayi*** King & Gamble, **FMP2** 615, **TFM3** 302; tree to 18 m tall; lowland and hill forest to 1000 m; widespread; endemic.
- 200.1.6 ***Callicarpa pentandra*** Roxb.; *Geunsia pentandra* (Roxb.) Merr., **TFM3** 305; *Geunsia farinosa* Blume, **FMP2** 614; tree to 18 m tall; open country and forest margins; widespread.

- 200.1.7 **Callicarpa rubella** Lindl., **TFM3** 302; shrub 2 m tall; mountains at 1400 m; Cameron Highlands, Ph.
- 200.1.8 **Callicarpa tomentosa** (L.) Murr., **M51** 299; *Callicarpa arborea* Roxb., **FMP2** 614, **TFM3** 301; tree to 18 m tall; lowland forest; mostly in the north.
- 200.2.1 **Clerodendrum breviflorum** Ridl., **FMP2** 628, **TFM3** 305; small ant-inhabited shrub; swampy lowland forest; Pk, Sl, Jh; endemic.
- 200.2.2 **Clerodendrum deflexum** Wall., **FMP2** 624 incl. var. *bracteatum* Ridl., **TFM3** 304; shrub about 1 m tall; lowland to lower montane forest at 1300 m; throughout.
- 200.2.3 **Clerodendrum hendersonii** Moldenke, **K31** 259; shrub to 4 m tall; montane forest above 1200 m; Cameron Highlands and Gg Ulu Kali, Ph; endemic.
- 200.2.4 **Clerodendrum hispidum** M.R. Hend., **H35** 118, **TFM3** 304; shrub to 1.5 m tall; Tg, Ph; endemic.
- 200.2.5 **Clerodendrum indicum** (L.) Kuntze, **TFM3** 304; *Clerodendrum siphonanthus* R. Br., **FMP2** 628; shrub to 1 m tall; damp grassy places, waste ground; Kd, Pk, Ph.
- 200.2.6 **Clerodendrum inerme** (L.) Gaertn., **FMP2** 624, **TFM3** 304; scandent shrub; sandy and muddy shores; common on all coasts.
- 200.2.7 **Clerodendrum laevifolium** Blume, **TFM3** 305; *Clerodendrum dispariifolium* Blume, **FMP2** 625; spindly shrub or small tree; lowland forests and forest margins; common throughout.
- 200.2.8 **Clerodendrum langkawiense** King & Gamble, **FMP2** 625, **TFM3** 304; shrub under 1 m tall; lowlands; P. Langkawi.
- 200.2.9 **Clerodendrum nutans** Jack, **TFM3** 304; *Clerodendrum penduliflorum* Wall., **FMP2** 626; small shrub; lowland forest, sometimes on limestone; Kd, Pn, Pk, Sl.
- 200.2.10 **Clerodendrum oblongifolium** Kochummen, **TFM3** 305; shrub to 1 m tall; lowland forest; once from near Kota Tinggi, Jh; endemic.
- 200.2.11 **Clerodendron paniculatum** L., **FMP2** 628, **TFM3** 304; shrub to 3 m tall; forests, waste ground, often planted; Kd, Pn, Pk, Ph, Sl, NS.
- 200.2.12 **Clerodendrum phyllomega** Steud. var. *myrmecophilum* (Ridl.) Moldenke, **TFM3** 304; *Clerodendrum myrmecophilum* Ridl., **FMP2** 627; little ant-inhabited shrub; wet lowland forest; Tg, Pk, Sl, Jh, Sp.
- 200.2.13 **Clerodendrum ridleyi** King & Gamble, **FMP2** 629, **TFM3** 305; shrub about 2 m tall; lowland forest; Pk, Sl; endemic.

- 200.2.14 **Clerodendrum serratum** (L.) Moon, **FMP2** 626, **TFM3** 304; bushy shrub; forest, open country; north of Malaya.
- 200.2.15 **Clerodendrum umbratile** King & Gamble, **FMP2** 626; small shrub; montane forest; Pk, Sl, Ml.
- 200.2.16 **Clerodendrum villosum** Blume, **FMP2** 627, **TFM3** 304; shrub to 2 m tall; waste ground, disturbed areas; common throughout.
- 200.3.1 **Congea forbesii** King & Gamble var. **ridleyana** Munir, **M60** 292; *Congea vestita* Griff., **FMP2** 640; large liana; lowland forest; Kd, Pn.
- 200.3.2 **Congea griffithiana** Munir, **M60** 285; scandent shrub; lowland forest, also cultivated; Kd.
- 200.4.1 **Glossocarya mollis** Wall., **C15** 168; scandent shrub; on limestone; once from P. Rabana, Ps.
- 200.4.2 **Glossocarya premnoides** Ridl., **FMP2** 636; shrub; open country; Besih Hangat, Ps; ?endemic.
- 200.5.1 **Gmelina asiatica** L., **FMP2** 622, **TFM3** 306; small spiny tree or shrub; waste ground; dubiously native.
- 200.5.2 **Gmelina elliptica** Sm., **TFM3** 306; *Gmelina villosa* Roxb., **FMP2** 623; thorny scrambling shrub to 8 m tall; open country near the sea; widespread.
- 200.6.1 **Lantana camara** L., **K09** 194; *Lantana aculeata* L., **FMP2** 612; shrub; waste places; widespread; naturalized from tropical America.
- 200.6.2 **Lantana indica** Roxb., **FMP2** 612; small shrub; waste ground; widespread; naturalized from India.
- 200.7.1 **Peronema canescens** Jack, **FMP2** 636, **TFM3** 306; tree to 18 m tall; open country, secondary forests; common throughout.
- 200.8.1 **Petraeovitex bambusetorum** King & Gamble, **FMP2** 637, **M58** 232; large woody climber; bamboo forest; once from Ulu Kerling, Pk.
- 200.8.2 **Petraeovitex membranacea** Merr. var. **malesiana** Munir, **M58** 231; slender liana; lowland forest; Sl, Ph.
- 200.8.3 **Petraeovitex scortechinii** King & Gamble, **FMP2** 637, **M58** 228; liana; lowland and hill forest; Pk, Sl, NS, ?Ml; ?endemic.
- 200.8.4 **Petraeovitex wolfei** J. Sinclair, **S25** 19, **M58** 229; liana; lowland forest; Kd, Kl, Tg; endemic.
- 200.9.1 **Phyla nodiflora** (L.) Greene, **TFM3** 298, **M47** 556; *Lippia nodiflora* (L.) Michx., **FMP2** 612; creeping herb; sandy places near the sea, waste ground; widespread.

- 200.10.1 **Premna cordifolia** Roxb., **FMP2** 621, **TFM3** 307; small shrub; lowlands; MI northward; endemic.
- 200.10.2 **Premna derryana** King & Gamble, **FMP2** 618, **TFM3** 307; climber; hill forest; Taiping Hills, Pk; endemic.
- 200.10.3 **Premna divaricata** Wall. ex Schau., **FMP2** 619, **TFM3** 307; climbing shrub; thickets in open country; widespread.
- 200.10.4 **Premna foetida** Reinw. ex Blume, **FMP2** 619, **TFM3** 307; large shrub; damp lowland forest; Ps, Kd, Pk, MI, Jh, Sp.
- 200.10.5 **Premna kunstleri** King & Gamble, **FMP2** 622, **TFM3** 307; large shrub or small tree; lowland forest; Pk.
- 200.10.6 **Premna parasitica** Blume, **TFM3** 307; *Premna trichostoma* Miq., **FMP2** 620; large climbing shrub; lowland forest; P. Langkawi, Pk, Ph, MI, Jh, Sp.
- 200.10.7 **Premna perakensis** King & Gamble, **FMP2** 620, **TFM3** 307; climbing shrub; Pk; endemic.
- 200.10.8 **Premna punctulata** C.B. Clarke, **FMP2** 620, **TFM3** 307; scandent shrub; lowland forest; MI, Sp; endemic.
- 200.10.9 **Premna pyramidata** Wall., **FMP2** 622, **C15** 169; tree to 15 m tall; lowland forest; P. Langkawi, Pk, Ph, SI.
- 200.10.10 **Premna ridleyi** King & Gamble, **FMP2** 621, **TFM3** 307; climbing shrub; lowland forest; Pk, Sp; endemic.
- 200.10.11 **Premna rubens** (C.B. Clarke) Ridl., **FMP2** 618, **TFM3** 307; climber; lowland forest; Air Panas, MI; endemic.
- 200.10.12 **Premna serratifolia** L., **N11** 262; *Premna littoralis* King & Gamble, **FMP2** 618; *Premna angustior* (C.B. Clarke) Ridl., **FMP2** 619; *Premna integrifolia* L. nom. illeg., **FMP2** 619 incl. var. *minor* Ridl.; *Premna corymbosa* Rottl. & Willd., **TFM3** 308; sea shore creeper or small shrub; common on all coasts.
- 200.10.13 **Premna sterculifolia** King & Gamble, **FMP2** 621, **TFM3** 307; shrubby climber; lowland forest; near Taiping, Pk; endemic.
- 200.10.14 **Premna tomentosa** Willd., **TFM3** 307; tree to 18 m tall; open country; NS northward.
- 200.10.15 **Premna wrayi** King & Gamble, **FMP2** 621, **TFM3** 307; large climber; lowland forest; Tapah, Pk; endemic.
- 200.11.1a **Sphenodesme pentandra** Jack var. *pentandra*, **FMP2** 639, **M59** 357; climbing shrub; lowland forest margins; P. Langkawi, Pn, Tg, Pk, Ph, SI, NS, MI, Jh, Sp.

- 200.11.1b **Sphenodesme pentandra** Jack var. **wallichiana** (Schauer) Munir, **M59** 360; climber: Ph.
- 200.11.2 **Sphenodesme racemosa** (Presl) Moldenke, **M59** 349; *Sphenodesme barbata* Schauer, **FMP2** 638; climbing shrub: lowland forest: Pn, Kl, Tg, Ph, NS, Ml, Jh.
- 200.11.3 **Sphenodesme triflora** Wight, **FMP2** 638, **M59** 367; climbing shrub: lowland and hill forest: Pn, Tg, Pk, Ph, Sl, NS, Ml, Jh.
- 200.12.1 **Stachytarpheta cayennensis** (Rich.) Vahl, **S23** 34; herb: waste ground: Sp; naturalized from Tropical America.
- 200.12.2 **Stachytarpheta indica** (L.) Vahl, **FMP2** 613, **M47** 558; herb to 1 m tall; sandy places near the sea; widespread; naturalized from tropical America.
- 200.12.3 **Stachytarpheta jamaicensis** (L.) Vahl, **FMP2** 613, **M47** 560; shrub to 1 m tall; waste places; widespread; naturalized from tropical America.
- 200.12.4 **Stachytarpheta mutabilis** (Jacq.) Vahl, **FMP2** 613; lax shrub: hill resorts; naturalized from tropical America.
- 200.13.1 **Teijsmanniodendron coriaceum** (C.B. Clarke) Kosterm., **TFM3** 308; *Vitex coriacea* C.B. Clarke, **FMP2** 632; tree to 27 m tall; lowland and hill forest to 700 m: Kd, Kl, Tg, Pk, Ph, Sl, Jh, Sp.
- 200.13.2 **Teijsmanniodendron hollrungii** (Warb.) Kosterm., **TFM3** 309; *Vitex clarkeana* King & Gamble, **FMP2** 632; small tree: lowland forest near streams: Pn, Pk, Ph, Jh.
- 200.13.3 **Teijsmanniodendron holophyllum** (Baker) Kosterm., **TFM3** 308; *Vitex holophylla* Baker, **FMP2** 631; tree to 28 m tall; lowland forest: Tg, Jh.
- 200.13.4 **Teijsmanniodendron pteropodum** (Miq.) Bakh., **TFM3** 309; *Vitex pteropoda* Miq., **FMP2** 633; *Vitex peralata* King, **FMP2** 634; tree to 24 m tall; lowland swamps: Kd, Pn, Tg, Pk, Ph, Jh, Sp.
- 200.13.5 **Teijsmanniodendron simplicifolium** Merr., **TFM3** 309; tree to 18 m tall; lowland forest: Tg, Pk, Ph.
- 200.13.6 **Teijsmanniodendron sinclairii** Kosterm., **TFM3** 309; tree to 5 m tall; lowland forest; once from Tg.
- 200.14.1 **Verbena bonariensis** L., **S53** 150, **Y08** 105, **T19** 126; herb: roadsides: Cameron Highlands & Genting Highlands, Ph; naturalized from South America.
- 200.15.1 **Vitex gamosepala** Griff., **FMP2** 635, **TFM3** 310; tree to 18 m tall; lowland and hill forest to 1200 m; throughout.

- 200.15.2 **Vitex glabrata** R.Br., **FMP2** 634, **TFM3** 310; large tree; Pn, Kd.
- 200.15.3 **Vitex longisepala** King & Gamble, **FMP2** 634, **TFM3** 311; tree; mainly montane forest; Pn to Ml; endemic.
- 200.15.4 **Vitex negundo** L., **FMP2** 631, **TFM3** 311; shrub; usually near the coast, also cultivated; widespread.
- 200.15.5 **Vitex pinnata** L., **TFM3** 311; *Vitex pubescens* Vahl, *nom. illeg.*, **FMP2** 632; tree to 24 m tall; disturbed forest; throughout.
- 200.15.6 **Vitex quinata** (Lour.) F.N. Williams, **TFM3** 311; *Vitex heterophylla* Roxb., **FMP2** 633; tree to 36 m tall; lowland forest; middle Malaya.
- 200.15.7 **Vitex siamica** F.N. Williams, **FMP2** 632, **TFM3** 311, **C15** 169; tree to 10 m tall; craggy limestone hill summits; P. Langkawi, Pk, Sl.
- 200.15.8 **Vitex trifolia** L., **FMP2** 630, **TFM3** 311; shrub to 2.5 m tall; sandy shores, widely cultivated; widespread.
- 200.15.9 **Vitex urceolata** C.B. Clarke, **FMP2** 633, **TFM3** 313; tree to 18 m tall; lowland forest; Pk, NS, Ml; endemic.
- 200.15.10 **Vitex vestita** Wall. ex Schau., **FMP2** 635, **TFM3** 313; small tree; lowland forest; widespread.

201. VIOLACEAE

- 201.1.1 **Rinorea anguifera** (Lour.) Kuntze, **FM17** 183, **TFM3** 315; *Alsodeia capillata* King, **FMP1** 133; *Alsodeia comosa* King, **FMP1** 133; *Alsodeia echinocarpa* Korth., **FMP1** 315; tree to 10 m tall; lowland and hill forest to 600 m; throughout.
- 201.1.2 **Rinorea bengalensis** (Wall.) Kuntze, **FM17** 184, **TFM3** 317; *Alsodeia wallichiana* Hook.f., **FMP1** 128; *Alsodeia lankawiense* Ridl., **FMP1** 129; shrub to 3 m tall; lowland and hill forest to 600 m, common on limestone; Ps, Kd, Pn, Kl, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 201.1.3 **Rinorea horneri** (Korth.) Kuntze, **FM17** 185, **TFM3** 317; *Alsodeia hirtella* Ridl., **FMP1** 128; *Alsodeia kunstleriana* King, **FMP1** 128; shrub to 3 m tall; lowland forest; widespread.
- 201.1.4a **Rinorea javanica** (Blume) Kuntze var. **javanica**, **FM17** 188, **TFM3** 317; *Alsodeia hookeriana* King, **FMP1** 130; tree to 10 m tall; lowland forest to 300 m; widespread.
- 201.1.4b **Rinorea javanica** (Blume) Kuntze var. **wrayi** (King) Ng, **TFM3** 318; *Alsodeia wrayi* King, **FMP1** 129; tree to 10 m tall; lowland forest; Pk, Jh; endemic variety.

- 201.1.5a **Rinorea lanceolata** (Wall.) Kuntze var. **floribunda** (King) Ng, **TFM3** 318; *Alsodeia floribunda* King, **FMP1** 132; tree to 23 m tall; lowland forest; Kd, Pk; endemic variety.
- 201.1.5b **Rinorea lanceolata** (Wall.) Kuntze var. **lanceolata**, **FMi7** 187, **TFM3** 318; *Alsodeia maingayi* Hook.f. & Thomson, **FMP1** 130; *Alsodeia lanceolata* (Wall.) Oudem., **FMP1** 131; *Alsodeia grandiflora* Ridl., **FMP1** 132; shrub to 3 m tall; lowland forest below 750 m; widespread, mostly in the south.
- 201.1.6 **Rinorea longiracemosa** (Kurz) Craib, **FMi7** 189, **TFM3** 318; *Alsodeia cinerea* King, **FMP1** 130 incl. var. *hirsutiflora* King; shrub to 5 m tall; lowland forest; Tg, Pk, Jh.
- 201.1.7 **Rinorea macrophylla** (Decne.) Kuntze, **FMi7** 190, **TFM3** 318; *Alsodeia dasycaula* Miq., **FMP1** 129; shrub to 5 m tall; lowland forest; Ps, Pk, Ph.
- 201.1.8 **Rinorea sclerocarpa** (Burgersd.) M. Jacobs, **FMi7** 186, **TFM3** 319; *Alsodeia pachycarpa* King, **FMP1** 131; *Alsodeia scortechinii* King, **FMP1** 131; *Alsodeia condensa* King, **FMP1** 132; tree to 13 m tall; lowland and hill forest; widespread.
- 201.1.9 **Rinorea virgata** (Thwaites) Kuntze, **FMi7** 190, **TFM3** 319; *Alsodeia minutiflora* Ridl., **FMP1** 131; shrub to 4 m tall; once from Ps.
- 201.2.1 **Viola curvistylis** Boissieu & Capit., **FMi7** 210, **TFM3** 321; *Viola serpens auct. non* Wall., **FMP1** 126 in part; creeping herb; openings in montane forest, 1000–1700 m; Cameron Highlands, Ph.
- 201.2.2 **Viola hederacea** Labill., **FMi7** 211, **TFM3** 321; creeping rhizomatous herb; clearings of montane forest; Cameron Highlands, Ph; possibly naturalized from Australasia.
- 201.2.3 **Viola inconspicua** Blume, **FMi7** 203, **TFM3** 321; herb; open grassy place at 750 m; once from Penang Hill.
- 201.2.4 **Viola sumatrana** Miq., **FMi7** 209, **TFM3** 321; *Viola serpens auct. non* Wall., **FMP1** 126 in part; stoloniferous herb; clearings in montane forest at 700–2000 m; Kl, Pk, Ph.
202. VISCACEAE
- 202.1.1 **Korthalsella dacrydii** (Ridl.) Danser, **D04** 124; *Arcenthobium dacrydii* Ridl., **FMP3** 163, **D03** 455; tiny leafless mistletoe to 10 cm tall; upper montane forest, only on *Dacrydium* in the Peninsula; Gg Tahan, Ph.
- 202.1.2 **Korthalsella japonica** (Thunb.) Engl., **FMP3** 163; *Korthalsella opuntia* (Thunb.) Merr., *nom. illeg.*, **D03** 453; tiny leafless mistletoe about 10 cm tall; mountain tops; Kd, Ml.

- 202.2.1 **Notothixos malayanus** Oliv., **FMP3** 165, **D03** 457, **B10** 10; delicate mistletoe; Pn.
- 202.3.1 **Viscum articulatum** Burm.f., **FMP3** 165, **D03** 460, **D05** 280, **R05** 126; *Viscum dichotomum* (non Gilibert) D.Don, **FMP3** 164; *Viscum flexuosum* Gamble, **FMP3** 165; *Viscum nepalense* Spreng., **D05** 283; bushy 'leafless' mistletoe parasitic on other mistletoe species; lowlands; Kd, Tg, Pn, Pk, Ph, NS, MI, Jh, Sp.
- 202.3.2 **Viscum ovalifolium** Wall. ex DC., **D05** 296; *Viscum orientale* auctt. plur., non Willd., **FMP3** 164, **D03** 466; bushy mistletoe; common; Kd, Pn, Pk, Ph, SI, MI, Sp.
- 202.3.3 **Viscum wrayi** Gamble, **FMP3** 164, **D03** 470, **D05** 297; bushy mistletoe; Kd, Pk, Jh.

203. VITACEAE

- 203.1.1 **Ampelocissus arachnoidea** (Hassk.) Planch., **L08** 86; *Vitis harmandi* sensu Ridl., **FMP1** 471; climber; once collected from Terutau Island.
- 203.1.2 **Ampelocissus ascendiflora** Latiff, **L08** 87; scandent shrub; forest margins; MI; endemic.
- 203.1.3 **Ampelocissus cinnamomea** (Wall.) Planch., **L08** 88; *Vitis cinnamomea* Wall., **FMP1** 472; slender climber; lowland forest; widespread.
- 203.1.4 **Ampelocissus compositifolia** (Wall. ex Lawson) Planch., **L08** 89; *Vitis compositifolia* Wall. ex Lawson, **FMP1** 473; slender climber; lowland forest; Pn, Pk, MI.
- 203.1.5 **Ampelocissus elegans** (Kurz) Gagnep., **L08** 89; *Vitis elegans* Kurz, **FMP1** 473; slender climber; forest understorey and edges; lowlands, including limestone, to mountains; widespread.
- 203.1.6 **Ampelocissus floccosa** (Ridl.) Galet, **L08** 87; *Vitis floccosa* Ridl., **FMP1** 472; climber; hill forest; once from Gg Pulai, Jh; ?endemic.
- 203.1.7 **Ampelocissus gracilis** (Wall.) Planch., **L08** 86; *Vitis gracilis* Wall., **FMP1** 472; slender climber; forest fringes; widespread.
- 203.1.8 **Ampelocissus martini** Planch., **L08** 85; *Vitis martini* (Planch.) Hort. ex Ridl., **FMP1** 471; scandent vine; on limestone hills; Ps, Kd.
- 203.1.9 **Ampelocissus nitida** (Lawson) Planch., **L08** 91; *Vitis polystachya* auct. non Wall., **FMP1** 473 in part; climber; known only from Penang Hill; ?endemic.
- 203.1.10 **Ampelocissus polystachya** (Wall.) Planch., **L08** 91; *Vitis polystachya* Wall., **FMP1** 473 in part; climber; lowland forest; widespread.

- 203.1.11 **Ampelocissus thyrsoflora** (Blume) Planch., **L08** 90; *Vitis polystachya* auct. non Wall., **FMP1** 473 in part; slender climber; lowland and hill forests; widespread.
- 203.2.1 **Ampelopsis cantoniensis** (Hook. & Arn.) Planch., **L08** 83; *Vitis cantoniensis* (Hook. & Arn.) Seem., **FMP1** 476; climber; roadsides and waste ground; widespread.
- 203.3.1 **Cayratia japonica** (Thunb.) Gagnep., **L06** 136; *Vitis japonica* Thunb., **FMP1** 478; vine; lowland and hill forest margins, including on limestone.
- 203.3.2 **Cayratia mollissima** (Wall.) Gagnep., **L06** 136; *Vitis mollissima* Wall., **FMP1** 478; slender climber; lowland and hill forest.
- 203.3.3 **Cayratia novemfolia** (Wall. ex Lawson) Burkill ex A.W. Hill, **L06** 138; *Vitis novemfolia* Wall. ex Lawson, **FMP1** 479; wide-ranging forest climber.
- 203.3.4 **Cayratia trifolia** (L.) Domin, **L06** 135; *Vitis trifolia* L., **FMP1** 478; vine; forest fringes and wasteland.
- 203.3.5 **Cayratia wrayi** (King) Gagnep., **L06** 137; *Vitis wrayi* King, **FMP1** 475 in part; climber; hill and lower montane forest margins.
- 203.4.1 **Cissus adnata** Roxb., **L10** 205; vine; Ps and P. Tioman.
- 203.4.2 **Cissus aristolochioides** Planch., **L12** 31; climber; forest margins; Jeli, Kl.
- 203.4.3 **Cissus javana** DC., **L12** 34; *Cissus discolor* Blume, **L10** 205; *Vitis discolor* (Blume) Dalzell, **FMP1** 477; on limestone; Ps, P. Langkawi and Batu Caves, Sl.
- 203.4.4 **Cissus hastata** Miq., **L10** 202; *Vitis hastata* (Miq.) Miq., **FMP1** 477; slender climber; damp forest edges; widespread.
- 203.4.5 **Cissus nodosa** Blume, **L12** 33; *Cissus glaberrima* (Wall.) Planch., **L10** 202; *Vitis glaberrima* Wall., **FMP1** 477; climber, lowland forest, widespread but not common.
- 203.4.6 **Cissus repens** Lam., **L10** 203, **L12** 34; *Vitis repens* (Lam.) Wight & Arn., **FMP1** 477; *Cissus diffusa* (Miq.) Burkill ex A.W. Hill, **L10** 203; *Vitis diffusa* Miq., **FMP1** 477; slender climber; forest fringes.
- 203.4.7 **Cissus rostrata** (Miq.) Planch., **L10** 204; *Vitis rostrata* Miq., **FMP1** 476; vine; lowland and hill forest.
- 203.4.8 **Cissus simplex** Blanco, **L10** 206; *Vitis pyrrhodasys* (Miq.) Ridl., **FMP1** 477; vine; forest interior including swamps and limestone.

- 203.5.1 **Nothocissus spicifera** (Griff.) Latiff, **L07** 71; *Vitis macrostachya* Miq., **FMP1** 472; climber; lowland forest margins, often on river banks; Kd, Pn, Pk, Kl, Tg, Ph, Sl, Ml, Sp.
- 203.6.1 **Parthenocissus semicordata** (Wall.) Planch., **L08** 81; *Vitis semicordata* Wall., **FMP1** 475; climber; Pk.
- 203.7.1 **Pterisanthes cissoides** Blume, **FMP1** 482, **L09** 48; vine; lowland forest; Pk, Ph, Sl, Sp.
- 203.7.2 **Pterisanthes cordigera** (Griff.) Planch., **L09** 61; vine; lowland forest; Sl, NS, Ml, Jh.
- 203.7.3 **Pterisanthes dalhousiae** Planch., **FMP1** 481, **L09** 59; vine; Pn; endemic.
- 203.7.4 **Pterisanthes eriopoda** (Miq.) Planch., **FMP1** 481, **L09** 57; vine; lowland forest; Pk, Tg, Ph, Sl, NS, Ml, Jh, Sp.
- 203.7.5 **Pterisanthes glabra** Ridl., **FMP1** 481, **L09** 51; climber; only known from type; Sg Tahan, Ph; endemic.
- 203.7.6 **Pterisanthes heterantha** (Griff.) Lawson, **L09** 52; *Pterisanthes rufula auct. non* (Miq.) Planch., **FMP1** 482 in part; vine; NS, Ml, Jh.
- 203.7.7 **Pterisanthes miquelii** Planch., **L09** 56; vine; Pn.
- 203.7.8 **Pterisanthes pedata** Lawson, **FMP1** 482, **L09** 63; climber; Pk, Ml.
- 203.7.9 **Pterisanthes polita** (Miq.) Lawson, **L09** 53; *Pterisanthes coriacea* Korth. ex King, **FMP1** 480; vine; lowland forest; Pk, Ph, Sl, Jh, Sp.
- 203.7.10 **Pterisanthes pulchra** Ridl., **FMP1** 482, **L09** 58; vine with beautiful leaves; Ph; endemic.
- 203.7.11 **Pterisanthes rufula** (Miq.) Planch., **FMP1** 482 in part, **L09** 59; vine; Pk, Sl.
- 203.7.12 **Pterisanthes stonei** Latiff, **L09** 51; vine; lowland forest; NS, Jh; endemic.
- 203.8.1 **Tetrastigma cruciatum** Craib & Gagnep., **L11** 219; climber; lowland forest margins; Ps, Kd, Ml.
- 203.8.2 **Tetrastigma curtisii** (Ridl.) Suess., **L11** 223; *Vitis curtisii* Ridl., **FMP1** 474; liana; forest margins in lowlands and hills; Pn, Ph, Sl, NS; endemic.
- 203.8.3 **Tetrastigma dichotomum** (Blume) Planch., **L11** 221; climber; edges of hill and montane forest; Pk, Ph.
- 203.8.4 **Tetrastigma dubium** (Lawson) Planch., **L11** 219; *Vitis wrayi auct. non* King, **FMP1** 475 in part; climber; forest margins from lowlands to mountains; Kd, Pk, Pn, Kl, Sl, Jh.

- 203.8.5 **Tetrastigma godefroyanum** Planch., **L11** 224; liana: lowland forest; Kd, Sl.
- 203.8.6 **Tetrastigma hookeri** (Lawson) Planch., **L11** 223; climber; hill forest; P. Langkawi, Pn, Sl.
- 203.8.7 **Tetrastigma lawsoni** (King) Burkill *ex* A.W. Hill, **L11** 220; *Vitis lawsoni* King, **FMP1** 474; liana: lowland forest margins; Kd, Pk, Pn, Sl, Sp; endemic.
- 203.8.8 **Tetrastigma leucostaphylum** (Dennst.) Alston *ex* Mabb., **M02** 539; *Vitis kunstleri* King, **FMP1** 475; *Vitis lanceolarium* (Roxb.) Wall., **FMP1** 475; *Tetrastigma lanceolarium* (Roxb.) Planch., **L11** 222; stout climber; forest margins: lowlands, hills and limestone; Kd, Kl, Pk, Pn, Tg, Ph, Sl, NS, Jh, Sp.
- 203.8.9 **Tetrastigma papillosum** (Blume) Planch., **L11** 226; climber; hill and montane forest; Ph, Sl.
- 203.8.10 **Tetrastigma pedunculare** (Wall. *ex* Lawson) Planch., **L11** 225; *Vitis peduncularis* Wall. *ex* Lawson, **FMP1** 474; climber; lowland and hill forest; Kd, Pk, Kl, Ph, Sl, NS, Ml, Jh.
- 203.8.11 **Tetrastigma pyriforme** Gagnep., **L11** 226; climber; hill forest; Tg, Ph.
- 203.8.12 **Tetrastigma scortechinii** (King) Gagnep., **L11** 218; *Vitis scortechinii* King, **FMP1** 474; liana: lowland forest edges, including limestone; Pk, Ph; endemic.

204. ALISMATACEAE

- 204.1.1 **Echinodorus ridleyi** Steenis, **FMI5** 325; *Ranalisma rostrata* Stapf, **FMP4** 362; stoloniferous herb to 20 cm tall; muddy places in lowland forest; only known from Gua Batu, Sl (probably not on limestone).
- 204.2.1 **Sagittaria guayanensis** H.B.K. ssp. *lappula* (D. Don) Bogin, **FMP4** 363, **FMI5** 328, **M47** 30; submerged laticiferous herb with floating leaves; ditches and wet rice-fields; widespread.

205. AMARYLLIDACEAE

- 205.1.1 **Crinum asiaticum** L., **FMP4** 301, **FMI11** 359; *Crinum northianum* Baker, **FMP4** 301; *Crinum deflexum* auct. non Ker Gawl., **FMP4** 301; herb to 2 m tall; sandy places, coastal and riverine forest; widespread.
- 205.2.1 **Proiphys amboinensis** (L.) Herb., **FMI11** 366; *Eurycles sylvestris* Salisb. *ex* Schult., **FMP4** 303; bulbous herb to 30 cm tall; sandy and rocky places near the sea; north of Malaya.

206. ANTHERICACEAE

- 206.1.1 **Chlorophytum laxum** R.Br., **FMi9** 205; stemless herb to 60 cm tall; usually in shady places.
- 206.1.2 **Chlorophytum malayense** Ridl., **FMP5** 341, **FMi9** 206; *Chlorophytum orchidastrum* auct. non Lindl., **FMP4** 327; herb to 60 cm tall; lowland forest, including that on limestone; Ps, Pk.

207. ARACEAE

- 207.1.1 **Aglaodorum griffithii** (Schott) Schott, **N08** 61, **H28** 3; *Aglaonema griffithii* Schott, **FMP5** 100; creeping herb to 40 cm tall; in tidal swamps, often among nypah palms; Ml, Sp.
- 207.2.1 **Aglaonema costatum** N.E.Br., **FMP5** 100 incl. var. *immaculatum* Ridl., **N08** 23, **C15** 178, **H28** 4; creeping herb to 40 cm tall; on limestone rocks; P. Langkawi.
- 207.2.2 **Aglaonema nebulosum** N.E.Br., **N08** 30, **H28** 7; *Aglaonema pictum* auct. non Kunth, **FMP5** 102 incl. vars. *namum* Ridl. and *scortechinii* (Hook.f.) Ridl.; erect herb 10–60 cm tall; peat and freshwater swamp forest, occasionally in the hills; widespread.
- 207.2.3 **Aglaonema nitidum** (Jack) Kunth, **N08** 33, **H28** 7; *Aglaonema oblongifolium* Schott, **FMP5** 100 incl. var. *curtisii* N.E.Br.; erect herb to 1 m tall; damp lowland forest; widespread.
- 207.2.4 **Aglaonema simplex** Blume, **N08** 39, **H28** 10; *Aglaonema schottianum* Miq., **FMP5** 101; *Aglaonema angustifolium* N.E.Br., **FMP5** 101 incl. var. *undulatum* Ridl.; erect herb to 120 cm tall; damp places in lowland forest; widespread.
- 207.3.1 **Alocasia beccarii** Engl., **FMP5** 97, **H28** 12; creeping herb about 30 cm tall; on rocks in hill forest streams.
- 207.3.2 **Alocasia curtisii** N.E. Br., **H28** 13; herb; endemic.
- 207.3.3a **Alocasia denudata** Endl. var. *denudata*, **FMP5** 97, **H28** 14; herb to 1 m tall; forest margins; widespread.
- 207.3.3b **Alocasia denudata** Endl. var. *elongata* Engl., **H28** 14; herb; Sp; endemic variety.
- 207.3.4 **Alocasia longiloba** Miq., **H28** 16; *Alocasia eminens* N.E. Br.; herb.
- 207.3.5 **Alocasia lowii** Hook., **FMP5** 98, **H28** 16; herb to 1 m tall; on limestone.

- 207.3.6 **Alocasia macrorrhizos** (L.) G. Don, **N09** 58, **H28** 17; huge-leaved herb to 2 m tall; frequent escape or relic of cultivation; widespread.
- 207.3.7 **Alocasia ovalifolia** Ridl., **FMP5** 99, **H28** 18; herb to 75 cm tall; hill forest; widespread.
- 207.3.8 **Alocasia pubera** (Hassk.) Schott, **FMP5** 99, **H28** 19; herb to 60 cm tall; Pk.
- 207.4.1 **Amorphophallus bufo** Ridl., **FMP5** 93, **H28** 23; tuberous herb to 1.5 m tall; montane forests; endemic.
- 207.4.2 **Amorphophallus carneus** Ridl., **FMP5** 94 '*carnosus*', **C15** 179, **H28** 23; tuberous herb to 50 cm tall; on limestone; north of Peninsula; endemic.
- 207.4.3 **Amorphophallus elatus** Hook.f., **H28** 24; tuberous herb; endemic.
- 207.4.4 **Amorphophallus elegans** Ridl., **FMP5** 95, **H28** 24; tuberous herb to 1 m tall; montane forests; endemic.
- 207.4.5 **Amorphophallus haematospadix** Hook.f., **FMP5** 94, **C15** 179, **H28** 25; tuberous herb to 60 cm tall; on limestone; northern Malaya.
- 207.4.6 **Amorphophallus longituberosus** (Engl.) Engl. & Gehrm., **H28** 26; *Amorphophallus viridis* Ridl., **FMP5** 93; tuberous herb to 50 cm tall; [There must be some doubt as to whether this species occurs with Malaya. Ridley cites P. Adang (Thailand) as the only locality].
- 207.4.7 **Amorphophallus malaccensis** Ridl., **H28** 26; tuberous herb; endemic.
- 207.4.8 **Amorphophallus minor** Ridl., **FMP5** 93, **H28** 27; tuberous herb to 30 cm tall; lowland forests; endemic.
- 207.4.9 **Amorphophallus paeoniifolius** (Dennst.) Nicolson, **N09** 37, **H28** 27; *Amorphophallus campanulatus* Decne., **FMP5** 92; tuberous herb to 2 m tall; open sites and forest margins.
- 207.4.10 **Amorphophallus perakensis** Engl., **FMP5** 94, **H28** 28; tuberous herb to 60 cm tall; endemic.
- 207.4.11 **Amorphophallus prainii** Hook.f., **FMP5** 94, **H28** 28; tuberous herb to 2 m tall; lowland forests.
- 207.4.12 **Amorphophallus sparsiflorus** Hook.f., **FMP5** 93, **H28** 30; montane forests; endemic.
- 207.4.13 **Amorphophallus variabilis** Blume, **FMP5** 95, **H28** 30; tuberous herb to 1.5 m tall; cracks in limestone; [Identity of this plant in Malaya may be incorrect].
- 207.5.1 **Amydrium humile** Schott, **FMP5** 118, **N07** 124, **H28** 31; creeping herb, sometimes climbing; on rocks and banks at 1200–1800 m; Pn, Pk, Ph.

- 207.5.2 **Amydrium medium** (Zoll. & Moritzi) Nicolson, **N07** 124, **H28** 31; *Epipremnopsis media* (Zoll. & Moritzi) Engl., **FMP5** 120; root climber; climbing boles of trees in lowland forest; widespread.
- 207.6.1 **Anadendrum latifolium** Hook.f., **FMP5** 115, **H28** 32; epiphytic root climber to 2 m or more long; on tree trunks in lowland and hill forest; Kl, Tg, Pk, NS, Jh; endemic.
- 207.6.2 **Anadendrum marginatum** Schott, **FMP5** 116, **H28** 32; root climber; on trees and rocks in the lowlands and hills; Pk, Ph, Sl; endemic.
- 207.6.3a **Anadendrum montanum** (Blume) Schott var. **cordatum** Ridl., **FMP5** 116, **H28** 33; creeper; on rocks including limestone; Sl; endemic.
- 207.6.3b **Anadendrum montanum** (Blume) Schott var. **longirostre** Hook.f., **FMP5** 116, **H28** 33; creeper.
- 207.6.3c **Anadendrum montanum** (Blume) Schott var. **montanum**, **FMP5** 115, **H28** 33; epiphytic root climber to 2 m or more long; on tree trunks in lowland forest, occasionally at higher altitudes; Kd, Kl, Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 207.7.1 **Arisaema anomalum** Hemsl., **FMP5** 89, **H28** 35; tuberous herb to 50 cm tall; hill and montane forest; endemic.
- 207.7.2 **Arisaema filiforme** Blume, **FMP5** 89, **H28** 36; tuberous herb to 30–75 cm tall; montane forest.
- 207.7.3 **Arisaema fimbriatum** Mast., **FMP5** 89, **C15** 179, **H28** 36; tuberous herb to 30 cm tall; on limestone; in the north.
- 207.7.4 **Arisaema kunstleri** Hook.f., **H28** 37; *Arisaema roxburghii* Kunth var. *kunstleri* (Hook.f.) Ridl., **FMP5** 88; tuberous herb to 30 cm tall; lowland and hill forest; endemic.
- 207.7.5 **Arisaema laminatum** Blume, **V12** 452, **H28** 37; *Arisaema roxburghii* Kunth, **FMP5** 88; tuberous herb to 30 cm tall; lowland and hill forest.
- 207.7.6 **Arisaema scortechinii** Hook.f., **FMP5** 89, **H28** 38; tuberous herb to 30 cm tall; montane forests.
- 207.7.7 **Arisaema wrayi** Hemsl., **FMP5** 89, **H28** 38; herb to 50 cm tall; montane forest, also on limestone; endemic.
- 207.8.1 **Colocasia esculenta** (L.) Schott, **N09** 54, **H28** 45; *Colocasia antiquorum* Schott, **FMP5** 96; herb to 40 cm tall; relic of cultivation in damp open spots; origin obscure.
- 207.8.2 **Colocasia gigantea** (Blume) Hook.f., **FMP5** 96, **H28** 45; herb to 2 m tall; forest margins, limestone rocks; widespread.

- 207.9.1 **Cryptocoryne affinis** N.E.Br., **FMP5** 87, **H28** 48; submerged herb; shallow gravelly forest streams; widespread; endemic.
- 207.9.2 **Cryptocoryne ciliata** (Roxb.) Schott, **FMP5** 86, **J02** 38, **H28** 49; stoloniferous tuberous herb; on tidal mud and in rivers and ditches near the sea; widespread.
- 207.9.3 **Cryptocoryne cordata** Griff., **FMP5** 86, **F21** 146 in part, **H28** 49; submerged herb; forest streams.
- 207.9.4 **Cryptocoryne decus-silvae** de Wit, **H28** 49; aquatic herb; endemic.
- 207.9.5 **Cryptocoryne elliptica** N.E.Br., **FMP5** 87, **H28** 50; aquatic herb; Pk; endemic.
- 207.9.6 **Cryptocoryne griffithii** Schott, **FMP5** 87, **H28** 51; aquatic herb; slow forest streams; south of Peninsula; endemic.
- 207.9.7 **Cryptocoryne longicauda** Engl., **J02** 40, **H28** 52; *Cryptocoryne pontederiifolia* auct. non Schott, **FMP5** 87; *Cryptocoryne johorensis* Engl., **F21** 147; rhizomatous herb; forest streams and pools; base of Gg Pulai, Jh.
- 207.9.8 **Cryptocoryne minima** Ridl., **FMP5** 88, **H28** 52; rhizomatous herb; muddy places; Gua Batu Boh, Kl and Tapah, Pk.
- 207.9.9 **Cryptocoryne nurii** Furtado, **F21** 147, **H28** 52; aquatic herb; endemic.
- 207.9.10 **Cryptocoryne purpurea** Ridl., **FMP5** 87, **H28** 53; stoloniferous aquatic herb; slow forest streams; Kl, Jh; endemic.
- Cryptocoryne schulzei* de Wit [**H28** 54] and *Cryptocoryne zukalii* Rataj [**H28** 56] may also occur in Malaya.
- 207.10.1 **Cyrtosperma merkusii** (Hassk.) Schott, **H27** 430, **H28** 59; *Cyrtosperma lasioides* Griff., **FMP5** 127; herb to 4 m tall; open or shaded swampy places; Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 207.11.1 **Epipremnum giganteum** (Roxb.) Schott, **FMP5** 110, **H28** 62; stout epiphytic root climber to 20 m long; on rocks and trees in the lowlands and hills; widespread.
- 207.11.2 **Epipremnum pinnatum** (L.) Engl., **N09** 32, **H28** 65; *Epipremnum mirabile* Schott, **FMP5** 119; large climber; lowland forests; (cv. Aureum is a frequent escape from cultivation).
- 207.12.1 **Furtadoa mixta** (Ridl.) M. Hotta, **H49** 53, **H28** 66; *Homalomena mixta* Ridl., **FMP5** 110, **F21** 209; herb; lowland forest; only known from the Gg Tahan area, Ph; endemic.

- 207.13.1 **Hapaline brownii** Hook.f., **FMP5** 96, **C15** 180, **H28** 67, **B23** 72; tuberous herb to 30 cm tall; on limestone; P. Langkawi, Kd, Kl.
- 207.14.1a **Homalomena angustifolia** (Jack) Hook.f. var. **angustifolia**, **FMP5** 108, **H28** 70; *Homalomena humilis* (Jack) Hook.f. var. *pumila* (Hook.f.) Furtado, *nom. illeg.*, **F22** 203; creeping herb; on rocks in montane streams; widespread; endemic.
- 207.14.1b **Homalomena angustifolia** (Jack) Hook.f. var. **parvula** Ridl., **FMP5** 109, **H28** 70; creeping herb; Sg Teku, Gg Tahan, Ph; endemic.
- 207.14.2a **Homalomena argentea** Ridl. var. **argentea**, **FMP5** 107, **F22** 186, **H28** 70; herb; hills and mountains; Tg, NS, Ml.
- 207.14.2b **Homalomena argentea** Ridl. var. **purpurascens** Furtado, **F22** 188, **H28** 70; herb; among rocks in stream at 700 m; Gg Angsi, NS; endemic variety.
- 207.14.3 **Homalomena brevispatha** Engl., **H28** 72; herb.
- 207.14.4 **Homalomena confusa** Furtado, **F22** 189, **H28** 72; herb.
- 207.14.5 **Homalomena corneri** Furtado, **F22** 191, **H28** 73; creeping herb; on rocks above water; Sg Pelepa Kiri, Jh; endemic.
- 207.14.6 **Homalomena crassa** Ridl., **FMP5** 109, **H28** 73; fleshy herb; hill forest; Sl; endemic.
- 207.14.7 **Homalomena curtisii** Ridl., **FMP5** 108, **F22** 191, **H28** 73; erect herb; montane forest; endemic.
- 207.14.8 **Homalomena curvata** Engl., **H28** 74; herb; endemic.
- 207.14.9 **Homalomena deltoidea** Hook.f., **FMP5** 105, **F22** 192, **H28** 74; erect herb about 30 cm tall; hill and montane forest; Kd, Pn, Pk, Sl, NS, Jh; endemic.
- 207.14.10 **Homalomena elliptica** Hook.f., **FMP5** 108, **F22** 192, **H28** 74; creeping herb; lowlands and hills; Kd, Kl, Pn, Pk, Ph, Sl, NS, Ml.
- 207.14.11 **Homalomena falcata** Ridl., **FMP5** 107, **H28** 75; rhizomatous herb; on rocks in streams; Kd; endemic.
- 207.14.12a **Homalomena griffithii** (Schott) Hook.f. var. **griffithii**, **FMP5** 106, **F22** 194, **H28** 76; erect herb; lowland forest; widespread.
- 207.14.12b **Homalomena griffithii** (Schott) Hook.f. var. **obliquata** (Schott) Ridl., **H28** 76; *Homalomena obliquata* (Schott) Hook.f., **FMP5** 107; rhizomatous herb; Pn.
- 207.14.12c **Homalomena griffithii** (Schott) Hook.f. var. **ovata** (Schott) Engl., **FMP5** 107, **H28** 76; herb; lowland forest; endemic variety.

- 207.14.13 **Homalomena hendersonii** Furtado, **F22** 198, **H28** 77; erect herb; Sg Menggiri, Kl; endemic.
- 207.14.14a **Homalomena humilis** (Jack) Hook.f. var. **humilis**, **FMP5** 105, **F22** 199, **H28** 77; erect herb about 15 cm tall; hill and montane forest; widespread.
- 207.14.14b **Homalomena humilis** (Jack) Hook.f. var. **ophirensis** (Ridl.) Furtado, **F22** 203, **H28** 78; *Homalomena angustifolia* (Jack) Hook.f. var. *ophirensis* Ridl., **FMP5** 109; long creeping herb; rocky places on mountains; Kd, Ml, Jh; endemic variety.
- 207.14.14c **Homalomena humilis** (Jack) Hook.f. var. **undulata** Ridl., **FMP5** 105, **F22** 207, **H28** 78; herb; lowlands, hills and mountains; Ph.
- 207.14.15 **Homalomena johorensis** Engl., **FMP5** 106 'yohorensis', **H28** 79; herb; Gg Panti, Jh; endemic.
- 207.14.16 **Homalomena kiahii** Furtado, **F22** 207, **H28** 79; erect herb about 30 cm tall; hills and swamps; Sg Kayu and Sg Pelepah Kiri, Jh; endemic.
- 207.14.17 **Homalomena kingii** Hook.f., **H28** 79; herb.
- 207.14.18 **Homalomena lancifolia** Hook.f., **FMP5** 109, **F22** 208, **H28** 80; creeping herb; hill and montane forest; Pk, Ph, Sl; endemic.
- 207.14.19 **Homalomena major** Griff., **H28** 81; herb; endemic.
- 207.14.20 **Homalomena minor** Griff., **H28** 81; herb; endemic.
- 207.14.21 **Homalomena montana** Furtado, **F22** 210, **H28** 82; herb; Endemic.
- 207.14.22 **Homalomena multinervia** Ridl., **FMP5** 109, **H28** 82; *Homalomena elliptica* Hook.f. var. *paucinervia* Furtado, **F22** 193; creeping herb; montane forest; endemic.
- 207.14.23 **Homalomena nutans** Hook.f., **FMP5** 108, **F22** 211, **H28** 83; creeping herb; lowlands; Kl, Pk, Ph; endemic.
- 207.14.24 **Homalomena paludosa** Hook.f., **FMP5** 104, **H28** 84; herb; wet lowland forest; widespread.
- 207.14.25 **Homalomena pendula** (Blume) Bakh.f., **H28** 84; *Homalomena rubra* Hassk., **F22** 217; erect herb to 60 cm tall; lowland forest; Kl, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 207.14.26 **Homalomena pontederiifolia** Griff. ex Hook.f., **H28** 85; *Homalomena coerulescens* Jungh. ex Miq. var. *pontederiifolia* (Griff. ex Hook.f.) Ridl., **FMP5** 104; herb; lowland forest; Ml, Sp; endemic.
- 207.14.27a **Homalomena pygmaea** (Hassk.) Engl. var. **latifolia** (Engl.) Engl., **H28** 86; herb.

- 207.14.27b **Homalomena pygmaea** (Hassk.) Engl. var. **pumila** (Hook.f.) Engl., **H28** 86; herb; endemic.
- 207.14.27c **Homalomena pygmaea** (Hassk.) Engl. var. **purpurascens** (Hook.f.) Engl., **H28** 86; *Homalomena purpurascens* (Schott) Hook.f., **FMP5** 105 incl. var. *pumila* (Hook.f.) Ridl.; herb.
- 207.14.27d **Homalomena pygmaea** (Hassk.) Engl. var. **pygmaea**, **H28** 86; herb.
- 207.14.28 **Homalomena repens** Ridl., **FMP5** 106, **H28** 87; long creeping herb; on rocks; Gg Inas, Pk; endemic.
- 207.14.29 **Homalomena rostrata** Griff., **FMP5** 103, **F22** 225, **H28** 87; herb to 1 m tall; damp places in lowland forest; widespread; endemic.
- 207.14.30a **Homalomena sagittifolia** Jungh. ex Schott var. **angustifolia** Furtado, **F22** 228, **H28** 88; herb.
- 207.14.30b **Homalomena sagittifolia** Jungh. ex Schott var. **sagittifolia**, **FMP5** 103, **F22** 226, **H28** 88; herb to 1 m tall; lowland forest; Tg, Pk, Ph, Sl, NS, Jh, Sp.
- 207.14.31 **Homalomena scortechinii** Hook.f., **FMP5** 109 in part, **F22** 213, **H28** 89; herb; forest; Kl, Pk, Ph, Sl, NS, Jh; endemic.
- 207.14.32 **Homalomena trapezifolia** Hook.f., **FMP5** 107, **H28** 91; creeping herb; Pk, Ml; endemic.
- 207.14.33 **Homalomena undulatifolia** Ridl., **FMP5** 106, **H28** 91; small herb; lowland forest; Pk; endemic.
- 207.14.34 **Homalomena wallichii** Schott, **H28** 91; herb; endemic.
- 207.15.1 **Lasia spinosa** (L.) Thw., **H27** 459, **H28** 93; *Lasia aculeata* Lour., **FMP5** 125; clumping herb to 1.5 m tall; open wet places in the lowlands; Ps, Kd, Pn, Pk, Ph, Sl, Jh, Sp.
- 207.16.1 **Piptospatha elongata** (Engl.) N.E. Br., **H28** 96; herb.
- 207.16.2 **Piptospatha perakensis** (Engl.) Engl., **FMP5** 114, **H28** 97; herb to 50 cm tall; on rocks in flowing rivers and streams; widespread.
- 207.16.3a **Piptospatha ridleyi** N.E. Br. var. **lanceolata** Ridl., **FMP5** 114, **H28** 97; herb to 50 cm tall; on rocks in forest streams; Ulu Kahang, Jh; endemic.
- 207.16.3b **Piptospatha ridleyi** N.E. Br. var. **ridleyi**, **FMP5** 114, **H28** 97; herb to 50 cm tall; on rocks in forest streams; Sl, Jh; endemic.
- 207.17.1 **Pistia stratiotes** L., **FMP5** 85, **M47** 52, **H28** 98; stoloniferous floating herb; ponds, ditches and rivers; widespread; origin uncertain.

- 207.18.1 **Podolasia stipitata** N.E.Br., **FMP5** 125, **H27** 463, **H28** 99; rhizomatous herb; peaty sites in the lowlands and mountains; Kl, Pk, Jh.
- 207.19.1 **Pothos barberianus** Schott, **FMP5** 129 incl. var. **wallichii** (Hook.f.) Ridl., **H28** 100; *Pothos ellipticus* (non Moon ex Miq.) Ridl., **FMP5** 129; *Pothos ridleyanus* Furtado, **F21** 150; slender root climber; lowland forest; Pk, Ph.
- 207.19.2 **Pothos grandispathus** Ridl., **FMP5** 131, **H28** 103; root-climber; hill forest; Penang Hill; endemic.
- 207.19.3 **Pothos inaequalis** Ridl., **FMP5** 130, **H28** 103; slender root climber; river banks; Ph; endemic.
- 207.19.4 **Pothos junghuhnii** de Vriese, **H28** 104; climbing herb.
- 207.19.5 **Pothos kingii** Hook.f., **FMP5** 131, **H28** 104; large root climber; montane forest; Taiping Hills, Pk; endemic.
- 207.19.6 **Pothos lancifolius** Hook.f., **H28** 104; root climber.
- 207.19.7 **Pothos lorispatha** Ridl., **FMP5** 130, **C15** 181, **H28** 106; slender root climber; only known from Gua Batu, Sl; endemic.
- 207.19.8 **Pothos macrocephalus** Scort. ex Hook.f., **FMP5** 128, **C15** 182, **H28** 106; slender root climber; rocks (including limestone) and trees in lowland forest; widespread.
- 207.19.9 **Pothos peninsularis** Alderw., **H28** 108; *Pothos latifolius* (non L.) Hook.f., **FMP5** 129; slender root climber; trees in lowland and hill forest; widespread; endemic.
- 207.19.10 **Pothos rumphii** Schott, **F21** 150, **H28** 109; creeper; on rocks; P Tioman. [the identity of this species seems unlikely given the East Malesian distribution of this species].
- 207.19.11 **Pothos salicifolius** Ridl., **FMP5** 130, **H28** 109; root-climber; montane forest; Fraser's Hill, Ph; endemic.
- 207.19.12 **Pothos scandens** L., **FMP5** 127, **N09** 25, **H28** 109; root climber; on trees and rocks including limestone; north of Peninsula.
- 207.20.1 **Rhaphidophora beccarii** (Engl.) Engl., **FMP5** 124, **H28** 112; short-creeping herb; on rocks in lowland streams, or low on tree trunks; Pk, Ph, Sl.
- 207.20.2 **Rhaphidophora burkilliana** Ridl., **FMP5** 121, **H28** 112; creeping herb; on rocks (?limestone); Batu Caves, Sl; endemic.
- 207.20.3 **Rhaphidophora caudata** (Roxb.) Schott, **H28** 113; herb; endemic.
- 207.20.4 **Rhaphidophora crassifolia** Hook.f., **FMP5** 122, **H28** 113; large root-climber; lowland forest; Pk, Ph; endemic.

- 207.20.5 **Rhaphidophora foraminifera** (Engl.) Engl., **FMP5** 123, **H28** 115; stout climber; hill and montane forest; Pk.
- 207.20.6 **Rhaphidophora gracilipes** Hook.f., **FMP5** 121, **H28** 116; large climber; lowland forest; Pk; endemic.
- 207.20.7 **Rhaphidophora korthalsii** Schott, **FMP5** 124 incl. var. **angustiloba** Ridl. ex Engl. & K. Krause, **H28** 117; long climber; lowland and hill forest; widespread.
- 207.20.8 **Rhaphidophora kunstleri** Hook.f., **FMP5** 123, **C15** 183, **H28** 118; thick-stemmed root climber; on limestone; Pk; endemic.
- 207.20.9 **Rhaphidophora lobbii** Schott, **FMP5** 122, **H28** 119; long slender climber; on rocks and trees in lowland forest; Ml, Jh, Sp.
- 207.20.10 **Rhaphidophora maingayi** Hook.f., **FMP5** 123, **F21** 153, **H28** 119; root-climber; on rocks and trees in lowland forest; Pn, Sl, Ml, Sp.
- 207.20.11 **Rhaphidophora minor** Hook.f., **FMP5** 121, **H28** 119; slender climber; on trees along tidal rivers; Ph, Jh, Sp.
- 207.20.12 **Rhaphidophora pteropoda** (Teijsm. & Binn.) Engl., **FMP5** 123, **H28** 123; root-climber; lowland and hill forest; Pn, Pk, Sl.
- 207.20.13 **Rhaphidophora scortechinii** Hook.f., **FMP5** 122, **H28** 124; slender creeper; on rocks; Pk; endemic.
- 207.20.14 **Rhaphidophora tetrasperma** Hook.f., **FMP5** 124, **H28** 126; root climber; hill forest; Pk, Ph.
- 207.20.15 **Rhaphidophora wrayi** Hook.f., **FMP5** 122, **H28** 127; large woody root-climber; hill forest; Pn, Pk, Ph, Sl.
- 207.21.1 **Schismatoglottis brevicuspis** Hook.f., **FMP5** 113, **H28** 130; creeping herb; hill forest; widespread; endemic.
- 207.21.2 **Schismatoglottis brevipes** Hook.f., **H28** 130; *Schismatoglottis minor* Hook.f., **FMP5** 113; long-creeping herb; Pk.
- 207.21.3 **Schismatoglottis calyptrata** (Roxb.) Zoll. & Moritzi, **FMP5** 111 incl. vars *concolor* Hallier f. var. *picta* auct. non (Schott) Hallier f. and *ornata* Ridl. ex Engl., **H28** 130; *Schismatoglottis cordifolia* Ridl., **FMP5** 111, **H28** 130; herb to 60 cm tall; rocky places in lowland forest; widespread.
- 207.21.4 **Schismatoglottis longifolia** Ridl., **FMP5** 114, **H28** 138; herb to 1 m tall; hill forests; Pk; endemic.

- 207.21.5 **Schismatoglottis mutata** Scort. ex Hook.f., **FMP5** 111, **H28** 140; *Schismatoglottis linguiformis* Engl., **FMP5** 112, **H28** 138; *Schismatoglottis ridleyana* Engl., **FMP5** 112, **H28** 143; herb to 1 m tall; lowland and hill forest and limestone rocks; Pk, Ph, Sl; endemic.
- 207.21.6 **Schismatoglottis scortechinii** Hook.f., **FMP5** 113, **H28** 145; *Schismatoglottis marginata* (non Engl.) Ridl., **FMP5** 113, **H28** 139; *Schismatoglottis kingii* Engl., **H28** 136; herb to 30 cm tall; lowland and hill forest; Pk, Ph, Sl, Jh; endemic.
- 207.21.7 **Schismatoglottis wallichii** Hook.f., **FMP5** 112 incl. vars. *fasciata* Ridl. and *oblongata* Hook.f., **H28** 147; herb about 20 cm tall; lowland and hill forest; widespread.
- 207.22.1 **Scindapsus beccarii** Engl., **FMP5** 116, **H28** 149; climber; on rocks above tidal rivers; Pn, Tg, Pk.
- 207.22.2 **Scindapsus hederaceus** Miq., **FMP5** 117, **H28** 151; climber to 10 m tall; on rocks and trees in the lowlands; widespread.
- 207.22.3 **Scindapsus perakensis** Hook.f., **FMP5** 118, **H28** 153; climber to 15 m; hill forest; Pk, Sl, Ml.
- 207.22.4 **Scindapsus pictus** Hassk., **FMP5** 117, **H28** 153; slender climber reaching canopy; lowland forests; widespread.
- 207.22.5 **Scindapsus rupestris** Ridl., **FMP5** 118, **H28** 154; climber; on rocks; Pk, Ml. [var. *siamensis* (Engl.) Engl. may occur in our area as well as var. *rupestris*].
- 207.22.6 **Scindapsus scortechinii** Hook.f., **FMP5** 117, **H28** 155; slender creeper; climbing over rocks and trees in hill forest; Kd, Pk, Ph, Sl.
- 207.22.7 **Scindapsus treubii** Engl., **H28** 155; creeping herb.
- 207.23.1 **Typhonium filiforme** Ridl., **FMP5** 91, **S35** 300, **H28** 158; tuberous herb to 20 cm tall; on limestone; Bt Lagi, Ps; Kuah, P. Langkawi; Kuala Dipang, Pk.
- 207.23.2 **Typhonium flagelliforme** (Lodd.) Blume, **N10** 489, **S35** 303, **H28** 158; *Typhonium cuspidatum* (Blume) Blume, **FMP5** 91 incl. var. *angustissimum* (Ridl.) Ridl.; tuberous herb to 20 cm tall; grassy places, waste ground; Pn, Ml, Sp.
- 207.23.3 **Typhonium fultum** Ridl., **FMP5** 91, **C15** 183, **S35** 304, **H28** 158; small herb to 10 cm tall; damp shady spots on limestone; P. Langkawi, Ph, Sl.
- 207.23.4 **Typhonium roxburghii** Schott, **FMP5** 90, **N10** 492, **S35** 305, **H28** 160; tuberous herb to 30 cm tall; open weedy places; Pn, Ml, Sp.

- 207.23.5 **Typhonium trilobatum** (L.) Schott, **FMP5** 90, **N10** 488, **S35** 306, **M47** 54, **H28** 160; tuberous herb to 40 cm tall; waste places; Ps, Kl, Pk, Ph, (Sp introduced).
208. **ASPARAGACEAE**
- 208.1.1 **Asparagus racemosus** Willd., **FMP4** 331, **FM19** 216; scandent thorny shrub; on limestone; collected once on P. Langkawi.
209. **BURMANNIACEAE**
- 209.1.1 **Burmannia championii** Thwaites, **FMP4** 306, **FM14** 17, **C15** 184; *Burmannia tuberosa* Becc., **FMP4** 306; small saprophytic herb; shady hollows in forest, including on limestone; widespread.
- 209.1.2 **Burmannia caelestis** Don, **FMP4** 304, **FM14** 17; herb to 30 cm tall; grassy places; widespread.
- 209.1.3 **Burmannia disticha** L., **FMP4** 304, **FM14** 16; herb to 75 cm tall; high mountains; widespread.
- 209.1.4 **Burmannia longifolia** Becc., **FMP4** 304, **FM14** 16; herb 12–50 cm tall; damp places in montane forest; widespread.
- 209.1.5 **Burmannia lutescens** Becc., **FM14** 19; *Burmannia gracilis* Ridl., **FMP4** 305; saprophytic herb to 23 cm tall.
- 209.1.6 **Burmannia oblonga** Ridl., **FMP4** 305, **FM14** 18; saprophytic herb 7–15 cm tall; montane forest to 1300 m; Pn, Sl.
- 209.1.7 **Burmannia sphagnoides** Becc., **FM14** 17; saprophytic herb 4–12 cm tall; forest.
- 209.1.8 **Burmannia wallichii** (Miers) Hook.f., **FMP4** 305, **S75** 333; saprophytic herb; lowland forest; Sp.
Saunders has recently confirmed the occurrence of this species in Singapore, increasing the number of Malayan species of *Burmannia* to eight.
- 209.2.1 **Gymnosiphon aphyllus** Blume, **FMP4** 306, **FM14** 20; achlorophyllous saprophytic herb to 17 cm tall; damp lowland forest; widespread.
- 209.3.1 **Thismia alba** Holttum ex Jonker, **FM14** 23; saprophytic herb to 10 cm tall; Ph; endemic.
- 209.3.2 **Thismia arachnites** Ridl., **FMP4** 307, **FM14** 24; saprophytic herb to 10 cm tall; hill forest; Pk, Ph; endemic.

- 209.3.3 **Thismia aseroe** Becc., **FMP4** 308, **FMi4** 23; saprophytic herb to 10 cm tall; lowland forest; Pk, Sp; endemic.
- 209.3.4 **Thismia chrysops** Ridl., **FMP4** 308, **FMi4** 22; saprophytic herb to 15 cm tall; on rotten logs in hill forest at 900 m; collected once on Gg Ledang, Ml; endemic.
- 209.3.5 **Thismia clavigera** (Becc.) F. Muell., **S69** 211, **S51** 420, **FMi9** 555; saprophytic herb to 10 cm tall; lowland secondary forest; once from the base of Gg Raya, P. Langkawi.
- 209.3.6 **Thismia fumida** Ridl., **FMP4** 307, **FMi4** 23; saprophytic herb to 10 cm tall; among dead leaves in dense forest; Sl, Sp; endemic.
- 209.3.7 **Thismia grandiflora** Ridl., **FMP4** 308, **FMi4** 22; saprophytic herb to 3 cm tall; once from Bt Tana Abang, Jh; endemic.
- 209.3.8 **Thismia racemosa** Ridl., **FMP4** 308, **FMi4** 22; tufted saprophytic herb about 5 cm tall; low ground near swamp; once from near Temerloh, Ph; endemic.

210. CANNACEAE

- 210.1.1 **Canna indica** L., **M01** 6; herb to 150 cm tall; waste places; common escape; naturalized.

211. COMMELINACEAE

- 211.1.1 **Amischotolype glabrata** Hassk.; **H24** 392; *Forrestia glabrata* (Hassk.) Hassk., **FMP4** 360; herb; montane forest.
- 211.1.2 **Amischotolype gracilis** (Ridl.) I.M. Turner, **T18** 53; *Forrestia gracilis* Ridl., **FMP4** 359; slender herb to 1 m tall; lowland forest; widespread.
- 211.1.3 **Amischotolype griffithii** (C.B. Clarke) I.M. Turner, **T24** 221; *Forrestia griffithii* C.B. Clarke, **FMP4** 360; herb to 1 m tall; lowland forest; widespread.
- 211.1.4 **Amischotolype irritans** (Ridl.) I.M. Turner, **T24** 221; *Forrestia irritans* Ridl., **FMP4** 361; herb with red spiny hairs; montane forest; Pk, Sl; ? Endemic.
- 211.1.5 **Amischotolype marginata** Hassk.; **H24** 392, **T18** 53; *Forrestia marginata* (Hassk.) Hassk., **FMP4** 360; creeping herb to 2 m long; wet rocky lowland forest; widespread.
- 211.1.6 **Amischotolype mollissima** (Blume) Hassk.; **H24** 392; *Forrestia mollis* Hassk., **FMP4** 360; herb; lowland and hill forest.

- 211.1.7 **Amischotolype monosperma** (C.B. Clarke) I.M. Turner, **T24** 221; *Forrestia monosperma* C.B. Clarke, **FMP4** 360; herb to over 1 m tall; damp rocky forest including on limestone; Kl, Ph; endemic.
- 211.2.1 **Belosynapsis ciliata** (Blume) R.S. Rao, **R06** 187; *Cyanotis capitata* (Blume) C.B. Clarke, **FMP4** 358; creeping herb; grassy forest margins; widespread.
- 211.3.1 **Commelina attenuata** J. König, **FMP4** 352; tufted creeping herb; sandy shores; Sp.
- 211.3.2 **Commelina benghalensis** L., **FMP4** 353, **M47** 128; creeping herb reaching 30 cm tall; common weed; widespread.
- 211.3.3 **Commelina caroliniana** Walter, **F04** 50; *Commelina hasskarlii* C.B. Clarke, **FMP4** 352; herb; Tg.
- 211.3.4 **Commelina clavata** C.B. Clarke, **FMP4** 353; creeping herb; damp open spots.
- 211.3.5 **Commelina diffusa** Burm.f., **B04** 21, **M47** 130; *Commelina nudiflora* auct. non L., **FMP4** 350; slender long-creeping herb; common in grassy places; throughout.
- 211.3.6 **Commelina longifolia** Lam., **B04** 20; *Commelina salicifolia* Roxb., **FMP4** 353; slender herb; fallow rice-fields; Ps.
- 211.3.7 **Commelina paludosa** Blume, **R06** 181; *Commelina obliqua* (non Vahl) Buch.-Ham. ex D. Don, **FMP4** 354; herb about 30 cm tall; lowland and hill forest; widespread.
- 211.3.8 **Commelina sikkimensis** C.B. Clarke, **FMP4** 352; slender creeping herb; open places; north of Malaya.
- 211.3.9 **Commelina suffruticosa** Blume, **FMP4** 353; rhizomatous herb to 30 cm tall; Kl.
- 211.4.1 **Cyanotis axillaris** (L.) Sweet, **FMP4** 358, **F03** 295, **M47** 132; red-stemmed herb to 60 cm tall; rice-fields; Ps, Kl.
- 211.4.2 **Cyanotis cristata** (L.) D. Don, **FMP4** 358, **M47** 134; *Cyanotis barbata* D. Don, **FMP4** 358; tufted creeping herb to 30 cm tall; sandy or grassy spots; widespread.
- 211.5.1 **Dictyospermum conspicuum** (Blume) Hassk., **F05** 152; *Aneilema conspicuum* (Blume) Kunth, **FMP4** 357; erect herb to 50 cm tall; lowland forest; widespread.
- 211.5.2 **Dictyospermum ovatum** Hassk., **F05** 155; *Aneilema subovatum* Ridl., **FMP4** 357; creeping herb to 20 cm tall; Ps, P. Langkawi.

- 211.6.1 **Floscopa scandens** Lour., **FMP4** 359; creeping herb to 30 cm tall; common in muddy ditches; widespread.
- 211.7.1 **Murdannia clandestina** (Ridl.) Faden, **F05** 152; *Aneilema clandestinum* Ridl., **FMP4** 255; creeping herb about 30 cm long; swampy place; Temengoh, Pk; endemic.
- 211.7.2 **Murdannia gigantea** (Vahl) Brückner, **F05** 153; *Aneilema giganteum* (Vahl) R.Br., **FMP4** 356; herb to 60 cm tall; dry rocky and sandy spots; Ps, Kd, Jh.
- 211.7.3 **Murdannia japonica** (Thunb.) Faden, **F02** 142, **F05** 154; *Aneilema lineolatum* (Blume) Kunth, **FMP4** 354; herb to 60 cm tall; lowland forest; north of Malaya.
- 211.7.4 **Murdannia nudiflora** (L.) Brenan, **F05** 154; *Aneilema nudiflorum* (L.) Sweet, **FMP4** 355; slender creeping herb to about 30 cm long; weed of dry sandy ground; throughout.
- 211.7.5 **Murdannia vaginata** (L.) Brückner, **F05** 155; *Aneilema giganteum* (L.) Wall., **FMP4** 356; tufted herb to 25 cm tall; open sandy places; widespread.
- 211.7.6 **Murdannia wightii** R.S. Rao & Kammathy, **R06** 184; *Aneilema pauciflorum* (*non* Dalzell) Wight, **FMP4** 355; small herb; once from Kuah, P. Langkawi.
- 211.8.1 **Pollia secundiflora** (Blume) Backer, **B04** 17; *Pollia sorzogonensis* (E.Mey.) Steud., **FMP4** 351; herb to 1.5 m tall; lowland and hill forest; widespread.
- 211.8.2 **Pollia subumbellata** C.B. Clarke, **FMP4** 350, **C15** 185; slender herb to 1 m tall; on limestone; Ps, Kd, ?Ph.
- 211.8.3 **Pollia sumatrana** Hassk., **FMP4** 350; herb to 30 cm tall; lowland forest, including over limestone; Pk.
- 211.8.4 **Pollia thyrsoiflora** (Blume) Steud., **FMP4** 350; herb to 60 cm tall; damp hill forest; Ph, Pk, Sl.
- 211.9.1 **Rhopalephora scaberrima** (Blume) Faden, **F01** 480; *Aneilema protensum* (Wight) Wall. *ex* C.B. Clarke, **FMP4** 357; herb to 60 cm tall; damp places in forest; Ph.
- 211.10.1 **Spatholirion ornatum** Ridl., **FMP4** 362; succulent herb; lowland forest; once from Pergau Dam, Kl.
- 211.11.1 **Tradescantia spathacea** Sw., **H56** 402; *Rhoeo spathacea* (Sw.) W.T. Stearn, **C15** 185; herb 30–60 cm tall; limestone cliff faces; Pk; naturalized from Central America.

212. CONVALLARIACEAE

- 212.1.1 **Disporum cantoniense** (Lour.) Merr., **FMI9** 218; *Disporum pullum* Salisb., **FMP4** 338; rhizomatous herb reaching 80 cm tall; hill forest; Pk, Ph.
- 212.2.1 **Ophiopogon caulescens** (Blume) Backer, **FMI9** 226; *Ophiopogon intermedius* D. Don var. *macranthus* Ridl., **FMP4** 327; *Ophiopogon malayanus* Ridl., **FMP4** 327; *Ophiopogon prolifera* Lindl., **FMP4** 327; grassy-leaved rhizomatous herb; montane forest; several locations but rare.
- 212.3.1a **Peliosanthes teta** Andrews ssp. *humilis* (Andrews) Jessop, **FMI9** 229; *Peliosanthes violacea* Wall. ex Baker, **FMP4** 324; *Peliosanthes albida* Baker, **FMP4** 325; *Peliosanthes lurida* Ridl., **FMP4** 325; *Peliosanthes monticola* Ridl., **FMP4** 325; *Peliosanthes viridis* Ridl., **FMP4** 325; *Peliosanthes grandifolia* Ridl., **FMP4** 326; *Peliosanthes parviflora* Ridl., **FMP4** 326; *Peliosanthes stellaris* Ridl., **FMP4** 326; stemless herb with short rhizome, about 50 cm tall; lowland and montane forest; throughout.
- 212.3.1b **Peliosanthes teta** Andrews ssp. *teta*, **FMI9** 228; *Peliosanthes teta* Andrews var. *angustifolia* Ridl., **FMP4** 323; stemless herb with short rhizome, about 50 cm tall; lowland and montane forest; P. Langkawi, Pn, Ph, Sl.
- 212.4.1 **Tricalistra ochracea** Ridl., **FMP4** 331, **FMI9** 221; stemless plant to 40 cm tall with woody rhizome; dense montane forest; known only from the Cameron Highlands, Ph; endemic monospecific genus.
- 212.5.1 **Tupistra grandis** Ridl., **FMP4** 330, **FMI9** 223; stemless herb to 50 cm tall; wet rocky places on limestone; P. Langkawi, Kl, Pk, Ph, Sl.
- 212.5.2 **Tupistra violacea** Ridl., **FMP4** 330, **FMI9** 221; stemless herb to 60 cm tall; hill and montane forest; Penang Hill and Gg Bujong Malacca, Pk; endemic.

213. COSTACEAE

- 213.1.1a **Costus globosus** Blume var. *kingii* (Baker.) Holttum, **H41** 244; *Costus kingii* Bak., **FMP4** 257; herb to more than 3 m tall; lowland forests; Pn, Pk, Ph, Sl; endemic variety.
- 213.1.1b **Costus globosus** Blume var. *ridleyi* (K. Schum.) Holttum, **H41** 244; *Costus globosus sensu* Ridl., **FMP4** 256; herb to more than 3 m tall; damp lowland forests; Pk, Ph, Sl, NS, Jh, Sp.
- 213.1.1c **Costus globosus** Blume var. *velutinus* (Ridl.) Holttum, **H41** 244; *Costus velutinus* Ridl., **FMP4** 257; herb to more than 3 m tall; damp lowland forests; Pk; endemic variety.
- 213.1.2 **Costus oligophyllus** K. Schum., **H41** 242; *Costus kunstleri* Ridl., **FMP4** 257; herb to 50 cm tall; hill forest; poorly known; Pk; endemic.

- 213.1.3 **Costus speciosus** (J. König) Sm., **FMP4** 256, **H41** 242 incl. var. *sericeus* (Blume) K. Schum.; herb 2–3 m tall; common at margins of lowland forests; widespread.

214. CYMODOCEACEAE

- 214.1.1 **Cymodocea rotundata** Ehrenb. & Hempr., **D24** 166; sea grass; NS, Sp.
- 214.1.2 **Cymodocea serrulata** (R.Br.) Asch. & Magnus, **D24** 171; sea grass; Jh, Sp.
- 214.2.1 **Halodule pinifolia** (Miki) Hartog, **D24** 158; sea grass; Sp.
- 214.2.2 **Halodule uninervis** (Forssk.) Asch., **D24** 147; sea grass; Sp.
- 214.3.1 **Syringodium isoetifolium** (Asch.) Dandy, **D24** 177; sea grass on muddy bottoms; Sp.

215. CYPERACEAE

- 215.1.1 **Actinoschoenus thouarsii** (Kunth) Benth., **FMi7** 591 in synonymy; *Actinoschoenus filiformis* (Thwaites) Benth., **FMP5** 165; *Fimbristylis thouarsii* (Kunth) Merr., **FMi7** 591; very densely tufted herb to 75 cm; sandy or rocky places usually below 500 m; Kd, Pn, Pk, Ph, Ml, Jh.
- 215.2.1 **Actinoscirpus grossus** (L.f.) Goetghebeur & D.A. Simpson, **G09** 171; *Scirpus grossus* L.f., **FMP5** 162, **FMi7** 498, **M47** 260; *Schoenoplectus grossus* (L.f.) Palla, **K66** 154; herb to 2 m tall; swamps, lake margins, to 850 m; widespread.
- 215.3.1 **Bulbostylis barbata** (Rottb.) C.B. Clarke, **FMP5** 160, **FMi7** 539, **M47** 144; herb; sea shore; throughout Malaya.
- 215.3.2 **Bulbostylis puberula** (Poir.) C.B. Clarke, **FMP5** 160, **FMi7** 540, **M47** 146; herb; sea shore; widespread.
- 215.4.1 **Carex baccans** Nees, **FMP5** 184, **FMi9** 137; rhizomatous herb 60–150 cm tall; montane forest above 1000 m; Ph.
- 215.4.2 **Carex breviscapa** C.B. Clarke, **FMi9** 148; *Carex curtisii* Ridl., **FMP5** 183; herb 5–20 cm tall; lowland and hill forest to 1250 m; Pn, Ph, NS.
- 215.4.3a **Carex cruciata** Wahlenb. var. *cruciata*, **FMP5** 185 incl. var. *condensata* Ridl., **FMi9** 120; herb to 2 m; montane rain forest at 1100–1500 m; Pk, Ph.
- 215.4.3b **Carex cruciata** Wahlenb. var. *rafflesiana* (Boott) Noot., **FMi9** 122; *Carex clarkeana* Kük., **FMP5** 183; herb; lowland and montane forest at 500–2400 m.

- 215.4.4 **Carex cryptostachys** Brongn., **FMP5** 181, **FMi9** 148; herb 10–50 cm tall; lowland rain forest usually at 350–1200 m; Pn, Pk, Ph, Jh, Sp.
- 215.4.5 **Carex filicina** Nees, **FMi9** 122; rhizomatous herb; wet open places in the mountains above 1300 m; Ph.
- 215.4.6 **Carex gracilispica** Hayata, **FMi9** 149; *Carex ligata* auct. non Boott, **FMP5** 181; herb 10–30 cm tall; montane forest near streams at 1700 m; Gg Tahan, Ph.
- 215.4.7 **Carex indica** L., **FMP5** 185 incl. vars. *laetebrunnea* C.B. Clarke and *fissilis* (Boott) Kük., **FMi9** 126; herb to 1 m tall; damp places in forest to 1000 m; Ph, Jh.
- 215.4.8 **Carex maculata** Boott, **FMi9** 157; open wet places in mountains; above 1600 m; Ph.
- 215.4.9 **Carex malaccensis** C.B. Clarke, **FMP5** 183, **C15** 187, **FMi9** 153; tufted herb to 60 cm; sea shore and on limestone inland; P. Langkawi; endemic.
- 215.4.10a **Carex perakensis** C.B. Clarke var. *borneensis* (C.B. Clarke) Noot., **FMi9** 141; *Carex breviglumis* Ridl., **FMP5** 183; herb 40–140 cm; montane forest; Ph.
- 215.4.10b **Carex perakensis** C.B. Clarke var. *perakensis*, **FMP5** 184, **FMi9** 140; *Carex arridens* C.B. Clarke, **FMP5** 184; *Carex rivulorum* (non Dunn) Ridl., **FMP5** 184; herb to almost 2 m tall; swampy places and lowland forest; Pk, Ph, Sl.
- 215.4.11 **Carex speciosa** Kunth, **C15** 187, **FMi9** 155; tufted herb to 50 cm tall; in sheltered crevices on limestone; Kl, Ph.
- 215.4.12 **Carex verticillata** Zoll. & Moritzi, **FMi9** 143; *Carex walkeri* Arn. ex Boott, **FMP5** 184; herb 25–100 cm tall; damp, open places in montane forest; Gg Kerbau, Pk.
- 215.5.1 **Cyperus babakan** Steud., **FMi7** 613, **M47** 150; *Cyperus babakensis* Steud. ex Miq., **FMP5** 144; herb to 90 cm tall; swamps, forest and rice fields up to 100 m; Kl, Pn, Pk, Ph, Sl, Ml.
- 215.5.2 **Cyperus castaneus** Willd., **FMP5** 141, **FMi7** 630; small herb to 15 cm; sandy localities to 300 m; Kl, Pk.
- 215.5.3 **Cyperus compactus** Retz., **FMi7** 638, **M47** 156; *Mariscus microcephalus* Presl, **FMP5** 149; *Mariscus compactus* (Retz.) Bold., **K70** 228; herb usually about 50 cm tall; swamps and other wet places up to 500 m; common near rivers and the sea.
- 215.5.4 **Cyperus compressus** L., **FMP5** 144, **FMi7** 617, **M47** 158; herb up to 50 cm tall; weed of cultivation, particularly paddy fields, to 700 m; common throughout Malaya.

- 215.5.5 **Cyperus cuspidatus** Kunth, **FMi7** 629; *Cyperus uncinatus* auct. non Poir., **FMP5** 141; small herb to 15 cm; weed of dry sandy places to 1100 m; throughout.
- 215.5.6 **Cyperus cyperinus** (Retz.) J.V. Suringar, **FMi7** 641; *Mariscus cyperinus* (Retz.) Vahl, **FMP5** 149, **K70** 233; herb to about 50 cm tall; waste ground to 1300 m; common throughout.
- 215.5.7 **Cyperus cyperoides** (L.) Kuntze, **FMi7** 642, **M47** 160; *Mariscus sieberianus* Nees ex C.B. Clarke, **FMP5** 148 incl. var. *evolutior* C.B. Clarke in part, and var. *subcomposita* C.B. Clarke; *Mariscus sumatrensis* (Retz.) J. Raynal, *basionym illeg.*, **K70** 232; *Mariscus macrocarpus* Kunth, **D41** 449; herb to 75 cm; waste grassy places, often a weed, to 1800 m; throughout.
- 215.5.8 **Cyperus difformis** L., **FMP5** 142, **FMi7** 629, **M47** 162; herb about 40 cm tall; weed of ricefields; Kl.
- 215.5.9 **Cyperus digitatus** Roxb., **FMi7** 601, **M47** 164; *Mariscus sieberianus* var. *evolutior* auct. non C.B. Clarke, **FMP5** 149 in part; herb to about 150 cm; wet places in the lowlands to 800 m.
- 215.5.10 **Cyperus distans** L.f., **FMP5** 145, **FMi7** 610, **M47** 166; herb to about 50 cm; damp open places to 1800 m; common throughout.
- 215.5.11 **Cyperus dubius** Rottb., **FMi7** 643; *Mariscus dregeanus* Kunth, **FMP5** 148; *Mariscus dubius* (Rottb.) Kük., **K70** 237; small herb up to 50 cm; sandy beaches; all coasts.
- 215.5.12 **Cyperus elatus** L., **FMP5** 148, **FMi7** 601, **M47** 168; *Cyperus digitatus* auct. non Roxb., **FMP5** 147; *Cyperus radiatus* auct. non Vahl, **FMP5** 147 in part; herb about 100 cm tall; open wet places to 700 m.
- 215.5.13 **Cyperus exaltatus** Retz., **FMi7** 602; herb 100–180 cm tall; open wet places at low altitudes; Pn, Sp.
- 215.5.14a **Cyperus haspan** L. ssp. *haspan*, **FMi7** 625, **M47** 172; *Cyperus haspan* L., **FMP5** 142 in part; herb to 50 cm; wet places, frequent weed, to 1900 m; common throughout.
- 215.5.14b **Cyperus haspan** L. ssp. *juncoides* (Lam.) Kük., **FMi7** 625; *Cyperus haspan* L., **FMP5** 142 in part; herb to 100 cm; wet places to 1900 m; throughout.
- 215.5.15 **Cyperus imbricatus** Retz., **FMi7** 603, **M47** 174; *Cyperus radiatus* Vahl, **FMP5** 147 in part; herb to 100 cm tall; open wet places in the lowlands; scattered.
- 215.5.16 **Cyperus iria** L., **FMP5** 143, **FMi7** 616, **M47** 176; herb to about 50 cm; open wet places to 700 m; common throughout.

- 215.5.17 **Cyperus javanicus** Houtt., **FMi7** 635; *Mariscus albescens* Gaudich., **FMP5** 149; *Mariscus javanicus* [*non* (Moritzi) Kuntze] (Houtt.) Merr. & F.P. Metcalf, **K70** 227; herb to about 70 cm tall; mangrove, sea shore, occasionally inland; west coast of Peninsula.
- 215.5.18a **Cyperus laxus** Lam. var. **laxus**, **R10** 277; *Cyperus diffusus* Vahl, **FMP5** 142, **FMi7** 619; herb to about 80 cm; lowland forest and shady places to 700 m; throughout.
- 215.5.18b **Cyperus laxus** Lam. var. **macrostachyus** (Boeck.) Karth., **K02** 46; *Cyperus diffusus* Vahl var. *pubisquama* Hook.f., **FMP5** 143; *Cyperus diffusus* Vahl var. *macrostachyus* Boeck., **FMi7** 619; herb; lowland forest to 700 m; throughout Malaya.
- 215.5.19 **Cyperus malaccensis** Lam., **FMP5** 147, **FMi7** 613, **M47** 180; herb to nearly 200 cm; mostly on tidal mud; common on all coasts.
- 215.5.20 **Cyperus odoratus** L., **FMi7** 645, **M47** 182; *Mariscus sieberianus* var. *evolutionior auct. non* C.B. Clarke, **FMP5** 149 in part; herb to 100 cm tall; open wet places at low altitudes.
- 215.5.21 **Cyperus pilosus** Vahl, **FMP5** 144, **FMi7** 611, **M47** 184; herb to about 50 cm tall; common in open wet places to 1500 m; throughout.
- 215.5.22 **Cyperus platystylis** R.Br., **FMP5** 141, **FMi7** 618, **M47** 186; herb to 80 cm tall; very wet places in the lowlands.
- 215.5.23 **Cyperus procerus** Rottb., **FMP5** 147, **FMi7** 611, **M47** 190; *Pycneus puncticulatus auct. non* Nees, **FMP5** 140; herb to about 125 cm tall; open damp or wet places, often near the sea.
- 215.5.24 **Cyperus pulcherrimus** Willd. *ex* Kunth, **FMP5** 142, **FMi7** 624; tufted herb to 40 cm tall; damp spots and paddy fields to 750 m.
- 215.5.25 **Cyperus radians** Nees & Meyen, **FMP5** 143, **FMi7** 623; herb about 30 cm tall when flowering; sea shores; both coasts.
- 215.5.26 **Cyperus rotundus** L., **FMP5** 145, **FMi7** 604, **M47** 198; herb about 30 cm tall; open grassy places to 1000 m; common and widespread.
- 215.5.27 **Cyperus sphacelatus** Rottb., **FMi7** 609, **M47** 202; herb about 30 cm tall; grassy places; Pn, Jh, Sp; naturalized from ? Neotropics.
- 215.5.28 **Cyperus stoloniferus** Retz., **FMP5** 145, **FMi7** 606; creeping herb to 50 cm tall; sandy shores and tidal mud; common on both coasts.
- 215.5.29 **Cyperus tenuiculmis** Boeck., **FMi7** 608, **M47** 204; *Cyperus zollingeri auct. non* Steud., **FMP5** 144; herb to about 70 cm; open grassy places to 1600 m; common throughout.

- 215.5.30 **Cyperus tenuispica** Steud., **FMi7** 625, **M47** 206; herb to 40 cm tall; very wet, open places to 500 m.
- 215.5.31 **Cyperus trialatus** (Boeck.) Kern, **FMi7** 621; *Cyperus bancanus* Miq., **FMP5** 143; herb to 50 cm; open or lightly shaded places; Kd, Pn, Pk, Ph, Ml, Sp.
- 215.6.1 **Diplacrum caricinum** R.Br., **C36** 125; *Scleria caricina* (R.Br.) Benth., **FMP5** 178, **FMi7** 749; slender herb to 35 cm tall; open grassy places, wasteland to 1200 m; common throughout.
- 215.6.2 **Diplacrum reticulatum** Holttum; *Scleria reticulata* (Holttum) Kern, **FMi7** 751; slender herb to 35 cm tall; damp places in lallang patches; Ph.
- 215.7.1 **Eleocharis acutangula** (Roxb.) Schult., **FMi7** 525, **M47** 210; *Eleocharis fistulosa* Schult., **FMP5** 151; herb to 70 cm tall; open wet places to 800 m; Kd, Pk, Pk, Ml, Sp.
- 215.7.2 **Eleocharis congesta** D. Don, **FMi7** 532, **M47** 214; herb to 40 cm tall; in shallow water; Pn, Sl.
- 215.7.3 **Eleocharis dulcis** (Burm.f.) Hensch., **FMi7** 529, **M47** 216; *Eleocharis equisetina* Presl, **FMP5** 150; *Eleocharis plantaginea* (Retz.) Roem. & Schult., **FMP5** 150; herb to 200 cm tall; open wet places; the water chestnut.
- 215.7.4 **Eleocharis geniculata** (L.) Roem. & Schult., **FMi7** 536, **M47** 218; *Eleocharis capitata* R.Br., **FMP5** 151; herb to 40 cm; open wet places to 900 m; Tg, Pk, Ph, Jh, Sp.
- 215.7.5 **Eleocharis ochrostachys** Steud., **FMP5** 151, **FMi7** 528, **M47** 220; tufted herb to 60 cm tall; swamps, lake margins to 1400 m.
- 215.7.6 **Eleocharis philippinensis** Svenson, **FMi7** 526, **M47** 222; tufted herb to 60 cm tall; open marshy ground; Kd.
- 215.7.7 **Eleocharis retroflexa** (Poir.) Urb., **FMi7** 534, **M47** 224; *Eleocharis chaetaria* Roem. & Schult., **FMP5** 151; tufted herb to 20 cm tall; wet muddy places to 1600 m; common throughout Malaya.
- 215.7.8 **Eleocharis spiralis** (Rottb.) Roem. & Schult., **FMi7** 527; tufted herb to 60 cm tall; open wet places; Sp.
- 215.8.1 **Fimbristylis acuminata** Vahl, **FMP5** 153, **FMi7** 588, **M47** 226; *Fimbristylis acuminata* auct. non Benth., **FMP5** 153; herb to 30 cm tall; open wet muddy places; to 350 m.
- 215.8.2 **Fimbristylis alboviridis** C.B. Clarke, **FMi7** 580, **M47** 230; herb to 50 cm tall; dry grassy places; Kd, Sl.
- 215.8.3 **Fimbristylis argentea** (Rottb.) Vahl, **FMP5** 157, **FMi7** 586; small tufted herb to 10 cm; damp hollows near the sea; Kl, Tg.

- 215.8.4 **Fimbristylis calcicola** Kern, **FMi7** 572, **C15** 188; densely tufted herb to 20 cm; limestone screes; only known from type, P. Langkawi; endemic.
- 215.8.5 **Fimbristylis complanata** (Retz.) Link. **FMP5** 158, **FMi7** 548; herb to 90 cm; damp places to 1300 m; Pn, Ph, Ml, Sp.
- 215.8.6 **Fimbristylis cymosa** R.Br., **FMi7** 557; *Fimbristylis spathacea* Roth, **FMP5** 156; densely tufted herb to 50 cm; on muddy, sandy or rocky shores; common on both coasts.
- 215.8.7 **Fimbristylis dichotoma** (L.) Vahl, **FMi7** 575, **M47** 236; *Fimbristylis diphylla* (Retz.) Vahl, **FMP5** 155; herb to 75 cm; open grassy places to 1500 m; common throughout.
- 215.8.8 **Fimbristylis dura** (Zoll. & Moritzi) Merr., **FMi7** 554; *Fimbristylis asperrima* Boeck., **FMP5** 158 in part; herb to 75 cm tall; disturbed forest and forest margins to 1000 m.
- 215.8.9 **Fimbristylis eragrostis** (Nees) Hance, **FMi7** 567; *Fimbristylis nigrobrunnea* Thwaites, **FMP5** 159; herb to 75 cm; forest clearings; Kd, Tg.
- 215.8.10 **Fimbristylis ferruginea** (L.) Vahl, **FMP5** 156 incl. var. *arvensis* (Vahl) Ridl., **FMi7** 572; *Fimbristylis polytrichoides* auct. non R.Br., **FMP5** 154 in part; tufted herb to 80 cm; muddy wet places near the sea.
- 215.8.11 **Fimbristylis fulvescens** (Thwaites) Thwaites, **FMi7** 569; herb to 60 cm; at 750 m; collected twice on Penang Hill.
- 215.8.12 **Fimbristylis fusca** (Nees) C.B. Clarke, **FMP5** 160 in part, **FMi7** 567; *Fimbristylis rigidifolia* Ridl., **FMP5** 159; tufted herb to 50 cm; open grassy places; Kd, Kl, Sp.
- 215.8.13 **Fimbristylis fuscoides** C.B. Clarke, **FMP5** 160, **FMi7** 566; herb to 20 cm; open sandy places; Ps.
- 215.8.14 **Fimbristylis griffithii** Boeck., **FMi7** 584, **M47** 240; *Fimbristylis aestivalis* auct. non Vahl, **FMP5** 155; slender tufted herb to 20 cm tall; open wet places; Kl, Tg, Pk, Ph, Ml, Sp.
- 215.8.15 **Fimbristylis insignis** Thwaites, **FMi7** 555; *Fimbristylis longispica* auct. non Steud., **FMP5** 156; herb to 40 cm; open dry places; Kd.
- 215.8.16 **Fimbristylis leptoclada** Benth., **FMP5** 159, **FMi7** 560; herb to 65 cm; dry open places at low altitudes; Pn, Ph, Ml, Sp.
- 215.8.17 **Fimbristylis littoralis** Gaudich., **FMi7** 551; *Fimbristylis miliacea* auctt. plur. non (L.) Vahl, **FMP5** 158, **M47** 242; densely tufted herb to 60 cm tall; very wet open sites including rice-fields to 1000 m; common all over the Peninsula.

- 215.8.18 **Fimbristylis malayana** Ohwi, **FMi7** 571, **C15** 188; tufted herb to 40 cm; limestone screes at about 60 m; P. Langkawi; endemic.
- 215.8.19 **Fimbristylis nutans** (Retz.) Vahl, **FMP5** 154, **FMi7** 589; densely tufted herb about 40 cm tall; damp sandy spots; Kl, Tg, Ml, Jh, Sp.
- 215.8.20 **Fimbristylis obtusata** (C.B. Clarke) Ridl., **FMP5** 157, **FMi7** 559; small tufted herb to 15 cm tall; grassy places at low altitudes; P. Langkawi, Pn, Ph, Ml, Jh, Sp.
- 215.8.21 **Fimbristylis ovata** (Burm.f.) Kern, **FMi7** 565, **M47** 244; *Fimbristylis monostachyos* (L.) Hassk., **FMP5** 159 'monostachya'; densely tufted herb to 40 cm; dry grassy places; Ps, Kd, Sp.
- 215.8.22 **Fimbristylis pauciflora** R.Br., **FMP5** 154, **FMi7** 564; densely tufted herb to 30 cm tall; damp open or shaded sites to 800 m; widespread, not uncommon.
- 215.8.23 **Fimbristylis polytrichoides** (Retz.) R.Br., **FMP5** 154 in part, **FMi7** 586; herb to 30 cm tall; open wet places, usually near the sea; Kd, Pn, Pk, Ph, Sl.
- 215.8.24 **Fimbristylis schoenoides** (Retz.) Vahl, **FMP5** 154, **FMi7** 573, **M47** 246; densely tufted herb to 45 cm; open grassy places to 400 m.
- 215.8.25 **Fimbristylis sericea** R.Br., **FMP5** 157, **FMi7** 558; herb to 30 cm tall; sandy shores; east coast from Jh to Kl.
- 215.8.26 **Fimbristylis tetragona** R.Br., **FMP5** 153, **FMi7** 590; herb to 60 cm; open wet places at to 300 m; Ph, Sp.
- 215.8.27 **Fimbristylis thomsonii** Boeck., **FMi7** 548; *Fimbristylis asperrima* auct. non Boeck., **FMP5** 158 in part; herb to 80 cm tall; Kd.
- 215.8.28 **Fimbristylis tomentosa** Vahl, **FMi7** 576, **M47** 248; herb to about 40 cm tall; open grassy places; once from Ph.
- 215.8.29a **Fimbristylis trichophylla** Ridl. var. **erecta** Holttum ex Kern, **FMi7** 581; tufted herb to 60 cm; dry, unshaded cracks in limestone; Kd, Kl, Sl.
- 215.8.29b **Fimbristylis trichophylla** Ridl. var. **trichophylla**, **FMP5** 155, **FMi7** 580; slender tufted herb to 60 cm; dry, unshaded cracks in limestone; 60–240 m; P. Langkawi; endemic variety.
- 215.8.30 **Fimbristylis tristachya** R.Br., **FMi7** 573; *Fimbristylis podocarpa* auct. non Nees, **FMP5** 155; tufted herb about 60 cm tall; open grassy places; usually below 200 m; Ps, Kd, Sl, Sp.
- 215.8.31 **Fimbristylis umbellaris** (Lam.) Vahl, **C36** 150; *Fimbristylis globulosa* (Retz.) Kunth, **FMP5** 158, **FMi7** 551, **M47** 238; tufted herb to 120 cm tall; open wet places to 1000 m; common throughout.

- 215.9.1 **Fuirena ciliaris** (L.) Roxb., **FMi7** 519, **M47** 250; *Fuirena glomerata* Lam., **FMP5** 163; herb to about 40 cm tall; wet grassy places at low altitudes; Kd, Kl, Pn, Pk.
- 215.9.2 **Fuirena umbellata** Rottb., **FMP5** 162, **FMi7** 518, **M47** 252; herb to 110 cm; open wet places and margins of water bodies; whole Peninsula.
- 215.10.1 **Gahnia baniensis** Benl, **FMi7** 707; *Gahnia javanica* Zoll. & Moritzi ex Moritzi var. *penangensis* C.B. Clarke, **FMP5** 168; tall herb to 3 m; forming thickets on hills and low mountains; usually 900–2100 m; from Penang southwards.
- 215.10.2 **Gahnia javanica** Zoll. & Moritzi ex Moritzi, **FMi7** 708; *Gahnia castanea* Ridl., **FMP5** 169; herb to 120 cm tall; forming tussocks on mountain ridges; Pk, Ph.
- 215.10.3 **Gahnia tristis** Nees, **FMP5** 168, **FMi7** 710; herb to 100 cm tall; open dry spots to 1200 m; Kd to Sp.
- 215.11.1a **Hypolytrum nemorum** (Vahl) Spreng. var. **nemorum**, **FMi7** 491; *Hypolytrum latifolium* Rich., **FMP5** 170 incl. var. *penangense* C.B. Clarke; herb to 120 cm tall; in swampy places in forests to 1200 m; common throughout.
- 215.11.1b **Hypolytrum nemorum** (Vahl) Spreng. var. **proliferum** (Boeck.) Kern, **FMi7** 492; *Hypolytrum proliferum* Boeck., **FMP5** 170; herb to 60 cm tall; damp places in forests, lake margins, up to 800 m; Pn, Ph, Jh, Sp.
- 215.12.1 **Kyllinga brevifolia** Rottb., **FMP5** 138, **K70** 248; *Cyperus brevifolius* (Rottb.) Hassk., **FMi7** 656, **M47** 152; herb to 40 cm tall; damp grassy places to 1500 m; common throughout.
- 215.12.2a **Kyllinga melanosperma** Nees ssp. **melanosperma**, **FMP5** 138; *Cyperus melanospermus* (Nees) J.V. Suringar ssp. *melanospermus*, **FMi7** 656; herb up to 200 cm tall; open wet places at 500–2000 m.
- 215.12.2b **Kyllinga melanosperma** Nees ssp. **bifolia** (Miq.) Karth., **K02** 60; *Cyperus melanospermus* (Nees) J.V. Suringar ssp. *bifolius* (Miq.) Kern, **FMi7** 656; Herb; open wet places in mountains; Ph.
- 215.12.3 **Kyllinga nemoralis** (J.R. Forst. & G. Forst.) Dandy ex Hutch. & Dalziel, **K70** 249; *Kyllinga monocephala* Rottb., *nom. illeg.*, **FMP5** 138; *Cyperus kyllingia* Endl., **FMi7** 659, **M47** 178; creeping herb to about 50 cm tall; waste places in lowlands; very common throughout.
- 215.12.4 **Kyllinga polyphylla** Willd. ex Kunth, **K70** 247; *Cyperus aromaticus* (Ridl.) Matf. & Kük., **FMi7** 656; herb; noxious weed of pasture; Sp; naturalized from East Africa.

- 215.13.1 **Lepidosperma chinense** Nees & Meyen. **FMP5** 167. **FMi7** 668; slender herb to 120 cm tall; open wet places in the mountains, usually above 1500 m; Kl. Tg. Pk. Ph. Ml. Jh.
- 215.14.1 **Lepironia articulata** (Retz.) Domin. **FMi7** 462; *Lepironia mucronata* Rich., **FMP5** 175; herb to 150 cm tall; open wet places, mostly lowlands; Tg. Pk. Ph. Ml. Jh. Sp.
- 215.15.1 **Lipocarpha chinensis** (Osbeck) Kern. **FMi7** 521. **G10** 27. **M47** 254; *Lipocarpha argentea* (Vahl) R.Br. ex Nees. **FMP5** 163; herb to 50 cm tall; open wet places at low and medium altitudes; common throughout.
- 215.15.2 **Lipocarpha microcephala** (R.Br.) Kunth. **FMP5** 163. **FMi7** 522. **G10** 52; slender tufted herb to 30 cm; open sandy spots in the lowlands; Kl. Pn. Sp.
- 215.15.3 **Lipocarpha squarrosa** (L.) Goetghebeur. **G10** 71; *Scirpus squarrosus* L., **FMi7** 516; tufted herb to 20 cm tall; open sandy places in the lowlands; Pn. Jh. Sp.
- 215.16.1 **Machaerina maingayi** (C.B. Clarke ex Ridl.) T. Koyama. **FMi7** 693; *Cladium maingayi* C.B. Clarke ex Ridl., **FMP5** 167; tufted herb to 150 cm; open wet places in the mountains; 900–2100 m; Kl. Pk. Ph. Ml.
- 215.16.2 **Machaerina rubiginosa** (Spreng.) T. Koyama. **FMi7** 700; *Cladium glomeratum* R.Br., **FMP5** 166; herb to 180 cm tall; swampy places near the sea; Sp.
- 215.17.1 **Mapania bancana** (Miq.) Benth. & Hook. ex B.D. Jacks., **S22** 49; *Thoracostachyum bancanum* (Miq.) Kurz. **FMP5** 171. **FMi7** 465; herb to 80 cm; swamp forest; Pk. Ph. Sl. Ml. Jh. Sp.
- 215.17.2 **Mapania caudata** Kuk., **S22** 120; *Mapania cuspidata* (Miq.) Uittien var. *pumila* (Uittien) Uittien. **FMi7** 475; small herb; lowland forest; Tg.
- 215.17.3a **Mapania cuspidata** (Miq.) Uittien var. *cuspidata*, **FMi7** 474. **S22** 112; *Mapania humilis* Fern.-Vill., **FMP5** 174; *Mapania triquetra* Ridl., **FMP5** 174; herb superficially like a dwarf pandan; primary lowland forest; Kl. Pk. Ph. Sl. Jh.
- 215.17.3b **Mapania cuspidata** (Miq.) Uittien var. *petiolata* (C.B. Clarke) Uittien. **FMi7** 474. **S22** 113; *Mapania humilis* Fern.-Vill. var. *petiolata* (C.B. Clarke) Ridl., **FMP5** 174; herb like dwarf pandan; primary lowland forest; Pn. Pk. Ph. Sl. Ml. Jh. Sp.
- 215.17.4 **Mapania enodis** (Miq.) C.B. Clarke. **FMi7** 480. **S22** 81; *Mapania longa* Ridl. ex C.B. Clarke. **FMP5** 173; herb like small pandan; lowland swamp forest; Jh. Sp.

- 215.17.5 **Mapania holttumii** Kern, **FMi7** 472, **S22** 108; herb to 2 m tall; lowland and hill forest at 150–1200 m; Tg, Ph, Jh; Endemic.
- 215.17.6 **Mapania kurzii** C.B. Clarke, **FMP5** 172, **FMi7** 478, **S22** 73; *Mapania longispica* Ridl., **FMP5** 172; *Mapania valida* Ridl., **FMP5** 172 in part; large tufted herb; lowland and hill forests to 950 m; Kd, Pn, Pk, Sl, NS, MI, Sp.
- 215.17.7 **Mapania lorea** Uittien, **FMi7** 480, **S22** 84; *Mapania valida* Ridl., **FMP5** 172 in part; *Mapania tenuiscapa* auct. non C.B. Clarke, **FMP5** 173 in part; large tufted herb; lowland swamp forest; Pn, Pk, Ph, Jh, Sp.
- 215.17.8 **Mapania meditensis** D.A. Simpson, **S22** 118; herb about 40 cm tall; swamp forest; collected once from Sg Kayu Ara, Jh.
- 215.17.9 **Mapania micropandanus** Holttum, **FMi7** 482, **S22** 97; stilt-rooted tufted herb; damp lowland forest; P. Tioman, Jh; endemic.
- 215.17.10 **Mapania monostachya** Uittien, **S22** 94; herb about 50 cm tall; lowland forest; collected once at Ulu Setiu F.R., Tg.
- 215.17.11a **Mapania palustris** (Hassk. ex Steud.) Fern.-Vill. var. **andamanica** (C.B. Clarke) D.A. Simpson, **S22** 69; large tufted herb; lowland forest; collected once at Ulu Sg Terenas, Kd.
- 215.17.11b **Mapania palustris** (Hassk. ex Steud.) Fern.-Vill. var. **palustris**, **FMP5** 172, **FMi7** 477, **S22** 67; *Mapania albescens* C.B. Clarke, **FMP5** 172; large tufted herb; damp forests to 1500 m; Tg, Pk, Ph, Sl, NS, MI, Jh, Sp.
- 215.17.12 **Mapania sessilis** Merr., **S22** 97; herb about 1 m tall; swampy lowland forest; collected once at Sg Buloh F.R., Sl.
- 215.17.13 **Mapania squamata** (Kurz) C.B. Clarke, **FMi7** 479, **S22** 76; *Mapania wallichii* auct. non C.B. Clarke, **FMP5** 173 in part; large tufted herb; damp lowland and hill forest to 1500 m; Sl, NS, Jh, Sp.
- 215.17.14 **Mapania sumatrana** (Miq.) Benth. ssp. **pandanophylla** (F. Muell.) D.A. Simpson, **S22** 53; *Thoracostachyum hypolytroides* (F. Muell. ex Benth.) C.B. Clarke, **FMP5** 171; *Thoracostachyum sumatranum* (Miq.) Kurz, **FMi7** 464 in part; herb to 150 cm tall; swampy places in the lowlands; Ph, MI, Jh.
- 215.17.15 **Mapania tenuiscapa** C.B. Clarke, **FMP5** 173 in part, **FMi7** 481, **S22** 86; large tufted herb; damp lowland forest; Kd, Pk, Ph, NS, MI, Jh.
- 215.17.16 **Mapania wallichii** C.B. Clarke, **FMP5** 173 in part, **FMi7** 479, **S22** 78; large herb; damp lowland forest; Ph, Sp.
- 215.18.1 **Oreobolus kükenhalii** Steenis, **FMi7** 685, **S17** 153; *Schoenus distichus* Ridl., **FMP5** 166; herb forming cushions to 15 cm tall; mountain tops at 1600–2150 m; Gg Kerbau, Pk, and Gg Tahan, Ph.

- 215.19.1 **Paramapania parvibractea** (C.B. Clarke) Uittien, **FMI7** 486; *Hypolytrum radians* Ridl., **FMP5** 170 (Malayan specimens); herb forming compact three-angled clumps; lowland and lower montane forest to 1200 m; Kl, Jh.
- 215.20.1 **Pycrus polystachyos** (Rottb.) Beauv., **FMP5** 139 incl. var. *laxiflorus* (Benth.) C.B. Clarke; *Cyperus polystachyos* Rottb., **FMI7** 649 incl. var. *laxiflorus* Benth., **M47** 188; herb to about 60 cm; damp open places to 1800 m.
- 215.20.2 **Pycrus pumilus** (L.) Nees, **K70** 224; *Pycrus nitens* Nees, **FMP5** 140; *Cyperus pumilus* L., **FMI7** 650, **M47** 194; herb to 20 cm; open sandy places to 600m.
- 215.20.3a **Pycrus sanguinolentus** (Vahl) Nees ssp. *cyrtostachys* (Miq.) Karth., **K02** 66, **FMP5** 139 in part; *Cyperus sanguinolentus* Vahl ssp. *cyrtostachys* (Miq.) Kern, **FMI7** 647; herb to 60 cm; open wet places.
- 215.20.3b **Pycrus sanguinolentus** (Vahl) Nees ssp. *sanguinolentus*, **FMP5** 139 in part; *Cyperus sanguinolentus* Vahl ssp. *sanguinolentus*, **FMI7** 647; herb to 60 cm; open wet places.
- 215.20.4 **Pycrus substramineus** (Kük.) N.K. Khoi, **N04** 140; *Cyperus substramineus* Kük., **FMI7** 653; tufted herb to 35 cm tall; open grassy places; Kd, Pn .
- 215.21.1 **Remirea maritima** Aubl., **FMP5** 169; *Cyperus pedunculatus* (R.Br.) Kern, **FMI7** 644; *Mariscus pedunculatus* (R.Br.) T. Koyama, **K70** 240; creeping herb to 15 cm tall; sandy beaches; both coasts.
- 215.22.1 **Rhynchospora brownii** Roem. & Schult., **V08** 501; *Rhynchospora glauca* Vahl var. *chinensis* C.B. Clarke, **FMP5** 165; *Rhynchospora rugosa* (Vahl) Gale, **FMI7** 720; densely tufted herb to 75 cm tall; sandy places near the sea or mountain tops.
- 215.22.2 **Rhynchospora corymbosa** (L.) Britt., **FMI7** 713, **M47** 256; *Rhynchospora aurea* Vahl, **FMP5** 164; herb to 100 cm tall; open swampy places to 1200 m; common throughout.
- 215.22.3 **Rhynchospora hookeri** Boeck., **FMI7** 714; herb to 90 cm; dry fields; Ps.
- 215.22.4 **Rhynchospora malasica** C.B. Clarke, **FMP5** 164, **FMI7** 715; herb to 90 cm tall; lowland swamps; Tg, Ml, Jh, Sp.
- 215.22.5 **Rhynchospora rubra** (Lour.) Makino, **FMI7** 715; *Rhynchospora wallichiana* Kunth, **FMP5** 164; herb to 70 cm tall; open dry places; widespread.
- 215.22.6 **Rhynchospora submarginata** Kük., **FMI7** 718; *Rhynchospora wightiana* auct. non Steud., **FMP5** 164; herb to 40 cm tall; open dry places; P, Langkawi, Tg, Pn, Pk, Ph.

- 215.22.7 **Rhynchospora triflora** Vahl, **FMi7** 714; herb to 90 cm tall; swamps; Tasek Bera, Ph.
- 215.23.1 **Schoenoplectus juncooides** (Roxb.) Palla, **K68** 212, **K70** 160; *Scirpus erectus* auct. non Poir., **FMP5** 161; *Scirpus juncooides* Roxb., **FMi7** 512, **M47** 262; herb to 75 cm tall; open wet places to 1200 m; quite common, widespread.
- 215.23.2 **Schoenoplectus lateriflorus** (Gmel.) Lye, **L26** 290; *Scirpus supinus* auct. non L., **FMP5** 161; *Scirpus lateriflorus* Gmel., **FMi7** 514, **M47** 264; herb to 35 cm tall; open wet places, rice fields usually below 300 m; Kd, Kl, Tg, Pn.
- 215.23.3 **Schoenoplectus mucronatus** (L.) Palla, **K68** 214, **K70** 160; *Scirpus mucronatus* L., **FMP5** 161, **FMi7** 510, **M47** 266; herb to 2 m tall; ponds and ditches to 2000 m; common throughout.
- 215.23.4 **Schoenoplectus wallichii** (Nees) T. Koyama, **K68** 210; *Scirpus wallichii* Nees, **FMi7** 513; herb to 75 cm tall; open wet places; Kd, Ml.
- 215.24.1 **Schoenus calostachyus** (R.Br.) Poir., **FMP5** 166, **FMi7** 675; tufted herb to 75 cm tall; open sandy places; Kd, Tg, Ph, Sp.
- 215.24.2 **Schoenus falcatus** R.Br., **FMi7** 677; tufted herb to 90 cm; open grassy places; Ps.
- 215.25.1 **Scirpodendron ghaeri** (Gaertn.) Merr., **FMi7** 456; *Scirpodendron costatum* (Thwaites) Kurz, **FMP5** 175; pandan-like plants; tidal swamps and along rivers; common along both coasts.
- 215.26.1 **Scirpus subcapitatus** Thwaites, **FMi7** 505; *Scirpus clarkei* Stapf, **FMP5** 162; *Baeothryon subcapitatum* (Thwaites) T. Koyama, **K70** 166; herb to 75 cm; near mountain streams; Tg, Ph.
- 215.27.1a **Scleria biflora** Roxb. ssp. **biflora**, **FMi7** 744; *Scleria biflora* Roxb., **FMP5** 180; slender tufted herb to 45 cm; open grassy places up to 900 m; common.
- 215.27.1b **Scleria biflora** Roxb. ssp. **ferruginea** (Ohwi) Kern, **FMi7** 744; very slender herb to 1 m tall; once collected, Jh.
- 215.27.2 **Scleria carphiformis** Ridl., **FMP5** 180, **FMi7** 741; slender herb to 40 cm tall; open damp places on mountains; Kd, Tg, Ph.
- 215.27.3 **Scleria ciliaris** Nees, **FMi7** 734; *Scleria bancana* Miq., **FMP5** 178 incl. var. *nana* Ridl.; *Scleria chinensis* Kunth, **FMP5** 180; slender herb to 1 m tall; open places, forests, below 1000 m; widely distributed.
- 215.27.4 **Scleria corymbosa** Roxb., **FMP5** 176 in part, **FMi7** 740; *Scleria ridleyi* C.B. Clarke, **FMP5** 177; herb to 2 m tall; wet places, open or shaded, lowlands to 300 m; quite widespread.

- 215.27.5 ***Scleria cyathophora*** Holttum, **FMi7** 731; herb to 100 cm tall; shallow water; Tasek Bera, Ph.
- 215.27.6 ***Scleria levis*** Retz., **FMi7** 732; *Scleria hebecarpa* Nees, **FMP5** 179; slender herb to 90 cm tall; open country to 1500 m; whole Peninsula.
- 215.27.7a ***Scleria lithosperma*** (L.) Sw. var. ***linearis*** Benth., **FMi7** 741; *Scleria lithosperma* (L.) Sw. var. *roxburghii* C.B. Clarke, **FMP5** 176; herb to 60 cm tall; open places; Pk, Jh.
- 215.27.7b ***Scleria lithosperma*** (L.) Sw. var. ***lithosperma***, **FMP5** 176, **FMi7** 741; herb to 60 cm tall; open places to 600 m; widespread.
- 215.27.8 ***Scleria motleyi*** C.B. Clarke, **FMi7** 729; *Scleria gonocarpa* Ridl., **FMP5** 177; herb to 100 cm tall; forests to 1200 m; uncommon.
- 215.27.9 ***Scleria neesii*** Kunth, **FMi7** 741; herb to 30 cm tall; damp spots in lowland heath; once collected, Bt Ketri, Ps.
- 215.27.10 ***Scleria oblata*** S.T. Blake, **FMi7** 733; *Scleria levis* (non Retz.) Willd., **FMP5** 177; herb to 100 cm tall; open damp places to 700 m; widespread.
- 215.27.11 ***Scleria poaeformis*** Retz., **FMi7** 736; *Scleria oryzoides* Presl, **FMP5** 177; herb to 2 m tall; lowland swamps; Ps, Kd, Pk, Tg, Ml, Jh, Sp.
- 215.27.12a ***Scleria purpurascens*** Steud. var. ***ophirensis*** (C.B. Clarke) Kern, **FMi7** 740; *Scleria multifoliata* Boeck. var. *ophirensis* C.B. Clarke, **FMP5** 179; herb; grassland on mountains to 1000 m; Kd, Jh.
- 215.27.12b ***Scleria purpurascens*** Steud. var. ***purpurascens***, **FMi7** 739; *Scleria multifoliata* Boeck., **FMP5** 178 incl. var. *pilosula* C.B. Clarke; herb to 2 m tall; open places or in forest to 1000 m; tolerably common.
- 215.27.13 ***Scleria rugosa*** R.Br., **FMi7** 749; *Scleria zeylanica* auct. non Poir., **FMP5** 177; herb to 30 cm tall; open grassy places to 500 m; common widespread.
- 215.27.14 ***Scleria scrobiculata*** Nees & Meyen ex Nees, **FMi7** 738; large herb to 2.5 m tall; damp shady places; once collected, Jh.
- 215.27.15 ***Scleria sumatrensis*** Retz., **FMP5** 179, **FMi7** 736; tall slender herb to 4 m; swamps, dry open places or forest to 500 m; whole Peninsula.
- 215.27.16 ***Scleria terrestris*** (L.) Fassett, **FMi7** 733; *Scleria corymbosa* auct. non Roxb., **FMP5** 176; *Scleria radula* Hance, **FMP5** 178; *Scleria elata* Thwaites, **FMP5** 179 incl. var. *decolorans* C.B. Clarke; herb to several metres tall; forests, open wet places, lowlands to mountains; common throughout.
- 215.27.17 ***Scleria thwaitesiana*** Boeck., **FMi7** 748; herb to 50 cm tall; damp patches in open grassy ground; once collected at Bt Ketri, Ps.

- 215.28.1 **Tricostularia undulata** (Thwaites) Kern, **FMi7** 672; *Cladium undulatum* Thwaites, **FMP5** 167; *Cladium pulchrum* Ridl., **FMP5** 167; herb forming dense tussocks to 90 cm tall; open sandy places to 1600 m; Tg, Ph.
- 215.29.1 **Websteria confervoides** (Poir.) Hooper, **H50** 582; *Scirpus confervoides* Poir., **FMi7** 505; submerged aquatic herb; Tg, Ph.
216. **DIOSCOREACEAE**
- 216.1.1 **Dioscorea bulbifera** L., **FMP4** 315, **FMi4** 311; bulbiferous climber; waste ground; widespread.
- 216.1.2 **Dioscorea calcicola** Prain & Burkill, **FMP5** 341, **FMi4** 327, **C15** 189; slender climber; usually on limestone; P. Langkawi, Kd, Kl.
- 216.1.3 **Dioscorea esculenta** (Lour.) Burkill, **FMi4** 307; *Dioscorea aculeata* (non L.) L., **FMP4** 315; tuberous spiny-rooted climber; wild on limestone, but often cultivated also; Kd.
- 216.1.4 **Dioscorea filiformis** Blume, **FMi4** 329; *Dioscorea gibbiflora* Hook.f., **FMP4** 317; *Dioscorea myriantha* Kunth, **FMP4** 317; tuberous slender climber; lowlands including limestone; north of Malaya.
- 216.1.5 **Dioscorea glabra** Roxb., **FMP4** 318, **FMi4** 331; tuberous climber reaching 8 m; lowland forests; widespread.
- 216.1.6 **Dioscorea hispida** Dennst., **FMi4** 318; *Dioscorea triphylla* (non L.) L., **FMP4** 314; tuberous prickly climber; wild, also cultivated; widespread.
- 216.1.7 **Dioscorea kingii** Knuth, **FMP5** 341, **FMi4** 329; *Dioscorea porteri* Prain & Burkill ex Knuth, **FMP4** 318; tuberous woody climber to 20 m tall; lowland forest; Pn; endemic.
- 216.1.8 **Dioscorea lamprocaula** Prain & Burkill, **FMi4** 327; slender prickly woody climber; lowland and hill forest; Pk, Ph, Jh.
- 216.1.9 **Dioscorea laurifolia** Wall. ex Hook.f., **FMP4** 319, **FMi4** 323; tuberous wiry climber; forest margins, lowlands and hills; west of Main Range; Endemic.
- 216.1.10 **Dioscorea orbiculata** Hook.f., **FMP4** 317, **FMi4** 334; tuberous climber to 10 m tall; open country; widespread.
- 216.1.11 **Dioscorea pentaphylla** L., **FMP4** 314, **FMi4** 315; tuberous climber; sometimes cultivated; widespread.
- 216.1.12 **Dioscorea piscatorum** Prain & Burkill, **FMP4** 319, **FMi4** 310; tuberous climber to 10 or more metres tall; lowland forest; Pk, Ph, P. Tioman.

- 216.1.13 **Dioscorea polyclades** Hook.f., **FMP4** 315, **FMi4** 334; tuberous climber to 30 m tall; margins of lowland and hill forest, also on limestone; widespread.
- 216.1.14 **Dioscorea prainiana** Knuth, **FMi4** 324; tuberous climber reaching 16 m; lowland forest to 350 m, also on limestone; widespread.
- 216.1.15 **Dioscorea prazeri** Prain & Burkill, **FMi4** 304; rhizomatous climber reaching 4 m; on limestone; Ps.
- 216.1.16a **Dioscorea pyrifolia** Kunth var. **ferruginea** Prain & Burkill, **FMP4** 316, **FMi4** 333; tuberous climber to 10 m tall; hedges and thickets in the lowlands; widespread.
- 216.1.16b **Dioscorea pyrifolia** Kunth var. **pyrifolia**, **FMP4** 316, **FMi4** 332; tuberous climber to 10 m tall; hedges and thickets in the lowlands; widespread.
- 216.1.16c **Dioscorea pyrifolia** Kunth var. **subinermis** Prain & Burkill, **FMi4** 333; tuberous climber to 10 m tall; hedges and thickets in the lowlands; central Malaya.
- 216.1.17 **Dioscorea scortechinii** Prain & Burkill, **FMP4** 314, **FMi4** 318; thorny tuberous climber; lowland forest; Pk southward.
- 216.1.18 **Dioscorea stenomeriflora** Prain & Burkill, **FMP4** 319, **FMi4** 306; *Peripetasma polyanthum* Ridl.; **FMP1** 103; slender woody climber reaching 25 m; lowland forest margins; Pk southward.
- 216.1.19 **Dioscorea tamarisciflora** Prain & Burkill, **FMP4** 314, **FMi4** 314; slender tuberous climber; rare and local.
- 216.1.20 **Dioscorea tenuifolia** Ridl., **FMi4** 326; *Dioscorea zollingeriana* (non Kunth) Miq., **FMP4** 317; slender tuberous climber to 16 m tall; lowland forest; Sp.
- 216.2.1 **Stenomeris borneensis** Oliv., **FMP4** 313, **FMi4** 297; slender climber reaching 5 m; damp spots; rare.

217. DRACAENACEAE

- 217.1.1 **Dracaena breviflora** Ridl., **FMP4** 335; nearly stemless shrub; tidal mud; Jh; endemic.
- 217.1.2 **Dracaena cantleyi** Baker, **T23** ??; *Dracaena anrantiaca* Wall. ex Hook.f., **FMP4** 336; shrub to 4m tall; swamps and forest margins; widespread.
- 217.1.3 **Dracaena chiniana** I.M. Turner, *nom. nov.*; *Dracaena congesta* [non (Sweet) Schult. & Schult.f.] Ridl., Trans. Linn. Soc. London, Bot. 3 (1893) 388, **FMP4** 334, **C15** 174; shrub to 30 m tall; lowland forest, also on limestone; widespread.

- 217.1.4 ***Dracaena conferta*** Ridl., **FMP4** 332, **T23**; *Dracaena robusta* Ridl., **FMP4** 332; *Dracaena curtisii* Ridl., **FMP4** 333, **C15** 174; shrub to 3 m tall; lowland and hill forest; widespread.
- 217.1.5 ***Dracaena cuspidata*** Ridl., **FMP4** 333; low shrub; lowland forest; Kl; endemic.
- 217.1.6 ***Dracaena elliptica*** Thunb., **FMP4** 337; shrub to 2 m tall; lowland to montane forest; widespread.
- 217.1.7 ***Dracaena finlaysonii*** Baker: **T23**; *Dracaena graminifolia* Wall. ex Hook.f., **FMP4** 333, **C15** 174; shrub barely 1 m tall; lowland and hill forest; Pn, Pk.
- 217.1.8 ***Dracaena granulata*** Hook.f., **FMP4** 332; tree to 20 m tall; wet lowland forest; Jh, Sp.
- 217.1.9 ***Dracaena longifolia*** Ridl., **FMP4** 335; low shrub; lowland forest; Ph; ?endemic.
- 217.1.10 ***Dracaena maingayi*** Hook.f., **FMP4** 335; *Dracaena penangensis* Ridl., **FMP4** 335; tree to 20 m tall; dry spots in the lowlands, near the sea; mostly in the south of Malaya; ?endemic.
- 217.1.11 ***Dracaena nutans*** Ridl., **FMP4** 337, **C15** 175; shrub to 4 m tall; damp thickets, also on limestone; Kl, Ph.
- 217.1.12 ***Dracaena pendula*** Ridl., **FMP4** 337; shrub to 2 m tall; swampy lowland forest; Pk, Ml; ?endemic.
- 217.1.13 ***Dracaena porteri*** Baker, **FMP4** 333; shrub to 2 m tall; lowland forest; widespread.
- 217.1.14 ***Dracaena siamica*** Ridl., **FMP4** 334; dwarf shrub to 50 cm tall; open sandy spots; Ps.
- 217.1.15 ***Dracaena singaporensis*** Ridl., **FMP4** 334; dwarf shrub to 50 cm tall; lowland forest; south of Malaya; ?endemic.
- 217.1.16 ***Dracaena trachystachys*** Hook.f., **FMP4** 336; small tree to 6 m tall; lowland forest; widespread.
- 217.1.17 ***Dracaena umbratica*** Ridl., **FMP4** 334; low shrub about 1 m tall; lowland forest; widespread.
- 217.1.18 ***Dracaena yuccifolia*** Ridl., **FMP4** 338, **C15** 175; shrub to 5 m tall; on limestone; north of Malaya.

218. ERIOCAULACEAE

- 218.1.1 **Eriocaulon australe** R. Br., **M50** 296; herb; Pn, Tg, Pk, Sl, Jh.
- 218.1.2 **Eriocaulon disepalum** Ridl., **FMP5** 136; herb to 15 m tall; rice-fields; Kl; endemic.
- 218.1.3 **Eriocaulon hookerianum** Stapf, **FMP5** 135; herb to 20 cm tall; among rocks on high mountains; Gg Tahan, Ph.
- 218.1.4 **Eriocaulon lasiolepis** Ruhl., **M50** 296; herb; Ml; endemic.
- 218.1.5 **Eriocaulon oryzetorum** Mart., **M50** 296; herb; Pn, Sp.
- 218.1.6 **Eriocaulon silicicolum** Ridl., **FMP5** 134; tufted herb to 50 cm tall; mountain tops; Gg Tahan, Ph; endemic.
- 218.1.7 **Eriocaulon truncatum** Buch.-Ham. ex Mart., **FMP5** 135, **M49** 501; **M47** 280; *Eriocaulon glabriflorum* Ridl., **FMP5** 135; tufted herb to 10 cm tall; common weed of damp ground; widespread.
- 218.1.8 **Eriocaulon willdenovianum** Moldenke, **M48** 44; *Eriocaulon sexangulare* auct. non L., **FMP5** 133; *Eriocaulon longifolium* (non Raf.) Nees ex Kunth, **M44** 278; tufted herb to 50 cm tall; open damp places; widespread.
- 218.1.9 **Eriocaulon xeranthemum** Mart., **FMP5** 135; herb about 10 cm tall; open grassy places; Pn.

219. FLAGELLARIACEAE

- 219.1.1 **Flagellaria indica** L., **FMP4** 368 incl. var. *minor* (Blume) Hook.f., **FMI4** 246; climber 2–15 m long; common in damp forest near the sea, but also inland to 1500 m; widespread.

220. GRAMINEAE

- 220.1.1 **Acroceras munroanum** (Balansa) Henrard, **G08** 165; *Acroceras ridleyi* (Hack. ex Ridl.) Stapf ex Ridl., **FMP5** 229; stoloniferous herb to 50 cm tall; coastal sands, moist shady places; Kd, Ph, Sl, Jh.
- 220.1.2 **Acroceras tonkinense** (Balansa) C.E. Hubb. ex Bor, **G08** 165; *Acroceras sparsum* Stapf ex Ridl., **FMP5** 229; decumbent herb to 100 cm tall; forest margins, riverbanks, lowlands and hills; Kd, Kl, Pn, Pk, Ph, Sl, Ml, Jh.
- 220.2.1 **Alloteropsis cimicina** (L.) Stapf, **FMP5** 223, **G08** 198; prostrate herb to about 30 cm tall; weed of moist or lightly shaded places; Kd, Pn, Jh, Sp.

- 220.3.1 **Alopecurus geniculatus** L., **S65** 104; herb; weed; Genting Highlands; naturalized from temperate Eurasia.
- 220.4.1 **Apluda mutica** L., **G08** 273, **C16** 33; *Apluda varia* Hack. var. *internedia* Hack., **FMP5** 207; herb 1–2 m tall; often, though not exclusively, on limestone; Kd, Kl, Ph.
- 220.5.1 **Aristida culionensis** Pilg., **G08** 112; tufted herb to 1.2 m tall; Ps.
- 220.6.1 **Arthraxon hispidus** (Thunb.) Makino, **V22** 266; *Arthraxon nudus* (Nees ex Steud.) Hochst., **G08** 287; *Arthraxon micans* (Nees) Hochst., **G08** 288; herb to 200 m tall; north of Peninsula.
- 220.6.2 **Arthraxon lanceolatus** (Roxb.) Hochst., **V22** 281; *Arthraxon prionodes* (Steud.) Dandy, **G08** 287, **C16** 33; herb to 75 cm tall; on dry limestone; Gg Baling, Kd.
- 220.7.1 **Arundinella setosa** Trin., **FMP5** 239, **G08** 95; densely clumped herb to 120 cm tall; rocky ground on dry hills; Kd, Kl.
- 220.8.1 **Axonopus affinis** A. Chase, **G08** 189; stoloniferous herb to 65 cm tall; waste places, lawns; Kd, Sl; naturalized from tropical America.
- 220.8.2 **Axonopus compressus** (Sw.) P. Beauv, **FMP5** 216, **G08** 187, **M47** 388; creeping herb to 50 cm tall; open sites in the lowlands; throughout; naturalized from tropical America.
- 220.9.1 **Bambusa farinacea** K.M. Wong, **W29** 90; *Bambusa burmanica* auct. non Gamble, **H43** 62, **G08** 19; bamboo to 10 m tall; Kd, Kl, Ph, Sl.

Bambusa heterostachya (Munro) Holttum [**H43** 65, **G08** 18; **W29** 92] and *Bambusa laxa* K.M. Wong [**W29** 94] are only known in cultivation but are possibly endemic to Malaya.
- 220.10.1 **Bothriochloa bladhii** (Retz.) S.T. Blake, **L15** 24; *Amphilophis glabra* (Roxb.) Stapf, **FMP5** 209; *Bothriochloa intermedia* (R.Br.) A. Camus, **G08** 281; tufted herb to 90 cm tall; roadsides and field edges; Ps, Kd, Ph, Sl, Ml.
- 220.10.2 **Bothriochloa pertusa** (L.) A. Camus, **G08** 281; *Amphilophis pertusus* (L.) Nash ex Stapf, **FMP5** 209; herb; once from Ml.
- 220.11.1 **Briza minor** L., **G08** 57; slender herb to 75 cm tall; open places at the Hill Stations; Ph; naturalized from the Mediterranean region.
- 220.12.1 **Capillipedium parviflorum** (R.Br.) Stapf, **G08** 279; tufted herb 60–100 cm tall; on limestone; only known from Gg Baling, Kd.
- 220.13.1 **Cenchrus brownii** Roem. & Schult., J.F. Veldkamp *pers. comm.*; *Cenchrus echinatus* auct. non L., **S23** 36; herb to 40 cm tall; roadsides, dry waste ground; Sl, Jh, Sp; naturalized from tropical America.

- 220.14.1 **Centotheca lappacea** (L.) Desv., **FMP5** 253, **G08** 53, **C18** 110; *Centotheca latifolia* (Osbeck) Trin., **M55** 59; rosette-forming herb to 1 m tall; shady places to 1500 m; widespread.
- 220.14.2 **Centotheca longilamina** Ohwi, **G08** 53, **M55** 60; herb to 120 cm tall; shady places to 600 m; Kd, Pn, Pk, Ph, Sl, Jh, Sp.
- 220.15.1 **Chloris barbata** Sw., **FMP5** 250, **G08** 86; densely tufted grass to 100 cm tall; open dry places; Pn, Pk, Sl, Jh, Sp; naturalized from tropical America.
- 220.15.2 **Chloris gayana** Kunth, **G08** 87; herb 50–100 cm tall; waste places in the lowlands and mountains: Cameron Highlands, Ph; Subang, Sl; naturalised from tropical Africa.
- 220.16.1 **Chrysopogon aciculatus** (Retz.) Trin., **FMP5** 207, **G08** 236; creeping herb forming a dense turf, 20–60 cm tall; abundant in open places; throughout.
- 220.16.2 **Chrysopogon fulvus** (Spreng.) Chiov., **G08** 237; *Chrysopogon collinus* Ridl., **FMP5** 208; densely tufted herb to 75 cm tall; in dry sandy spots: Bt Wang, Kd and P. Burong, Ph.
- 220.16.3 **Chrysopogon orientalis** (Desv.) A. Camus, **G08** 238; *Chrysopogon wightianus* (Nees ex Steud.) Thwaites, **FMP5** 208; creeping herb to 80 cm tall; on limestone or coastal sand: P. Langkawi, Kl, Tg, Ph.
- 220.17.1 **Coelachne simpliciuscula** (Wight & Arn. ex Steud.) Munro ex Benth., **G08** 118; small tufted herb to 15 cm tall; damp places in the lowlands; Kd.
- 220.18.1 **Coix gigantea** J. König ex Roxb., **FMP5** 191, **G08** 307; herb to 3 m tall; damp places; once on bank of Sg Kinta, Pk.
- 220.18.2a **Coix lacryma-jobi** L. var. **lacryma-jobi**, **FMP5** 191, **G08** 304; herb 90–250 cm tall; common on waste land; widespread.
- 220.18.2b **Coix lacryma-jobi** L. var. **ma-yuen** (Romanet) Stapf, **G08** 306; herb; forest clearings as escape or relic from shifting cultivation: Jh.
- 220.18.2c **Coix lacryma-jobi** L. var. **monilifer** Watt, **FMP5** 191, **G08** 307; herb; Ml.
- 220.19.1 **Cymbopogon calcicola** C.E. Hubb., **G08** 297, **C16** 34; tufted herb to 150 cm tall; on limestone to 400 m; Kd, Ph.
- 220.19.2 **Cymbopogon flexuosus** (Nees ex Steud.) W. Watson, **G08** 297; herb to 3 m tall; waste places; Sp; naturalized.
- 220.20.1 **Cynodon dactylon** (L.) Pers., **FMP5** 249, **G08** 90, **M47** 398; creeping herb 10–40 cm tall; common on open sandy sites in the lowlands; throughout.
- 220.20.2 **Cynodon radiatus** Roth ex Roem. & Schult.; J.F. Veldkamp *pers. comm.*; herb to 70 cm tall; waste ground, roadsides, usually near the sea; Kd, Sl.

- 220.21.1 **Cyrtococcum accrescens** (Trin.) Stapf, **FMP5** 234, **G08** 149; slender scrambling herb 20–100 cm tall; shady places in the lowlands; common throughout.
- 220.21.2 **Cyrtococcum oxyphyllum** (Steud.) Stapf, **FMP5** 233, **G08** 148; slender creeping herb 15–50 cm tall; common in lightly shaded places, lowlands and mountains; throughout.
- 220.21.3 **Cyrtococcum patens** (L.) A. Camus, **G08** 148; *Cyrtococcum carinatum* Stapf ex Ridl., **FMP5** 233; slender scrambling herb to 50 cm tall; shady places; Sl, NS, Ml.
- 220.22.1 **Dactyloctenium aegyptium** (L.) Willd., **FMP5** 251 ‘*aegyptiacum*’, **G08** 81, **M44** 400; rosette-forming herb 10–40 cm tall; sandy places in the lowlands, including seashores; Pn, Pk, Ph, Sl, Jh, Sp.
- 220.23.1 **Dendrocalamus asper** (Roem. & Schult.) Backer ex Heyne, **H43** 100, **G08** 27, **W29** 107; *Dendrocalamus flagellifer* Munro, **FMP5** 265; large bamboo to 20 m tall; widely cultivated but possibly native.
- 220.23.2 **Dendrocalamus dumosus** (Ridl.) Holttum, **H43** 96, **G08** 30, **C16** 34, **W29** 109; *Schizostachyum dumosum* Ridl., **FMP5** 271; bamboo to 5 m tall; forest on limestone; P, Langkawi and Gg Baling, Kd.
- 220.23.3 **Dendrocalamus elegans** (Ridl.) Holttum, **H43** 95, **G08** 30, **C16** 34, **W29** 109; *Schizostachyum elegans* Ridl., **FMP5** 271; bamboo to 6 m tall; on limestone; P, Langkawi, Kl.
- 220.23.4 **Dendrocalamus hirtellus** Ridl., **FMP5** 266, **H43** 93, **G08** 29, **W29** 113; *Bambusa klossii* Ridl., **FMP5** 259; bamboo to 15 m tall; openings in lowland forest; Kd, Kl, Pk, Ph, NS, Jh; endemic.
- 220.23.5 **Dendrocalamus longispatus** (Kurz) Kurz, **W29** 115; bamboo 12–20 m tall; lowland forest; once each from Kl and Tg.
- 220.23.6 **Dendrocalamus pendulus** Ridl., **FMP5** 266, **H43** 90, **G08** 29, **W29** 115; *Cephalostachyum malayense* Ridl., **FMP5** 267; *Schizostachyum subcordatum* Ridl., **FMP5** 269; bamboo to 25 m tall; openings in lowland forest to 800 m; Ps, Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh; endemic.
- 220.23.7 **Dendrocalamus sinuatus** (Gamble) Holttum, **H43** 97, **G08** 28, **W29** 117; *Oxytenanthera sinuata* Gamble, **FMP5** 264; slender bamboo 12–15 m tall; lowlands; Tg, Pk, Ph, Sl, NS.
- 220.24.1 **Dichanthium annulatum** (Forssk.) Stapf, **G08** 284, **C16** 35; *Ischaemum beccarii* auct. non Hack., **FMP5** 204; densely tufted herb to 100 cm tall; on limestone; Kd, Sl.

- 220.24.2 **Dichanthium caricosum** (L.) A. Camus, **FMP5** 210, **G08** 284; slender tufted herb 30–100 cm tall; open sunny sites; Kd, Sl, Ph, Sp.
- 220.24.3 **Dichanthium mucronulatum** R.K. Jansen, **G08** 283, **C16** 35; wiry-stemmed herb to 75 cm tall; on limestone; P. Langkawi, Ph, Sl; endemic.
- 220.25.1 **Digitaria ciliaris** (Retz.) Koeler, **G08** 196, **V27** 32, **M47** 402; *Digitaria marginata* Link, **FMP5** 213 incl., in part, var. *ciliaris* Hook.f.; herb forming loose mats, to 60 cm tall; waste places to 1700 m; Kd, Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 220.25.2 **Digitaria didactyla** Willd., **G08** 195 incl. var. *peninsulae* (Ohwi) Henrard, **V27** 44; tufted yet stoloniferous herb to 40 cm tall; roadsides and lawns to 1800 m; Pn, Ph, Sl, Ml, Sp.
- 220.25.3 **Digitaria fuscescens** (Presl) Henrard, **G08** 193, **V27** 61, **M47** 404; creeping herb to 40 cm tall; disturbed sites; Pn, Ph, Sl, Sp.
- 220.25.4 **Digitaria heterantha** (Hook.f.) Merr., **V27** 46; *Digitaria barbata* auct. non Willd., **FMP5** 215; *Digitaria dispar* Henrard, **G08** 193; creeping herb to 80 cm tall; locally common on sandy beaches; Ph, Jh.
- 220.25.5 **Digitaria longiflora** (Retz.) Pers., **FMP5** 214 in part, **G08** 192, **V27** 66, **M47** 406; tufted mat-forming herb to 50 cm tall; early coloniser of disturbed soil; to 700 m.
- 220.25.6 **Digitaria mollicoma** (Kunth) Henrard, **V27** 69; mat-forming herb to 50 cm tall; open sites in the lowlands; Pn, Sl, Sp.
- 220.25.7 **Digitaria pusilla** Ridl., **FMP5** 215 in part, **G08** 191, **V27** 62; mat-forming herb to 25 cm tall; sandy places to 300 m; P. Langkawi, Kd, Sp.
- 220.25.8 **Digitaria radicata** (Presl) Miq., **V27** 35; *Digitaria marginata* Link var. *debilis* auct. non Ridl., **FMP5** 214 in part; *Digitaria timorensis* (Kunth) Balansa, **G08** 198; herb forming loose mats to 60 cm tall; waste places.
- 220.25.9a **Digitaria setigera** Roem. & Schult. var. **calliblepharata** (Henrard) Veldkamp, **V27** 40; *Digitaria marginata* Link var. *ciliaris* auct. non Ridl., **FMP5** 214 in part; *Digitaria microbachne* (Presl) Henrard ssp. *calliblepharata* Henrard, **G08** 194; *Digitaria microstachya* Henrard, **G08** 195; herb forming loose mats to 90 cm tall; waste places; Ph, Ml, Jh, Sp.
- 220.25.9b **Digitaria setigera** Roem. & Schult. var. **setigera**, **V27** 37; *Digitaria marginata* Link var. *commutata* auct. non Ridl., **FMP5** 214 in part; *Digitaria microbachne* (Presl) Henrard, **G08** 194; herb forming loose mats to 120 cm tall; waste places; Jh, Sp.

- 220.25.10 **Digitaria violascens** Link, **G08** 191, **V27** 63, **M47** 414; *Digitaria pertenuis* Büse, **FMP5** 214, **G08** 192; *Digitaria longiflora* auct. non Pers., **FMP5** 215 in part; *Digitaria caespitosa* Ridl., **FMP5** 215; *Digitaria chinensis* auct. non Hornem., **FMP5** 215; *Digitaria pusilla* auct. non Ridl., **FMP5** 215 in part; tufted herb to 70 cm tall; waste places to 1600 m; Kd, Pn, Pk, Ph, Sl, NS, Jh, Sp.
- 220.26.1 **Dimeria ciliata** Merr., **G08** 214; *Dimeria fuscescens* auct. non Trin., **FMP5** 191; herb to 80 cm tall; Ps.
- 220.26.2 **Dimeria kurzii** Hook.f., **FMP5** 192, **G08** 216; slender tufted herb 15–30 cm tall; sandy places; Kd.
- 220.26.3 **Dimeria leptorhachis** Hack.; **C18** 176; *Dimeria velutina* (Hack.) Bor, **G08** 213; herb 60–100 cm tall; Kd.
- 220.26.4a **Dimeria ornithopoda** Trin. var. **glabra** (Ridl.) R.K. Jansen, **G08** 216; *Dimeria glabra* Ridl., **FMP5** 192; slender tufted herb 15–40 cm tall; lowlands; Ph, NS, Sp.
- 220.26.4b **Dimeria ornithopoda** Trin. var. **ornithopoda**, **FMP5** 192, **G08** 214; slender tufted herb 15–40 cm tall; dry grassy places; Kd, Pn, Sl, Jh, Sp.
- 220.27.1 **Dinochloa malayana** S. Dransf., **D40** 110; *Dinochloa* sp. 1, **W29** 121; *Dinochloa scandens* auct. non (Blume) Kuntze, **H43** 84, **G08** 25; *Dinochloa tjankorreh* Büse, **FMP5** 267; climbing bamboo; lowland forest; Ps, P. Langkawi, Kl, Pk, Ph, Sl.
- 220.27.2 **Dinochloa** sp. 2, **W29** 121; slender climbing bamboo; P. Redang, Tg.
- 220.27.3 **Dinochloa** sp. 3, **W29** 121; slender climbing bamboo; forest; twice from Jh.
- 220.28.1 **Echinochloa colona** (L.) Link, **FMP5** 222, **G08** 167, **M47** 416; herb to 60 cm tall; waste ground, frequently wet sites; Ps, Kd, Kl, Pn, Ph, Sl, Ml, Jh, Sp.
- 220.28.2 **Echinochloa crusgalli** (L.) P. Beauv., **FMP5** 222, **G08** 168, **M47** 418; herb to 120 cm tall; common in wet places; Ps, Kd, Kl, Pn, Ph, Sl, Ml, Jh, Sp.
- 220.28.3 **Echinochloa stagnina** (Retz.) P. Beauv., **G08** 166, **M47** 420; aquatic herb emerging to 200 cm tall; once in Sp.
- 220.29.1 **Eleusine indica** (L.) Gaertn., **FMP5** 250, **G08** 78, **M47** 422; loosely tufted herb to 50 cm or more tall; open places and waste ground to 1700 m; throughout.
- 220.30.1 **Enteropogon dolichostachyus** (Lag.) H. Keng ex Lazarides, **L15** 160; *Chloris dolichostachya* Lag., **G08** 86; densely tufted herb 60–100 cm tall; once on exposed rocks; P. Langkawi.

- 220.31.1 **Eragrostis amabilis** (L.) Wight & Arn. *ex* Hook. & Arn., **N11** 309; *Eragrostis tenella* (L.) P. Beauv. *ex* Roem. & Schult., **FMP5** 245, **G08** 71, **M47** 424; *Eragrostis viscosa* (Retz.) Trin., **FMP5** 246, **G08** 71; small herb 5–30 cm tall; common on open waste ground; Kd, Pn, Kl, Pk, Sl, Ml, Sp.
- 220.31.2 **Eragrostis atrovirens** (Desf.) Trin. *ex* Steud., **G08** 68; *Eragrostis elegantula* Steud., **FMP5** 248; distinctly blue-green herb to 120 cm tall; waste places to 1600 m; Ps, Kd, Kl, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 220.31.3 **Eragrostis cumingii** Steud., **G08** 65; *Eragrostis elongata sensu* Ridl., **FMP5** 248 in part at least; *Eragrostis pilosa auct. non* (L.) P. Beauv., **FMP5** 247, **G08** 69; slender wiry herb 10–100 cm tall; weed of dryish sites; Kd, Pn, Ph, Sl, Jh, Sp.
- 220.31.4 **Eragrostis gangetica** (Roxb.) Steud., **G08** 68; *Eragrostis cambessediana* Steud., **S23** 36; glaucous herb 40–60 cm tall; once in Sp.
- 220.31.5 **Eragrostis japonica** (Thunb.) Trin., **G08** 70; *Eragrostis interrupta auct. non* (R.Br.) P. Beauv., **FMP5** 246; herb 60–120 cm tall; sand bars and beaches; Ph.
- 220.31.6 **Eragrostis luzoniensis** Steud.; J.F. Veldkamp *pers. comm.*; *Eragrostis pubescens auct. non* (R.Br.) Steud., **G08** 64; wiry herb to 80 cm tall; dry open grassland; Ps.
- 220.31.7 **Eragrostis montana** Balansa; J.F. Veldkamp *pers. comm.*; *Eragrostis malayana* Stapf. **FMP5** 247, **G08** 65; rosette-forming herb to 60 cm tall; open sandy places in the lowlands; Pn, Ph, Sl, Kd, Ml, Sp.
- 220.31.8 **Eragrostis multicaulis** Steud., **G08** 70; small tufted herb not exceeding 15 cm tall; waste places; Pk, Ph.
- 220.31.9 **Eragrostis unioides** (Retz.) Nees *ex* Steud., **G08** 66, **M47** 426; *Eragrostis amabilis auct. non* (L.) Hook. & Arn., **FMP5** 246; tufted herb to 50 cm tall; in damp or wet places to 1000 m; throughout.
- 220.32.1 **Eremochloa ciliaris** (L.) Merr., **G08** 275; *Eremochloa malayana* Ridl., **FMP5** 196; tufted herb 30–70 cm tall; open sandy spots to 1000 m; Kd.
- 220.33.1 **Eriachne pallescens** R.Br., **FMP5** 240, **G08** 94, **V06** 133, **L16** 422; tufted herb 50–90 cm tall; open dry places, waste areas; Ps, Pn, Kl, Tg, Ph, Sl, Ml, Jh, Sp.
- 220.33.2 **Eriachne trisetata** Nees *ex* Steud., **FMP5** 240, **V06** 136, **L16** 422; *Massia trisetata* (Nees *ex* Steud.) Balansa, **G08** 94; tufted herb to 80 cm tall; dry sandy places, often near the sea; Tg, Ph, NS, Ml, Sp.

- 220.34.1 **Eriochloa procera** (Retz.) C.E. Hubb., **G08** 202, **M47** 428; *Eriochloa annulata* (Flüggé) Kunth, **FMP5** 223; herb 60–150 cm tall; waste ground, especially near the sea; Ps, Kd, Pn, Pk, Sl, Jh, Sp.
- 220.35.1 **Eulalia lanipes** Ridl., **FMP5** 196, **G08** 243; tufted herb to about 100 cm tall; only known from 900–1300 m on Gg Jerai, Kd; Endemic.
- 220.35.2 **Eulalia leschenaultiana** (Decne.) Ohwi, **G08** 241; wiry herb to 45 cm tall; roadsides, padi-field bunds; Kd, Kl, Ph.
- 220.35.3 **Eulalia milsumi** Ridl., **FMP5** 196, **G08** 240; slender wiry tufted herb to 50 cm tall; on quartzite ridges at about 450 m; known only from the Klang Gates area, Sl; endemic.
- 220.35.4 **Eulalia quadrinervis** (Hack.) Kuntze, **G08** 244, **C16** 36; slender, densely tufted herb 50–100 cm tall; on limestone; P, Langkawi.
- 220.35.5 **Eulalia ridleyi** (Hack.) A. Camus, **FMP5** 197, **G08** 241; creeping herb to 45 cm tall; coastal sand dunes; Ph, Jh; endemic.
- 220.35.6 **Eulalia trispicata** (Schult.) Henrard, **G08** 242; densely tufted herb 50–100 cm tall; on limestone; Ps.
- 220.36.1 **Eustachys tenera** (Presl) A. Camus, **G08** 88; *Chloris tenera* (Presl) Scribn., **M28** 131; stoloniferous herb 20–45 cm tall; open sites in the lowlands, weed; Kl, Pn, Ph, Sp.
- 220.37.1 **Garnotia acutigluma** (Steud.) Ohwi, **G08** 116, **G16** 540; *Garnotia stricta* auct. non Brongn., **FMP5** 242; tufted herb 20–60 cm tall; damp sites in the lowlands and mountains; Kd, Pk, Ph.
- 220.37.2 **Garnotia tenella** (Arn. ex Miq.) Janowski, **G14** 528; *Garnotia patula* auct. non (Munro) Benth., **G08** 116; tufted herb 15–60 cm; damp rocky slopes in the mountains; Gg Jerai, Kd, and Kuala Teku, Ph.
- 220.38.1 **Gigantochloa albovestita** (Holtum) K.M. Wong, **W29** 125; *Gigantochloa scortechinii* Gamble var. *albovestita* Holtum, **H43** 124, **G08** 33, **W15** 347; slender bamboo to 12 m tall; lowlands; Kd, Pn; endemic.
- 220.38.2 **Gigantochloa holttumiana** K.M. Wong, **W23** 346, **W15** 357, **W29** 126; clumped bamboo 10–15 m tall; montane forest; only known from Fraser's Hill, Ph; endemic.
- 220.38.3 **Gigantochloa latifolia** Ridl., **FMP5** 262, **H43** 132 incl. var. *efimbriata* Holtum, **G08** 34, **W15** 359; **W29** 129 *Oxytenanthera auriculata* Prain, **FMP5** 264; densely clumped bamboo to 6–9 m tall; lowlands and hills; Kd, Pk, Ph; endemic.

- 220.38.4 **Gigantochloa ligulata** Gamble, **FMP5** 262, **H43** 129, **G08** 34, **W15** 361, **W29** 131; densely clumped bamboo to 9 m tall; lowlands; Ps, Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Jh.
- 220.38.5 **Gigantochloa rostrata** K.M. Wong, **W15** 333, **W29** 134; *Gigantochloa maxima* Kurz var. *minor* Holttum, **H43** 116; bamboo 4–8 m tall; Gg Raya, P. Langkawi.
- 220.38.6 **Gigantochloa scortechinii** Gamble, **FMP5** 261, **H43** 122, **G08** 32, **W15** 341, **W29** 138; densely clumped bamboo to 20 m tall; hill forest, also widely cultivated; throughout.
- 220.38.7 **Gigantochloa wrayi** Gamble, **FMP5** 261, **H43** 124, **G08** 33, **W15** 339, **W29** 142; *Gigantochloa maxima* Kurz var. *viridis* Holttum, **H43** 115, **G08** 36; bamboo to 10 m tall; lowlands, also cultivated in villages; Kd, Pn, Pk, Sl, Jh.
- 220.38.8 **Gigantochloa** sp. 2, **W29** 143; bamboo 4–5 m tall; once from Nami F.R., Kd.
- The following species are only known from cultivation but are possibly endemic to Malaya: *Gigantochloa albopilosa* K.M. Wong [**W29** 124], *Gigantochloa thoii* K.M. Wong [**W29** 140] and *Gigantochloa* sp. 1 [**W29** 143].
- 220.39.1 **Hemarthria compressa** (L.f.) R.Br., **G08** 266; sprawling herb; wet places in the lowlands; Kd.
- 220.39.2 **Hemarthria longiflora** (Hook.f.) A. Camus, **G08** 266; *Hemarthria protensa* auct. non Nees ex Steud., **FMP5** 205; herb 60–100 cm tall; Kd, Kl.
- 220.40.1 **Heteropogon contortus** (L.) P. Beauv. ex Roem. & Schult., **FMP5** 213, **G08** 292; tufted herb 25–100 cm tall; sandy coasts; Kd, Pn, Ph, Sl, Sp.
- 220.41.1 **Holttumochloa korbuensis** K.M. Wong, **W28** 520, **W29** 144; slender bamboo; montane forest; Gg Korbu, Pk; endemic.
- 220.41.2 **Holttumochloa magica** (Ridl.) K.M. Wong, **W28** 520, **W29** 145; *Bambusa magica* Ridl., **FMP5** 258, **H43** 75, **G08** 22; *Bambusa elegans* Ridl., **FMP5** 258; slender bamboo to 5 m tall; exposed mountain ridges at 1200–2000 m; Ph, Sl; endemic.
- 220.41.3 **Holttumochloa pubescens** K.M. Wong, **W28** 523, **W29** 149; slender bamboo; upper montane forest at 1450 m; summit of Gg Stong, Kl; Endemic.
- 220.42.1 **Hymenachne acutigluma** (Steud.) Gilliland, **G08** 155, **M47** 432; *Hymenachne myuros* auct. non (H.B.K.) P. Beauv., **FMP5** 230; creeping herb to 100 cm tall or more; open swampy sites and riverbanks; Ps, Kd, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.

- 220.43.1 ***Ichnanthus pallens*** (Sw.) Munro *ex* Benth. var. **major** (Nees) Stieber, **S38** 207; *Ichnanthus pallens* (Sw.) Munro *ex* Benth., **FMP5** 231; *Ichnanthus vicinus* (F.M. Bail.) Merr., **G08** 144; creeping and scrambling herb 20–40 cm tall; lowland and hill forests to 1300 m; Kd, Pk, Ph, Sl, NS, Jh.
- 220.44.1 ***Imperata conferata*** (Presl) Ohwi, **G08** 222; *Imperata exaltata* auct. non Brongn., **FMP5** 193; rhizomatous herb to 200 cm tall; open places usually near the sea; Kl, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 220.44.2 ***Imperata cylindrica*** (L.) P. Beauv. var. **major** (Nees) C.E. Hubb. *ex* C.E. Hubb. & Vaughn, **G08** 220, **M47** 434; *Imperata arundinacea* Cirillo, **FMP5** 193; rhizomatous herb about 100 cm tall; frequent colonizer of bare ground in lowlands and mountains; throughout.
- 220.45.1 ***Isachne albens*** Trin., **FMP5** 237, **G08** 121; herb 30–100 cm tall; in clearings in the mountains; commonest about 1300 m; Tg, Pk, Ph, Sl.
- 220.45.2 ***Isachne confusa*** Ohwi, **G08** 121; *Isachne rigida* auct. non Nees *ex* Steud., **FMP5** 238; slender wiry herb 10–45 cm tall; wet places in lowlands and mountains to 1300 m; Ps, Kd, Tg, Ph.
- 220.45.3 ***Isachne globosa*** (Thunb.) Kuntze, **G08** 123, **M47** 436; *Isachne australis* R.Br., **FMP5** 239; herb 20–90 cm tall; open wet places; Ps, Kd, Tg, Pn Pk, Ph, Sl, NS, Jh, Sp.
- 220.45.4 ***Isachne kinabaluensis*** Merr., **G08** 125; *Isachne javana* auct. non Nees, **FMP5** 238; tufted herb to 60 cm tall; exposed places on mountains 1600–2300 m; Kl, Tg, Pk, Ph, Jh.
- 220.45.5 ***Isachne kunthiana*** (Wight & Arn. *ex* Steud.) Miq., **G08** 122; *Isachne semitalis* Ridl., **FMP5** 237; scrambling herb 10–20 cm tall; damp lightly wooded places in the lowlands; Pk, Sl, Ml, Jh, Sp.
- 220.45.6 ***Isachne langkawiensis*** R.K. Jansen, **G08** 120, **C16** 36; slender tufted herb 15–40 cm tall; abundant in open sites on limestone; only known from P. Langkawi; endemic.
- 220.45.7 ***Isachne pulchella*** Roth *ex* Roem. & Schult., **G08** 120, **M47** 438; *Isachne miliacea* Roth *ex* Roem. & Schult., **FMP5** 239; slender creeping herb to 20 cm tall; in damp lowland forest; Ps, Ph, Sp.
- 220.45.8 ***Isachne saxicola*** (Ridl.) Ridl., **FMP5** 237, **G08** 122; cushion forming herb to 45 cm tall; open places in the mountains at 1600 m and above; Pk, Ph.
- 220.45.9 ***Isachne sylvestris*** Ridl., **FMP5** 238, **G08** 125; herb to 50 cm tall; lowland forest; Pk.
- 220.46.1 ***Ischaemum apricum*** Ridl., **FMP5** 203, **G08** 262; long-creeping herb to 90 cm tall; open sites; Pn; endemic.

- 220.46.2 **Ischaemum barbatum** Retz. var. **imbricatum** (Munro ex Hack.) R.K. Jansen, **G08** 260; *Ischaemum imbricatum* (Munro ex Hack.) Stapf ex Ridl., **FMP5** 200; herb 60–120 cm tall; disturbed sites, weed of cultivation; Ps, Kd, Kl, Tg, Jh, Sp.
- 220.46.3 **Ischaemum ciliare** Retz., **V28** 180; *Ischaemum indicum auct. non* (Houtt.) Merr., **G08** 263; *Ischaemum aristatum auct. non* L., **FMP5** 203; creeping herb to 60 cm tall; open grassy areas; Kd, Tg, Pn, Sp.
- 220.46.4 **Ischaemum fieldingianum** Rendle, **FMP5** 202, **G08** 257; *Ischaemum commelynifolium* Stapf ex Ridl., **FMP5** 202; *Ischaemum maculatum* Stapf ex Ridl., **FMP5** 202; herb 60–100 cm tall; swampy lowlands or on mountains; Kd, Ml, Jh.
- 220.46.5 **Ischaemum fluviatile** Ridl., **FMP5** 202, **G08** 260; herb 50 cm long; on rocks in river; known only from type; Kelumpur, Kl; endemic.
- 220.46.6 **Ischaemum magnum** Rendle, **FMP5** 200, **G08** 261; *Ischaemum laeve* Ridl., **FMP5** 201; herb to 200 cm tall; often along ditches and canals; Ps, NS, Jh, Sp.
- 220.46.7 **Ischaemum muticum** L., **FMP5** 201, **G08** 255; long-creeping herb 15–40 cm tall, often turf-forming; common particularly near the sea; throughout.
- 220.46.8 **Ischaemum polystachyum** Presl, **G08** 264; *Pollinia rupestris* Ridl., **FMP5** 199; *Ischaemum plumulosum* Stapf ex Ridl., **FMP5** 201; herb to 120 cm tall; river banks; Jh.
- 220.46.9 **Ischaemum rugosum** Salisb., **FMP5** 200, **G08** 259, **M47** 440; herb to 100 cm tall; waste places; Sl, Ml, Jh, Sp.
- 220.46.10 **Ischaemum timorense** Kunth, **G08** 264, **M47** 442; *Ischaemum macrurum* Stapf ex Ridl., **FMP5** 203; herb 15–60 cm tall; common in open grassy places; Ps, Kd, Pn, Pk, Ph, Sl, Ns, Jh, Sp.
- 220.47.1 **Kinabaluchloa wrayi** (Stapf) K.M. Wong, **W28** 524, **W29** 150; *Bambusa wrayi* Stapf, **FMP5** 259, **H43** 73, **G08** 22; bamboo to 18 m tall; montane forest at 1500–2000 m; Kl, Tg, Pk, Ph; endemic.
- 220.48.1 **Leersia hexandra** Sw., **FMP5** 253, **G08** 97, **M47** 444; slender herb to 100 cm long, often floating; open swampy areas; Kd, Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 220.49.1 **Leptaspis urceolata** (Roxb.) R.Br., **FMP5** 255, **G08** 47; *Scrotochloa urceolata* (Roxb.) Judz.; **C18** 400; herb to 1 m tall; lowland forest to 600 m; throughout.
- 220.50.1 **Leptochloa chinensis** (L.) Nees, **G08** 73, **FMP5** 249, **M47** 446, **N14** 83; tufted herb often procumbent, to 100 cm tall; weed of damp sites; Kl, Pn, Pk, Ph, Sl, Sp.

- 220.50.2 **Leptochloa malabarica** (L.) Veldkamp, **V26** 64, **N14** 84; *Diplachne fusca* (L.) P. Beauv., **G08** 76; tufted herb 50–100 cm tall; padi-fields; Kd, Pk.
- 220.50.3 **Leptochloa malayana** (C.E. Hubb.) R.K. Jansen *ex* Veldkamp, **V26** 64, **N14** 85; *Diplachne malayana* C.E. Hubb., **G08** 77; herb 20–80 cm tall; dry open places; Kd.
- 220.50.4 **Leptochloa panicea** (Retz.) Ohwi, **G08** 75, **N14** 87; *Leptochloa polystachya* auct. non Kunth., **FMP5** 248; slender herb to 120 cm tall; open areas in the lowlands; Ps, Kd, Ph.
- 220.51.1 **Lepturus repens** (G. Forst.) R.Br., **FMP5** 254, **G08** 83; creeping herb to 50 cm tall; coastal sands; Ph, Jh, Sp.
- 220.52.1 **Lolium perenne** L., **S62** 105; weed; Genting Highlands; naturalized from temperate regions.
- 220.53.1 **Lophatherum gracile** Brongn., **G08** 55; herb to 100 cm tall often forming loose rosette; openings in forest to 1650 m; Kd, Tg, Pn, Ph, Sl, NS, Ml, Jh, Sp.
- 220.54.1 **Maclurochloa montana** (Ridl.) K.M. Wong, **W28** 528, **W29** 153; *Dinorchloa montana* Ridl., **FMP5** 267; *Bambusa pauciflora* Ridl., **FMP5** 259, **H43** 76, **G08** 23; *Bambusa montana* (Ridl.) Holttum, **H43** 77, **G08** 23; scrambling bamboo forming thickets; lower montane forest at 780–1350 m; Kd, Pn, Ph, Sl; endemic.
- 220.55.1 **Melinis repens** (Willd.) Zizka, **Z01** 116; *Rhynchelytrum repens* (Willd.) C.E. Hubb., **G08** 150; *Tricholaena rosea* Nees, **FMP5** 235; herb to 70 cm tall; sandy places, waste ground; widespread; naturalized from tropical Africa.
- 220.56.1 **Microstegium ciliatum** (Trin.) A. Camus, **G08** 249; *Pollinia ciliata* Trin. var. *glabrata* Ridl., **FMP5** 198; scrambling herb to 120 cm tall; forest margins to 1300 m; Pn, Pk, Ph, Sl.
- 220.56.2 **Microstegium geniculatum** (Hayata) Honda, **G08** 247; creeping herb to 150 cm tall; exposed places near streams and wet rocks; Cameron Highlands, Ph; endemic.
- 220.56.3 **Microstegium nudum** (Trin.) A. Camus, **G08** 250; slender creeping herb to 60 cm tall; stream margins in the hills at 1000 m; Fraser's Hill, Ph.
- 220.56.4 **Microstegium vagans** (Nees *ex* Steud.) A. Camus, **G08** 250; *Pollinia grata* Hack., **FMP5** 198; scrambling herb to 100 cm long; forest margins to 800 m; Ps, Kl, Pn.
- 220.57.1 **Miscanthus floridulus** (Labill.) Warb. *ex* K. Schum., **G08** 217; *Miscanthus japonicus* auct. non Andersson, **FMP5** 194; clumped herb 2–3 m tall; open sites in the mountains at 1200–1700 m; Ph, Jh.

- 220.57.2 **Miscanthus nepalensis** (Trin.) Hack., **G08** 218; densely tufted herb to 100 cm or more: open places in the mountains at 1500–2000 m; Cameron Highlands, Ph.
- 220.57.3 **Miscanthus ridleyi** (Hack.) I.M. Turner, **T21** 26; *Sclerostachya ridleyi* (Hack.) A. Camus, **FMP5** 194, **G08** 223; reed to 2.5 m tall; riverbank; Pekan, Ph.
- 220.58.1 **Mnesithea geminata** (Hack.) Ridl., **FMP5** 206, **G08** 267; tufted herb to 60 cm tall; coastal areas; Ph.
- 220.58.2 **Mnesithea glandulosa** (Trin.) de Koning & Sosef, **V32** 290; *Coelorachis glandulosa* (Trin.) Stapf ex Ridl., **FMP5** 204, **G08** 270; prop-rooted herb to 250 cm tall; lowlands and hills in open places, often by rivers; widespread.
- 220.58.3 **Mnesithea granularis** (L.) de Koning & Sosef, **V32** 295; *Manisuris granularis* (L.) L.f., **FMP5** 205; *Hackelochloa granularis* (L.) Kuntze, **G08** 277; herb 20–50 cm tall; one collection from each of Pn and Sp.
- 220.58.4 **Mnesithea helferi** (Hook.f.) de Koning & Sosef, **V32** 291; *Mnesithea rupicola* Ridl., **FMP5** 206; *Coelorachis helferi* (Hook.f.) Henrard, **G08** 272; herb 60–100 cm tall; Kd, Pn, Pk.
- 220.58.5 **Mnesithea mollicoma** (Hance) A. Camus, **G08** 268; *Mnesithea pubescens* Ridl., **FMP5** 206; herb to 70 cm tall; lowlands; Kd, Jh.
- 220.59.1 **Myriostachya wightiana** (Nees ex Steud.) Hook.f., **FMP5** 245, **G08** 62; densely tufted herb to 3 m tall; on estuarine or coastal mud; Ps, Pn, Pk.
- 220.60.1 **Neyraudia reynaudiana** (Kunth) H. Keng ex Hitchc., **G08** 61; *Triraphis madagascariensis sensu* Ridl., **FMP5** 251; reed to 3 m tall; in wet places; Ps, Kd, Pn, Pk, NS, Ml.
- 220.61.1 **Oplismenus burmanni** (Retz.) P. Beauv., **FMP5** 221, **G08** 172; slender creeping herb 10–30 cm tall; dry sandy places in the lowlands and hills to 1400 m; Kd, Pn, Ph.
- 220.61.2 **Oplismenus compositus** (L.) P. Beauv., **FMP5** 221, **G08** 171; slender creeping herb 20–60 cm tall; lowland and hill forest to 1700 m; Ps, Kd, Kl, Pn, Pk, Ph, Sl, Ml, Jh.
- 220.62.1 **Oryza meyeriana** (Zoll. & Moritzi) Baill. var. **granulata** (Nees & Arn. ex Watt) Duist., **D42** 185; *Oryza granulata* Nees & Arn. ex Watt, **G08** 101; herb to 80 cm tall; on river bank; Pk.
- 220.62.2 **Oryza minuta** Presl var. **silvatica** (Camus) Veldkamp, **G08** 102, **D42** 179, **V28** 232; *Oryza latifolia auct. non* Desv., **FMP5** 252; herb 50–200 cm tall; marshy grassland and wet forests; Kd, Pk, Sl, Jh.
- 220.62.3 **Oryza ridleyi** Hook.f., **FMP5** 252, **G08** 101, **D43** 187; tufted herb to 150 cm tall; shaded grassland, river and streamsides; Kd, Tg, Pk, Ph, Sl, Ml, Jh.

- 220.62.4 **Oryza rufipogon** Griff., **G08** 100, **D43** 170; *Oryza fatua* Trin. var. *longearistata* Ridl., **FMP5** 252; herb 70–90 cm tall; swampy places, sometimes aquatic; Ps, Kd, Ml, Sp.
- 220.63.1 **Ottochloa nodosa** (Kunth) Dandy, **G08** 143; *Hemigymnia multinodis* Stapf, **FMP5** 228; *Hemigymnia fusca* Ridl., **FMP5** 228; creeping herb 30–90 cm tall; forest margins and damp open places in the lowlands; Ps, Kd, Kl, Pn, Ph, Sl, Jh, Sp.
- 220.64.1 **Panicum auritum** Presl ex Nees, **FMP5** 226, **G08** 137, **V31** 187; herb to 200 cm tall; damp open places in the lowlands; Kd, Kl, Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 220.64.2 **Panicum brevifolium** L., **G08** 139, **V31** 189; *Panicum ovalifolium* Poir., **FMP5** 227; *Panicum hirtifolium* Ridl., **FMP5** 228; slender decumbent herb 20–50 cm tall; shady places in lowlands and hills to 1000 m; Tg, Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 220.64.3 **Panicum curviflorum** Hornem. var. *suishaense* (Hayata) Veldkamp, **V31** 191; *Panicum elegantissimum* Hook.f., **FMP5** 226, **G08** 132; densely tufted herb to 120 cm tall; lowlands; Pk.
- 220.64.4 **Panicum hayatae** A. Camus, **G08** 137 '*hyatae*'; herb to 70 cm tall; known only from Fraser's Hill, Ph.
- 220.64.5 **Panicum humidorum** Buch.-Ham. ex Hook.f., **G08** 142; *Panicum perakense* (Hook.f.) Merr., **FMP5** 226; herb to 3 m tall; in water at low altitudes; Pk, Sl, Jh.
- 220.64.6 **Panicum humile** Nees ex Steud., **FMP5** 224; *Panicum walense* Mez, **G08** 140; herb to 45 cm tall; dry open sites in the lowlands; Kd, Kl, Pn, Ph.
- 220.64.7 **Panicum luzonense** Presl, **V31** 195; *Panicum caesium* Nees, **FMP5** 225; *Panicum cambogiense* Balansa, **G08** 141; densely tufted herb to 50 cm tall; waste ground in the lowlands; Ps, Kd, Kl, Tg, Pk, Ph, Sp.
- 220.64.8 **Panicum maximum** Jacq., **FMP5** 226, **G08** 132, **V31** 197; densely clumped grass to 250 cm tall; waste ground, roadsides; widespread; naturalized from tropical Africa.
- 220.64.9 **Panicum notatum** Retz., **G08** 142, **V31** 199; *Panicum montanum* Roxb., **FMP5** 227; tufted herb to 120 cm tall; lowlands and hills to 1100 m; Ps, Kd, Pn, Ph, Sl.
- 220.64.10 **Panicum paludosum** Roxb., **G08** 134, **M47** 450, **V31** 200; *Panicum proliferum* auct. non Lam., **FMP5** 225; floating herb; lowland swamps and padi-fields; Kd, Pn, Ph.

- 220.64.11 **Panicum repens** L., **FMP5** 225, **G08** 135, **M47** 452, **V31** 202; glaucous creeping herb 30–90 cm tall; damp open sites in the lowlands; Ps, Kd, Kl, Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 220.64.12 **Panicum sarmentosum** Roxb., **FMP5** 227, **G08** 139, **V31** 203; scrambling herb; forest margins and scrub in the lowlands and hills; Kd, Kl, Tg, Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 220.65.1 **Paspalum conjugatum** Berg., **FMP5** 218, **G08** 180, **D08** 290; stoloniferous herb 40–80 cm tall; grassy places; to 1500 m; throughout; naturalized from the Neotropics.
- 220.65.2 **Paspalum distichum** L., **D08** 295; stoloniferous herb about 60 cm tall; pantropical weed of damp places; Pn.
- 220.65.3 **Paspalum longifolium** Roxb., **FMP5** 217, **G08** 182, **D08** 297, **M47** 462; *Paspalum platycoleum* Ridl., **FMP5** 217; tufted herb 50–125 cm tall; damp places; common throughout.
- 220.65.4 **Paspalum orbiculare** G. Forst., **FMP5** 217, **G08** 184; tufted herb 30–70 cm tall; moist sites; Kd, Pk, Ph, Sl, Ml, Jh, Sp.
- 220.65.5 **Paspalum scrobiculatum** L. var. **bispicatum** Hack., **G08** 185, **D08** 305; *Paspalum commersonii* Lam., **FMP5** 218, **M47** 456; *Paspalum cartilagineum* Presl, **G08** 184, **M47** 454; herb about 70 cm tall; dry or damp disturbed sites; to 1500 m; throughout.
- 220.65.6 **Paspalum urvillei** Steud., **D08** 308; tufted herb 90–200 cm tall; waste ground; naturalized from South America.
- 220.65.7 **Paspalum vaginatum** Sw., **G08** 182, **D08** 309; *Paspalum distichum* auct. non L., **FMP5** 218; stoloniferous herb 25–50 cm tall; open places near the sea; Pn, Pk, Ph, Sl, Jh, Sp.
- 220.66.1 **Pennisetum clandestinum** Hochst. ex Chiov., **G08** 162; creeping herb forming a coarse turf; grassy places in the mountains; Cameron Highlands, Ph; naturalized from Africa.
- 220.66.2 **Pennisetum polystachion** (L.) Schult., **T05** 130, **C18** 366, **M47** 466; herb to 3 m tall; waste places; Sp; naturalized from tropical Africa.
- 220.66.3 **Pennisetum purpureum** Schumach., **G08** 162; herb to 3 m tall; pastures and waste places; Sl, NS, Jh, Sp; naturalized from Africa.
- 220.67.1 **Perotis indica** (L.) Kuntze, **G08** 113, **V36** 610; *Perotis latifolia* Aiton, **FMP5** 243; tufted herb to 75 cm tall; sandy ground near the sea; throughout.

- 220.68.1 **Phragmites vallatoria** (Pluk. ex L.) Veldkamp, **V29** 233; *Phragmites communis* auct. non Trin., **FMP5** 240; *Phragmites karka* (Retz.) Trin. ex Steud., **G08** 49; reed to 3 m tall; margins of rivers and lakes; Ps, Kd, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 220.69.1 **Poa annua** L., **FMP5** 254, **G08** 58; tufted herb to 45 cm tall; cultivated ground at the Hill Stations; Pk, Ph; naturalized from temperate regions.
- 220.70.1 **Pogonatherum crinitum** (Thunb. ex Murr.) Kunth; J.F. Veldkamp *pers. comm.*; *Pogonatherum saccharoideum* P. Beauv., **FMP5** 195; *Pogonatherum paniceum* (Lam.) Hack., **G08** 251; much-branched herb 15–60 cm tall; on banks and rocky places to 1600 m; Kd, Kl, Tg, Pn, Pk, Ph, Sl, Sp.
- 220.71.1 **Polytrias indica** (Houtt.) Veldkamp, **V28** 180; *Eulalia praemorsa* (Nees ex Steud.) Stapf ex Ridl., **FMP5** 197; *Polytrias amaura* (Büse) Kuntze, **G08** 244, **M47** 468; creeping, much-branched herb 15–40 cm tall; dryish open places, in lawns; Kd, Pn, Sl, Ml, Sp; probably spread from Java.
- 220.72.1 **Pseudechinolaena polystachya** (Kunth) Stapf, **FMP5** 221, **G08** 204; slender creeping herb to 60 cm tall; lowland forest to 1300 m; Pk, Ph, Sl.
- 220.73.1 **Pseudoraphis spinescens** (R.Br.) Vickery, **G08** 160; aquatic or semi-aquatic; padi-fields; Kd.
- 220.74.1 **Racemobambos setifera** Holttum, **H43** 134, **G08** 16, **D39** 676, **W29** 159; slender bamboo; hill forest, on banks of fast-flowing rivers; Gg Angsi, NS; Gg Pulai and near Batu Pahat, Jh; endemic.
- 220.75.1 **Saccharum arundinaceum** Retz., **FMP5** 193, **G08** 226; reed to 4 m tall; common on river banks; Kd, Tg, Pn, Pk, Ph, Sp.
- 220.75.2 **Saccharum spontaneum** L., **G08** 224; creeping herb 1–4 m tall; waste land; Pn, Pk, Ph, Sl, Sp.
- 220.75.3 **Saccharum velutinum** (Holttum) T.A. Cope, **C25** 703; *Spodiopogon velutinus* Holttum, **G08** 228; scrambling herb to 3 m long; mountains at 1800 m; known only from type; Cameron Highlands, Ph; endemic.
- 220.76.1a **Sacciolepis indica** (L.) Chase var. **indica**, **FMP5** 232, **G08** 152, **M47** 472; *Sacciolepis angusta* (Trin.) Stapf, **FMP5** 232; herb to 50 cm tall; open grassy and swampy places to 1700 m; Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 220.76.1b **Sacciolepis indica** (L.) Chase var. **turgida** (Ridl.) Gilliland, **G08** 154; *Sacciolepis turgida* Ridl., **FMP5** 231; herb to 40 cm tall; grassy places to 800 m; Ps, Kd, Pn.
- 220.76.2 **Sacciolepis interrupta** (Willd.) Stapf, **G08** 151, **M47** 474; creeping herb to 50 cm tall; padi-fields; Kd.

- 220.76.3 **Sacciolepis myosuroides** (R.Br.) A. Camus, **FMP5** 232, **G08** 152, **M47** 476; tufted herb to 75 cm tall; open marshy ground to 1700 m: Pn, Pk, Ph, Sl, Ml, Jh, Sp.
- 220.77.1 **Schizachyrium brevifolium** (Sw.) Nees ex Büse, **FMP5** 210, **G08** 291; slender tufted herb to 75 cm tall; open sandy places in the lowlands: Tg, Pn, Pk, Ph, Ml, Jh.
- 220.77.2 **Schizachyrium sanguineum** (Retz.) Alston, **G08** 289; *Schizachyrium semiberbe* Nees, **FMP5** 210; tufted herb 50–120 cm tall; sandy places near the sea: Jh, Sp.
- 220.78.1 **Schizostachyum aciculare** Gamble, **FMP5** 270, **H43** 39, **G08** 40, **W29** 165; small bamboo: open places in the lowlands: Kl, Sl, NS, Ml.
- 220.78.2 **Schizostachyum gracile** (Munro) Holttum, **H43** 37 incl. var. *erectum* Holttum, **G08** 39, **W29** 169; *Schizostachyum tenue* Gamble, **FMP5** 268; *Schizostachyum chilianthum* Kurz, **FMP5** 269; bamboo to 4 m tall, bending over at the top; forest margins and river banks: Tg, Ph, Sl, NS, Ml, Jh; endemic.
- 220.78.3 **Schizostachyum grande** Ridl., **FMP5** 271, **H43** 49, **G08** 38, **W29** 171; bamboo to 20 m tall; clearings in hill forest to 1000 m: Ps, Kd, Pn, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh; endemic.
- 220.78.4 **Schizostachyum jaculans** Holttum, **H43** 40, **G08** 39, **W29** 173; bamboo to 7 m tall; lowlands; widespread.
- 220.78.5 **Schizostachyum latifolium** Gamble, **FMP5** 270, **W29** 174; *Ochlandra ridleii* Gamble, **FMP5** 272; *Schizostachyum longispiculatum* auct. non Kurz, **FMP5** 270, **H43** 48, **G08** 40; bamboo to 5 m tall; forest-river boundaries in the lowlands; throughout.
- 220.78.6 **Schizostachyum lengguanii** K.M. Wong, **W29** 176; graceful bamboo 4–6 m tall; lake margins: Tasek Chini, Ph; endemic.
- 220.78.7 **Schizostachyum terminale** Holttum, **H43** 51, **G08** 38, **W29** 178; slender bamboo clambering 6–10 m tall; swampy lowland forest; Kd, Ph, Sl.
- 220.78.8 **Schizostachyum zollingeri** Steud., **FMP5** 269, **H43** 42, **G08** 41, **W29** 179; bamboo to 15 m tall; forest edges and clearings; throughout.
- 220.78.9 **Schizostachyum sp.**, **W29** 181; bamboo 4–7 m tall; lowland forest; once from Ulu Sg Teroh, Ph.
- 220.79.1 **Setaria barbata** (Lam.) Kunth, **T05** 130, **V30** 375; herb to 1 m tall; waste ground; Sp; naturalized from West Africa.
- 220.79.2 **Setaria geminata** (Forssk.) Veldkamp, **V30** 377; herb; near the sea: Sl.

- 220.79.3 **Setaria geniculata** (Lam.) P. Beauv., **G08** 159; rhizomatous herb; lowlands, often on coastal sand dunes; Ps, Kd, Kl, Pn, Pk.,
- 220.79.4 **Setaria italica** (L.) P. Beauv., **FMP5** 234, **G08** 156, **V30** 377; tufted herb to 150 cm tall; in forest clearings as escape or relic of cultivation; Pk, Ph, Ml, Sp; naturalized from subtropical Eurasia.
- 220.79.5 **Setaria palmifolia** (Koenig) Stapf, **G08** 157, **V30** 379; *Setaria plicata* auct. non (Lam.) Cooke, **FMP5** 235; tufted herb to 100 cm or more tall; lightly shaded places in lowlands and hills to 1600 m; Ps, Kd, Kl, Pk, Ph, Sl, NS, Jh, Sp.
- 220.79.6 **Setaria parviflora** (Poir.) Kerguélen, **V30** 379; *Setaria rubiginosa* (Steud.) Miq., **FMP5** 234; *Setaria pallide-fusca* (Schum.) Stapf & C.E. Hubb., **G08** 159; *Setaria pumila* (Poir.) Roem. & Schult.: **C18** 411; tufted herb 25–100 cm tall; weed of dry sites in the lowlands; Pn, Sl, NS, Ml, Jh, Sp.
- 220.79.7 **Setaria punctata** (Burm.f.) Veldkamp, **V30** 381; *Paspalum punctatum* Stapf ex Ridl., **FMP5** 218; *Paspalidium punctatum* (Burm.f.) A. Camus, **G08** 173; herb to 150 cm tall; open damp sites in the lowlands; Ps, Kd, Sl, Jh.
- 220.80.1 **Soejatmia ridleyi** (Gamble) K.M. Wong, **W28** 532, **W29** 182; *Bambusa ridleyi* Gamble, **FMP5** 257, **H43** 71, **G08** 21; bamboo to 5 m tall; lowland forest; Ph, Sp; endemic.
- 220.81.1 **Sorghum propinquum** (Kunth) Hitchc., **G08** 229; *Sorghum affine* [non Kuntze] (Presl) A. Camus, **FMP5** 195; stoloniferous herb to 2.5 m tall; riverbanks; Ph, Sp.
- 220.82.1 **Sphaerocaryum malaccense** (Trin.) Pilg., **G08** 126; *Sphaerocaryum elegans* (Arn. ex Steud) Nees ex Hook.f., **FMP5** 241; carpet-forming herb to 15 cm tall; forest paths and field edges in lowlands and hills; Tg, Pn, Ph, Sl, Ml, Jh, Sp.
- 220.83.1 **Spinifex littoreus** (Burm.f.) Merr., **G08** 210; *Spinifex squarrosus* L., **FMP5** 236; stiff creeping bushy herb; sandy coasts; Tg, Ph, Jh.
- 220.84.1a **Sporobolus indicus** (L.) R.Br. var. **flaccidus** (Roem. & Schult.) Veldkamp, **B01** 433; *Sporobolus diandrus* (Retz.) P. Beauv., **FMP5** 244 in part, **G08** 106; densely tufted herb to 90 cm tall; disturbed sites in the lowlands.
- 220.84.1b **Sporobolus indicus** (L.) R.Br. var. **major** (Büse) Baaijens, **B01** 437; *Sporobolus indicus* sensu Ridl., **FMP5** 244; *Sporobolus diandrus* (Retz.) P. Beauv., **FMP5** 244 in part; *Sporobolus fertilis* (Steud.) Clayton, **G08** 106; densely tufted herb to 90 cm tall; disturbed sites to 1600 m; Kd, Pn, Ph, Sl, NS, Ml, Sp.
- 220.84.2 **Sporobolus piliferus** (Trin.) Kunth, **FMP5** 244, **G08** 105, **B01** 441; densely tufted herb to 30 cm tall; dry open sites; Ml.

- 220.84.3 **Sporobulus virginicus** (L.) Kunth, **G08** 108, **B01** 441; tufted herb to 50 cm tall; seashores; Kd, Sp.
- 220.85.1 **Stenotaphrum helferi** Munro *ex* Hook.f., **FMP5** 220, **G08** 205, **S04** 205; creeping herb 20–50 cm long; common near the foot of limestone hills; Kd, Kl, Pn, Pk, Ml.
- 220.85.2 **Stenotaphrum secundatum** (Walter) Kuntze, **S04** 210; *Stenotaphrum dimidiatum auct. non* (L.) Brongn., **G08** 205; creeping prostrate herb to 30 cm long; open grassy places; Sp; naturalized from southern Africa.
- 220.86.1 **Themeda arguens** (L.) Hack., **FMP5** 212, **G08** 300; often reddish, tufted herb 20–120 cm tall; open dry places; Kd, Pn, Pk, Sl, NS, Ml, Jh, Sp.
- 220.86.2 **Themeda arundinacea** (Roxb.) Ridl., **G08** 301; *Themeda subsericans* (Nees) Ridl., **FMP5** 212; herb to 150 cm tall; sandy places in the lowlands; Kl, Pk, Ph.
- 220.86.3 **Themeda villosa** (Poir.) A. Camus, **FMP5** 212, **G08** 301; clumping herb 2–4 m tall; sandy waste places, riverbanks, seashores; Ps, Kd, Kl, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 220.87.1 **Thuarea involuta** (G. Forst.) R.Br. *ex* Roem. & Schult., **G08** 207; *Thuarea sarmentosa* Pers., **FMP5** 236; creeping herb 5–10 cm tall; sea shores; Kd, Kl, Tg, Pn, Ph, Jh, Sp.
- 220.88.1 **Thysanolaena latifolia** (Roxb. *ex* Hornem.) Honda, **B01** 451; *Thysanolaena agrostis* Nees, **FMP5** 241; *Thysanolaena maxima* (Roxb.) Kuntze, **G08** 45; tufted reed to 3 m tall; open places to 1300 m; Pn, Pk, Sl, Jh, Sp.
- 220.89.1 **Tripsacum dactyloides** (L.) L., **G08** 309; densely clumped herb 3–4 m tall; plantations, waste places; Ph, NS, Ml, Sp; ?naturalized from tropical America.
- 220.89.2 **Tripsacum laxum** Nash, **G08** 308; herb to 3 m tall; plantations; Sl; naturalized from tropical America.
- 220.90.1 **Urochloa distachya** (L.) T.-Q. Nguyen, **N05** 13; *Brachiaria distachya* (L.) Stapf, **FMP5** 219, **G08** 176; decumbent herb 30–45 cm tall; open places in the lowlands; common throughout.
- 220.90.2 **Urochloa mutica** (Forssk.) T.-Q. Nguyen, **N05** 13; *Brachiaria mutica* (Forssk.) Stapf, **FMP5** 219, **G08** 178, **M47** 392; long-creeping herb to 2 m tall; damp places in the lowlands; Kd, Pk, Sl, Jh, Sp.
- 220.90.3 **Urochloa paspaloides** Presl; J.F. Veldkamp *pers. comm.*; *Brachiaria paspaloides* (Presl) C.E. Hubb., **G08** 179, **M47** 394; creeping herb to 75 cm tall; weed of cultivation, waste places, sometimes on limestone; Ps, Kd, Pk, Ph, Sl, Jh, Sp.

- 220.90.4 **Urochloa pubigera** (Roem. & Schult.) R.D. Webster, **W09** 250; *Brachiaria holotricha* Ohwi, **G08** 176; *Brachiaria pubigera* (Roem. & Schult.) S.T. Blake, **L13** 108; glaucous herb to 100 cm or more tall; Pn.
- 220.90.5 **Urochloa reptans** (L.) Stapf, **FMP5** 220; *Brachiaria reptans* (L.) Gardn. & C.E. Hubb., **G08** 175, **M47** 396; slender glaucous herb to 30 cm tall; open places in the lowlands; Ph, Jh, Sp.
- 220.90.6 **Urochloa subquadriflora** (Trin.) R.D. Webster, **W09** 252; *Brachiaria miliiformis* (Presl) A. Chase, **L13** 108; decumbent herb to 1.5 m tall; roadsides, waste ground.
- 220.91.1 **Vetiveria nemoralis** (Balansa) A. Camus, **G08** 231; densely tufted herb to 75 cm tall; rocky places in rivers; Sg Nipah, Tg, and Sg Tahan, Ph.
- 220.92.2 **Vetiveria zizanioides** (L.) Nash, **G08** 232; *Vetiveria odorata* Virey, **FMP5** 208; rhizomatous herb to 2 m or more tall; waste places; Kd, Pn, Pk, Sl, Sp; naturalized from tropical Africa.
- 220.93.1 **Zoysia matrella** (L.) Merr., **G08** 109, **G13** 171; *Zoysia pungens* Willd., **FMP5** 243; mat-forming herb to 35 cm tall; sandy shores above high tide line; Tg, Pn, Ph, Sl, NS, Ml, Jh, Sp.

221. HANGUANACEAE

- 221.1.1 **Hanguana malayana** (Jack) Merr., **FMi4** 249; *Susum anthelminthicum* Blume ex Roem. & Schult., **FMP4** 369; *Susum malayanum* (Jack) Planch. ex Hook.f., **FMP4** 369; herb to 2 m tall, terrestrial or aquatic; in lowland and hill forests to 1500 m or in lowland ponds and rivers; widespread.

222. HYDROCHARITACEAE

- 222.1.1a **Blyxa aubertii** Rich. var. **aubertii**, **FMi5** 390, **C24** 9; *Blyxa malayana* Ridl., **FMP4** 3; aquatic of pools, marshes and rice fields; to 1200 m; Pn, Tg, Pk, Jh, Sp.
- 222.1.1b **Blyxa aubertii** Rich. var. **echinosperma** (C.B. Clarke) C.D.K. Cook & Löönd, **C24** 14, **M47** 302; *Blyxa echinosperma* (C.B. Clarke) Hook.f., **FMi5** 391; aquatic herb; pools up to 250 m; Pn.
- 222.1.2a **Blyxa japonica** (Miq.) Maxim. ex Asch. & Gürke var. **alternifolia** (Miq.) C.D.K. Cook & Löönd, **C24** 25; *Enhydris angustipetala* Ridl., **FMP4** 2; *Blyxa alternifolia* (Miq.) Hartog, **FMi5** 392; aquatic herb; muddy ponds and ditches; Ps, Pk, Ml, Sp.

- 222.1.2b **Blyxa japonica** (Miq.) Maxim. ex Asch. & Gürke var. **japonica**. **FMi5** 393, **C24** 21; *Enhydris angustipetala* Ridl. var. *latifolia* Ridl., **FMP4** 2; flaccid aquatic herb: stagnant pools; Pk, Ml.
- 222.2.1 **Enhalus acoroides** (L.f.) Royle. **FMi5** 402, **D24** 215; *Enhalus koenigii* Rich., **FMP4** 4; sea grass; growing to depths of 4 m; NS, Sp.
- 222.3.1 **Halophila beccarii** Asch., **FMi5** 411, **D24** 261; sea grass; only uncovered at extreme low tides; Jh, Sp.
- 222.3.2 **Halophila minor** (Zoll.) Hartog, **FMi5** 410; *Halophila ovata* Gaud., **D24** 251; sea grass; to depths of 2 m; Sp.
- 222.3.3 **Halophila ovalis** (R.Br.) Hook.f., **FMi5** 408, **D24** 240; *Halophila ovata* (non Gaudich.) Ridl., **FMP4** 4; sea grass; to at least 10 m underwater; Kd, Pk, Sp.
- 222.3.4 **Halophila spinulosa** (R.Br.) Asch., **FMi5** 412, **D24** 263; sea grass; down to 15 m; Jh, Sp.
- 222.4.1 **Hydrilla verticillata** (L.f.) Royle, **FMP4** 1, **FMi5** 385, **M47** 304; aquatic herb; rivers, ditches and pools; widespread.
- 222.5.1 **Najas indica** (Willd.) Cham., **FMi6** 166; *Najas kingii* Rendle, **FMP4** 366; *Najas minor* (non All.) Hook.f., **FMP4** 366; aquatic herb to 40 cm long; rivers, streams, ditches etc.; scattered.
- 222.5.2 **Najas malesiana** W.J. de Wilde, **FMi6** 169, **M47** 364; *Najas graminea* (non Delile) Ridl., **FMP4** 365 incl. var. *angustifolia* Rendle; aquatic herb to 15 cm long; lowland forest streams and pools; widespread.
- 222.6.1 **Ottelia alismoides** (L.) Pers., **FMP4** 3, **FMi5** 398, **M47** 306; aquatic herb; lowland ponds and sluggish streams.
- 222.7.1 **Thalassia hemprichii** (Ehrenb.) Asch., **FMi5** 406, **D24** 232; sea grass; commonly on coral sand; Jh, Sp.

223. HYPOXIDACEAE

- 223.1.1 **Hypoxis aurea** Lour., **FMP4** 298, **FMi11** 370; hairy herb to 30 cm tall; sandy grassy spots; north and east of Malaya.
- 223.2.1 **Molineria capitulata** (Lour.) Herb., **B04** 209; *Curculigo recurvata* Dryand., **FMP4** 299; *Curculigo capitulata* (Lour.) Kuntze, **FMi11** 367; hairy herb to over 1 m tall; lowland and hill forests; widespread.

223.2.2a **Molineria latifolia** (Dryand.) Herb. ex Kurz var. **latifolia**, **B04** 209; *Curculigo latifolia* Dryand., **FMP4** 300 incl. var. *glabrescens* Ridl., **FMi11** 369; *Curculigo villosa* Wall. ex Kurz, **FMP4** 300; hairy herb to over 1 m tall; forests and forest margins, lowlands to mountain tops; throughout.

223.2.2b **Molineria latifolia** (Dryand.) Herb. ex Kurz var. **megacarpa** (Ridl.) I.M. Turner, **T24** 222; *Curculigo megacarpa* Ridl., **FMP4** 300; *Curculigo latifolia* Dryand. var. *megacarpa* (Ridl.) Geerinck, **FMi11** 369; tufted herb; lower montane forest; Taiping Hills, Pk.

224. IRIDACEAE

224.1.1 **Trimezia martinicensis** (Jacq.) Herb., **T18** 110, **C26** 663; bulbous herb to 60 cm tall; grassy places; widespread; naturalized from the Caribbean.

225. JOINVILLEACEAE

225.1.1 **Joinvillea ascendens** Brongn. & Gris ssp. **borneensis** (Becc.) Newell, **S52** 225; *Joinvillea malayana* Ridl., **FMP4** 368; *Joinvillea borneensis* Becc., **FMi4** 245; clumped reed-like herb 1.5–4.5 m tall; dry open spots in the hills; widespread.

226. JUNCACEAE

226.1.1 **Juncus prismatocarpus** R.Br., **K13** 91; herb; damp waste ground in the mountains; Cameron Highlands, Ph; dubiously native.

227. LEMNACEAE

227.1.1 **Lemna perpusilla** Torr., **FMi7** 230; *Lemna paucicostata* Hegelm., **FMP5** 132; tiny floating single-rooted plant about 4 mm across; still water bodies; widespread.

227.1.2 **Lemna tenera** Kurz, **FMP5** 132, **FMi7** 235; tiny submerged single-rooted aquatic herb to 7 mm long; ditches, ponds and rice-fields; Pn, Pk, Sp.

227.2.1 **Spirodela polyrhiza** (L.) Schleid., **FMi7** 224; *Lemna polyrhiza* L., **FMP5** 132; tiny floating many-rooted plant about 8 mm across; still water bodies; widespread.

227.2.2 **Spirodela punctata** (G. Mey.) C.H. Thomps., **FMi7** 225; tiny floating few-rooted plant about 4 mm across; still water bodies; Ph.

- 227.3.1 **Wolffia globosa** (Roxb.) Hartog & Plas, **FM17** 236; *Wolffia arrhiza* [non (L.) Horkel ex Wimm.] G. Martens, **FMP5** 132; miniscule floating rootless plant barely 1 mm in diameter; stagnant pools and ditches; Sl, Ml, Sp.

228. LIMNOCHARITACEAE

- 228.1.1 **Limnocharis flava** (L.) Buchenau, **FM15** 120, **M47** 118; herb to 1 m tall; shallow water, rice-fields; widespread; naturalized from tropical America.

229. LOWIACEAE

- 229.1.1 **Orchidantha fimbriata** Holttum, **H46** 243, **FM12** 769; *Orchidantha longiflora* sensu Ridl., **FMP4** 292; herb to 100 cm; lowland and hill forest; Tg, Pk, Ph, Sl, Jh; endemic.
- 229.1.2 **Orchidantha longiflora** (Scort.) Ridl., **H46** 245, **FM12** 772; *Orchidantha calcarea* M.R. Hend., **H33** 125; herb about 50 cm tall; lowland forest; Pk, Sl; endemic.
- 229.1.3 **Orchidantha maxillarioides** (Ridl.) K. Schum., **FMP4** 293, **H46** 245, **FM12** 772; herb to about 30 cm; lowland forest; Ph; endemic.

230. MARANTACEAE

- 230.1.1 **Donax grandis** (Miq.) Ridl., **FMP4** 286, **H42** 268; lowland forest herb to 5 m tall; widespread.
- 230.1.2 **Donax parviflorus** Ridl., **FMP4** 287 '*parviflorum*', **H42** 270; forest herb; Kl, Pk, Ph, Sl.
- 230.2.1 **Phacelophrynium maximum** (Blume) K. Schum., **H42** 295; *Phacelophrynium tapirorum* K. Schum., **FMP4** 289; forest herb; wet ground near streams; Tg, Ph, Sl, Jh.
- 230.3.1 **Phrynium gracile** Holttum, **H42** 282; herb; known only from Jh.
- 230.3.2 **Phrynium hirtum** Ridl., **FMP4** 289, **H42** 290; herb; lowland and hill forest; Tg, Pk, Sl, NS, Jh.
- 230.3.3 **Phrynium parvum** (Ridl.) Holttum, **H42** 283; *Stachyphrynium parvum* Ridl., **FMP4** 288; herb; lowland forest; Jh, Sp.
- 230.3.4 **Phrynium pubinerve** Blume, **T19** 129; *Phrynium malaccense* Ridl., **FMP4** 290; *Phrynium capitatum* Willd., *nom. illeg.*, **H42** 287; lowland and hill forest herb; widespread.

- 230.3.5 **Phrynium terminale** Ridl., **FMP4** 290, **H42** 293; herb to 1 m tall; lowland forest; Kd, Pk; endemic.
- 230.3.6 **Phrynium tristachyum** Ridl., **FMP4** 290, **H42** 286, **K11** 728; herb; forest; Sl, NS, Jh.
- 230.3.7 **Phrynium villosulum** Miq., **K11** 728; *Phrynium basiflorum* Ridl., **FMP4** 289, **H42** 292; herb; swampy lowland forest; Pk, NS, Jh, Sp.
- 230.3.8 **Phrynium sp.**, **H42** 282; forest herb; Tg.
- 230.4.1 **Schumannianthus dichotomus** (Roxb.) Gagnep., **H42** 272; *Donax arundastrum* (non Lour.) Schum., **FMP4** 286; herb to 2.5 m tall; forming thickets in wet forest.
- 230.5.1 **Stachyphrynium cylindricum** (Ridl.) K. Schum., **FMP4** 287, **H42** 278, **C16** 40; tufted herb; limestone; Kd, Kl, Pk.
- 230.5.2 **Stachyphrynium griffithii** (Baker) K. Schum., **FMP4** 287, **H42** 276; herb; lowland forest; Pk/Ph southward; endemic.
- 230.5.3 **Stachyphrynium jagorianum** (K. Koch) K. Schum., **FMP4** 288, **H42** 274; herb of partial shade; Tg, Pn, Pk, Ph, Sl, NS.
- 230.5.4 **Stachyphrynium sp.**, **H42** 275; one coll. Temango, Pk.

231. MELANTHIACEAE

- 231.1.1 **Petrosavia stellaris** Becc., **FMI9** 199; *Protolirion paradoxum* Ridl., **FMP4** 322; rhizomatous yellow saprophytic herb to 11 cm tall; dry spots in lower montane forest; Kd, Pk, Ph.

232. MUSACEAE

- 232.1.1a **Musa acuminata** Colla ssp. **malaccensis** (Ridl.) N.W. Simmonds, **S77** 466, **H52** 68; *Musa malaccensis* Ridl., **FMP4** 294 including var. *minor* Ridl.; *Musa flava* Ridl., **FMP4** 294; banana to 6 m tall; lowland to lower montane forest; Ps, Kd, Kl, Tg, Pn, Ph, Ml.
- 232.1.1b **Musa acuminata** Colla ssp. **microcarpa** (Becc.) N.W. Simmonds, **S77** 467; *Musa truncata* Ridl., **FMP4** 294; banana to 6 m tall; commoner in the mountains; Kd, Tg, Ph, Sl.
- 232.1.1c **Musa acuminata** Colla ssp. **siamca** N.W. Simmonds, **S77** 466; banana to 6 m tall; lowlands and hills; Ps, Kd, Kl.

232.1.2 **Musa gracilis** Holttum: **S77** 488, **K28** 239; **H52** 72; slender banana to 2 m tall; lowland forest; Kl, Tg, Ph, Ml, Jh.

232.1.3 **Musa violascens** Ridl.: **FMP4** 294, **S77** 487; slender banana to 3 m tall; lowland and hill forest; Pk, Ph, Sl, NS; endemic.

233. ORCHIDACEAE

233.1.1 **Abdominea minimiflora** (Hook.f.) J.J.Sm., **H44** 640, **S20** 590; *Saccolabium minimiflorum* Hook.f, **FMP4** 166; tiny epiphyte; hill and montane forest; Pk, Ph, Sl.

233.2.1 **Acampe rigida** (Buch.-Ham. ex Sm.) P.F. Hunt, **S20** 590; *Acampe penangiana* Ridl., **FMP4** 155; *Acampe longifolia* (Lindl.) Lindl., **H44** 625; herb of exposed places; P. Langkawi, Pg.

233.3.1 **Acanthephippium javanicum** Blume, **FMP4** 116, **H44** 148, **S20** 157; herb to about 45 cm tall; hill forest: about 600 m; Pn, Ph, NS.

233.3.2 **Acanthephippium striatum** Lindl., **H44** 148, **S20** 157; herb to about 45 cm tall; one doubtful collection; Fraser's Hill, Ph.

233.3.3 **Acanthephippium sylhetense** Lindl., **H44** 148, **S20** 157; herb to about 45 cm tall; one doubtful collection; Cameron Highlands, Ph.

233.4.1 **Acriopsis carrii** Holttum, **H44** 557, **S20** 566; epiphyte to 40 cm tall; on epiphytic ferns in limestone forest or river side trees; Kl, Tg; Endemic.

233.4.2 **Acriopsis densiflora** Lindl., **H44** 555, **S20** 563; *Acriopsis purpurea* Ridl., **FMP4** 191; epiphyte about 10 cm tall; collected once; Pekan, Ph.

233.4.3 **Acriopsis indica** Wight, **FMP4** 190, **H44** 557, **S20** 566; epiphyte; hill and montane forest; Kd, Kl, Pn, Ph.

233.4.4 **Acriopsis liliiflora** (Koenig) Ormerod, **S19** 58; *Acriopsis javanica* Reinw. ex Blume, **FMP4** 190, **H44** 555, **S20** 563; epiphyte to 40 cm tall; on trees in open places; common in lowlands throughout.

233.4.5 **Acriopsis ridleyi** Hook.f., **FMP4** 190, **H44** 556, **S20** 563; epiphyte to 30 cm tall; lowland and montane forest; Ph, Jh, Sp.

233.5.1 **Adenoncos major** Ridl., **FMP4** 154, **H44** 597, **S20** 583; epiphyte to 30 cm tall; lowland forest to 500 m; commonest in the south.

233.5.2 **Adenoncos parviflora** Ridl., **FMP4** 154, **H44** 598, **S20** 583; epiphyte to 15 cm long; lowland forest; Sl.

233.5.3 **Adenoncos vesiculosa** Carr, **H44** 598, **S20** 583; epiphyte to 15 cm long; montane forest; Ph, Sl.

- 233.5.4 **Adenoncos sumatrana** J.J.Sm, **H44** 593, **S20** 583; *Adenoncos virens* (non Blume) Ridl., **FMP4** 154; epiphyte to 15 cm long; lowlands and mountains to 1350 m; widespread.
- 233.6.1 **Aerides krabiensis** Seidenf., **S20** 673; *Aerides multiflora auct. non* Roxb., **FMP4** 183, **H44** 700; tufted herb; on exposed limestone rocks; Kd, P. Langkawi.
- 233.6.2 **Aerides odorata** Lour.; **FMP4** 182, **H44** 698, **S20** 673; lowland epiphyte; common on trees near the sea.
- 233.7.1 **Agrostophyllum bicuspidatum** J.J.Sm., **FMP4** 108 in part, **H44** 487, **S20** 319; epiphyte to 40 cm long; lowland and montane forest; rather common.
- 233.7.2 **Agrostophyllum cyathiforme** J.J.Sm, **H44** 487, **S20** 324; epiphyte to 50 cm long; montane forest; Kd, Ph.
- 233.7.3 **Agrostophyllum elongatum** (Ridl.) Schuit., **S20** 321; *Agrostophyllum hasseltii* (Blume) J.J.Sm., **FMP4** 108, **H44** 488; epiphyte/epilith to 120 cm long; on rocks or riverside trees; lowlands and highlands.
- 233.7.4 **Agrostophyllum glumaceum** Hook.f., **FMP4** 108, **H44** 489, **S20** 321; epiphyte to 20 cm long; on trees by streams; lowlands and mountains; widespread.
- 233.7.5 **Agrostophyllum longifolium** (Blume) Rechb.f., **H44** 485, **S20** 321; large epiphyte; montane forest; Cameron Highlands, Ph.
- 233.7.6 **Agrostophyllum majus** Hook.f., **FMP4** 107, **H44** 489, **S20** 321; epiphyte to 100 cm long; lowlands and mountains on exposed trees; widespread.
- 233.7.7 **Agrostophyllum stipulatum** (Griff.) Schltr., **S20** 319; *Agrostophyllum bicuspidatum* (non J.J.Sm.) Ridl., **FMP4** 108 in part; epiphyte to 40 cm long; lowlands and mountains; Kd, Pn, Sp.
- 233.7.8 **Agrostophyllum tenue** J.J.Sm., **H44** 491, **S20** 324; epiphyte to 60 cm long; montane forest; Ph, Pk, Sl.
- 233.8.1 **Ainia penangiana** (Hook.f.) Summerh., **T17** 55; *Ascotainia penangiana* Ridl., **FMP4** 112; *Tainia penangiana* Hook.f., **H44** 182, **S20** 156; herb to 75 cm tall; grassy places in the hills; Kd, Pn, Pk.
- 233.9.1 **Anoectochilus albolineatus** C.S.P. Parish & Rechb.f., **FMP4** 213, **H44** 127, **S20** 73; *Anoectochilus reinwardtii* (non Blume) Ridl., **FMP4** 213; herb to 12 cm tall; montane forests at 1200–1700 m; widespread.
- 233.9.2 **Anoectochilus brevistylus** (Hook.f.) Ridl., **S20** 76, **H44** 128, **FMP4** 214; herb to 30 cm tall; montane forest; Pk, Ph.

- 233.9.3 **Anoectochilus burmannicus** Rolfe, **S20** 73; herb about 4 cm tall; montane forest; only known from Gg Ledang, Jh.
- 233.9.4 **Anoectochilus calcaratus** (Hook.f.) Ridl., **FMP4** 214, **H44** 128, **S20** 75; herb about 7 cm tall; hill forest about 1000 m; Pk, Ph.
- 233.9.5 **Anoectochilus geniculatus** Ridl., **FMP4** 213, **H44** 127, **S20** 73; herb to about 15 cm tall; lowland and hill forest to 900 m; Pn southwards.
- 233.9.6 **Anoectochilus pectinatus** (Hook.f.) Ridl., **FMP4** 214, **H44** 129, **S20** 76; herb to 20 cm tall; montane forest about 1000 m; only known from Gg Hijau, Pk; endemic.
- 233.9.7 **Anoectochilus pomrangianus** Seidenf., **S20** 75; *Zeuxine abbreviata* Hook.f., **H44** 133; herb to 13 cm tall; montane forest; once collected at the Cameron Highlands, Ph.
- 233.9.8 **Anoectochilus repens** (Downie) Seidenf. & Smitinand, **S20** 75; *Anoectochilus duplex* Holttum, **H44** 128; herb about 10 cm tall; montane forest; Ph.
- 233.10.1 **Aphyllorchis montana** Rechb.f., **S20** 45; *Aphyllorchis prainii* Hook.f., **H44** 102; saprophytic herb to 1 m tall; montane forest; found once in the Cameron Highlands, Ph.
- 233.10.2 **Aphyllorchis pallida** Blume, **FMP4** 205, **H44** 102, **S20** 44; saprophytic herb to 50 cm tall; lowland forest; widespread.
- 233.10.3 **Aphyllorchis striata** (Ridl.) Ridl., **FMP4** 205, **H44** 102, **S20** 45; saprophytic herb to 1 m tall; lowland forest; Kl, Ph, Jh.
- 233.11.1 **Apostasia elliptica** J.J.Sm., **S20** 37; herb to 35 cm tall; montane forest; only known from Gg Korbu, Pk.
- 233.11.2 **Apostasia latifolia** Rolfe, **FMP4** 297, **H44** 66, **S20** 37; herb to 50 cm tall; hill and montane forest; Pk, Ph, Ml; endemic.
- 233.11.3 **Apostasia nuda** R.Br., **FMP4** 297, **H44** 66, **S20** 37; herb to 50 cm tall; lowland and hill forest to 900 m; widespread.
- 233.11.4 **Apostasia odorata** Blume, **S20** 35; *Apostasia platystylis* J.J.Sm., **H44** 66; herb; lowland forest; Kd, Ph.
- 233.11.5 **Apostasia wallichii** R.Br., **FMP4** 297, **H44** 65, **S20** 35; herb about 25 cm tall; lowland forest to 600 m; scattered localities.
- 233.12.1 **Appendicula anceps** Blume, **FMP4** 195, **H44** 505, **S20** 329; epiphyte to 45 cm long; lowland and hill forest to 1050 m; widespread common.

- 233.12.2 **Appendicula cornuta** Blume, **FMP4** 196, **H44** 509, **S20** 332; epiphyte to 50 cm long; lowland forests; common.
- 233.12.3 **Appendicula densifolia** (Ridl.) Ridl., **FMP4** 197, **H44** 507, **S20** 329; epiphyte to 35 cm long; on trees by rivers; Tg, Ph, Sl, Jh; endemic.
- 233.12.4 **Appendicula lucida** Ridl., **FMP4** 196, **H44** 509, **S20** 330; epiphyte to 25 cm long; mostly on riverside trees; south of Malaya.
- 233.12.5 **Appendicula ovalis** (Schltr.) J.J.Sm., **H44** 504, **S20** 325; *Appendicula purpurascens* (non Blume) Ridl., **FMP4** 195 in part; pendulous epiphyte to 60 cm long; montane forest; not uncommon.
- 233.11.6a **Appendicula pendula** Blume var. **latibracteata** (J.J.Sm.) Holttum, **S20** 327; pendulous epiphyte to 2 m long; on trees by rivers; Ph, Jh.
- 233.12.6b **Appendicula pendula** Blume var. **pendula**, **FMP4** 198, **H44** 504, **S20** 327; *Appendicula lancifolia* Hook.f., **FMP4** 198; pendulous epiphyte to 2 m long; lowland and montane forest; fairly common.
- 233.12.7 **Appendicula reflexa** Blume, **FMP4** 197, **H44** 507, **S20** 330; *Appendicula robusta* Ridl., **FMP4** 197; epiphyte to 60 cm long; lowland and montane forest; Kd, Pk, Ph, Jh.
- 233.12.8 **Appendicula rupestris** Ridl., **FMP4** 197, **H44** 507, **S20** 329; erect herb about 25 cm tall; rheophyte of mountain streams; Pk, Ph; endemic.
- 233.12.9 **Appendicula torta** Blume, **FMP4** 198, **H44** 505 incl. var. *alba* J.J.Sm., **S20** 327; epiphyte to 25 cm long; hill forest; Kl, Pk, Sl.
- 233.12.10 **Appendicula uncata** Ridl., **FMP4** 196, **H44** 508, **S20** 330; epiphyte to 40 cm long; lowland forests; south of Peninsula.
- 233.12.11 **Appendicula undulata** Blume, **H44** 505, **S20** 329; *Appendicula purpurascens* (non Blume) Ridl., **FMP4** 195 in part; epiphyte to 80 cm long; on riverside trees, also on limestone rocks (Ph).
- 233.13.1 **Arachnis flosaeris** (L.) Rchb.f., **H44** 616 incl. var. *gracilis* Holttum, **S20** 633; *Arachnis moschifera* Blume, **FMP4** 159; scrambler on limestone rocks, or mangrove epiphyte; Pk, Ph, Sl, NS.
- 233.13.2 **Arachnis hookeriana** (Rchb.f.) Rchb.f., **H44** 614, **S20** 633; *Arachnis alba* (Ridl.) Schltr., **FMP4** 159; scrambler; in scrub near the seashore; commonest along east coast.
- 233.13.3 **Arachnis maingayi** (Hook.f.) Schltr., **FMP4** 159, **H44** 618, **S20** 634; scandent herb; usually near the sea; south of the Peninsula.

- 233.14.1 **Arundina graminifolia** (D. Don) Hochr., **H44** 188, **S20** 146; *Arundina bambusifolia* Lindl., **FMP4** 125; *Arundina revoluta* Hook.f., **FMP4** 126; *Arundina speciosa* Blume; **FMP4** 126; sedge-like herb to over 2 m tall; open sunny places in lowlands and mountains; widespread.
- 233.15.1 **Ascidieria longifolia** (Hook.f.) Seidenf., **S20** 306; *Eria longifolia* Hook.f., **FMP4** 88, **H44** 381; tufted epiphyte about 25 cm long; montane forests above 1300 m; widespread.
- 233.16.1 **Ascocentrum miniatum** (Lindl.) Schltr., **H44** 735, **S20** 691; *Saccolabium miniatum* Lindl., **FMP4** 172; epiphyte to 25 cm long; on trees; Ps, P, Langkawi.
- 233.17.1 **Ascochilopsis myosurus** (Ridl.) Carr, **H44** 707, **S20** 660; *Saccolabium myosurus* Ridl., **FMP4** 173; epiphyte to about 10 cm tall; lowlands; Kl, Ph, Sl, Jh.
- 233.18.1 **Ascochilus fasciculatus** (Carr) Garay, **S20** 665; *Sarcochilus fasciculatus* Carr, **H44** 690; small epiphyte up to 10 cm tall; known only from Krian, Pk; endemic.
- 233.18.2 **Ascochilus siamensis** Ridl., **FMP4** 181, **S20** 665; *Sarcochilus siamensis* (Ridl.) Carr, **H44** 689; tiny epiphyte a few cm tall; north of Peninsula.
- 233.19.1 **Biermannia ciliata** (Ridl.) Garay, **S20** 685; *Dendrocolla ciliata* Ridl., **FMP4** 188; *Sarcochilus ciliatus* (Ridl.) J.J.Sm., **H44** 690; small epiphyte about 5 cm tall; lowland forest; Tg, Pk, Ph (one locality each).
- 233.19.2 **Biermannia flava** (Carr) Garay, **S20** 685; *Chamaeanthus flavus* Carr, **H44** 680; tiny fleshy-leaved epiphyte a few cm tall; lowland forest; Ph; endemic.
- 233.19.3 **Biermannia laciniata** (Carr) Garay, **S20** 685; *Chamaeanthus laciniatus* Carr, **H44** 680; tiny fleshy-leaved epiphyte a few cm tall; lowland swamp and riverside trees; Ph, Sp; endemic.
- 233.19.4 **Biermannia sarcanthoides** (Ridl.) Garay, **S20** 686; *Bulbophyllum sarcanthoides* Ridl., **FMP4** 71; *Chamaeanthus sarcanthoides* (Ridl.) Carr, **H44** 680; tiny fleshy-leaved epiphyte a few cm tall; only known from type; Tebrau, Jh; endemic.
- 233.20.1 **Brachypeza indusiata** (Rchb.f.) Garay, **S20** 681; *Sarcochilus stenoglottis* Hook.f., **FMP4** 179, **H44** 683; short-stemmed epiphyte; lowland forest; Kl, Pk, Ph.
- 233.21.1 **Bromheadia alticola** Ridl., **FMP4** 151, **H44** 543, **S20** 525; pendulous bushy epiphyte to 60 cm long; lowland and hill forest to 600 m; widespread.
- 233.21.2 **Bromheadia aporoides** Rchb.f., **S20** 529; tufted epiphyte 6–12 cm tall; lowland forest; Sp.

- 233.21.3 **Bromheadia borneensis** J.J.Sm., **S20** 525; herb to 75 cm tall; one collection from Jh.
- 233.21.4 **Bromheadia brevifolia** Ridl., **FMP4** 151, **H44** 545, **S20** 527; epiphyte to 30 cm long; montane forest: Pk, Ph, Sl; endemic.
- 233.21.5 **Bromheadia finlaysoniana** (Lindl.) Miq., **H44** 541, **S20** 525; *Bromheadia palustris* Lindl., **FMP4** 150; *Bromheadia sylvestris* Ridl., **FMP4** 150; herb occasionally to 2 m tall; lowland secondary forest and scrub; common throughout.
- 233.21.6 **Bromheadia** sp. (*B. pandurata*), **S20** 527; herb about 50 cm tall; known only from type; Gg Ledang, Ml; endemic.
- 233.21.7 **Bromheadia pungens** Ridl., **FMP4** 151, **H44** 545, **S20** 527; epiphyte about 40 cm long; montane forest: Gg Tahan, Ph, and Gg Ledang, Ml; endemic.
- 233.21.8 **Bromheadia rupestris** Ridl., **FMP4** 150, **H44** 545, **S20** 527; herb to 1.5 m tall; lower montane forest: Gg Jerai, Kd; Gg Tahan, Ph, P. Tioman and Gg Ledang, Ml; endemic.
- 233.21.9 **Bromheadia scirpoidea** Ridl., **FMP4** 151, **H44** 546, **S20** 529; epiphyte about 20 cm long; lowland forest; widespread but not common.
- 233.21.10 **Bromheadia truncata** Seidenf., **S20** 529; *Bromheadia aporoides* auct. non Rchb.f., **FMP4** 151, **H44** 545; tufted epiphyte about 10 cm long; lowland and montane forest; widespread.
- 233.22.1 **Bulbophyllum abbrevilabium** Carr, **H44** 428, **S20** 509; epiphyte; on riverside trees; known only from Sg Sat, Ph.
- 233.22.2 **Bulbophyllum acuminatum** (Ridl.) Ridl., **FMP4** 79, **H44** 414, **S20** 447; *Bulbophyllum stenophyllum* Ridl., **FMP4** 80; creeping epiphyte; on old mangrove and riverside trees; Jh, Sp.
- 233.22.3 **Bulbophyllum alcicorne** C.S.P. Parish & Rchb.f., **FMP4** 66, **H44** 462, **S20** 497; creeping epiphyte about 10 cm tall; widespread.
- 233.22.4 **Bulbophyllum angustifolium** (Blume) Lindl., **H44** 454, **S20** 472; *Bulbophyllum capitatum* (non Lindl.) Ridl., **FMP4** 70; creeping epiphyte with pendulous branches; montane forest; not uncommon.
- 233.22.5 **Bulbophyllum annandalei** Ridl., **FMP4** 78, **H44** 408, **S20** 441; epiphyte about 10 cm tall; lower montane forest; about 1000 m; only known from the Genting Highlands, Sl.
- 233.22.6 **Bulbophyllum apodum** Hook.f., **FMP4** 73, **H44** 446, **S20** 463; *Bulbophyllum vaginulosum* Carr, **H44** 447; epiphyte; lowland and montane forest; south of Peninsula.

- 233.22.7 **Bulbophyllum armeniacum** J.J.Sm., **H44** 449, **S20** 459; epiphyte about 30 cm tall; montane forest; Tg, Ph.
- 233.22.8 **Bulbophyllum bakhuizenii** Steenis, **S20** 471; *Bulbophyllum multiflorum* [non Ridl.] (Breda) Kraenzl., **H44** 454; long-creeping epiphyte; Kd, Pk, Ph.
- 233.22.9 **Bulbophyllum biflorum** Teijsm. & Binn., **H44** 407, **S20** 451; epiphyte; montane forest; Ph, Sl.
- 233.22.10 **Bulbophyllum biseriale** Carr, **H44** 435, **S20** 512; epiphyte; montane forest; about 1800 m; only known from G. Tahan, Ph.
- 233.22.11 **Bulbophyllum blepharistes** Rchb.f, **S20** 432; epiphyte; one old collection from Pn.
- 233.22.12 **Bulbophyllum blumei** (Lindl.) J.J.Sm., **FMP4** 74, **H44** 406, **S20** 517; creeping epiphyte; on mangrove and riverside trees; south of Malaya.
- 233.22.13 **Bulbophyllum botryophorum** Ridl., **FMP4** 69, **H44** 457, **S20** 494; creeping epiphyte; on mangrove and riverside trees; Ph, Jh, Sp.
- 233.22.14 **Bulbophyllum brevipes** Ridl., **FMP4** 70, **H44** 453, **S20** 471; creeping epiphyte; montane forest; about 1300 m; Gg Bujang Melaka, Pk and Fraser's Hill, Ph.
- 233.22.15 **Bulbophyllum catenarium** Ridl., **FMP4** 61 in part, **S20** 512; *Bulbophyllum carunculaelabrum* Carr, **H44** 435; epiphyte; Tg, Sl, Jh.
- 233.22.16 **Bulbophyllum caudatisepalum** Ames & Schweinf., **S20** 459; epiphyte; one old collection; Kluang Terbang, Ph.
- 233.22.17 **Bulbophyllum cheiri** Lindl., **S20** 479; *Bulbophyllum megalanthum* Griff., **FMP4** 57, **H44** 416; epiphyte; on trees near the sea; Tg, Ml.
- 233.22.18 **Bulbophyllum cheiropetalum** Ridl., **H44** 428, **S20** 507; epiphyte; montane forest; Kd, Ph, Sl.
- 233.22.19 **Bulbophyllum cleistogamum** Ridl., **FMP4** 69, **H44** 401, **S20** 493; epiphyte; usually in the lowlands; Kd, Pn, Pk, Sl, Jh, Sp.
- 233.22.20 **Bulbophyllum comberi** J.J. Verm., **S20** 519; *Bulbophyllum ciliatum* [non (Blume) Lindl.] Holtum, **H44** 439; epiphyte; montane forest; collected once at Cameron Highlands, Ph.
- 233.22.21 **Bulbophyllum concinnum** Hook.f., **FMP4** 70, **H44** 454, **S20** 471; epiphyte; on mangrove and riverside trees; Jh, Sp.
- 233.22.22 **Bulbophyllum coniferum** Ridl., **FMP4** 67, **H44** 462, **S20** 497; *Bulbophyllum musciferum* Ridl., **FMP4** 66, **H44** 462; epiphyte; montane forest; Kd, Ph.

- 233.22.23 **Bulbophyllum crassipes** Hook.f., **S20** 488; epiphyte; one old and possibly wrongly localised collection from Pn.
- 233.22.24 **Bulbophyllum cupreum** Lindl., **S20** 488; epiphyte; poorly known species possibly native to Malaya.
- 233.22.25 **Bulbophyllum cuspidipetalum** J.J.Sm., **H44** 424, **S20** 485; epiphyte; montane forest; once collected on Gg Panti, Jh.
- 233.22.26 **Bulbophyllum dearei** (Hort.) Rchb.f, **S20** 481; *Bulbophyllum reticosum* Ridl., **H44** 420; epiphyte; montane forest; Gg Belumut and Gg Pulai, Jh.
- 233.22.27 **Bulbophyllum dentiferum** Ridl., **S20** 443; *Bulbophyllum cyclosepalon* Carr, **H44** 410; creeping epiphyte; Kl, Pk, Ph.
- 233.22.28 **Bulbophyllum diplantherum** Carr, **H44** 453, **S20** 468; creeping epiphyte; Ph, Sl; endemic.
- 233.22.29 **Bulbophyllum dryas** Ridl., **FMP4** 62, **H44** 437, **S20** 461; epiphyte; on exposed trees on mountains at 1300–1500 m; Ph.
- 233.22.30 **Bulbophyllum elongatum** (Blume) Hassk., **H44** 459, **S20** 499; *Bulbophyllum gigas* Ridl., **FMP4** 67; large epiphyte or epilith; montane forest, often near streams, at 1200–1500 m; Pk, Ph.
- 233.22.31 **Bulbophyllum evansii** M.R. Hend., **H44** 421, **S20** 479; epiphyte; montane forest above 2000 m; Gg Brinchang and Gg Benom, Ph; endemic.
- 233.22.32 **Bulbophyllum flammuliferum** Ridl., **FMP4** 74, **H44** 451, **S20** 465; creeping herb; on limestone rocks; Kl, Ph, Sl.
- 233.22.33 **Bulbophyllum flavescens** (Blume) Lindl., **S20** 459; *Bulbophyllum adenopetalum* Lindl., **FMP4** 71, **H44** 449; *Bulbophyllum montigenum* Ridl., **FMP4** 72; epiphyte; lowland and montane forest; widespread.
- 233.22.34 **Bulbophyllum foetidolens** Carr, **H44** 460, **S20** 487; epiphyte; hill forest at about 1000 m; only known from Gg Tahan, Ph.
- 233.22.35 **Bulbophyllum gibbosum** (Blume) Lindl., **H44** 448, **S20** 463; *Bulbophyllum selangorensense* Ridl., **FMP4** 73, **H44** 448; epiphyte; montane forest; Main Range.
- 233.22.36 **Bulbophyllum globulus** Hook.f., **FMP4** 73, **H44** 451, **S20** 465; epiphyte; known only from type; Pk; endemic.
- 233.22.37 **Bulbophyllum gracillimum** (Rolfe) Rolfe, **H44** 408, **S20** 439; *Bulbophyllum psittacoides* (Ridl.) J.J.Sm., **FMP4** 76; epiphyte; lowland forest; not uncommon.

- 233.22.38 **Bulbophyllum grudense** J.J.Sm., **S20** 521; *Bulbophyllum oeneum* Burkill ex Ridl., **FMP4** 63, **H44** 439; epiphyte; montane forest; Ph, Sl.
- 233.22.39 **Bulbophyllum haniffii** Carr. **H44** 428, **S20** 507; epiphyte; only known from Pulau Tikus, Pg.
- 233.22.40 **Bulbophyllum hirtulum** Ridl., **FMP4** 65, **H44** 443, **S20** 435; *Bulbophyllum cincinnatum* Ridl., **FMP4** 65, **H44** 443; *Bulbophyllum trichoglottis* Ridl., **FMP4** 67, **H44** 443; epiphyte; montane forest; Pn, Pk, Ph.
- 233.22.41 **Bulbophyllum hispidum** Ridl., **FMP4** 61, **H44** 457, **S19** 40; *Bulbophyllum dayanum auct. non* Rech.f., **S20** 435; epiphyte; montane forest at 1200 m; collected once on Gg Jerai, Kd.
- 233.22.42 **Bulbophyllum hodgsonii** M.R. Hend., **H44** 433, **S20** 511; epiphyte; montane forest; only known from Robinson's Falls, Ph; endemic.
- 233.22.43 **Bulbophyllum holttumii** A.D. Hawkes, **H44** 462, **S20** 499; *Bulbophyllum apiferum (non* Schltr.) Carr; epiphyte; montane forest; Gg Tahan and Gg Brinchang, Ph; endemic.
- 233.22.44 **Bulbophyllum igneunosum** Carr, **H44** 435, **S20** 512; epiphyte; montane forest; known only from Gg Tahan at 1600 m.
- 233.22.45 **Bulbophyllum inunctum** J.J.Sm., **S20** 475; *Bulbophyllum longiflorum (non* Thouars.) Ridl., **FMP4** 59, **H44** 421; epiphyte; hill forest; Kd, Pn.
- 233.22.46 **Bulbophyllum korthalsii** Schltr., **S20** 461; *Bulbophyllum arachnites* Ridl., **FMP4** 73, **H44** 448; epiphyte; montane forest; collected once at the Cameron Highlands, Ph.
- 233.22.47 **Bulbophyllum lasianthum** Lindl., **FMP4** 65, **H44** 463, **S20** 483; epiphyte and epilith; on lowland trees and rocks in moist shady places; throughout.
- 233.22.48 **Bulbophyllum lasiochilum** C.S.P. Parish & Rech.f., **S20** 451; *Bulbophyllum breviscapum* (Rolfe) Ridl., **FMP4** 74, **H44** 407; epiphyte; one doubtful record; Pk.
- 233.22.49 **Bulbophyllum laxiflorum** (Blume) Lindl., **H44** 452, **S20** 468; creeping epiphyte; widespread.
- 233.22.50 **Bulbophyllum leptosepalum** Hook.f., **FMP4** 72, **H44** 449, **S20** 461; epiphyte; lowland and hill forest; widespread; endemic.
- 233.22.51 **Bulbophyllum lilacinum** Ridl., **FMP4** 68, **H44** 460, **S20** 491; epiphyte; P, Langkawi and Gg Jerai, Kd.
- 233.22.52 **Bulbophyllum limbatum** Lindl., **FMP4** 65, **H44** 460, **S20** 435; epiphyte; Jh, Sp.

- 233.22.53 **Bulbophyllum linearifolium** King & Pantl., **FMP4** 72, **H44** 448, **S20** 463; epiphyte; montane forest; Kd, Pk, Ph, Sl; endemic.
- 233.22.54 **Bulbophyllum lobbii** Lindl., **H44** 424, **S20** 481; *Bulbophyllum polystictum* (*non* Schltr.) Ridl., **FMP4** 59, **H44** 424; *Bulbophyllum siamense* Rchb.f., **FMP4** 60; epiphyte; montane forest; widespread.
- 233.22.55 **Bulbophyllum lumbriciforme** J.J.Sm., **H44** 400, **S20** 493; epiphyte; montane forest; Gg Jerai, Kd and Gg Tahan, Ph.
- 233.22.56 **Bulbophyllum macranthum** Lindl., **FMP4** 57, **H44** 417, **S20** 477; creeping epiphyte; on lowland trees; widespread.
- 233.22.57 **Bulbophyllum macrochilum** Rolfe, **S20** 493; *Bulbophyllum stella* Ridl., **FMP4** 69, **H44** 401; epiphyte; lowland forest; Jh, Sp.
- 233.22.58 **Bulbophyllum malleolabrum** Carr, **H44** 434, **S20** 512; epiphyte; montane forest; about 1500 m; known only from Cameron Highlands, Ph.
- 233.22.59 **Bulbophyllum medusae** (Lindl.) Rchb.f., **FMP4** 75, **H44** 409, **S20** 468; epiphyte and epilith; lowland forest; widespread.
- 233.22.60 **Bulbophyllum membranaceum** Teijsm. & Binn., **FMP4** 64, **H44** 430, **S20** 501; creeping epiphyte; lowland and hill forests; widespread.
- 233.22.61 **Bulbophyllum membranifolium** Hook.f., **FMP4** 60, **H44** 420, **S20** 475; epiphyte; montane forest at about 1300 m; Ph, Sl, Jh.
- 233.22.62 **Bulbophyllum microglossum** Ridl., **FMP4** 60, **H44** 421, **S20** 483; small epiphyte; montane forest; Ph.
- 233.22.63 **Bulbophyllum minutulum** Ridl.; **FMP4** 62, **H44** 433, **S20** 511; ? terrestrial; montane forest; Fraser's Hill, Ph and Gg Ulu Kali, Sl.
- 233.22.64 **Bulbophyllum mobilifilum** Carr, **H44** 428, **S20** 507; epiphyte; on lowland trees; collected twice, Ph; endemic.
- 233.22.65 **Bulbophyllum modestum** Hook.f., **FMP4** 71, **H44** 453, **S20** 468; *Bulbophyllum ochranthum* Ridl., **FMP4** 71; *Bulbophyllum paulum* Ridl., **FMP4** 70; epiphyte; montane forest; widespread.
- 233.22.66 **Bulbophyllum mutabile** (Blume) Lindl., **H44** 445, **S20** 457; pendulous epiphyte; montane forest; Pk, Ph, Sl (one collection each).
- 233.22.67 **Bulbophyllum nematocaulon** Ridl., **FMP4** 63, **H44** 442, **S20** 521; *Bulbophyllum oreas* Ridl., **FMP4** 63, **H44** 442; epiphyte; montane forest; Pk, Ph, Sl.
- 233.22.68 **Bulbophyllum nigropurpureum** Carr, **H44** 430, **S20** 503; epiphyte; on mangrove and riverside trees; Ph, Sp; endemic.

- 233.22.69 **Bulbophyllum obtusipetalum** J.J.Sm., **S20** 464; creeping epiphyte; montane forest; once collected at Cameron Highlands, Ph.
- 233.22.70 **Bulbophyllum obtusum** (Blume) Lindl., **S20** 472; *Bulbophyllum parvilabium* Schltr., **H44** 455; pendulous epiphyte; hill forest; Penang Hill and Ulu Kali, Sl.
- 233.22.71 **Bulbophyllum octorhopalon** Seidenf., **S20** 509; *Bulbophyllum epicrianthes auct. non* Hook.f., **FMP4** 64, **H44** 428; epiphyte; lowland forest; Pk, Ph, Jh; endemic.
- 233.22.72 **Bulbophyllum odoratum** (Blume) Lindl., **FMP4** 72, **H44** 446, **S20** 457; epiphyte; on trees by rivers: Kl, Pk, Ph, Sl.
- 233.22.73 **Bulbophyllum ovalifolium** (Blume) Lindl., **H44** 435, **S20** 513; *Bulbophyllum tineae* Ridl., **FMP4** 62, **H44** 436; epiphyte; lowland and montane forest; widespread.
- 233.22.74 **Bulbophyllum pan** Ridl., **FMP4** 63, **H44** 439, **S20** 518; epiphyte; on mossy mountain trees at about 1600 m; only known from Gg Tahan, Ph; endemic.
- 233.22.75 **Bulbophyllum papillosofilum** Carr, **H44** 427, **S20** 507; epiphyte; lowland forest; Kuala Teku, Pk and Batu Kurau, Ph; endemic.
- 233.22.76 **Bulbophyllum patens** King *ex* Hook.f., **FMP4** 57, **H44** 417, **S20** 481; epiphyte; lowland trees; many places.
- 233.22.77 **Bulbophyllum penduliscapum** J.J.Sm., **S20** 501; epiphyte; only recorded from Batu Melintang, Kl.
- 233.22.78 **Bulbophyllum pileatum** Lindl.; **FMP4** 57, **H44** 422, **S20** 479; climbing epiphyte; on lowland trees; widespread.
- 233.22.79 **Bulbophyllum planibulbe** (Ridl.) Ridl., **FMP4** 75, **H44** 406, **S20** 465; *Bulbophyllum tenerum* Ridl., **FMP4** 65, **H44** 408; epiphyte; lowland forest; Kd, Ph.
- 233.22.80 **Bulbophyllum poekilon** Carr, **H44** 458, **S20** 497; epiphyte; montane forest; known only from Fraser's Hill, Ph; endemic.
- 233.22.81 **Bulbophyllum purpurascens** Teijsm. & Binn., **FMP4** 78, **H44** 410, **S20** 449; *Bulbophyllum perakense* Ridl., **FMP4** 77, **H44** 410; *Bulbophyllum rhizophoreti* Ridl., **FMP4** 77; epiphyte; lowland forest; not uncommon.
- 233.22.82 **Bulbophyllum pustulatum** Ridl., **FMP4** 60, **H44** 420, **S20** 477; epiphyte; lowland forest; Jh.
- 233.22.83 **Bulbophyllum restrepia** Ridl., **FMP4** 75, **H44** 406, **S20** 517; epiphyte; on old mangrove and riverside trees; Ph, Jh, Sp; endemic.

- 233.22.84 **Bulbophyllum retusiusculum** Rchb.f., **S20** 453; epiphyte; montane forest; one poor specimen from Gg Tahan, Ph.
- 233.22.85 **Bulbophyllum rhizomatosum** Ames & Schweinf., **S20** 457; *Bulbophyllum minimibulbum* Carr., **H45** 445; pendulous epiphyte; montane forest; once collected at Fraser's Hill, Ph.
- 233.22.86 **Bulbophyllum ruficaudatum** Ridl., **S20** 445; *Bulbophyllum microbulbon auctt. non* Schltr., **FMP4** 79, **H44** 414; epiphyte; on lowland trees; Sp.
- 233.22.87 **Bulbophyllum rugosum** Ridl., **FMP4** 60, **H44** 421, **S20** 475; epiphyte; lowland forest; Sp.
- 233.22.88 **Bulbophyllum salaccense** Rchb.f., **H44** 457, **S20** 495; pendulous epiphyte; montane forest; about 1200 m; Fraser's Hill, Ph. only confirmed locality.
- 233.22.89 **Bulbophyllum sessile** (J. König) J.J.Sm., **H44** 451, **S20** 503; *Bulbophyllum clandestinum* Lindl., **FMP4** 69; bushy pendulous epiphyte; exposed lowland trees; widespread.
- 233.22.90 **Bulbophyllum sichyobulbon** C.S.P. Parish & Rchb.f., **S20** 491; epiphyte; doubtfully recorded from Ps.
- 233.22.91 **Bulbophyllum singaporeanum** Schltr., **H44** 458, **S20** 485; *Bulbophyllum densiflorum* (*non* Rolfe) Ridl., **FMP4** 68; epiphyte; on riverside trees; Jh, Sp.
- 233.22.92 **Bulbophyllum stormii** J.J.Sm., **S20** 511; *Bulbophyllum araniferum* Ridl., **FMP4** 61, **H44** 433; *Bulbophyllum longistelidium* Ridl., **FMP4** 64, **H44** 433; *Bulbophyllum tristriatum* Carr, **H44** 433; epiphyte; montane forest; Ph. Sl.
- 233.22.93 **Bulbophyllum striatellum** Ridl., **FMP4** 62, **H44** 437, **S20** 519; epiphyte; old mangrove and riverside trees; Kl, Jh, Sp.
- 233.22.94 **Bulbophyllum subumbellatum** Ridl., **FMP4** 61, **H44** 426, **S20** 485; epiphyte; lowland forest; Jh.
- 233.22.95 **Bulbophyllum tahanense** Carr, **H44** 463, **S20** 487; epiphyte; montane forest; about 1700 m; known only from Gg Tahan, Ph; endemic.
- 233.22.96 **Bulbophyllum tekunense** Carr, **H44** 436, **S20** 515; epiphyte; known only from type, Kuala Teku, Ph; Endemic.
- 233.22.97 **Bulbophyllum tenuifolium** (Blume) Lindl., **H44** 439, **S20** 518; *Bulbophyllum nigromaculatum* Holtum, **H44** 441; epiphyte; lowland and montane forest; Ph, Sl, Jh, Sp.
- 233.22.98 **Bulbophyllum titanea** Ridl., **FMP4** 62, **H44** 436, **S20** 515; epiphyte; montane forest; known only from the upper slopes of Gg Tahan, Ph; endemic.

- 233.22.99 **Bulbophyllum tortuosum** (Blume) Lindl., **H44** 431, **S20** 503; pendulous epiphyte; on riverside trees; only collected from Sg Sat. Ph.
- 233.22.100 **Bulbophyllum trifolium** Ridl., **FMP4** 68, **H44** 457, **S20** 495; epiphyte; on riverside trees; Ph, Jh, Sp.
- 233.22.101 **Bulbophyllum uniflorum** (Blume) Hassk., **H44** 422, **S20** 477; *Bulbophyllum galbinum* Ridl., **FMP4** 58; *Bulbophyllum variabile* Ridl., **FMP4** 59; epiphyte; mostly montane forest; widespread.
- 233.22.102 **Bulbophyllum vaginatum** (Lindl.) Rchb.f., **FMP4** 76, **H44** 409, **S20** 439; epiphyte; on exposed lowland trees; common, widespread.
- 233.22.103 **Bulbophyllum vermiculare** Hook.f., **FMP4** 71, **H44** 446, **S20** 461; creeping epiphyte; on lowland trees incl. mangroves; Pk to Sp.
- 233.22.104 **Bulbophyllum vesiculosum** J.J.Sm., **S20** 507; *Bulbophyllum corneri* Carr, **H44** 428; epiphyte; on old mangrove trees; collected once from Chua Chu Kang, Sp.
- 233.22.105 **Bulbophyllum virescens** J.J.Sm., **S20** 483; *Bulbophyllum maximum* [non (Lindl.) Rchb.f.] (Ridl.) Ridl., **FMP4** 81, **H44** 426; epiphyte; hill forest; Main Range.
- 233.22.106 **Bulbophyllum viridescens** Ridl., **FMP4** 73, **H44** 445, **S20** 463; epiphyte or epilith; montane forest; only known from 1100 m on Gg Tahan, Ph.
- 233.22.107 **Bulbophyllum wrayi** Hook.f., **FMP4** 66, **H44** 463, **S20** 487; epiphyte; montane forest above 750 m; Pk, Ph, Sl; endemic.
- 233.22.108 **Bulbophyllum xanthum** Ridl., **FMP4** 68, **H44** 451, **S20** 491; epilith; on limestone at 270 m; only known from type, P. Dayang Bunting, Langkawi; endemic.
- 233.22.109 **Bulbophyllum yoksunense** J.J.Sm., **H44** 410, **S20** 443; epiphyte; montane forest; once collected at The Gap, Sl; identity uncertain.
- 233.22.110 **Bulbophyllum** sp. (C.E. Carr 434), **H44** 458, **S20** 495; pendulous epiphyte; hill forest; known only from (missing !) type, Gg Panti, Jh; endemic.
- 233.23.1 **Calanthe albolutea** Ridl., **FMP4** 121, **H44** 156, **S20** 173; herb to 80 cm tall; montane forest; Kd, Pk, Ph; endemic.
- 233.23.2 **Calanthe angustifolia** (Blume) Lindl., **FMP4** 120 incl. var. *flava* Ridl., **H44** 156, **S20** 171; herb about 50 cm tall; montane forest; up to 2000 m; north of the Peninsula.
- 233.23.3 **Calanthe aurantiaca** Ridl., **FMP4** 120, **H44** 157, **S20** 173; herb to 40 cm tall; montane forest; Pk, Ph; endemic.

- 233.23.4 ***Calanthe carrii*** Seidenf. & J.J. Wood, **S20** 171; *Calanthe pusilla* (non Finet) Carr, **H44** 156; herb to 40 cm tall; montane forest; 1000–1200 m; only known from Gg Tahan, Ph; endemic.
- 233.23.5 ***Calanthe ceciliae*** Rchb.f., **FMP4** 119, **H44** 153, **S20** 169; herb to 50 cm tall; lowland and hill forest including on limestone; to 1000 m; widespread but not extreme south.
- 233.23.6 ***Calanthe clavata*** Lindl., **S20** 175; herb to 80 cm tall; montane forest; once collected at Cameron Highlands, Ph.
- 233.23.7 ***Calanthe cleistogama*** Holttum, **H44** 155, **S20** 171; herb; montane forest; Gg Jerai, Kd and Fraser's Hill, Ph; endemic.
- 233.23.8 ***Calanthe johorensis*** Holttum, **H44** 156, **S20** 171; herb to over 1 m tall; montane forest; known only from the top of Gg Panti, Jh; endemic.
- 233.23.9 ***Calanthe lyroglossa*** Rchb.f., **S20** 175; *Calanthe foerstermannii* Rchb.f., **FMP4** 121, **H44** 157; herb to about 50 cm tall; montane forest; 700–1900 m; Pk, Ph.
- 233.23.10 ***Calanthe monophylla*** Ridl., **FMP4** 122, **H44** 151, **S20** 165; one-leaved herb; montane forest; only one certain collection from Cameron Highlands, Ph; endemic.
- 233.23.11 ***Calanthe ovata*** Ridl., **FMP4** 120, **H44** 155, **S20** 169; herb to nearly 1 m tall; montane forest; known only from type, Cameron Highlands, Ph; endemic.
- 233.23.12 ***Calanthe pubescens*** Ridl., **FMP4** 120, **H44** 154, **S20** 169; herb to 50 cm tall; poorly known; endemic.
- 233.23.13 ***Calanthe pulchra*** (Blume) Lindl., **H44** 157, **S20** 173; *Calanthe curculigoides* Lindl., **FMP4** 121; herb about 60 cm tall; lowland and hill forest; to 1000 m; widespread.
- 233.23.14 ***Calanthe rubens*** Ridl., **H44** 151, **S20** 165; *Preptanthe rubens* (Ridl.) Ridl., **FMP4** 123; epilith; on limestone rocks; P. Langkawi.
- 233.23.15 ***Calanthe rigida*** Carr, **H44** 158, **S20** 175; herb about 40 cm tall; montane forest above 1700 m; Ph, Sl; endemic.
- 233.23.16 ***Calanthe salaccensis*** J.J.Sm., **H44** 158, **S20** 175; herb about 40 cm tall; montane forest; once on Gg Panti, Jh.
- 233.23.17 ***Calanthe speciosa*** (Blume) Lindl., **FMP4** 121, **H44** 158, **S20** 175; herb to 60 cm tall; montane forest; true occurrence doubtful.
- 233.23.18 ***Calanthe sylvatica*** (Thouars) Lindl., **S20** 167; *Calanthe emarginata* (Blume) Lindl., **H44** 153; *Calanthe masuca* (D. Don) Lindl., **H44** 153; herb to 50 cm tall; montane forest; only known from Gg Lang, Kd.

- 233.23.19 **Calanthe taenioides** J.J.Sm., **S20** 167; herb to 45 cm tall; montane forest at about 1600 m; only known from Gg Brinchang, Ph.
- 233.23.20 **Calanthe triplicata** (Willemet) Ames, **H44** 154, **S20** 169; *Calanthe veratrifolia* (Willd.) Ker Gawl., **FMP4** 119; herb to 75 cm tall; wet lowland and montane forest to 1700 m; widespread.
- 233.23.21 **Calanthe vestita** Lindl., **H44** 151, **S20** 165; *Preptanthe vestita* (Lindl.) Rchb.f., **FMP4** 123; epiphyte; forest on limestone; once at Batu Caves, Sl.
- 233.24.1 **Cephalantheropsis gracilis** (Lindl.) S.Y. Hu, **S20** 180; *Calanthe gracilis* Lindl., **FMP4** 122; *Phaius longipes* (Hook.f.) Holttum, **H44** 175; herb about 60 cm tall; montane forest; only known from Gg Jerai, Kd.
- 233.25.1 **Ceratostylis ampullacea** Kraenzl., **H44** 493, **S20** 311; rush-like tufted epiphyte about 15 cm tall; montane forest; widespread.
- 233.25.2 **Ceratostylis clathrata** Hook.f., **FMP4** 111, **H44** 496, **S20** 317; pendulous epiphyte about 12 cm long; montane forest; Pk, Ph, Sl; endemic.
- 233.25.3 **Ceratostylis eriaeoides** Hook.f., **FMP4** 110, **H44** 495, **S20** 315; tiny tufted epiphyte to 6 cm tall; montane forest; Ph, Sl; endemic.
- 233.25.4 **Ceratostylis gracilis** Blume, **S20** 311, **H44** 493; rush-like tufted epiphyte to 10 cm tall; montane forest; Ph, Sl.
- 233.25.5 **Ceratostylis lancifolia** Hook.f., **FMP4** 109, **H44** 493, **S20** 311; tufted epiphyte to 15 cm tall; montane forest; Pk, Ph, Sl; endemic.
- 233.25.6 **Ceratostylis pendula** Hook.f., **FMP4** 111, **H44** 496, **S20** 317; pendulous epiphyte to 30 cm long; lowland forest; widespread.
- 233.25.7 **Ceratostylis pulchella** Holttum, **H44** 495, **S20** 315; epiphyte about 15 cm tall; low down on trees in montane forest; Ph, Sl; endemic.
- 233.25.8 **Ceratostylis puncticulata** Ridl., **FMP4** 111, **H44** 496, **S20** 315; pendulous epiphyte; montane forest; known only from type, Gg Hijau, Pk; endemic.
- 233.25.9 **Ceratostylis radiata** J.J.Sm., **S20** 311; *Ceratostylis linearifolia* Ridl., **FMP4** 110, **H44** 495; epiphyte about 15 cm tall; hill forest; once collected on Gg Raya, Langkawi.
- 233.25.10 **Ceratostylis robusta** Hook.f., **FMP4** 110, **H44** 496, **S20** 315; epiphyte; montane forest; known only from type, Pk; endemic.
- 233.25.11 **Ceratostylis subulata** Blume, **FMP4** 109, **H44** 493, **S20** 310; rush-like tufted epiphyte to 15 cm tall; lowland and montane forest; widespread.
- 233.25.12 **Ceratostylis** sp., **H44** 495, **S20** 317; epiphyte; Cameron Highlands, Ph.

- 233.26.1 **Cheirostylis goldschmidtiana** Schltr., **S20** 77; herb to 20 cm tall; hill forest; Penang Hill, Pn; endemic.
- 233.26.2 **Cheirostylis montana** Blume, **S20** 77; *Cheirostylis flabellata* auct. non Wight; **FNP4** 218, **H44** 129; herb about 20 cm tall; Pn, Ph.
- 233.26.3 **Cheirostylis pusilla** Lindl., **S20** 77; herb up to 10 cm tall; hill forest; only known from Penang Hill, Pn.
- 233.27.1 **Chelonistele sulphurea** (Blume) Pfitzer, **S20** 199; *Chelonistele perakensis* (Rolfe) Ridl., **FMP4** 138, **H44** 240; *Chelonistele pusilla* (Ridl.) Ridl., **FMP4** 138, **H44** 240; epiphyte; montane forest; Kd, Pk, Ph, Sl.
- 233.28.1 **Chiloschista sweetlimii** Holttum, **S20** 657; epiphyte consisting largely of green roots; Pk; endemic.
- 233.29.1 **Chroniochilus ecalcaratus** (Holttum) Garay, **S20** 694; *Sarcochilus ecalcaratus* Holttum, **H44** 690; tiny epiphyte about 5 cm tall; lowland forest; only known from Mentakab, Ph; endemic.
- 233.29.2 **Chroniochilus minimus** (Blume) J.J.Sm., **S20** 694; *Sarcochilus tjidadapensis* (J.J.Sm.) Carr, **H44** 689; tiny epiphyte about 2 cm tall; lowland and montane forest; Ph.
- 233.29.3 **Chroniochilus virescens** (Ridl.) Holttum, **S20** 693; *Sarcochilus virescens* Ridl., **FMP4** 179, **H44** 688; tiny epiphyte about 5 cm tall; lowland forest; Pk, Ph.
- 233.30.1 **Chrysoglossum ornatum** Blume, **H44** 178, **S20** 533; large-leaved creeping herb to 70 cm tall; montane forest; once at Fraser's Hill, Ph.
- 233.31.1 **Cirrhopetalum auratum** Lindl., **G06** 617; *Bulbophyllum campanulatum* Rolfe, **FMP4** 78, **H44** 416; *Bulbophyllum auratum* (Lindl.) Rchb.f., **S20** 447; epiphyte; lowland riverside trees; Tg, Sl, Ph.
- 233.31.2 **Cirrhopetalum brienianum** Rolfe, **G06** 617, **S19** 34; *Bulbophyllum makoyanum* (Rchb.f.) Ridl. var. *brienianum* (Rolfe) Ridl., **FMP4** 80; *Bulbophyllum brienianum* (Rolfe) Ames, **H44** 412, **S20** 445; creeping epiphyte; Pk, Jh.
- 233.31.3 **Cirrhopetalum concinnum** Hook.f., **G06** 618, **S19** 34; *Bulbophyllum pulchellum* Ridl., **FMP4** 80, **H44** 415, **S20** 449; epiphyte; lowland and hill forest; widespread.
- 233.31.4 **Cirrhopetalum curtisii** Hook.f., **G06** 618, **S20** 34; *Bulbophyllum pulchellum* Ridl. var. *purpureum* Ridl., **FMP4** 80; *Bulbophyllum corolliferum* J.J.Sm., **H44** 414, **S20** 445; epiphyte; Kl, Tg, Pn, Pk, Ph.

- 233.31.5 **Cirrhopetalum fenestratum** (J.J. Sm.) Garay & al., **G06** 621, **S19** 37; *Bulbophyllum taeniophyllum* auct. non C.S.P. Parish & Rchb.f., **S20** 449 in part; *Bulbophyllum punctatissimum* (Ridl.) Ridl., **FMP4** 77; *Bulbophyllum fenestratum* J.J.Sm., **H44** 411 in part; only known from type, locality uncertain.
- 233.31.6a **Cirrhopetalum gusdorfii** (J.J. Sm.) Garay & al. var. *gusdorfii*, **G06** 621, **S19** 35; *Bulbophyllum gusdorfii* J.J.Sm., **S20** 447 in part; epiphyte; lowland forest; Ph, Sl, Jh.
- 233.31.6b **Cirrhopetalum gusdorfii** (J.J. Sm.) Garay & al. var. *johorensense* nom. inval., **G06** 621, **S19** 35; *Bulbophyllum gusdorfii* J.J.Sm., **S20** 447 in part; *Bulbophyllum gusdorfii* J.J.Sm. var. *johorensense* nom. nud., **H44** 412; lowland forest: Jh, Sp.
- 233.31.7 **Cirrhopetalum lepidum** (Blume) Schltr., **G06** 618, **S19** 36; *Bulbophyllum griffithianum* C.S.P. Parish & Rchb.f., **FMP4** 80; *Bulbophyllum lepidum* (Blume) J.J.Sm., **H44** 415, **S20** 441; epiphyte; on lowland trees; south of Malaya.
- 233.31.8 **Cirrhopetalum makoyanum** Rchb.f., **G06** 619, **S19** 36; *Bulbophyllum makoyanum* (Rchb.f.) Ridl., **FMP4** 79, **H44** 412, **S20** 443; epiphyte; once collected from Chan Chu Kang, Sp.
- 233.31.9 **Cirrhopetalum ochraceum** Ridl., **G06** 619, **S19** 36; *Bulbophyllum ochraceum* [non Cogn.] (Ridl.) Ridl., **FMP4** 81, **H44** 415; *Bulbophyllum serratotruncatum* Seidenf., **S20** 441; epiphyte; lowland forest; Ph, Sl; endemic.
- 233.31.10 **Cirrhopetalum puguahaanense** (Ames) Garay & al., **G06** 621, **S19** 36; *Bulbophyllum diekaense* Carr, **H44** 408; *Bulbophyllum puguahaanense* Ames, **S20** 453; epiphyte; on riverside trees; once at Sg Cheka, Ph.
- 233.31.11 **Cirrhopetalum skeatianum** (Ridl.) Garay & al., **G06** 622, **S19** 36; *Bulbophyllum skeatianum* Ridl., **FMP4** 78, **H44** 411, **S20** 453; epiphyte; montane forest: Tg, Ph; endemic.
- 233.31.12 **Cirrhopetalum taeniophyllum** (C.S.P. Parish & Rchb.f.) Hook.f., **G06** 620, **S19** 37; *Bulbophyllum taeniophyllum* C.S.P. Parish & Rchb.f., **S20** 449 in part; *Bulbophyllum rupicolum* Ridl., **FMP4** 77; *Bulbophyllum fenestratum* auct. non J.J.Sm., **H44** 411 in part; epilith; often on limestone; mostly Kl.
- 233.32.1 **Claderia viridiflora** Hook.f., **FMP4** 140, **H44** 184, **S20** 531; creeping herb often ascending tree trunks a short way; lowland and hill forest; widespread.
- 233.33.1 **Cleisomeria lanatum** (Lindl.) Lindl. ex G. Don, **S20** 619; *Sarcanthus lanatus* (Lindl.) Holttum, **H44** 654; erect plant about 15 cm tall; lowlands; Kd, Ph, Jh.

- 233.34.1 **Cleisostoma arietinum** (Rchb.f.) Garay, **S20** 621; *Saccolabium kunstleri* (King & Pantl.) Ridl., **FMP4** 169; *Sarcanthus kunstleri* King & Pantl., **H44** 652; epiphyte about 10 cm tall; once from Pk.
- 233.34.2 **Cleisostoma capricorne** (Ridl.) Garay, **S20** 623; Ridl., **FMP4** 181; *Sarcanthus capricornis* (Ridl.) Holttum, **H44** 653; tufted epiphyte about 10 cm tall; montane forest; once on Gg Senyum, Ph.
- 233.34.3 **Cleisostoma complicatum** (Seidenf.) Garay, **S19** 63; epiphyte; once from Tasek Temengor, Pk.
- 233.34.4 **Cleisostoma discolor** Lindl., **S20** 627; *Sarcanthus termissus* Rchb.f., **H44** 657; epiphyte about 10 cm tall; lowland forest ? on limestone; P. Langkawi and Lenggong, Pk.
- 233.34.5 **Cleisostoma fissicors** (Ridl.) Seidenf. & J.J. Wood, **S20** 629; *Saccolabium fissicors* Ridl., **FMP4** 170; *Sarcanthus fissicors* (Ridl.) J.J.Sm., **H44** 659; epiphyte about 10 cm tall; lowland and montane forest; Pk, Ph; endemic.
- 233.34.6 **Cleisostoma halophilum** (Ridl.) Garay, **S20** 623; *Saccolabium halophilum* Ridl., **FMP4** 168; *Ascochilus teres* Ridl., **FMP4** 181; *Sarcanthus halophilus* (Ridl.) J.J.Sm., **H44** 653; pendulous epiphyte about 30 cm long; on lowland trees, often near the sea; south of Peninsula.
- 233.34.7 **Cleisostoma holttumii** (Carr) Garay, **S20** 627; epiphyte; known only from type; unknown Malayan locality; endemic.
- 233.34.8 **Cleisostoma inflexilobum** (Holttum) Garay, **S20** 627; *Sarcanthus inflexilobus* Holttum, **H44** 657; epiphyte; forest on limestone; known only from type; Gua Musang, Kl; endemic.
- 233.34.9 **Cleisostoma odoratum** Garay, **S20** 631; *Saccolabium ionosmum* (Ridl.) Ridl., *nom. illeg.*, **FMP4** 174; *Sarcanthus ionosmum* (Ridl.) Holttum, *nom. illeg.*, **H44** 660; epiphyte; montane forest; known only from the Taiping Hills, Pk; endemic.
- 233.34.10 **Cleisostoma rostellatum** (Ridl.) Garay, **S20** 631; *Saccolabium bicarinatum* Ridl., **FMP4** 170; *Sarcanthus rostellatum* Ridl., **H44** 660; epiphyte; lowlands; Pk, Sl.
- 233.34.11 **Cleisostoma rugosulum** (Ridl.) Seidenf., **S19** 62; *Saccolabium rugosulum* Ridl., **FMP4** 168; *Sarcanthus rugosulus* (Ridl.) Holttum, **H44** 659 'rugulosus'; epiphyte; known only from type, Gg Jerai, Kd; endemic.
- 233.34.12 **Cleisostoma scortechinii** (Hook.f.) Garay, **S20** 625; *Saccolabium scortechinii* (Hook.f.) Ridl., **FMP4** 169; *Sarcanthus scortechinii* Hook.f., **H44** 655; climbing epiphyte to 2 m long; lowland forest; widespread.

- 233.34.13 **Cleisostoma striatum** (Rchb.f.) Garay, **S20** 629; epiphyte to 15 cm long; montane forest; Kl, Sl.
- 233.34.14 **Cleisostoma subulatum** Blume, **S20** 625; *Saccolabium secundum* (Griff.) Ridl., **FMP4** 169; *Sarcanthus subulatus* (Blume) Rchb.f., **H42** 654; epiphyte to 30 cm tall; on lowland trees, often near the sea; widespread.
- 233.34.15 **Cleisostoma suffusum** (Ridl.) Garay, **S20** 628; *Saccolabium suffusum* Ridl., **FMP4** 166; *Sarcanthus suffusus* (Ridl.) J.J.Sm., **H44** 657; epiphyte to 20 cm long; Pk, Ph, Ml.
- 233.34.16 **Cleisostoma teretifolium** Teijsm. & Binn., **S20** 621; *Saccolabium machadonis* Ridl., **FMP4** 168; *Sarcanthus machadonis* (Ridl.) J.J.Sm., **H44** 652; epiphyte about 20 cm long; lowland forest; Kl, Pk, Sl, Jh.
- 233.34.17 **Cleisostoma williamsonii** (Rchb.f.) Garay, **S20** 623; *Saccolabium sacculatum* (Ridl.) Ridl., **FMP4** 172; *Sarcanthus sacculatus* Ridl., **H44** 653; epiphyte about 30 cm long; P. Langkawi, Ps.
- 233.35.1 **Coelogyne anceps** Hook.f., **FMP4** 135, **H44** 247, **S20** 217; epiphyte; Pk; endemic.
- 233.35.2 **Coelogyne asperata** Lindl., **FMP4** 131, **H44** 253, **S20** 217; epiphyte or epilith about 40 cm tall; near lowland streams.
- 233.35.3 **Coelogyne cumingii** Lindl., **FMP4** 134, **H44** 249, **S20** 209; epiphyte or epilith about 10 cm tall; lowlands and hills; widespread.
- 233.35.4 **Coelogyne fimbriata** Lindl., **S20** 207; *Coelogyne pallens* auct. non Ridl., **FMP4** 135 in part, **H44** 248 in part; epiphyte; montane forest; once collected on Gg Jerai, Kd.
- 233.35.5 **Coelogyne flexuosa** Rolfe, **H44** 248, **S20** 207; epiphyte up to 10 cm tall; poorly known.
- 233.35.6 **Coelogyne foerstermannii** Rchb.f., **FMP4** 132, **H44** 251, **S20** 208; *Coelogyne kingii* Hook.f., **FMP4** 133, **H44** 251; epiphyte to 40 cm tall; lowland and hill forest, often high on trees; widespread.
- 233.35.7 **Coelogyne judithiae** P. Taylor, **S20** 215; epiphyte up to 50 cm tall; montane forest; only known from Taiping Hills, Pk; endemic.
- 233.35.8 **Coelogyne kaliana** P.J. Cribb, **S20** 211; epiphyte up to 10 cm tall; montane forest at 1650–1900 m; Pk, Ph, Sl; endemic.
- 233.35.9 **Coelogyne longibracteata** Hook.f., **FMP4** 132, **H44** 249, **S20** 209; epiphyte about 30 cm tall; montane forest; several highland areas; endemic.

- 233.35.10 **Coelogyne massangeana** Rchb.f., **H44** 257, **S20** 213; *Coelogyne densiflora* Ridl., **FMP4** 130; *Coelogyne tomentosa* Lindl. var. *cymbidioides* (Ridl.) Ridl., **FMP4** 130; *Coelogyne tomentosa* Lindl. var. *massangeana* (Rchb.f.) Ridl., **FMP4** 130; epiphyte about 40 cm tall; montane forest; not uncommon.
- 233.35.11 **Coelogyne mayeriana** Rchb.f., **FMP4** 133, **H44** 254, **S20** 217; epiphyte about 30 cm tall; on old trees near the sea; south of the Peninsula.
- 233.35.12 **Coelogyne pallens** Ridl., **FMP4** 135, **H44** 248, **S20** 205; epiphyte about 15 cm tall; montane forest; Kd, Pk, Ph.
- 233.35.13 **Coelogyne pandurata** Lindl., **FMP4** 133, **H44** 254, **S20** 217; epiphyte about 30 cm tall; on old riverside trees in the lowlands; widespread.
- 233.35.14 **Coelogyne prasina** Ridl., **FMP4** 136, **H44** 244, **S20** 201; epiphyte, occasionally terrestrial; montane forest; Kd, Pk, Ph.
- 233.35.15 **Coelogyne pulverula** Teijsm. & Binn., **S19** 18; *Coelogyne dayana* Rchb.f., **H44** 258, **S20** 215; *Coelogyne tomentosa* (non Lindl.) Ridl.; **FMP4** 130 in part; epiphyte about 50 cm tall; montane forest.
- 233.35.16 **Coelogyne radicata** Ridl., **FMP4** 135, **S20** 203; *Coelogyne carnea* [non (Blume) Rchb.f.] Hook.f., **FMP4** 135, **H44** 246; epiphyte about 20 cm tall; montane forest; widespread.
- 233.35.17 **Coelogyne rochussenii** de Vriese, **FMP4** 131, **H44** 257, **S20** 213; epiphyte about 30 cm tall; lowland forest; widespread; common.
- 233.35.18 **Coelogyne septemcostata** J.J.Sm., **S20** 205; *Coelogyne speciosa* [non (Blume) Lindl.] Ridl., **FMP4** 134 in part; *Coelogyne membranifolia* Carr, **H44** 243; epiphyte about 20 cm tall; lowland forest; Ph, Jh.
- 233.35.19 **Coelogyne stenochila** Hook.f., **FMP4** 136, **H44** 245, **S20** 201; creeping epiphyte about 15 cm tall; montane forest; Ph, Sl; endemic.
- 233.35.20 **Coelogyne stipitibulbum** Holttum, **H44** 247, **S20** 203; epiphyte about 10 cm tall; montane forest; only known from the Cameron Highlands, Ph; endemic.
- 233.35.21 **Coelogyne swaniana** Rolfe, **H44** 257, **S20** 213; *Coelogyne quadrangularis* Ridl., **FMP4** 131; epiphyte; montane forest; known only from the Taiping Hills, Pk.
- 233.35.22 **Coelogyne testacea** Lindl., **FMP4** 129, **H44** 259, **S20** 215; epiphyte about 20 cm tall; on big trees near rivers and the sea; more frequent in the south.
- 233.35.23 **Coelogyne tiomanensis** M.R. Hend., **H44** 243, **S20** 205; epiphyte about 20 cm tall; hill forest; about 1000 m; known only from P. Tioman; endemic.

- 233.35.24 **Coelogyne tomentosa** Lindl., **FMP4** 130, **H44** 256, **S20** 211; epiphyte up to 15 cm tall; montane forest; Pk.
- 233.35.25 **Coelogyne trinervis** Lindl., **S20** 207; *Coelogyne stenophylla* Ridl., **FMP4** 132; *Coelogyne cinnamomea* (non Lindl.) Teijsm. & Binn., **H44** 253; epiphyte about 20 cm tall; P. Langkawi, Kl, Pn, Ph.
- 233.35.26 **Coelogyne viscosa** Rchb.f., **S20** 209; *Coelogyne graminifolia* C.S.P. Parish & Rchb.f., **H44** 253; epiphyte to 40 cm tall; once from Pk.
- 233.35.27 **Coelogyne xanthoglossa** Ridl., **FMP4** 134, **H44** 243, **S20** 205; epiphyte about 15 cm tall; known only from Gg Tahan, Ph; endemic.
- 233.35.28 **Coelogyne xyrekes** Ridl., **FMP4** 134, **H44** 243, **S20** 203; epiphyte to 30 cm tall; montane forest; 1300–1700 m; common.
- 233.36.1 **Collabium simplex** Rchb.f., **S20** 533; *Chrysoglossum simplex* (Rchb.f.) J.J.Sm., **H44** 179; purple-spotted herb to 40 cm tall; montane forest; Pk, Ph.
- 233.37.1 **Cordiglottis breviscapa** (Carr) Garay, **S20** 635; *Cheirorchis breviscapa* Carr, **H44** 67; pendulous epiphyte up to 20 cm long; lowland forest; known only from Budu and Batu Balai, Ph; endemic.
- 233.37.2 **Cordiglottis filiformis** (Hook.f.) Garay, **S20** 637; *Dendrocolla filiformis* (Hook.f.) Ridl., **FMP4** 187; *Cheirorchis filiformis* (Hook.f.) Carr, **H44** 679; epiphyte to 20 cm tall; lowland forest; Kl, Pk, Ph, Sl, Jh, Sp.
- 233.37.3 **Cordiglottis fulgens** (Ridl.) Garay, **S20** 637; *Cheirorchis fulgens* (Ridl.) Carr, **H44** 679; epiphyte; known only in cultivation; possibly Malayan native.
- 233.37.4 **Cordiglottis major** (Carr) Garay, **S20** 635; *Cheirorchis major* Carr, **H44** 678; pendulous epiphyte about 15 cm long; lowland forest; Kerambit, Ph, and Mawai, Jh.
- 233.37.5 **Cordiglottis pulverulenta** (Carr) Garay, **S20** 637; *Cheirorchis pulverulenta* Carr, **H44** 678; tiny epiphyte a few cm tall; lowland forest; known only from type, Tembeling, Ph; endemic.
- 233.38.1 **Corybas calcicolus** J. Dransf. & G. Smith, **S20** 121; *Corybas mucronatus* [non (Blume) Schltr.] Holttum, **H44** 93 in part; tiny tuberous one-leaved herb a few cm tall; on mossy limestone rocks; Kl, Ph, Sl; endemic.
- 233.38.2 **Corybas caloepelos** J. Dransf. & G. Smith, **S20** 119; *Corybas johanniswinkleri* (non J.J.Sm.) Holttum, **H44** 93; tiny tuberous one-leaved herb a few cm tall; on mossy banks in lower montane forest at 1400–1800 m; Kd, Ph; endemic.

- 233.38.3 **Corybas carinatus** (J.J.Sm.) Schltr., **S20** 117; *Corysanthes mucronata* (*non* Blume) Ridl., **FMP4** 205; *Corybas johanniswinkleri* J.J.Sm., **H44** 93 in part; *Corybas mucronatus* [*non* (Blume) Schltr.] Holttum, **H44** 93 in part; tiny tuberous one-leaved herb a few cm tall; on mossy rocks in montane forest; Pk, Ph, Jh.
- 233.38.4 **Corybas caudatus** Holttum, **H44** 93, **S20** 122; tiny tuberous one-leaved herb a few cm tall; on mountain rocks; known only from type collected on Gg Tahan, Ph; endemic.
- 233.38.5 **Corybas comptus** J. Dransf. & G. Smith, **S20** 119; tiny tuberous one-leaved herb a few cm tall; on mossy banks in upper montane forest at 1600–1800 m; Ph, Sl; endemic.
- 233.38.6 **Corybas fornicatus** (Blume) Rchb.f., **H44** 94 in part, **S20** 117; *Corysanthes fornicata* (Blume) Lindl., **FMP4** 117; tiny tuberous one-leaved herb a few cm tall; mossy rocks in montane forest; Kd, Ph.
- 233.38.7 **Corybas geminigibbus** J.J.Sm., **S20** 121; tiny tuberous one-leaved herb a few cm tall; montane forest; known only from Gg Jerai, Kd.
- 233.38.8 **Corybas holttumii** J. Dransf. & G. Smith, **S20** 119; *Corybas johanniswinkleri* (*non* J.J.Sm.) Holttum, **H44** 93 in part; tiny tuberous one-leaved herb a few cm tall; mossy banks in upper montane forest at about 1800 m; Gg Tahan, Ph and Genting Highlands, Ph/Sl; endemic.
- 233.38.9 **Corybas ridleyanus** Schltr., **S20** 120; *Corysanthes picta* [*non* (Blume) Lindl.] Ridl., **FMP4** 204; *Corysanthes pictus* [*non* (Blume) Rchb.f.] Holttum, **H44** 93; tiny tuberous one-leaved herb a few cm tall; ridge-tops in upper montane forest, often in *Sphagnum* clumps, at 1400–1900 m; Ph; endemic.
- 233.38.10 **Corybas selangorensis** J. Dransf. & G. Smith, **S20** 121; tiny tuberous one-leaved herb a few cm tall; on ridge-tops in montane forest at about 1300 m; known only from Gg Bunga Buah, Sl; endemic.
- 233.38.11 **Corybas villosus** J. Dransf. & G. Smith, **S20** 120; tiny tuberous one-leaved herb a few cm tall; on ridge-tops in upper montane forest, often in *Sphagnum*; known only from the Genting Highlands, Ph/Sl; endemic.
- 233.39.1 **Corymborkis veratrifolia** (Reinw.) Blume, **H44** 144, **S20** 52; *Corymbis longiflora* Hook.f., **FMP4** 208; *Corymbis brevistylis* Hook.f., **FMP4** 208; *Corymborkis rhytidocarpa* (Hook.f.) Kuntze, **H44** 146; *Corymborkis brevistylis* (Hook.f.) Kuntze, **H44** 146; unbranched herb to 3 m tall; lowland and montane forest; widespread.
- 233.40.1 **Cryptostylis arachnites** (Blume) Hassk., **FMP4** 225, **H44** 103, **S20** 49; herb 20–60 cm tall; lowland and montane forest to 1800 m; widespread.

- 233.40.2 *Cryptostylis conspicua* J.J.Sm. **H44** 105, **S20** 50; herb about 50 cm tall, montane forest at 1200–1800 m; Pk, Ph, Jh
- 233.41.1 *Cymbidium aloifolium* (L.) Sw., **S20** 553; *Cymbidium simulans* Rolfe, **H44** 523, epiphyte to 1 m long; only known from P. Langkawi.
- 233.41.2 *Cymbidium atropurpureum* (Lindl.) Rolfe, **H44** 520, **S20** 551, epiphyte about 50 cm long; lowlands; Ph, Ml, Jh.
- 233.41.3 *Cymbidium bicolor* Lindl. ssp. *pubescens* (Lindl.) Du Puy & P.J. Cribb, **S20** 551; *Cymbidium pubescens* Lindl., **FMP4** 145, **H44** 522; epiphyte; on exposed trees often near the sea; widespread.
- 233.41.4 *Cymbidium chloranthum* Lindl., **H44** 519, **S20** 549; epiphyte, lowlands; Galas, Kl. and Tembeling, Ph.
- 233.41.5 *Cymbidium dayanum* Rehb.f., **FMP4** 146, **H44** 519, **S20** 549; grassy-leaved tufted epiphyte; lowlands and mountains; Ps, Kd, Ph.
- 233.41.6 *Cymbidium ensifolium* (L.) ssp. *haematodes* (Lindl.) Du Puy & P.J. Cribb, **S20** 549; *Cymbidium munronianum* auct. non King & Pantl., **FMP4** 146, **H44** 519, grassy-leaved herb to nearly 1 m tall, only known from P. Langkawi.
- 233.41.7 *Cymbidium finlaysonianum* Lindl., **FMP4** 145, **H44** 520, **S20** 551; epiphyte often forming large masses, on exposed lowland trees, most abundant in the north.
- 233.41.8 *Cymbidium lancifolium* Hook., **FMP4** 146, **H44** 518, **S20** 547, herb about 20 cm tall; hill forest; Pk, Ph, Ml
- 233.41.9 *Cymbidium rectum* Ridl., **FMP4** 146, **H44** 520, **S20** 549; epiphyte to 60 cm tall; lowland forest; Sl, NS.
- 233.41.10 *Cymbidium roseum* J.J.Sm. **H44** 518, **S20** 547, herb, occasionally a low-level epiphyte; mountain ridges at 1500–1800 m; Ph
- 233.42.1 *Cyrtosia javanica* Blume, **S20** 128, *Galeola javanica* (Blume) Benth. & Hook.f., **FMP4** 203, **H44** 98, fleshy-rooted saprophyte about 25 cm tall, montane forest; Pk, Ph.
- 233.43.1 *Cystorchis aphylla* Ridl., **FMP4** 212, **H44** 140, **S20** 69; red-brown saprophyte about 15 cm tall; lowland and hill forest; widespread.
- 233.43.2 *Cystorchis gracilis* (Hook.f.) Holttum, **H44** 140, **S20** 69; *Goodyera gracilis* Hook.f., **FMP4** 219; herb to 30 cm tall, montane forest, Taiping Hills, Pk, endemic.
- 233.43.3a *Cystorchis variegata* Blume var. *purpurea* Ridl., **FMP4** 212, **H44** 139, **S20** 69; herb 10–15 cm tall; lowland forest; Ph, Jh, Sp.

- 233.43.3b **Cystorchis variegata** Blume var. *variegata*, **FMP4** 211, **H44** 139, **S20** 68; herb 15–25 cm tall; lowland forest; Pk southward.
- 233.44.1 **Dendrobium acerosum** Lindl., **FMP4** 38, **H44** 338, **S20** 423; epiphyte to 25 cm long; on moderately exposed trees; widespread.
- 233.44.2 **Dendrobium aciculare** Lindl., **S20** 403; tall thin epiphyte to 30 cm; type possibly from Sp.
- 233.44.3 **Dendrobium acinaciforme** Roxb., **S20** 411; tufted epiphyte to 40 cm tall; once at Tembeling, Ph.
- 233.44.4 **Dendrobium aloifolium** (Blume) Rchb.f., **H44** 330, **S20** 411; *Dendrobium serra* (Lindl.) Lindl., **FMP4** 35; epiphyte to 45 cm tall; lowland forest; widespread.
- 233.44.5 **Dendrobium anosmum** Lindl., **H44** 286, **S20** 383; *Dendrobium superbium* Rchb.f., **FMP4** 52; epiphyte to 120 cm long; forest on limestone; chiefly in the north, uncommon.
- 233.44.6 **Dendrobium aphyllum** (Roxb.) C.E.C. Fisch., **S20** 383; *Dendrobium pierardii* Roxb. ex Hook., **FMP4** 51, **H44** 292; pendulous epiphyte to 1 m long; Ph, Sl.
- 233.44.7 **Dendrobium atrorubens** Ridl., **FMP4** 37, **H44** 335, **S20** 419; epiphyte to 60 cm tall; montane forest at 900–1500 m; endemic.
- 233.44.8 **Dendrobium bifarium** Lindl., **FMP4** 42, **H44** 322, **S20** 399; epiphyte to 30 cm long; mostly in the lowlands; widespread.
- 233.44.9 **Dendrobium blumei** Lindl., **S20** 407; epiphyte 20–40 cm long; Pk.
- 233.44.10 **Dendrobium brinchangense** Holttum, **H44** 316, **S20** 373; epiphyte to 70 cm tall; upper montane forest at 1800–2000 m; only known from Gg Berinchang, Ph; endemic.
- 233.44.11 **Dendrobium calicopis** Ridl., **FMP4** 48, **H44** 316, **S20** 373; epiphyte to 40 cm long; [missing] type from P. Langkawi.
- 233.44.12 **Dendrobium clavator** Ridl., **FMP4** 41, **H44** 326, **S20** 403; very thin epiphyte about 30 cm long; Pk, NS, Jh.
- 233.44.13 **Dendrobium concinnum** Miq., **S20** 419; *Dendrobium atropurpureum* [non (Blume) Miq.] Ridl., **FMP4** 37 in part; *Dendrobium carnosum* (Blume) Rchb.f., **H44** 337; small epiphyte; lowlands and mountains; quite widespread.
- 233.44.14 **Dendrobium cornutum** Hook.f., **FMP4** 46, **H44** 319, **S20** 378; epiphyte to 60 cm long; mountain tops above 2000 m; several localities.

- 233.44.15 **Dendrobium crocatum** Hook.f., **FMP4** 47, **H44** 319, **S20** 378; epiphyte to 60 cm tall; lowlands, especially on riverside trees; widespread.
- 233.44.16 **Dendrobium crumenatum** Sw., **FMP4** 42, **H44** 329, **S20** 409; epiphyte sometimes over 1 m long; ubiquitous on roadside trees in the lowlands.
- 233.44.17 **Dendrobium derryi** Ridl., **FMP4** 47, **H44** 315, **S20** 371; epiphyte to 25 cm long; hill forest; known only from Larut Hills, Pk; endemic.
- 233.44.18 **Dendrobium erosum** (Blume) Lindl., **S20** 367; *Dendrobium aegle* Ridl., **FMP4** 47, **H44** 318; epiphyte to 60 cm long; lowland and hill forest; Pk, Ph, Jh.
- 233.44.19 **Dendrobium excavatum** (Blume) Miq., **H44** 336, **S20** 419; epiphyte about 30 cm tall; hill and montane forest; Kd, Pn, Ph.
- 233.44.20 **Dendrobium exilicaule** Ridl., **S20** 382, **H44** 320; weak, slender epiphyte about 30 cm long; known only from P. Langkawi; endemic.
- 233.44.21 **Dendrobium farmeri** Paxton, **H44** 282, **S20** 365; epiphyte about 30 cm long; lowland forest, on riverside trees; north of Peninsula.
- 233.44.22 **Dendrobium flexile** Ridl., **FMP4** 39, **H44** 339, **S20** 423; epiphyte about 12 cm long; on old mangrove and riverside trees; Jh, Sp.
- 233.44.23 **Dendrobium foxii** Ridl., **FMP4** 49, **H44** 320, **S20** 378; epiphyte about 40 cm long; montane forest; known only from the Taiping Hills, Pk; endemic.
- 233.44.24 **Dendrobium grande** Hook.f., **FMP4** 36, **H44** 332, **S20** 413; epiphyte to 50 cm long; on lofty lowland trees; widespread.
- 233.44.25 **Dendrobium hendersonii** A.D. Hawkes & A.H. Heller, **H44** 328 in part, **S20** 407; epiphyte to 60 cm tall; lowland forest; Tg, ?Pk, Ph, ?Jh.
- 233.44.26 **Dendrobium hercoglossum** Rchb.f., **FMP4** 45 in part, **S20** 391; *Dendrobium linguella* (non Rchb.f.) Holttum, **H44** 290 in part; epiphyte about 20 cm long; lowland forest; various localities.
- 233.44.27 **Dendrobium heterocarpum** Lindl., **H44** 290, **S20** 389; *Dendrobium aureum* Lindl., **FMP4** 51; epiphyte 20–30 cm tall; montane forest; once on the Taiping Hills, Pk.
- 233.44.28 **Dendrobium hosei** Ridl., **FMP4** 43, **H44** 323 incl. var. *pelor* Carr, **S20** 397; epiphyte to 60 cm long; on riverside trees; Ph.
- 233.44.29 **Denrabium hughii** Rchb.f., **H44** 314, **S20** 368; *Dendrobium lepidum* Ridl., **FMP4** 48; epiphyte about 30 cm long; montane forest; about 1300 m; Kd, Ph, Sl, Jh; endemic.

- 233.44.30 **Dendrobium hymenanthum** Rchb.f., **S20** 360; *Dendrobium quadrangulare* C.S.P. Parish & Rchb.f., **H44** 275; tufted epiphyte about 10 cm tall; Kl, Ph.
- 233.44.31 **Dendrobium hymenopterum** Hook.f., **FMP4** 48, **H44** 319, **S20** 375; epiphyte about 30 cm long; montane forest; about 1100 m; once from Gg Batu Puteh, Pk.
- 233.44.32 **Dendrobium incurvum** Lindl., **S20** 401; *Dendrobium eriaeflorum* auct. non Griff., **FMP4** 51, **H44** 311; epiphyte about 20 cm tall; hill forest; once on Bt Wang, Kd.
- 233.44.33 **Dendrobium indivisum** (Blume) Miq., **H44** 332, **S20** 413; *Dendrobium eulophotum* Lindl., **FMP4** 35; epiphyte about 30 cm tall; lowland forests; widespread.
- 233.44.34 **Dendrobium indragiriense** Schltr., **H44** 340, **S20** 425; *Dendrobium gemellum* (non Lindl.) Ridl., **FMP4** 40 in part; slender epiphyte to 100 cm long; lowland forest; widespread.
- 233.44.35 **Dendrobium kentrochilum** Hook.f., **FMP4** 50, **S20** 371; epiphyte 20–30 cm long; hill forest; known only from type, Ulu Batang Padang, Pk; endemic.
- 233.44.36 **Dendrobium kentrophyllum** Hook.f., **FMP4** 39, **H44** 339, **S20** 420; epiphyte about 20 cm long; montane forest; about 1200 m; Pk, Ph, Sl.
- 233.44.37 **Dendrobium lamellatum** (Blume) Lindl., **FMP4** 46, **H44** 317, **S20** 373; flat-stemmed epiphyte to 12 cm long; lowland forest; widespread but uncommon.
- 233.44.38 **Dendrobium lampongense** J.J.Sm., **H44** 312, **S20** 381; epiphyte about 65 cm long; lowland forest; Kd, NS.
- 233.44.39 **Dendrobium lankaviense** Ridl., **H44** 320, **S20** 378; epiphyte about 30 cm long; twice collected on P. Langkawi; endemic.
- 233.44.40 **Dendrobium leonis** (Lindl.) Rchb.f., **FMP4** 37, **H44** 334, **S20** 417; epiphyte to 25 cm tall; on lowland trees; widespread and common.
- 233.44.41 **Dendrobium linguella** Rchb.f., **H44** 290 in part, **S20** 391; *Dendrobium hercoglossum* (non Rchb.f.) Ridl., **FMP4** 45 in part; wiry-stemmed epiphyte to 60 cm tall; probably widespread.
- 233.44.42 **Dendrobium lobatum** (Blume) Miq., **FMP4** 36, **H44** 332, **S20** 413; pendulous epiphyte to 100 cm long; lowland trees, especially those near rivers; widespread.
- 233.44.43 **Dendrobium lobbii** Teijsm. & Binn., **H44** 342, **S20** 427; *Dendrobium calcaratum* Lindl., *nom. illeg.*, **FMP4** 39; slender herb to 70 cm tall; beds of lowland forest streams; commoner in the south.

- 233.44.44 **Dendrobium mannii** Ridl., **H44** 333, **S20** 415; *Dendrobium terminale* (non C.S.P. Parish & Rchb.f.) Ridl., **FMP4** 36; epiphyte to 15 cm long; lowland and hill forest; Ml, Jh.
- 233.44.45 **Dendrobium megaceras** Hook.f., **FMP4** 50, **H44** 319, **S20** 375; epiphyte about 60 cm long; lowlands; Ph, Ml, Jh (one collection each); endemic.
- 233.44.46 **Dendrobium metachilinum** Rchb.f., **FMP4** 44, **H44** 323, **S20** 397; epiphyte to 35 cm long; lowland forest; commoner in the south.
- 233.44.47 **Dendrobium metrium** Kraenzl., **FMP4** 45, **H44** 314, **S20** 368; ? herb; in the hills; once from Penang Hill and once from Semangkok, Sl; endemic.
- 233.44.48 **Dendrobium microglaphys** Rchb.f., **S20** 389; *Dendrobium callibotrys* Ridl., **FMP4** 44, **H44** 287; erect terrestrial or pendulous epiphyte 20–60 cm long; lowlands; commoner in the south.
- 233.44.49 **Dendrobium pachyglossum** C.S.P. Parish & Rchb.f., **FMP4** 40, **H44** 342, **S20** 429; pendulous epiphyte to 50 cm long; montane forest; several localities.
- 233.44.50 **Dendrobium pachyphyllum** (Kuntze) Bakh.f., **S20** 363; *Dendrobium pumilum* Roxb., **FMP4** 34, **H44** 275; tiny epiphyte to 5 cm tall forming dense mats; on lowland trees; common throughout.
- 233.44.51 **Dendrobium pahangense** Carr, **H44** 322, **S20** 397; epiphyte about 20 cm long; montane forest; Fraser's Hill and Gg Tahan, Ph; endemic.
- 233.44.52 **Dendrobium pandaneti** Ridl., **FMP4** 44, **H44** 324, **S20** 395; epiphyte to 35 cm long; on lowland palms and pandans; commoner in the south.
- 233.44.53 **Dendrobium panduriferum** Hook.f., **S20** 375; *Dendrobium virescens* Ridl., **FMP4** 47; *Dendrobium serpens* (Hook.f.) Hook.f., **FMP4** 47, **H44** 319; epiphyte to 60 cm long; Pk, Ph.
- 233.44.54 **Dendrobium peculiare** J.J.Sm., **S20** 402, **H44** 325; epiphyte about 30 cm long; montane forest; known only from the Cameron Highlands, Ph.
- 233.44.55 **Dendrobium pensile** Ridl., **FMP4** 40, **H44** 340, **S20** 425; pendulous epiphyte to 120 cm long; on old mangrove and riverside trees; Ph, Jh, Sp.
- 233.44.56 **Dendrobium planibulbe** Lindl., **FMP4** 41 in part, **H44** 328 in part, **S20** 407; epiphyte about 40 cm tall; Tg, Pk.
- 233.44.57 **Dendrobium procumbens** Carr, **H44** 275, **S20** 364; tufted procumbent epiphyte; montane forest; known only from the Cameron Highlands, Ph; endemic.
- 233.44.58 **Dendrobium prostratum** Ridl., **FMP4** 38, **H44** 334, **S20** 415; creeping epiphyte; lowland trees; widespread.

- 233.44.59 **Dendrobium pulchellum** Roxb. ex Lindl., **H44** 293, **S20** 383; *Dendrobium dalhousieanum* Wall., **FMP4** 52; epiphyte 1–2 m long; on lofty lowland trees; collected wild once at Chan Chu Kang, Sp.
- 233.44.60 **Dendrobium quadrilobatum** Carr, **H44** 332, **S20** 413; epiphyte to 30 cm long; lowland forest; Tg, Ph; endemic.
- 233.44.61 **Dendrobium revolutum** Lindl., **FMP4** 43 in part, **H44** 323 in part, **S20** 399; epiphyte 40–60 cm long; lowland trees; Jh, Sp; endemic.
- 233.44.62 **Dendrobium rhodostele** Ridl., **FMP4** 35, **H44** 331, **S20** 411; epiphyte about 45 cm long; on lowland forest trees by rivers; Tg, Ph.
- 233.44.63 **Dendrobium roseatum** Ridl., **FMP4** 48, **H44** 320, **S20** 382; *Dendrobium clarissimum* Ridl., **FMP4** 49; epiphyte about 60 cm long; montane forest at about 1300 m, near streams; endemic.
- 233.44.64 **Dendrobium rosellum** Ridl., **FMP4** 35, **H44** 331, **S20** 411; epiphyte about 45 cm long; on lowland riverside trees; Jh.
- 233.44.65 **Dendrobium rupicolum** Ridl., **FMP4** 42, **S20** 397; *Dendrobium distichophyllum* A.D. Hawkes & A.H. Heller, **H44** 322; about 35 cm long; on rocks or trees in the mountains; Main Range and Gg Tahan; endemic.
- 233.44.66 **Dendrobium salaccense** (Blume) Lindl., **H44** 341, **S20** 427; *Dendrobium gemellum* (non Lindl.) Ridl., **FMP4** 40 in part; slender epiphyte to 100 cm long; lowland forest; widespread.
- 233.44.67 **Dendrobium sanguinolentum** Lindl., **FMP4** 50, **H44** 314, **S20** 371; epiphyte about 60 cm long; hill forest; widespread.
- 233.44.68 **Dendrobium secundum** (Blume) Lindl., **FMP4** 46, **H44** 316, **S20** 373; epiphyte to 1 m long; lowland epiphyte, often on exposed trees near the sea; commoner in the north.
- 233.44.69 **Dendrobium setifolium** Ridl., **H44** 326, **S20** 403; *Dendrobium gracile* [non (Blume) Lindl.] Ridl., **FMP4** 41; slender epiphyte to 40 cm long; lowland forest; Ph, Sp.
- 233.44.70 **Dendrobium singaporense** A.D. Hawkes & A.H. Heller, **H44** 337, **S20** 420; *Dendrobium teres* (non Roxb.) Lindl., **FMP4** 38; epiphyte about 40 cm long; lowland and hill forest; Kd, Pn, Pk, Ph, Sl, Sp.
- 233.44.71 **Dendrobium sinuatum** (Lindl.) Lindl. ex Rehb.f., **FMP4** 37, **H44** 335, **S20** 419; pendulous epiphyte about 25 cm long; lowlands and mountains; widespread.
- 233.44.72 **Dendrobium spigidoglossum** Rehb.f.; **S20** 393; *Dendrobium flavidulum* Ridl. ex Hook.f., **FMP4** 45, **H44** 311; epiphyte about 60 cm long; on old mangrove trees; Kl, Pn, Sp.

- 233.44.73 **Dendrobium spurium** (Blume) J.J.Sm., **H44** 277, **S20** 365; *Dendrobium euphlebiium* Rchb.f. ex Lindl., **FMP4** 44; about 30 cm long; on limestone rocks or old mangrove trees; widespread though more frequent in the south.
- 233.44.74 **Dendrobium striatellum** Carr. **H44** 275, **S20** 363; small, tufted epiphyte about 7 cm tall; Gua Musang, Kl. and Merapok, Ph; endemic.
- 233.44.75 **Dendrobium stuartii** F.M. Bailey, **S20** 389; *Dendrobium tetrodon* auct. non Rchb.f. ex Lindl., **FMP4** 45, **H44** 293; pendulous epiphyte about 30 cm long; on exposed lowland trees; widespread.
- 233.44.76 **Dendrobium subflavidum** Ridl., **FMP4** 49, **H44** 320, **S20** 378; *Dendrobium chloroleucum* Ridl., **FMP4** 49; epiphyte to 70 cm long; exposed places in montane forest at about 1500 m; Tg. Pk, Ph; endemic.
- 233.44.77 **Dendrobium subulatum** (Blume) Lindl., **FMP4** 39, **H44** 339, **S20** 423; epiphyte about 10 cm tall; on sheltered lowland trees; widespread.
- 233.44.78 **Dendrobium terminale** C.S.P. Parish & Rchb.f., **S20** 415; epiphyte 10–15 cm long; one dubious report from Ml.
- 233.44.79 **Dendrobium tortile** Lindl., **FMP4** 52, **H44** 294, **S20** 383; *Dendrobium haniffii* Ridl., **FMP4** 51; epiphyte 20–30 cm long; Kd, Kl, Pn, Ph.
- 233.44.80 **Dendrobium trinervium** Ridl., **FMP4** 51, **S20** 395; tufted epiphyte to 8 cm tall; montane forest; known only from Gg Jerai, Kd.
- 233.44.81 **Dendrobium tropaeoliflorum** Hook.f., **FMP4** 49, **H44** 319, **S20** 375; described from plant from Pk; endemic.
- 233.44.82 **Dendrobium truncatum** Lindl., **FMP4** 41, **H44** 327, **S20** 403; epiphyte about 30 cm long; lowlands; Kd, Pk, Ph, Sl.
- 233.44.83 **Dendrobium uniflorum** Griff., **FMP4** 43, **H44** 323, **S20** 399; *Dendrobium revolutum* auct. non Lindl., **FMP4** 43 in part, **H44** 322 in part; epiphyte around 40 cm long; lowlands; widespread.
- 233.44.84 **Dendrobium ustulatum** Carr., **H44** 275, **S20** 364; procumbent epiphyte; montane forest; about 1200 m; Ph, Sl.
- 233.44.85 **Dendrobium villosulum** Lindl., **FMP4** 40, **S20** 429; *Dendrobium melanochlamiys* Lindl., **H44** 342; terrestrial to 1 m tall; on dead leaves in lowland and montane forest; widespread.
- 233.44.86 **Dendrobium viridulum** Ridl., **S20** 425; epiphyte; Kd, Ph.
- 233.45.1 **Dendrochilum angustifolium** Ridl., **FMP4** 82, **H44** 234, **S20** 191; creeping epiphyte about 10 cm tall; montane forest on exposed ridges; Pk, Ph.

- 233.45.2 **Dendrochilum carnosum** (Ridl.) Holttum, **H44** 231, **S20** 187; *Platyclinis carnosa* Ridl., **FMP4** 26; creeping epiphyte; exposed montane forest at 1350–2100 m; several localities; endemic.
- 233.45.3 **Dendrochilum crassum** Ridl., **FMP4** 82, **H44** 234, **S20** 191; creeping epiphyte; montane forest; collected once on the Taiping Hills, Pk.
- 233.45.4 **Dendrochilum ellipticum** Ridl., **FMP4** 83, **H44** 234, **S20** 191; creeping epiphyte; lowland forest; Kl, Ph, Jh, Sp.
- 233.45.5a **Dendrochilum gracile** (Hook.f.) J.J.Sm. var. **angustifolia** (Ridl.) Holttum, **H44** 233, **S20** 188; *Platyclinis gracilis* Hook.f. var. *angustifolia* Ridl., **FMP4** 25; creeping epiphyte; montane forest; about 1500 m; Pk, Ph; endemic variety.
- 233.45.5b **Dendrochilum gracile** (Hook.f.) J.J.Sm. var. **gracile**, **H44** 233, **S20** 187; *Platyclinis gracilis* Hook.f., **FMP4** 25; creeping epiphyte; montane forest at about 1200 m; Pk, Ph, Sl.
- 233.45.6 **Dendrochilum gramineum** (Ridl.) Holttum, **H44** 233, **S20** 188; *Platyclinis graminea* Ridl., **FMP4** 26; creeping epiphyte; montane forest; Pk, Ph; endemic.
- 233.45.7 **Dendrochilum kingii** (Hook.f.) J.J.Sm., **H44** 229, **S20** 185; *Platyclinis kingii* Hook.f., **FMP4** 27; *Platyclinis sarawakensis* Ridl., **FMP4** 27; creeping epiphyte; montane forest; Pk.
- 233.45.8 **Dendrochilum linearifolium** Hook.f., **H44** 232, **S20** 187; *Platyclinis linearifolia* (Hook.f.) Ridl., **FMP4** 25; *Platyclinis pulchella* Ridl., **FMP4** 26; creeping on trees and rocks; on mountains at 1200–2100 m; quite widespread.
- 233.45.9 **Dendrochilum longifolium** Rchb.f., **H44** 229, **S20** 185; *Platyclinis longifolia* (Rchb.f.) Hemsl., **FMP4** 25; creeping epiphyte; on old mangrove trees; Ph southward.
- 233.45.10 **Dendrochilum odoratum** (Ridl.) J.J.Sm., **H44** 231, **S20** 187; *Platyclinis odorata* Ridl., **FMP4** 26; epiphyte; montane forest at 1200–1500 m; Kd, Pk, Ph; endemic.
- 233.45.11 **Dendrochilum pallideflavens** Blume, **S20** 189; *Dendrochilum album* Ridl., **FMP4** 82, **H44** 234; epiphyte about 15 cm tall; lowlands and mountains; widespread.
- 233.45.12 **Dendrochilum simile** Blume, **H44** 231, **S20** 185; *Platyclinis linearis* Ridl., **FMP4** 26; terrestrial; montane forest; Kd, Ph.
- 233.45.13 **Dendrochilum spatulatum** Ridl., **FMP4** 82, **H44** 234, **S20** 190; epiphyte; lowlands and mountains; Pk, Ph, Jh.

- 233.46.1 **Didymoplexiella ornata** (Ridl.) Garay, **S20** 138; *Leucolaena ornata* Ridl., **FMP4** 207 incl. var. *singaporensis* Ridl.; *Didymoplexis ornata* (Ridl.) J.J.Sm., **H44** 108; tuberous leafless saprophyte 20–80 cm tall; lowland forest; Pk southward.
- 233.47.1 **Didymoplexis pallens** Griff., **FMP4** 206, **H44** 109, **S20** 139; leafless saprophyte to 12 cm tall; lowland forest; quite widespread.
- 233.48.1 **Diglyphosa latifolia** Blume, **FMP4** 112, **H44** 177, **S20** 536; creeping herb about 50 cm tall; montane forest; Pk, Ph, Sl.
- 233.49.1 **Dilochia cantleyi** (Hook.f.) Ridl., **FMP4** 127, **H44** 190, **S20** 148; herb to 2 m tall; *Sphagnum* peat bogs in the mountains; several localities.
- 233.49.2 **Dilochia wallichii** Lindl., **FMP4** 126, **H44** 190, **S20** 148; plant to 1.5 m tall; on rocks or sometimes trees; lowlands and hills; several localities.
- 233.50.1 **Diplocaulobium longicolle** (Lindl.) Kraenzl, **FMP4** 27, **S20** 348; *Dendrobium longicolle* Lindl., **H42** 263; epiphyte, occasionally terrestrial, to 40 cm tall; often on old mangrove trees; south of Peninsula.
- 233.51.1 **Dipodium paludosum** (Griff.) Rehb.f, **FMP4** 148, **H44** 515, **S20** 555; tufted herb to 1 m tall; open sandy places near the sea; Ph, Ml, Sp.
- 233.51.2 **Dipodium parviflorum** J.J.Sm., **H44** 513, **S20** 555; long climbing from ground using adpressed roots; lowland forest; once from Sungkap F.R., Kd.
- 233.51.3 **Dipodium pictum** (Lindl.) Rehb.f., **FMP4** 147, **H44** 513, **S20** 553; long climbing from ground using adpressed roots; lowland and montane forest; widespread.
- 233.51.4 **Dipodium scandens** (Blume) J.J.Sm., **S20** 555; long climbing from ground using adpressed roots; lowland and montane forest; Pn, Sl, Ml.
- 233.52.1 **Doritis pulcherrima** Lindl., **FMP4** 158, **S20** 585; *Phalaenopsis pulcherrima* (Lindl.) J.J.Sm., **H44** 671; herb to 30 cm tall; sandy heaths; P. Langkawi, Kd, Tg.
- 233.53.1 **Epigeneium geminatum** (Blume) Summerh., **S20** 351; *Sarcopodium geminatum* (Blume) Rolfe, **FMP4** 28; *Dendrobium geminatum* (Blume) Lindl., **H44** 273; creeping epiphyte or epiplith about 10 cm tall; on high exposed mountain ridges; many localities.
- 233.53.2 **Epigeneium longipes** (Hook.f.) Summerh., **S20** 348; *Sarcopodium longipes* (Hook.f.) Rolfe, **FMP4** 28; *Dendrobium longipes* Hook.f., **H44** 272; creeping epiphyte or epiplith about 15 cm tall; on high exposed mountain ridges; many localities.

- 233.53.3 **Epigeneium macropodum** (Hook.f.) Summerh., **S20** 351; *Sarcopodium macropodum* (Hook.f.) Rolfe, **FMP4** 28; *Dendrobium macropodum* Hook.f., **H44** 273; creeping epiphyte or epilith about 15 cm tall; on high exposed mountain ridges; many localities.
- 233.53.4 **Epigeneium zebrinum** (J.J.Sm.) Summerh., **S20** 351; *Sarcopodium citrinocastaneum* (Burkill) Ridl., **FMP4** 29; *Dendrobium zebrinum* J.J.Sm., **H44** 274; creeping epiphyte about 30 cm tall; lowland forests; Kl, Ph, Jh.
- 233.54.1 **Epipogium roseum** (D. Don) Lindl., **H44** 107, **S20** 141; leafless saprophyte to 80 cm tall; montane forest; once at the Cameron Highlands, Ph.
- 233.55.1 **Eria appendiculata** (Blume) Lindl., **H44** 389, **S20** 298; *Eria carunculata* Ridl., **FMP4** 94; epilith about 15 cm tall; high mountains at about 2000 m; Pk, Ph.
- 233.55.2 **Eria atrovinosa** Carr, **H44** 388, **S20** 295; epiphyte about 15 cm tall; lowland and montane forest; Ph, Sl, Ml; endemic.
- 233.55.3 **Eria bicristata** (Blume) Lindl., **H44** 391, **S20** 301; epiphyte about 20 cm tall; lowland forest; once from Sg Sat, Ph.
- 233.55.4 **Eria biflora** Griff., **H44** 372, **S20** 293; epiphyte to 25 cm tall; lowland forest; Kl, Ph.
- 233.55.5 **Eria bractescens** Lindl., **FMP4** 91, **H44** 388, **S20** 295; epiphyte about 15 cm tall; montane forest and lowland trees near rivers or the sea; widespread, though more frequent in the south.
- 233.55.6 **Eria cepifolia** Ridl., **FMP4** 90, **H44** 383, **S20** 283; about 15 cm tall; limestone areas; Kl, Pk.
- 233.55.7 **Eria citrina** Ridl., **FMP4** 87, **H44** 366, **S20** 281; clumped epiphyte to 60 cm tall; montane forest; Tg, Pk, Ph, Sl.
- 233.55.8 **Eria clavata** Holttum, **H44** 391, **S20** 301; epiphyte to 10 cm tall; montane forest; known only from Fraser's Hill, Ph; endemic.
- 233.55.9 **Eria crassipes** Ridl., **FMP4** 97, **H44** 382, **S20** 287; *Eria reptans* Ridl., **FMP4** 97; *Eria crassifolia* Ridl., **FMP4** 98; terrestrial or epiphytic to 30 cm tall; exposed mountain ridges; several localities.
- 233.55.10 **Eria dasystachys** Ridl., **FMP4** 98, **H44** 390, **S20** 298; epiphyte to 15 cm tall; lowland forest; known only from type, Pekan, Ph; endemic.
- 233.55.11 **Eria densa** Ridl., **FMP4** 90, **H44** 384, **S20** 285; thick-stemmed epiphyte to 50 cm tall; montane forest at 1300–2000 m; many places.
- 233.55.12 **Eria diluta** Ridl., **FMP4** 95, **H44** 369, **S20** 291; epiphyte to 20 cm tall; hill forest; Kd, Pn; endemic.

- 233.55.13 **Eria earine** Ridl., **FMP4** 88, **H44** 383, **S20** 283; epiphyte about 10 cm tall; montane forest; Gg Tahan and Cameron Highlands. Ph; endemic.
- 233.55.14 **Eria elata** Hook.f., **FMP4** 96, **H44** 388, **S20** 295; epiphyte about 30 cm tall; montane forest; Pk, Sl; endemic.
- 233.55.15 **Eria flavescens** (Blume) Lindl., **H44** 396, **S20** 306; epiphyte to 30 cm tall; montane forest; Cameron Highlands. Ph.
- 233.55.16 **Eria floribunda** Lindl., **FMP4** 89, **H44** 384, **S20** 285; epiphyte to 30 cm long; lowlands and hills to 1300 m; widespread.
- 233.55.17 **Eria hyacinthoides** (Blume) Lindl., **H44** 390, **S20** 298; *Eria endymion* Ridl., **FMP4** 91; fleshy epiphyte about 20 cm tall; lowlands and hills; Kl, Tg, Pk, Sl, Sp.
- 233.55.18 **Eria iridifolia** Hook.f., **FMP4** 86, **S20** 279; *Eria bidens* Ridl., **FMP4** 86; *Eria latifolia* (Blume) Rchb.f., *nom. illeg.*, **H44** 365; plant to 30 cm tall; on rocks and trees in the mountains above 1200 m; widespread.
- 233.55.19 **Eria javanica** (Sw.) Blume, **H44** 377, **S20** 271; *Eria stellata* Lindl., **FMP4** 96; *Eria striolata* Rchb.f., **FMP4** 96; epiphyte to about 60 cm tall; lowland forests; widespread.
- 233.55.20 **Eria lamonganensis** Rchb.f., **H44** 396, **S20** 305; *Eria carnea* (non J.J.Sm.) Ridl., **FMP4** 93; epiphyte to 25 cm long; montane forest; Fraser's Hill and Cameron Highlands. Ph.
- 233.55.21 **Eria lasiopetala** (Willd.) Ormerod, **S19** 22; *Eria albidotomentosa* (Blume) Lindl., **FMP4** 98, **H44** 375; *Eria pubescens* (Hook.) Steud., **S20** 277; epiphyte to 40 cm tall; Pk northwards.
- 233.55.22 **Eria latibracteata** Ridl., **S20** 305; *Eria braddonii* Rolfe, **FMP4** 92, **H44** 395; epiphyte to 20 cm long; lowland and hill forest; Ph, Sl, NS.
- 233.55.23 **Eria lancifolia** Hook.f., **FMP4** 85, **H44** 392, **S20** 303; creeping epiphyte to 30 cm tall; on riverside trees; Pk, Ph, Jh.
- 233.55.24 **Eria leiophylla** Lindl., **FMP4** 99, **H44** 379, **S20** 275; creeping epilith to 15 cm tall; in the hills; Tg, Pn, Pk.
- 233.55.25 **Eria longerepens** Ridl., **FMP4** 95, **H44** 372, **S20** 293; long-creeping epiphyte to 30 cm tall; on mangrove trees; south of Peninsula.
- 233.55.26 **Eria maingayi** Hook.f., **FMP4** 92, **H44** 390, **S20** 301; epiphyte to 10 cm tall; hill forest; Kl, Pn, Ph; endemic.
- 233.55.27 **Eria mucronata** Lindl., **S20** 289; *Eria pendula* Ridl., **FMP4** 89; *Eria rigida* Blume, **H44** 371; pendulous to 100 cm long; on limestone rocks or trees; widespread.

- 233.55.28 **Eria neglecta** Ridl., **FMP4** 95, **H44** 368, **S20** 293; epiphyte to 30 cm tall; often on mangrove or riverside trees; widespread.
- 233.55.29 **Eria nutans** Lindl., **FMP4** 94, **H44** 368, **S20** 291; epiphyte to 30 cm tall; lowlands and hills, often near rivers; widespread.
- 233.55.30 **Eria obliqua** (Lindl.) Lindl., **FMP4** 86, **H44** 365, **S20** 279; tufted epiphyte to 10 cm tall; on mangrove and riverside trees; in the south.
- 233.55.31 **Eria oblitterata** (Blume) Rchb.f., **S20** 281; *Eria tahanensis* Ridl., **FMP4** 87; *Eria ridleyi* Rolfe, **FMP4** 87, **H44** 366; *Eria larutensis* Ridl., **FMP4** 86; epiphyte about 50 cm tall; montane forest at 1200–1800 m; widespread.
- 233.55.32 **Eria ornata** (Blume) Lindl., **H44** 375, **S20** 277; epiphyte to 50 cm tall; extreme north.
- 233.55.33 **Eria pachystachya** Lindl., **H44** 384, **S20** 283; thick-stemmed epiphyte to 30 cm long; montane forest at 1300–1700 m; Pk, Ph, Sl.
- 233.55.34 **Eria pannea** Lindl., **FMP4** 99, **H44** 380, **S20** 273; creeping epiphyte to 15 cm tall; on lowland trees; common in the south.
- 233.55.35 **Eria pellipes** Hook.f., **S20** 273; *Eria teretifolia* (non Griff.) Griff., **FMP4** 99, **H44** 379; creeping epiphyte to 15 cm tall; montane forest to 1300 m; common, widespread.
- 233.55.36 **Eria pilifera** Ridl., **FMP4** 89, **H44** 369, **S20** 289; drooping epiphyte; montane forest at 1000–1300 m; Pk, Ph.
- 233.55.37 **Eria pudica** Ridl., **FMP4** 85, **H44** 391, **S20** 303; epiphyte about 15 cm tall; on old mangrove and riverside trees; Jh, Sp.
- 233.55.38 **Eria pulchella** Lindl., **H44** 372, **S20** 275; *Tylostylis rigida* (non Blume) Ridl., **FMP4** 104; creeping epiphyte to 20 cm tall; lowlands; widespread, common.
- 233.55.39 **Eria punctata** J.J.Sm., **H44** 389, **S20** 296; creeping epiphyte about 20 cm tall; montane forest; Bukit Fraser and Ulu Kali, Ph.
- 233.55.40 **Eria ramulosa** Ridl., **FMP4** 94, **H44** 393, **S20** 305; creeping epiphyte; montane forest; once from Taiping Hills, Pk; endemic.
- 233.55.41 **Eria recurvata** Hook.f., **FMP4** 92, **H44** 391, **S20** 301; stout fleshy epiphyte to 15 cm tall; poorly known, original collection from Pk; endemic.
- 233.55.42 **Eria robusta** (Blume) Lindl., **H44** 381, **S20** 286; *Eria aeridostachya* Rchb.f. ex Lindl., **FMP4** 96; *Eria brunea* Ridl., **FMP4** 97; *Eria linearifolia* Ridl., **FMP4** 97; *Eria lorifolia* Ridl., **FMP4** 98; epiphyte to 40 cm tall; montane forest, occasionally in the lowlands; widespread.

- 233.55.43 **Eria saccifera** Hook.f., **FMP4** 92, **H44** 387, **S20** 294; *Eria saccata* Ridl., **FMP4** 90, **H44** 387; epiphyte to 20 cm tall; montane forest; Gg Batu Puteh and Gg Korbu, Pk.
- 233.55.44 **Eria scortechinii** Hook.f., **FMP4** 88, **H44** 363, **S20** 271; plant to 120 cm tall; on trees or unshaded rocks in the mountains at 1700–2000 m; quite widespread; endemic.
- 233.55.45 **Eria suaveolens** Ridl., **FMP4** 91, **H44** 388, **S20** 295; fleshy epiphyte to 12 cm long; lowland and hill forest; Pk, Ph, Jh; endemic.
- 233.55.46 **Eria tenuiflora** Ridl., **FMP4** 90, **H44** 393, **S20** 306; epiphyte to 30 cm tall; lowland and hill forest to 1050 m; widespread.
- 233.55.47 **Eria valida** Lindl., **S19** 21; *Eria leptocarpa* Hook.f., **FMP4** 88, **H44** 370, **S20** 289; large epiphyte to 120 cm tall; lowland and hill forest; Pk, Ph, Sl.
- 233.55.48 **Eria xanthocheila** Ridl., **FMP4** 91, **H44** 393, **S20** 303; thick-stemmed epiphyte to 30 cm long; on riverside trees; chiefly in the south.
- 233.56.1 **Erythroides blumei** (Lindl.) Schltr., **S20** 55; *Erythroides brevicar* J.J.Sm., **H44** 119; herb to 60 cm tall; montane forest; collected once at Fraser's Hill, Ph.
- 233.56.2 **Erythroides latifolia** Blume, **S20** 55, **H44** 118; *Physurus latifolius* (Blume) Blume, **FMP4** 210; *Physurus humilis* Blume, **FMP4** 210; *Erythroides humilis* (Blume) J.J.Sm., **H44** 119; herb to 60 cm tall; hill forest; Pk, Ph, Sl.
- 233.57.1 **Erythrorchis altissima** (Blume) Blume, **S20** 132; *Galeola altissima* (Blume) Rchb.f., **FMP4** 203, **H44** 99 in part; scale-leaved saprophyte, much-branched and long-climbing; lowland forest; several localities.
- 233.57.2 **Erythrorchis ochobiensis** (Hayata) Garay, **S20** 132; *Galeola altissima* [non (Blume) Rchb.f.] Holttum, **H44** 99 in part; scale-leaved saprophyte, much-branched and long-climbing; possibly recorded from Pn.
- 233.58.1 **Eulophia andamanensis** Rchb.f., **S20** 539; *Eulophia keithii* Ridl., **FMP4** 142, **H44** 536; herb to 40 cm tall; often on limestone; Ps, Kd, Pn.
- 233.58.2 **Eulophia bicallosa** (D. Don) P.F. Hunt & Summerh., **S20** 541; *Eulophia bicarinata* (Lindl.) Hook.f., **H44** 534; herb about 60 cm tall; once from NS.
- 233.58.3 **Eulophia graminea** Lindl., **FMP4** 41, **H44** 534, **S20** 539; weedy herb to 80 cm tall; open places in the lowlands; widespread, common.
- 233.58.4 **Eulophia spectabilis** (Dennst.) Suresh, **S20** 541; *Eulophia squalida* Lindl., **FMP4** 141, **H44** 537; herb to 1 m tall; open or lightly shaded places including plantations; widespread and common.

- 233.58.5 **Eulophia zollingeri** (Rchb.f.) J.J.Sm., **H44** 534, **S20** 539; *Eulophia macrorrhiza* Blume, **FMP4** 142; leafless saprophyte to 60 cm tall; lowland forest; Pk.
- 233.59.1 **Flickingeria angustifolia** (Blume) A.D. Hawkes, **S20** 359; *Desmotrichum kelsallii* (Ridl.) Ridl., **FMP4** 30; *Desmotrichum ardenii* (Ridl.) Ridl., **FMP4** 30; *Dendrobium kelsallii* Ridl., **H44** 270 in part; tufted epiphyte to 40 cm long; lowlands and mountains; widespread.
- 233.59.2 **Flickingeria appendiculata** (Blume) A.D. Hawkes, **S20** 357; *Desmotrichum bifidum* (Ridl.) Kraenzl., **FMP4** 31; *Dendrobium bifidum* Ridl., **H44** 267; large plant; presence uncertain; Ridley's type possibly from P. Langkawi.
- 233.59.3 **Flickingeria bancana** (J.J. Sm.) A.D. Hawkes, **S20** 360; *Desmotrichum lonchophyllum* [non (Hook.f.) Kraenzl.] Ridl., **FMP4** 29 in part; *Dendrobium kelsallii* (non Ridl.) Holttum, **H44** 270 in part; tufted epiphyte; lowland forests; widespread.
- 233.59.4 **Flickingeria comata** (Blume) A.D. Hawkes, **S20** 352; *Desmotrichum criniferum* Lindl., **FMP4** 30; *Dendrobium comatum* (Blume) Lindl., **H44** 266; much-branched epiphyte to 60 cm tall; lowland forests including mangroves; south of Peninsula.
- 233.59.5 **Flickingeria convexa** (Blume) A.D. Hawkes, **S20** 357; *Dendrobium convexum* (Blume) Lindl., **H44** 270; creeping epiphyte hardly 5 cm tall; Pontian, Jh and ?Ulu Kali, Sl.
- 233.59.6 **Flickingeria fimbriata** (Blume) A.D. Hawkes, **S20** 355; *Desmotrichum fimbriatum* Blume, **FMP4** 30; *Dendrobium plicatile* Lindl., **H44** 267; large much-branched epiphyte; lowland and hill forest; widespread.
- 233.59.7 **Flickingeria forcipata** (Kraenzl.) A.D. Hawkes, **S20** 359; *Dendrobium padangense* Schltr., **H44** 269; creeping epiphyte; Pk, Ph, Sl.
- 233.59.8 **Flickingeria laciniosa** (Ridl.) A.D. Hawkes, **S20** 355; *Desmotrichum lacinosum* (Ridl.) Kraenzl., **FMP4** 31; *Dendrobium lacinosum* Ridl., **H44** 267; epiphyte about 30 cm long; probably on mangroves; known only from type; P. Seletar, Sp; endemic.
- 233.59.9 **Flickingeria luxurians** (J.J.Sm.) A.D. Hawkes, **S20** 357; *Dendrobium luxurians* J.J.Sm., **H44** 267; straggling epiphyte; lowland forest; Tembeling, Ph.
- 233.59.10 **Flickingeria pallens** (Ridl.) A.D. Hawkes, **S20** 355; plant 30–40 cm high; poorly known; one record from P. Langkawi.

- 233.59.11 **Flickingeria xantholeuca** (Rchb.f.) A.D. Hawkes, **S20** 359; *Desmotrichum lonchophyllum* Hook.f., **FMP4** 29 in part; *Desmotrichum pallidiflorum* (Ridl.) Ridl., **FMP4** 31; *Dendrobium xantholeucum* Rchb.f., **H44** 270; much-branched epiphyte 15–30 cm tall; lowland trees including mangroves; P. Langkawi, Pk, Ph, Jh, Sp.
- 233.60.1 **Galeola nudifolia** Lour., **S20** 130; *Galeola hydra* Rchb.f., **FMP4** 202; *Galeola kuhlii* (Rchb.f.) Rchb.f., **H44** 99; scale-leaved saprophyte climbing using adpressed roots; open places in lowland and hill forest to 1200 m; widespread.
- 233.61.1 **Gastrochilus calceolaris** (Buch.-Ham. ex Sm.) D. Don, **H44** 661, **S20** 689; *Saccolabium bigibbum* (non Rchb.f. ex Hook.f.) Ridl., **FMP4** 165; short-stemmed epiphyte; montane forest; Pk, Ph.
- 233.61.2 **Gastrochilus patinatus** (Ridl.) Schltr., **H44** 661, **S20** 691; *Saccolabium patinatum* Ridl., **FMP4** 165; fleshy-leaved epiphyte; lowland forest; Pk, Ph.
- 233.62.1 **Gastrodia javanica** (Blume) Lindl., **H44** 110, **S20** 140; *Gastrodia hasseltii* Blume, **FMP4** 208; *Gastrodia malayana* Ridl., **FMP4** 207; leafless tuberous saprophyte to 70 cm tall; lowland forest; several localities.
- 233.62.2 **Gastrodia verrucosa** Blume, **S20** 141; *Gastrodia hohtumii* Carr, **H44** 110; leafless tuberous saprophyte to 10 cm tall; lowland forest; Ph, Jh (one collection each).
- 233.63.1 **Geodorum citrinum** G.Jacks., **FMP4** 143, **H44** 539, **S20** 545; herb to 50 cm tall; lowland forest; Kd, Pk, Jh.
- 233.63.2 **Geodorum densiflorum** (Lam.) Schltr., **S20** 543; *Geodorum purpureum* (non R.Br.) Ridl., **FMP4** 142, **H44** 539; herb about 50 cm tall; open grassy places; Ml northward.
- 233.64.1 **Goodyera bifida** (Blume) Blume, **S20** 63; *Goodyera foliosa* auct. non (Lindl.) Benth. ex Hook.f., **FMP4** 220, **H44** 123; herb 15–25 cm tall; hill forest; Pk, Ph.
- 233.64.2 **Goodyera colorata** (Blume) Blume, **H44** 122, **S20** 61; herb 10–15 cm tall; one doubtful record from Tembeling, Ph.
- 233.64.3 **Goodyera hispida** Lindl., **H44** 123, **S20** 61; herb about 20 cm tall; on limestone hills at 500 m; Gua Panjang and Gua Nenek, Kl.
- 233.64.4 **Goodyera lanceolata** Ridl., **FMP4** 220, **H44** 122, **S20** 59; herb about 22 cm tall; montane forest; poorly known; type from The Gap, Sl; endemic.
- 233.64.5 **Goodyera pusilla** Blume, **FMP4** 219, **H44** 123, **S20** 61; herb about 10 cm tall; rare; Kd, Pk.

- 233.64.6 **Goodyera rubicunda** (Blume) Lindl., **H44** 122, **S20** 59; *Goodyera rubens* Blume, **FMP4** 220; herb to 60 cm tall; in forest; Ulu Batang Padang, Pk, and Gg Panti, Jh.
- 233.64.7 **Goodyera viridiflora** (Blume) Blume, **S20** 61; *Goodyera cordata* (Lindl.) G. Nicolson., **FMP4** 220, **H44** 122; herb to 20 cm tall; hill forest; Gg Jerai, Kd, Penang Hill and Fraser's Hill, Ph.
- 233.65.1 **Grammatophyllum speciosum** Blume, **FMP4** 149, **H44** 527, **S20** 557; huge clumped epiphyte with stems to 3 m long; often on trees near lowland streams; widespread.
- 233.65.2 **Grammatophyllum stapeliiflorum** (Teijsm. & Binn.) J.J.Sm., **H44** 529, **S20** 558; *Cymbidium stapeliiflorum* Teijsm. & Binn., **FMP4** 147; epiphyte; montane forest; Taiping Hills, Pk, and Gg Ulu Kali, Ph.
- 233.66.1 **Grosourdyia appendiculata** (Blume) Rchb.f., **S20** 695; *Ascochilus hirtulus* (Hook.f.) Ridl., **FMP4** 181; *Sarcochilus appendiculatus* (Blume) J.J.Sm., **H44** 691; small epiphyte about 5 cm tall; often in limestone areas; widespread.
- 233.66.2 **Grosourdyia incurvicalcar** (J.J.Sm.) Garay, **S20** 695; small epiphyte; twice from Ph.
- 233.66.3 **Grosourdyia minutiflora** (Ridl.) Garay, **S20** 695; *Ascochilus minutiflorus* Ridl., **FMP4** 182; *Sarcochilus minutiflorus* (Ridl.) Holttum, **H44** 691; tiny epiphyte; known only from type; Tembeling, Ph; endemic.
- 233.66.4 **Grosourdyia muscosa** (Rolfe) Garay, **S20** 697; *Sarcochilus carriei* L.O. Williams, **H44** 692; epiphyte about 5 cm tall; lowland forests; Ph.
- 233.67.1 **Habenaria carnea** N.E. Br., **FMP4** 227, **H44** 84, **S20** 116; herb 15–25 cm tall; on limestone; P. Langkawi.
- 233.67.2 **Habenaria dentata** (Sw.) Schltr., **S20** 113; herb to 60 cm tall; once collected in Pg.
- 233.67.3 **Habenaria kingii** Hook.f., **FMP4** 228 in part, **H44** 87, **S20** 111; herb 30–50 cm tall; on limestone rocks; Pk; endemic.
- 233.67.4 **Habenaria medioflexa** Turrill, **S20** 111; small herb; hill forest; Kd.
- 233.67.5 **Habenaria reflexa** Blume, **H44** 85, **S20** 113; *Habenaria kingii* (non Hook.f.) Ridl., **FMP4** 228 in part; herb 30–50 cm tall; forest on limestone; Pk, Ph.
- 233.67.6 **Habenaria rhodocheila** Hance, **H44** 84, **S20** 113; *Habenaria xanthocheila* Ridl., **FMP4** 227; herb 20–30 cm tall; lowland forest; Pn.
- 233.67.7 **Habenaria rostellifera** Rchb.f., **S20** 113; *Habenaria roseata* Ridl., **FMP4** 228, **H44** 85; herb 30–45 cm tall; lowland forest; Kd, Tg, Pk.

- 233.67.8 **Habenaria singaporensis** Ridl., **FMP4** 229, **H44** 84, **S20** 109; herb to 1 m tall; lowland swamp forest; Tg, Jh, Sp.
- 233.68.1 **Herminium lanceum** (Thunb. *ex* Sw.) Vuijk, **S20** 101; herb to 50 cm tall; known only from Mt Austen, Jh.
- 233.69.1 **Hetaeria alta** Ridl., **FMP4** 221, **H44** 115, **S20** 93; herb about 60 cm tall; hill forests; Pk, Ph.
- 233.69.2 **Hetaeria anomala** (Lindl.) Hook.f.; **S19** 9; *Zeuxine biloba* Ridl., **FMP4** 218, **H44** 134; *Hetaeria biloba* (Ridl.) Seidenf. & J.J. Wood, **S20** 95; herb about 35 cm tall; montane forest; known only from Telom, Ph.
- 233.69.3 **Hetaeria elata** Hook.f., **FMP4** 222, **H44** 114, **S20** 91; herb 40–60 cm tall; montane forest at 1700–2000 m; Cameron Highlands, Ph; endemic.
- 233.69.4 **Hetaeria elegans** Ridl., **FMP4** 222, **H44** 115, **S20** 93; herb about 45 cm tall; montane forest; known only from Gg Tahan, Ph; endemic.
- 233.69.5 **Hetaeria nitida** Ridl., **FMP4** 222, **H44** 116, **S20** 95; herb 20–30 cm tall; lowland forest; Pn, Ph, Sp.
- 233.69.6 **Hetaeria obliqua** Blume, **FMP4** 221 in part, **H44** 115 in part, **S20** 93; herb 25–35 cm tall; lowland forest; Ph southward.
- 233.69.7 **Hetaeria oblongifolia** (Blume) Blume, **S20** 93; *Hetaeria obliqua* *auct. non* Blume, **FMP4** 221 in part, **H44** 115 in part; herb to 40 cm tall; hill forest; Kd, Pn, Pk.
- 233.69.8 **Hetaeria ophirensis** Ridl., **FMP4** 222, **H44** 114, **S20** 91; herb 45 cm tall; montane forest; known only from type, Gg Tundok, Ml; endemic.
- 233.69.9 **Hetaeria pauciflora** Ridl., **FMP4** 222, **H44** 117, **S20** 95; herb about 15 cm tall; montane forest; known only from type; Telom, Ph; endemic.
- 233.70.1 **Hippeophyllum scortechinii** (Hook.f.) Schltr., **FMP4** 18, **H44** 225, **S20** 258; creeping epiphyte about 20 cm tall; lowland forest, often on riverside trees; Pk, Ph.
- 233.71.1 **Hylophila cheangii** Holtum, **H44** 120, **S20** 57; *Hylophila lanceolata* [*non* (Blume) Miq.] Ridl., **FMP4** 223; creeping herb to 25 cm tall; hill forest; Pk, Ph.
- 233.71.2 **Hylophila mollis** Lindl., **FMP4** 223, **H44** 119, **S20** 57; creeping herb to 60 cm tall; lowland and hill forests; widespread.
- 233.72.1 **Kingidium deliciosum** (Rchb.f.) H.R. Sweet, **S20** 657; *Kingiella decumbens* (Griff.) Rolfe, **FMP4** 158; *Phalaenopsis decumbens* (Griff.) Holtum, **H44** 669; 2–3-leaved epiphyte; widespread but not common.

- 233.73.1 **Kuhlhasseltia carrii** Holttum, **H44** 131, **S20** 81; herb about 18 cm tall; montane forest; known only from type; Fraser's Hill, Ph; endemic.
- 233.74.1 **Lecanorchis malaccensis** Ridl., **FMP4** 206 in part, **H44** 101, **S20** 134; leafless saprophyte to 35 cm tall; lowland forest; Ph, Jh, Sp.
- 233.74.2 **Lecanorchis multiflora** J.J.Sm., **H44** 101, **S20** 134; *Lecanorchis malaccensis* (*non* Ridl.) Ridl., **FMP4** 206 in part; leafless saprophyte to 60 cm tall; lowland forests; widespread.
- 233.74.3 **Lecanorchis** sp., **S20** 134; one collection from the Cameron Highlands, Ph.
- 233.75.1 **Lepidogyne longifolia** (Blume) Blume, **FMP4** 224, **H44** 138, **S20** 68; creeping herb to 1 m tall; lowland forests including peat swamp; Ph, Jh.
- 233.76.1 **Liparis atosanguinea** Ridl., **FMP4** 19, **H44** 202, **S20** 231; plant to about 50 cm tall; hill forest; Pk, ?Sl.
- 233.76.2 **Liparis bicolor** J.J.Sm., **H44** 208, **S20** 239; plant about 40 cm tall; presence still doubtful; ?Kl, ?Pk.
- 233.76.3 **Liparis bootanensis** Griff., **FMP5** 337, **H44** 205, **S20** 233; clumped epiphyte about 5 cm tall; only recorded from Gg Raya, P. Langkawi.
- 233.76.4 **Liparis cespitosa** (Lam.) Lindl., **H44** 205, **S20** 235; *Liparis cosmosa* Ridl., **FMP4** 23; clumped plant about 10 cm tall; on rocks and trees in the hills at 300–1500 m; widespread.
- 233.76.5 **Liparis compressa** (Blume) Lindl., **FMP4** 24, **H44** 209, **S20** 239; creeping plant; montane forest epiphyte (1300–1700 m) or lowlands epilith; widespread.
- 233.76.6 **Liparis elegans** Lindl., **FMP4** 23, **H44** 208, **S20** 236; creeping epiphyte or epilith; lowland and hills to 1000 m; widespread.
- 233.76.7 **Liparis ferruginea** Lindl., **FMP4** 20, **H44** 203, **S20** 233; herb to 50 cm tall; open damp grassy places; widespread in the lowlands.
- 233.76.8 **Liparis furcata** (Hook.f.) Ridl., **FMP4** 22, **H44** 202, **S20** 229; herb about 20 cm tall; montane forest; known only from Taiping Hills, Pk; endemic.
- 233.76.9 **Liparis gibbosa** Finet, **H44** 209, **S20** 240; *Liparis disticha* [*non* (Thouars) Lindl.] Ridl., **FMP4** 24; creeping epiphyte to about 20 cm tall; lowland to montane forest at 1500 m, including mangroves; widespread.
- 233.76.10 **Liparis hirundo** Holttum, **H44** 204, **S20** 233; pendulous epiphyte with swallow-like flowers; montane forest; known only from the Cameron Highlands, Ph; endemic.

- 233.76.11 **Liparis lacerata** Ridl., **FMP4** 22, **H44** 207, **S20** 237; lowland and hill forest; Pk, Ph, Jh.
- 233.76.12 **Liparis latifolia** (Blume) Lindl., **FMP4** 22, **H44** 207, **S20** 235; clumped epiphyte about 40 cm tall; montane forest; Taiping Hills. Pk.
- 233.76.13 **Liparis maingayi** (Hook.f.) Ridl., **FMP4** 21, **H44** 201, **S20** 229; one-leaved plant about 10 cm tall; on wet rocks in hill forest at 670–1300 m; Kd, Pn, Pk, Jh.
- 233.76.14 **Liparis parviflora** (Blume) Lindl., **FMP4** 23, **H44** 208, **S20** 239; epiphyte about 10 cm tall; on lowland and montane trees to 1300 m; widespread.
- 233.76.15 **Liparis parvula** (Hook.f.) Ridl., **FMP4** 22, **H44** 202, **S20** 229; one-leaved epiphyte to 10 cm tall; wet rocks in montane forest at 1300 m; Taiping Hills, Pk; endemic.
- 233.76.16 **Liparis purpureoviridis** Burkill *ex* Ridl., **FMP4** 21, **H44** 201, **S20** 229; herb to 30 cm tall; montane forest; Fraser's Hill and Gg Tahan, Ph.
- 233.76.17 **Liparis rheedei** (Blume) Lindl., **H44** 203, **S20** 232; *Liparis transtillata* Ridl., **FMP4** 21; about 50 cm tall; montane forest about 1300 m; widespread.
- 233.76.18 **Liparis rhombea** J.J.Sm., **H44** 207, **S20** 236; epiphyte about 15 cm tall; lowland forest; once from Tembeling, Ph.
- 233.76.19 **Liparis tricallosa** Rchb.f., **FMP4** 20, **H44** 202, **S20** 231; to about 50 cm tall; lowlands to 670 m; widespread.
- 233.76.20 **Liparis viridicallus** Holttum, **H44** 208, **S20** 236; creeping plant; montane forest; Fraser's Hill and Gg Ulu Kali, Ph; endemic.
- 233.76.21 **Liparis viridiflora** (Blume) Lindl., **H44** 205, **S20** 235; *Liparis longipes* Lindl., **FMP4** 23; epiphyte; lowlands and mountains; Pn, Pk, Ph.
- 233.76.22 **Liparis wrayi** Hook.f., **FMP4** 21, **H44** 203, **S20** 231; plant about 25 cm tall; lowland freshwater swamp forest; Pk, P. Tioman, Jh, Sp.
- 233.77.1 **Ludisia discolor** (Ker Gawl.) A. Rich., **S20** 63; *Haemaria discolor* (Ker Gawl.) Lindl., **FMP4** 216, **H44** 124; purple-leaved creeping herb to 20 cm tall; on rocks in the lowlands and hills; Kd, Pn, Pk, Ph, Jh.
- 233.78.1 **Luisia antennifera** Blume, **FMP4** 153, **H44** 696, **S20** 687; epiphyte to 60 cm tall; on riverside trees; Pk, Ph, Sl, NS.
- 233.78.2 **Luisia curtisii** Seidenf., **S20** 687; *Luisia tristis sensu* Hook.f., **FMP4** 153; *Luisia jonesii* (non J.J.Sm.) Holttum, **H44** 695; epiphyte; lowland forest; Pn, Pk, NS.
- 233.78.3 **Luisia jonesii** J.J.Sm., **S20** 687; epiphyte; Kd; endemic.

- 233.78.4 **Luisia zollingeri** Rchb.f., **H44** 697, **S20** 689; *Luisia brachystachys* [non (Lindl.) Blume] Ridl., **FMP4** 153; epiphyte; Ps, P. Langkawi.
- 233.79.1 **Macodes petola** (Blume) Lindl., **FMP4** 215, **H44** 117, **S20** 98; herb about 30 cm tall; damp lowland and hill forest; Pn southward.
- 233.80.1 **Macropodanthus alatus** (Holtum) Seidenf. & Garay, **S20** 683; *Sarcochilus alatus* Holtum, **H44** 684; epiphyte; montane forest; once on Fraser's Hill, Ph, at 1350 m.
- 233.80.2 **Macropodanthus tridentatus** Seidenf., **S20** 683; *Sarcochilus berkeleyi* [non (Rchb.f.) Rchb.f.] Holtum, **H44** 684; epiphyte; known only from type, Gg Pantl, Jh; endemic.
- 233.81.1 **Malaxis acutangula** (Hook.f.) Kuntze, **H44** 198, **S20** 225; *Microstylis acutangula* Hook.f., **FMP4** 11; plant about 20 cm tall; on rocks and trees in hill forest: Kl, Pk.
- 233.81.2 **Malaxis calophylla** (Rchb.f.) Kuntze, **H44** 197, **S20** 223; *Microstylis calophylla* Rchb.f., **FMP4** 11; bronze-leaved herb to 25 cm tall; hill forest, often on limestone: Kd, Kl, Pn, Jh.
- 233.81.3 **Malaxis carrii** Seidenf. & J.J. Wood, **S20** 221; herb; known only from type, Gg Senyum, Ph; endemic.
- 233.81.4 **Malaxis chamaeorchis** (Schltr.) Seidenf., **S20** 220; herb about 10 cm tall; montane forest; once from Gg Pantl, Jh.
- 233.81.5 **Malaxis langkawiensis** Seidenf. & J.J. Wood, **S20** 221; *Microstylis macrochila* Rolfe var. *minor* Ridl., **FMP4** 11; *Malax macrochila* (Rolfe) Holtum var. *minor* (Ridl.) Holtum, **H44** 195; herb about 10 cm tall; known only from type; Kuala Kuah, P. Langkawi; endemic.
- 233.81.6 **Malaxis latifolia** Sm., **H44** 195, **S20** 219; *Microstylis congesta* Rchb.f., **FMP4** 12; herb to 40 cm tall; lowland forests; widespread.
- 233.81.7 **Malaxis macrochila** (Rolfe) Holtum, **S20** 226; herb; locality uncertain.
- 233.81.8 **Malaxis micrantha** (Hook.f.) Kuntze, **H44** 197, **S20** 225; *Microstylis flavoviridis* Ridl., **FMP4** 12; *Microstylis micrantha* Hook.f., **FMP4** 12; creeping herb; lowland and hill forest, sometimes on rocks; widespread.
- 233.81.9 **Malaxis nemoralis** (Ridl.) Holtum, **H44** 198, **S20** 226; *Microstylis nemoralis* Ridl., **FMP4** 13; creeping herb to 20 cm tall; lowland swamp forest; Pk, Sl, Ml, Jh; endemic.
- 233.81.10 **Malaxis perakensis** (Ridl.) Holtum, **H44** 198, **S20** 223; *Microstylis perakensis* Ridl., **FMP4** 11; creeping herb; lowland forest; Pk, Ph, NS.

- 233.81.11 **Malaxis prasina** (Ridl.) Seidenf. & Smitinand, **S20** 221; *Malaxis reniloba* (Carr) Holttum, **H44** 195; herb to 20 cm tall; limestone hills; Ps.
- 233.81.12 **Malaxis stenophylla** Holttum, **H44** 195, **S20** 223; plant about 10 cm tall; known only from type; Gg Padang, Tg, at 1300 m; endemic.
- 233.82.1 **Malleola dentifera** J.J.Sm., **H44** 712, **S20** 703; epiphyte to 25 cm long; lowland forest; Kl, Ph.
- 233.82.2 **Malleola insectifera** (J.J.Sm.) J.J.Sm. & Schltr., **H44** 712, **S20** 703; epiphyte to 20 cm long; lowland forest; Kl, ?Ph.
- 233.82.3 **Malleola macranthera** (Ridl.) Holttum, **H44** 709, **S20** 699; *Malleola altocarinata* Holttum, **H44** 709; short-stemmed epiphyte; hill forest; Sl.
- 233.82.4 **Malleola penangiana** (Hook.f.) J.J.Sm. & Schltr., **H44** 710, **S20** 701; *Saccolabium penangianum* Hook.f., **FMP4** 172; pendulous epiphyte to 20 cm long; lowland forest; Kl, Pk, Ph.
- 233.82.5 **Malleola sylvestris** (Ridl.) Garay, **S20** 703; *Saccolabium sylvestre* Ridl., **FMP4** 168; *Saccolabium undulatum* (non Lindl.) Ridl., **FMP4** 173; *Malleola undulata* (Ridl.) J.J.Sm. & Schltr., **H44** 711; epiphyte; lowland forest, including that on limestone; Kl, Pk.
- 233.82.6 **Malleola witteana** (Rechb.f.) J.J.Sm. & Schltr., **H44** 710, **S20** 701; pendulous epiphyte to 30 cm long; montane forest; once at the Cameron Highlands, Ph.
- 233.83.1 **Mastigion putidum** (Teijsm. & Binn.) Garay & al., **G06** 637, **S19** 50; *Bulbophyllum fascinator* Rolfe, **FMP4** 74, **H44** 407; *Bulbophyllum putidum* (Teijsm. & Binn.) J.J.Sm., **S20** 439; epiphyte; ?Kd, Malayan occurrence in some doubt.
- 233.84.1 **Micropera fuscolutea** (Lindl.) Garay, **S20** 615; *Saccolabium adnatum* (Ridl.) Ridl., **FMP4** 174; *Camarotis adnata* (Ridl.) Holttum, **H44** 631; climbing to 40 cm long; lowland forest; Tg, Ph, Jh, Sp.
- 233.84.2 **Micropera pallida** (Roxb.) Lindl., **S20** 617; *Saccolabium saxicola* Ridl., **FMP4** 172; *Camarotis apiculata* Rechb.f., **H44** 633; slender-stemmed plant on rocks and trees; widespread, commoner in the north.
- 233.84.3 **Micropera proboscidea** (J.J.Sm.) Garay, **S20** 615; *Camarotis proboscidea* (J.J.Sm.) J.J.Sm., **H44** 631; long climbing plant; lowland forest; Sl.
- 233.85.1 **Microsaccus ampullaceus** J.J.Sm., **H44** 594, **S20** 582; epiphyte to 15 cm long; widespread.
- 233.85.2 **Microsaccus javensis** Blume, **FMP4** 175, **H44** 595, **S20** 582; epiphyte to 15 cm long; on lowland trees including mangroves; Ph southward.

- 233.85.3 **Microsaccus griffithii** (C.S.P. Parish & Rchb.f.) Seidenf., **S20** 581; *Microsaccus brevifolius* J.J.Sm., **H44** 594; epiphyte to 10 cm long; on mangrove and riverside trees, also on limestone; Kl, Ph, Sl, Jh, Sp.
- 233.85.4 **Microsaccus sumatranus** J.J.Sm., **H44** 594, **S20** 581; epiphyte to 12 cm long; montane forest; Pk, Ph.
- 233.85.5 **Microsaccus truncatus** Carr, **H44** 594, **S20** 582; epiphyte about 12 cm long; montane forest; Fraser's Hill and Gg Ulu Kali, Ph; endemic.
- 233.86.1 **Mischobulbum crassum** H. Turner, **S20** 152; herb about 20 cm tall; hill forest; 450 m; known only from type; Ulu Gombak, Sl; endemic.
- 233.86.2 **Mischobulbum wrayanum** (Hook.f.) Rolfe, **FMP4** 115, **S20** 151; *Tainia wrayana* (Hook.f.) J.J.Sm., **H44** 183; herb to 20 cm tall; montane forest; Kd, Pn, Pk.
- 233.87.1 **Nephelaphyllum pulchrum** Blume, **FMP4** 115, **H44** 178, **S20** 150; *Nephelaphyllum latilabre* Ridl., **H44** 178; purplish creeping herb to 15 cm tall; lowland and hill forests; widespread.
- 233.87.2 **Nephelaphyllum tenuiflorum** Blume, **FMP4** 115, **H44** 178, **S20** 151; slender creeping herb; montane forest; uncommon.
- 233.88.1 **Nervilia aragoana** Gaudich., **H44** 106, **S20** 137; *Aplostellis flabelliformis* (Lindl.) Ridl., **FMP4** 203; tuberous herb to 30 cm tall; grassy places; Kd, Pk, Ph.
- 233.88.2 **Nervilia calcicola** Kerr, **S20** 135; *Aplostellis punctata* Ridl., **FMP4** 204 in part; *Nervilia punctata auct. non* (Blume) Makino, **H44** 106 in part; tuberous hexagonally-leaved herb to 15 cm tall; P. Langkawi.
- 233.88.3 **Nervilia plicata** (Andr.) Schltr., **S20** 137; *Aplostellis velutina* (C.S.P. Parish & Rchb.f.) Ridl., **FMP4** 204; *Nervilia discolor* (Blume) Schltr., **H44** 106; brownish herb to 10 cm tall; P. Langkawi, Pn.
- 233.88.4 **Nervilia punctata** (Blume) Makino, **H44** 106 in part, **S20** 135; *Aplostellis punctata* (Blume) Ridl., **FMP4** 204 in part; herb to 10 cm tall; lowland forest; Pn, Pk, Jh, Sp.
- 233.89.1 **Neuwiedia griffithii** Rchb.f., **FMP4** 296, **H44** 63, **S20** 34; creeping herb about 30 cm tall; damp lowland forest; Ph, Sl, NS, Ml, Jh, Sp.
- 233.89.2 **Neuwiedia veratrifolia** Blume, **H44** 64, **S20** 32; *Neuwiedia lindleyi* Rolfe, **FMP4** 295; herb to over 1 m tall; lowland forest; Pn southward.
- 233.89.3 **Neuwiedia zollingeri** Rchb.f. var. **singaporeana** (Baker) de Vogel, **S20** 34; *Neuwiedia curstisii* Rolfe, **FMP4** 297; *Neuwiedia ocrea* Ridl., **FMP4** 296; *Neuwiedia singaporeana* (Baker) Rolfe, **H44** 64; stout-rooted herb to 30 cm tall; lowland and hill forest to 600 m; widespread.

- 233.90.1 **Oberonia anthropophora** Lindl., **H44** 221, **S20** 254; *Oberonia aurantiaca* Ridl., **FMP4** 15; nodding epiphyte to 10 cm long; lowlands; Sl, Jh.
- 233.90.2 **Oberonia bertoldii** King & Pantl., **S20** 251, **H44** 225, **FMP4** 17; *Oberonia gracillima* Ridl., **FMP4** 14; tiny epiphyte; lowland forest; Pk, Ph, Sl, Jh, Sp; endemic.
- 233.90.3 **Oberonia boerlageana** J.J.Sm., **S20** 243; *Oberonia flava* Ridl., **FMP4** 17, **H44** 214; small epiphyte to 12 cm tall; lowland forest; Tenom, Ph.
- 233.90.4 **Oberonia brachystachys** Lindl., **S20** 257; *Oberonia demissa* Lindl., **H44** 224; tiny epiphyte hardly 5 cm tall; lowlands; ?Ml, Jh.
- 233.90.5 **Oberonia ciliolata** Hook.f., **FMP4** 16, **H44** 220, **S20** 247; epiphyte to 20 cm tall; lowlands, including mangroves and limestone, and mountains; widespread.
- 233.90.6 **Oberonia dissitiflora** Ridl., **H44** 218, **S20** 245; *Oberonia lunata* auct. non (Blume) Lindl., **FMP4** 14 in part; epiphyte to 30 cm long; lowlands; Ph southward.
- 233.90.7 **Oberonia falcata** King & Pantl., **S20** 250; *Oberonia caudata* King & Pantl., **FMP4** 18, **H44** 219; *Oberonia pendula* Ridl., **FMP4** 18, **H44** 219; slender pendulous epiphyte to 30 cm long; montane forest; Pk, Ph.
- 233.90.8 **Oberonia falconeri** Hook.f., **S20** 245; *Oberonia calcicola* Holttum, **H44** 217; epiphyte to 10 cm tall; once from P. Langkawi.
- 233.90.9 **Oberonia flabellifera** Holttum, **H44** 222, **S20** 253; epiphyte to 10 cm long; riverside trees; Mawai, Jh and ?Sp; endemic.
- 233.90.10 **Oberonia fungumolens** Burkill, **FMP5** 337, **H44** 221, **S20** 249; mushroomy-smelling pendulous epiphyte to 30 cm long; lowlands; once near Tanjong Malim, Pk.
- 233.90.11 **Oberonia gracilis** Hook.f., **FMP4** 17, **H44** 219, **S20** 247; epiphyte to 30 cm long; lowlands and mountains; Sg Kinta, Pk, and Cameron Highlands, Ph; endemic.
- 233.90.12 **Oberonia grandis** Ridl., **FMP4** 16, **H44** 218, **S20** 247; epiphyte about 30 cm long; hills and mountains; Main Range; endemic.
- 233.90.13 **Oberonia insectifera** Hook.f., **FMP4** 15, **H44** 221, **S20** 253; epiphyte barely 10 cm tall; lowland forest; Pk, Ph.
- 233.90.14 **Oberonia intermedia** King & Pantl., **FMP4** 17, **H44** 225, **S20** 251; epiphyte about 15 cm long; known only from type; Pk; endemic.

- 233.90.15 **Oberonia iridifolia** (Roxb.) Lindl., **FMP4** 14, **H44** 218, **S20** 243; epiphyte to 25 cm long; lowlands and mountains; P. Hujung Duri (Langkawi) and Cameron Highlands, Ph.
- 233.90.16 **Oberonia lunata** (Blume) Lindl., **FMP4** 14 in part, **H44** 223, **S20** 256; *Oberonia subnavicularis* King & Pantl., **FMP4** 14; *Oberonia porphyrochila* Ridl., **FMP4** 16; epiphyte to about 15 cm tall; lowlands and mountains; Pn, Pk, Ph, Jh, Sp.
- 233.90.17 **Oberonia lycopodioides** (K.D. Koenig) Ormerod, **S19** 21; *Oberonia anceps* Lindl., **FMP4** 15, **H44** 219, **S20** 247; epiphyte 10–30 cm long; lowlands; widespread, common.
- 233.90.18 **Oberonia marina** J.B. Comber, **S20** 254; *Oberonia rhizophoreti* (non Schltr.) J.J.Sm., **H44** 223; tiny epiphyte barely 5 cm tall; on riverside trees; only known from Mawai, Jh.
- 233.90.19 **Oberonia miniata** Lindl., **FMP4** 16, **H44** 220, **S20** 249; *Oberonia rolfeana* King & Pantl., **FMP4** 18; epiphyte to 50 cm long; lowlands; widespread.
- 233.90.20 **Oberonia prainiana** King & Pantl., **FMP4** 14, **H44** 222, **S20** 255; *Oberonia brunnescent* Ridl., **FMP4** 17; tiny epiphyte to 10 cm tall; lowlands; Pk, NS, Jh.
- 233.90.21 **Oberonia pumilio** Rech.f., **H44** 224, **S20** 257; tufted epiphyte to 10 cm tall; lowlands and mountains; Pn, Pk, Ph, Jh.
- 233.90.22 **Oberonia rosea** Hook.f., **FMP4** 15, **H44** 224, **S20** 251; epiphyte about 6 cm long; montane forest; once each from Gg Batu Puteh and Taiping Hills, Pk.
- 233.90.23 **Oberonia rufilabris** Lindl., **S20** 253; *Oberonia tiomanensis* M.R. Hend., **H44** 222; epiphyte about 10 cm long; hill forest; Kd, P. Tioman.
- 233.90.24 **Oberonia semifimbriata** J.J.Sm., **H44** 223, **S20** 254; epiphyte about 10 cm tall; lowland forest; once at Tembeling, Ph.
- 233.90.25 **Oberonia sinuosa** Ridl., **FMP4** 15, **H44** 219, **S20** 248; epiphyte to 25 cm long; poorly known and somewhat doubtful species; Sl, NS.
- 233.90.26 **Oberonia spiralis** Lindl., **S19** 21; *Oberonia spatulata* Lindl., *nom. illeg.*, **FMP4** 17, **H44** 220; *Oberonia padangensis* Schltr., **S20** 249; epiphyte to 35 cm long; montane forest; ?Kl, Ph.
- 233.90.27 **Oberonia stenophylla** Ridl., **FMP4** 15, **H44** 222, **S20** 254; epiphyte about 10 cm tall; lowland forest; Tg, Pk, Ph, Jh, Sp.
- 233.90.28 **Oberonia suborbicularis** Carr, **H44** 225, **S20** 257; tiny epiphyte about 5 cm tall; lowland and montane forest; Tembeling and Cameron Highlands, Ph; endemic.

- 233.90.29 **Oberonia transversiloba** Holttum, **H44** 214, **S20** 245; epiphyte to 20 cm tall; forest on limestone; once at Gua Berong, Kl, and once at Gua Tipus, Ph; endemic.
- 233.91.1 **Octarrhena condensata** (Ridl.) Holttum, **H44** 548, **S20** 337; *Oberonia condensata* Ridl., **FMP4** 18; flat-stemmed epiphyte to 20 cm long; montane forest; Ph, Sl.
- 233.91.2 **Octarrhena parvula** Thwaites, **H44** 548, **S20** 337; *Phreatia nana* Hook.f., **FMP4** 106; epiphyte to 10 cm tall; montane forest; several localities.
- 233.92.1 **Oeceoclades pulchra** (Thouars) P.J. Cribb & M.A. Clem., **W32** 114; *Eulophia macrostachya* Lindl., **FMP5** 338, **H44** 537; *Eulophia pulchra* (Thouars) Lindl., **S20** 541; herb to 75 cm tall; lowland forest; Pk, Sl.
- 233.93.1 **Orchipedum plantaginifolium** Breda. **S20** 79; *Queteletia plantaginifolia* (Breda) Blume, **H44** 130; herb to 50 cm tall; montane forest; once each from Gg Lang, Kd, and Gg Korbu, Pk.
- 233.94.1 **Ornithochilus difformis** (Wall. ex Lindl.) Schltr., **S20** 588; epiphyte about 10 cm tall; montane forest; once at 1800 m on Gg Ulu Kali, Ph.
- 233.95.1 **Pachystoma pubescens** Blume, **S20** 159; *Pachystoma senile* (Lindl.) Rchb.f., **FMP4** 116 'sessile', **H44** 147; herb to 60 cm tall; open grassy places; north of Peninsula.
- 233.96.1 **Paphiopedilum barbatum** (Lindl.) Pfitzer, **FMP4** 231, **H44** 77, **S20** 40; herb; open grassy or rocky places on mountains; widespread.
- 233.96.2 **Paphiopedilum bullenianum** (Rchb.f.) Pfitzer, **H44** 77, **S20** 40; *Paphiopedilum robinsonii* (Ridl.) Ridl., **FMP4** 232; herb to 60 cm tall; mossy places in montane forest; Gg Tahan, Ph, P. Tioman and Gg Pantl, Jh.
- 233.96.3 **Paphiopedilum callosum** (Rchb.f.) Stein var. *sublaeve* (Rchb.f.) P.J. Cribb, **H44** 78, **S20** 42; herb; montane forest; known only from Gg Jerai, Kd.
- 233.96.4 **Paphiopedilum lowii** (Lindl.) Stein, **FMP4** 232, **H44** 73, **S20** 39; epiphyte, occasionally on rocks; lower montane forest at 1000–1300 m; Main Range.
- 233.96.5 **Paphiopedilum niveum** (Rchb.f.) Stein, **FMP4** 231, **H44** 69, **S20** 39; herb; on limestone rocks; P. Langkawi, Ps, Kd, Kl.
- 233.97.1 **Papilionanthe hookeriana** (Rchb.f.) Schltr., **S20** 663; *Vanda hookeriana* Rchb.f., **FMP4** 158, **H44** 716; long-climbing epiphyte; open swampy places; Tg, Pk, Jh.
- 233.98.1 **Pecteilis susannae** (L.) Raf., **S20** 108; *Habenaria susannae* (L.) R.Br., **FMP4** 228, **H44** 82; tuberous herb to 120 cm tall; open grassy places; Kd.

- 233.99.1 **Pelatantheria cristata** (Ridl.) Ridl., **FMP4** 177, **H44** 649, **S20** 614; climbing epiphyte to 30 cm long; lowland trees; Kd, Kl, Pk, Ph, NS.
- 233.100.1 **Pennilabium acuminatum** (Ridl.) Holttum, **H44** 706, **S20** 704; *Sarcochilus acuminatus* Ridl., **FMP4** 178; epiphyte to 10 cm tall; montane forest; Cameron Highlands, Ph; endemic.
- 233.100.2 **Pennilabium angraecum** (Ridl.) J.J.Sm., **H44** 706, **S20** 706; *Saccolabium angraecum* Ridl., **FMP4** 173; small epiphyte a few cm tall; Kl, Ph, Sl; endemic.
- 233.100.3 **Pennilabium struthio** Carr, **H44** 706, **S20** 706; small epiphyte; lowlands and mountains; Kl, Ph.
- 233.101.1 **Peristylus candidus** J.J.Sm., **S20** 107; *Habenaria lacertifera* auct. non (Lindl.) Benth., **FMP4** 230 in part; *Habenaria sumatrana* (Schltr.) Schltr., **H44** 88; herb to 50 cm tall; open grassy places; widespread, commoner in the south.
- 233.101.2 **Peristylus goodyeroides** (D. Don) Lindl., **S20** 103; *Habenaria glaucescens* Ridl., **FMP4** 229; *Habenaria goodyeroides* D. Don, **H44** 87; herb to 60 cm tall; P. Langkawi.
- 233.101.3 **Peristylus gracilis** Blume, **S20** 103; *Habenaria inconspicua* Ridl., **FMP4** 229; *Habenaria bambusetorum* Kraenzl., **H44** 85; herb to 50 cm tall; damp montane forest; once at Telom, Ph.
- 233.101.4 **Peristylus grandis** Blume, **S20** 103; *Habenaria gigas* Hook.f., **FMP4** 229, **H44** 87; herb to 150 cm tall; montane forest; Pk, Ph, Sl.
- 233.101.5 **Peristylus holttumii** Seidenf., **S20** 107; *Habenaria lacertifera* auct. non (Lindl.) Benth., **FMP4** 230 in part; *Habenaria sumatrana* (Schltr.) Schltr. var. *major* Holttum, **H44** 89; herb to 50 cm tall; open places in the lowlands; Kd.
- 233.101.6 **Peristylus lacertiferus** (Lindl.) J.J.Sm., **S20** 107; *Habenaria lacertifera* (Lindl.) Benth., **FMP4** 230 in part, **H44** 88; herb 20–40 cm tall; open places; widespread.
- 233.101.7 **Peristylus monticola** (Ridl.) Seidenf., **S20** 103; *Habenaria monticola* Ridl., **FMP4** 230, **H44** 87; herb to 60 cm tall; open places at 700–1200 m; Gg Jerai, Kd, and Gg Ledang, Jh.
- 233.102.1 **Phaius callosus** (Blume) Lindl., **FMP4** 124, **H44** 174, **S20** 177; herb to 1 m tall; montane forest at 1200–1500 m; several localities.
- 233.102.2 **Phaius flavus** (Blume) Lindl., **H44** 174, **S20** 177; herb to 90 cm tall; montane forest; Cameron Highlands and Gg Ulu Kali, Ph.

- 233.102.3 **Phaius pauciflorus** (Blume) Blume var. **pallidus** (Ridl.) Holttum, **H44** 175, **S20** 177; *Limatodes pallidus* (Ridl.) Ridl., **FMP4** 124; herb to 1 m tall; montane forest at 600–1200 m; Taiping Hills and Main Range; endemic variety.
- 233.102.4 **Phaius tankervilleae** (Banks ex l'Her.) Blume, **H44** 172, **S20** 176; *Phaius wallichii* Lindl., **FMP4** 123; herb to 1.4 m tall; lowland and hill forest to 1200 m; widespread but uncommon.
- 233.103.1 **Phalaenopsis appendiculata** Carr, **H44** 668, **S20** 671; small epiphyte; lowlands; only known from Tembeling, Ph; endemic.
- 233.103.2 **Phalaenopsis cochlearis** Holttum, **S20** 669; epiphyte; once from Kuala Kelawi, NS.
- 233.103.3 **Phalaenopsis cornucervi** (Breda) Blume & Rchb.f., **FMP4** 156, **H44** 667, **S20** 668; epiphyte to 25 cm tall; lowlands and mountains; Kd, Pk, Ph, Sl, NS.
- 233.103.4 **Phalaenopsis fuscata** Rchb.f.; ?**FMP4** 157, **H44** 669 in part, **S20** 668; epiphyte; Kota Gelanggi and Tembeling, Ph.
- 233.103.5 **Phalaenopsis kunstleri** Hook.f., **S20** 669; *Phalaenopsis fuscata* auct. non Rchb.f., **FMP4** 157, **H44** 669 in part; epiphyte; Pk, Jh.
- 233.103.6 **Phalaenopsis maculata** Rchb.f., **S20** 671; *Phalaenopsis muscicola* Ridl., **FMP4** 156; *Phalaenopsis sumatrana* auct. non (Korth.) Rchb.f., **H44** 670 in part; epiphyte; on wet mossy trees; Sg Tahan, Ph.
- 233.103.7 **Phalaenopsis sumatrana** Korth. & Rchb.f., **FMP4** 156, **H44** 670 in part, **S20** 671; epiphyte; lowlands and hills; Pk, Sl, Ml, Jh.
- 233.103.8a **Phalaenopsis violacea** Witte var. **murtoniana** Rchb.f., **FMP4** 156, **S20** 668; short-stemmed epiphyte; Pk; endemic variety.
- 233.103.8b **Phalaenopsis violacea** Witte var. **violacea**, **FMP4** 156, **H44** 667, **S20** 668; short-stemmed epiphyte; on lowland riverside trees; Pk, Sl, Ml.
- 233.104.1 **Pholidota articulata** Lindl., **H44** 236, **S20** 192; *Pholidota decurva* Ridl., **FMP4** 139; pendulous epiphyte about 50 cm long; hill forest; Pk, Sl.
- 233.104.2a **Pholidota carnea** (Blume) Lindl. var. **carnea**, **H44** 238, **S20** 197; *Crinonia carnea* Blume, **FMP4** 137; *Crinonia elizabethiana* (Ridl.) Ridl., **FMP4** 137; *Pholidota globosa* [non (Blume) Lindl.] Ridl., **H44** 238; exposed mountain ridges; Pk, Ph.
- 233.104.2b **Pholidota carnea** (Blume) Lindl. var. **parviflora** (Hook.f.) de Vogel, **S20** 197; *Crinonia parviflora* (Hook.f.) Pfitzer, **FMP4** 137; *Pholidota parviflora* Hook.f., **H44** 238; common on high mountains; Ph, Sl; endemic variety.

- 233.104.2c **Pholidota carnea** (Blume) Lindl. var. **pumila** (Ridl.) de Vogel, **S20** 197; *Crinonia parviflora* var. *pumila* (Ridl.) Ridl., **FMP4** 137; high mountains; Kd, Pk, Ph; endemic variety.
- 233.104.3 **Pholidota gibbosa** (Blume) de Vriese, **H44** 237, **S20** 195; *Chelonanthera gibbosa* Blume, **FMP4** 139; long-creeping; montane forest; Ph, Sl.
- 233.104.4 **Pholidota imbricata** Hook., **FMP4** 139, **S20** 192; *Pholidota pallida* (non Lindl.) Holttum, **H44** 237; on trees or rocks; common on limestone; widespread.
- 233.104.5 **Pholidota longibulba** Holttum, **H44** 237, **S20** 195; creeping epiphyte about 30 cm tall; Cameron Highlands, Ph, and Liam, Sl; endemic.
- 233.104.6 **Pholidota ventricosa** (Blume) Rechb.f., **H44** 238, **S20** 195; *Pholidota grandis* Ridl., **FMP4** 140; epiphyte to 50 cm tall; hill forest; Pk, Sl.
- 233.105.1 **Phreatia crassifolia** Ridl., **FMP4** 106, **H44** 554, **S20** 346; tiny epiphyte a few cm tall; montane forest; Ph; endemic.
- 233.105.2 **Phreatia densiflora** (Blume) Lindl., **FMP4** 105, **H44** 553, **S20** 344; epiphyte; montane forest; Pk, Ph.
- 233.105.3 **Phreatia laxiflora** (Blume) Lindl., **H44** 553, **S20** 344; epiphyte about 20 cm tall; montane forest; Ph, Sl.
- 233.105.4 **Phreatia linearis** Ridl., **FMP4** 106, **H44** 553, **S20** 344; epiphyte to 30 cm tall; Gg Tahan, Ph, and Ulu Langat, Sl; endemic.
- 233.105.5 **Phreatia listrophora** Ridl., **FMP4** 106, **H44** 552, **S20** 344; creeping epiphyte to 20 cm tall; montane forest; Pk, Ph, ?Sl.
- 233.105.6 **Phreatia plantaginifolia** (K.D. Koenig) Ormerod, **S19** 22; *Phreatia minutiflora* Lindl., **FMP4** 105; *Phreatia microtidis* Lindl., **FMP4** 106; *Phreatia secunda* (Blume) Lindl., **H44** 553, **S20** 346; small epiphyte to 10 cm long; lowland swamps and forest on limestone; widespread.
- 233.105.7 **Phreatia pusilla** (Blume) Lindl., **H44** 553, **S20** 344; epiphyte to 15 cm tall; montane forest; Ph.
- 233.105.8 **Phreatia sulcata** (Blume) J.J.Sm., **H44** 552, **S20** 342; epiphyte about 20 cm long; hill forest at 600–1200 m; widespread.
- 233.106.1 **Pilophyllum villosum** (Blume) Schltr., **W32** 123; *Chrysoglossum villosum* Blume, **FMP4** 111, **H44** 178, **S20** 531; large-leaved creeping herb to 70 cm tall; montane forest; Pk, Ph, Sl.
- 233.107.1 **Platanthera angustata** (Blume) Lindl., **S20** 99; *Habenaria zosterostyloides* Hook.f., **FMP4** 226; *Habenaria angustata* (Blume) Kuntze, **H44** 82; herb to 120 cm tall; montane forest at 1700–2300 m; many localities.

- 233.108.1 **Plocoglottis gigantea** (Hook.) J.J.Sm., **H44** 160, **S20** 183; *Plocoglottis foetida* Ridl., **FMP4** 144; herb to 100 cm tall; damp lowland forest; widespread.
- 233.108.2 **Plocoglottis javanica** Blume, **FMP4** 143, **H44** 159, **S20** 181; *Plocoglottis acuminata* auct. non Blume, **FMP4** 143, **H44** 160; herb to 100 cm tall; wet places in lowland and montane forest; widespread.
- 233.108.3 **Plocoglottis lowii** Rechb.f., **H44** 160, **S20** 181; *Plocoglottis porphyrophylla* Ridl., **FMP4** 144; herb to 100 cm or more tall; damp lowland forest, commoner near the sea; Ph southward.
- 233.108.4 **Plocoglottis quadrifolia** J.J.Sm., **S20** 181; herb 60–90 cm tall; one collection from Pn.
- 233.109.1 **Poaephyllum pauciflorum** (Hook.f.) Ridl., **FMP4** 108, **H44** 511, **S20** 335; narrow-leaved epiphyte to 50 cm long; lowland forest; Pk, Ph, Jh.
- 233.110.1 **Podochilus lucescens** Blume, **FMP4** 193, **H44** 502, **S20** 335; slender tufted epiphyte to 20 cm long; Ps, P. Langkawi, Jh.
- 233.110.2 **Podochilus microphyllus** Lindl., **FMP4** 193, **H44** 500, **S20** 333; slender tufted epiphyte to 20 cm long; lowland and hill forest to 1000 m; widespread and common.
- 233.110.3 **Podochilus muricatus** (Teijsm. & Binn.) Schltr., **H44** 501, **S20** 335; *Appendicula muricata* Teijsm. & Binn., **FMP4** 197; tufted plant to 15 cm long; on rocks and trees in the mountains to 1300 m; widespread.
- 233.110.4 **Podochilus tenuis** (Blume) Lindl., **FMP4** 193, **H44** 500, **S20** 333; tufted moss-like plant; on wet rocks and tree trunks in lowland and hill forest to 700 m; widespread and not uncommon.
- 233.111.1 **Polystachya concreta** (Jacq.) Garay & H.R. Sweet, **S20** 566; *Polystachya penangensis* Ridl., **FMP4** 152; *Polystachya siamensis* Ridl., **FMP4** 152; *Polystachya singaporensis* Ridl., **FMP4** 152; *Polystachya flavescens* (Blume) J.J.Sm., **H44** 546; epiphyte to 10 cm tall; lowlands and hills; widespread.
- 233.112.1 **Pomatocalpa andamanica** (Hook.f.) J.J.Sm., **S20** 611; *Saccolabium latifolium* (Lindl.) Schltr. var. *strictum* Ridl., **FMP4** 166; *Pomatocalpa naevatum* auct. non J.J.Sm., **H44** 630; elongate epiphyte; one poor specimen from Batu Caves, Sl.
- 233.112.2 **Pomatocalpa arachnanthe** (Ridl.) J.J.Sm., **H44** 629, **S20** 611; *Saccolabium arachnanthe* Ridl., **FMP4** 174; long-climbing epiphyte; lowlands; Kd, Pk, Ph; endemic.
- 233.112.3 **Pomatocalpa fusca** (Lindl.) J.J.Sm., **S20** 611; *Pomatocalpa elongata* Carr., **H44** 630; epiphyte to 120 cm long; on exposed lowland trees; Ph, Ml, Jh.

- 233.112.4 **Pomatocalpa kunstleri** (Hook.f.) J.J.Sm., **H44** 627, **S20** 608; *Saccolabium pubescens* Ridl., **FMP4** 174; epiphyte to 30 cm tall; lowlands; Kd, Kl, Pk, Ph.
- 233.112.5 **Pomatocalpa latifolia** (Lindl.) J.J.Sm., **H44** 628, **S20** 613; *Saccolabium latifolium* (Lindl.) Schltr., **FMP4** 166 incl. var. *parviflorum* Ridl.; *Saccolabium hortense* Ridl., **FMP4** 167; epiphyte, sometimes long-stemmed; lowlands; widespread.
- 233.112.6 **Pomatocalpa parva** (Ridl.) J.J.Sm., **H44** 627, **S20** 613; *Saccolabium parvum* (Ridl.) Ridl., **FMP4** 167; epiphyte; on limestone; known only from type, Kota Gelanggi, Ph; endemic.
- 233.112.7 **Pomatocalpa spicata** Breda, **H44** 628, **S20** 613; *Saccolabium hobsonii* Ridl., **FMP4** 167; *Saccolabium setulense* Ridl., **FMP4** 167; *Saccolabium uteriferum* (Hook.f.) Ridl., **FMP4** 168; *Pomatocalpa setulensis* (Ridl.) Holttum, **H44** 628; short-stemmed epiphyte to 40 cm across; lowland forest; Pk, Ph, NS.
- 233.113.1 **Porpax elwesii** (Rchb.f.) Rolfe, **S20** 308; *Porpax meirax* auct. non (Rchb.f.) King & Pantl., **FMP4** 104, **H44** 396; tiny plants barely 1 cm across; on lowland and montane rocks; P. Dayang Bunting (Langkawi), Gg Jerai, Kd, and Gg Tahan, Ph.
- 233.114.1 **Porphyroglottis maxwelliae** Ridl., **H44** 515, **S20** 534; large epiphyte to 120 cm long; restricted to SE Jh.
- 233.115.1 **Pristiglottis macrantha** (Hook.) J.J. Wood & Seidenf., **S20** 82; *Anoectochilus macranthus* (Hook.f.) Ridl., **FMP4** 214; *Cystopus macranthus* (Hook.f.) Holttum, **H44** 131; herb to 15 cm tall; hill forest; Taiping Hills. Pk, and Gg Belumut, Jh; endemic.
- 233.116.1 **Pteroceras biserratum** (Ridl.) Holttum, **H44** 687, **S20** 679; *Sarcochilus biserratus* Ridl., **FMP4** 180; epiphyte to 20 cm long; lowlands; Pk, Ph.
- 233.116.2 **Pteroceras cladostachyum** (Hook.f.) H.A. Peders., **S20** 676; *Sarcochilus cladostachys* Hook.f., **FMP4** 179; *Sarcochilus tanyphyllus* Ridl., **FMP4** 179, **H44** 686; *Sarcochilus unguiculatus* (non Lindl.) Ridl., **FMP4** 178 in part; plant about 50 cm long; on trees and rocks; Kl, Pk, Ph.
- 233.116.3 **Pteroceras compressum** (Blume) Holttum, **S20** 679; pendulous epiphyte; montane forest; once from the Cameron Highlands, Ph.
- 233.116.4 **Pteroceras hirsutum** (Hook.f.) Holttum, **S20** 679; *Ascochilus hirsutus* (Hook.f.) Ridl., **FMP4** 182; *Sarcochilus hirsutus* Hook.f., **H44** 691; epiphyte about 20 cm long; lowlands; Pk.
- 233.116.5 **Pteroceras johorensis** (Holttum) Holttum, **S20** 680; *Sarcochilus johorensis* Holttum, **H44** 689; small epiphyte about 5 cm long; only known from near Sg Sedili in Jh; endemic.

- 233.116.6 **Pteroceras pallidum** (Blume) Holttum, **S20** 675; *Sarcochilus caligaris* Ridl., **FMP4** 178, **H44** 685; small epiphyte to 10 cm tall; Pk, Ph, NS, Jh, Sp.
- 233.116.7 **Pteroceras unguiculatum** (Lindl.) H.A. Peders., **S20** 676; *Sarcochilus unguiculatus* Lindl., **FMP4** 178 in part; *Sarcochilus pallidus* auct. non (Blume) Rchb.f., **H44** 686; epiphyte about 30 cm tall; Pk, Ph.
- 233.116.8 **Pteroceras violaceum** (Ridl.) Holttum, **S20** 680; *Sarcochilus violaceus* Ridl., **FMP4** 180, **H44** 687; poorly known montane forest epiphyte; type only collection; Gg Tahan, Ph; endemic.
- 233.117.1 **Renanthera angustifolia** Hook.f., **W32** 335; *Renanthera matutina* (Blume) Lindl., *nom. inval.*, **FMP4** 160, **H44** 636, **S20** 593; long climbing epiphyte, often hanging; exposed montane forest above 1350 m; Main Range.
- 233.117.2 **Renanthera elongata** (Blume) Lindl., **FMP4** 160, **H44** 634, **S20** 593; long climbing epiphyte; lowlands often near the sea; widespread.
- 233.118.1 **Renantherella histrionica** (Rchb.f.) Ridl., **FMP4** 161, **S20** 596; *Renanthera lustrionica* Rchb.f., **H44** 634; epiphyte to 60 cm long, often hanging; on old mangroves or trees and rocks in the hills; quite widespread.
- 233.119.1 **Rhynchogyna luisifolia** (Ridl.) Seidenf. & Garay, **S20** 658; pendent epiphyte to 50 cm long; lowlands; ? P. Langkawi, Pk.
- 233.120.1 **Rhynchostylis gigantea** (Lindl.) Ridl., **FMP4** 163, **H44** 704, **S20** 661; large epiphyte to 50 cm tall; lowlands, but dubiously native; once from Seletar, Sp.
- 233.120.2 **Rhynchostylis retusa** (L.) Blume, **FMP4** 163, **H44** 703, **S20** 661; epiphyte to 40 cm long; lowlands; Ps, Kd, Kl, Tg.
- 233.121.1 **Rhytionanthos mirum** (J.J. Sm.) Garay & al., **S19** 52; *Bulbophyllum mirum* J.J.Sm., **S20** 451; epiphyte; once collected at Bertam, Kl.
- 233.122.1 **Robiquetia spatulata** (Blume) J.J.Sm., **H44** 714, **S20** 663; *Saccolabium densiflorum* Lindl., **FMP4** 170; pendulous epiphyte to 50 cm long; lowlands; widespread.
- 233.123.1 **Sarcoglyphis pensilis** (Ridl.) Seidenf., **S20** 617; *Saccolabium pensile* (Ridl.) Ridl., **FMP4** 170; *Sarcantlus pensilis* Ridl., **H44** 659; epiphyte to 30 cm long; lowlands; Kota Gelanggi, Ph, and Batu Pahat, Jh; endemic.
- 233.124.1 **Sarcostoma javanica** Blume, **H44** 499, **S20** 317; *Ceratostylis cryptantha* Ridl., **FMP4** 110; *Ceratostylis linearis* Ridl., **FMP4** 110; tufted epiphyte barely 5 cm tall; lowlands and mountains; quite widespread.
- 233.125.1 **Schoenorchis micrantha** Blume, **H44** 663, **S20** 597; *Saccolabium perpusillum* Hook.f., **FMP4** 171; tufted epiphyte about 15 cm tall; lowlands; Pk and Ph southward.

- 233.125.2 **Schoenorchis minutiflora** (Ridl.) J.J.Sm., **H44** 663, **S20** 597; *Saccolabium minutiflorum* Ridl., **FMP4** 171; epiphyte about 15 cm tall; montane forest; Main Range.
- 233.125.3 **Schoenorchis secundiflora** (Ridl.) J.J.Sm., **H44** 662, **S20** 597; *Saccolabium secundiflorum* Ridl., **FMP4** 173; small epiphyte to 10 cm tall; on old riverside and mangrove trees; Ph southward.
- 233.126.1 **Smitinandia micrantha** (Lindl.) Holttum, **S20** 592; *Saccolabium fissum* Ridl., **FMP4** 173; *Ascocentrum micranthum* (Lindl.) Holttum, **H44** 735; epiphyte to 20 cm long; P. Langkawi, Kd.
- 233.127.1 **Spathoglottis affinis** de Vriese, **FMP4** 118, **H44** 162, **S20** 161; herb to 50 cm tall; open rocky places 600–900 m; known only from Gg Jerai, Kd.
- 233.127.2 **Spathoglottis aurea** Lindl., **FMP4** 117, **H44** 165, **S20** 162; herb to 60 cm tall; grassy spots in the mountains at 900–1500 m; widespread.
- 233.127.3 **Spathoglottis gracilis** Rolfe *ex* Hook.f., **H44** 165, **S20** 161; herb; montane forest at 900 m; P. Tioman.
- 233.127.4 **Spathoglottis hardingiana** C.S.P. Parish & Rechb.f., **FMP4** 118 'hardingiana', **H44** 166, **S20** 163; herb about 25 cm tall; on limestone near the sea; P. Langkawi.
- 233.127.5 **Spathoglottis microchilina** Kraenzl., **H44** 165, **S20** 163; herb; mountains above 900 m; Taiping Hills and Main Range.
- 233.127.6 **Spathoglottis plicata** Blume, **FMP4** 117, **H44** 166, **S20** 161; herb to 2 m tall; grassy places to 700 m; common and widespread in the lowlands.
- 233.128.1 **Spiranthes sinensis** (Pers.) Ames, **S20** 47; *Spiranthes lancea* auct. non (Thunb.) Backer & al., **H44** 141; herb to 25 cm tall; montane forest; Ph.
- 233.129.1 **Staurochilus fasciatus** (Rechb.f.) Ridl., **FMP4** 157, **S20** 604; *Trichoglottis fasciata* Rechb.f., **H44** 644; climbing plant to 60 cm long; on rocks and trees; P. Langkawi, Kd.
- 233.129.2 **Staurochilus ramosus** (Lindl.) Seidenf., **S20** 607; epiphyte dubiously native; ?Pk.
- 233.130.1 **Stereosandra javanica** Blume, **FMP4** 224, **H44** 108, **S20** 143; tuberous saprophytic herb to 60 cm tall; lowland and montane forest; several localities.
- 233.131.1 **Taeniophyllum annuliferum** Carr, **H44** 593, **S20** 579; tiny leafless epiphyte with spreading green roots, barely 1 cm tall; once from Gua Musang, Kd; endemic.

- 233.131.2 **Taeniophyllum calceolus** Carr, **H44** 592, **S20** 579; tiny leafless epiphyte with flat green roots, barely 3 cm tall; Ps, P. Langkawi.
- 233.131.3 **Taeniophyllum campanulatum** Carr, **H44** 590, **S20** 575; tiny leafless epiphyte with flat green roots, barely 1 cm tall; montane forest; once from Fraser's Hill, Ph; endemic.
- 233.131.4 **Taeniophyllum filiforme** J.J.Sm., **H44** 593, **S20** 579; *Taeniophyllum macrorrhizum* Ridl., **FMP4** 176; small leafless epiphyte with spreading green roots; lowlands; widespread.
- 233.131.5 **Taeniophyllum glandulosum** Blume, **S20** 575; *Taeniophyllum tjibodasanum* J.J.Sm., **H44** 590; *Taeniophyllum viride* Carr, **H44** 590; tiny leafless epiphyte with flat green roots, to 5 cm tall; lowlands and mountains; Tg, Ph.
- 233.131.6 **Taeniophyllum gracillimum** Schltr., **S20** 577; *Taeniophyllum culiciferum* Ridl., **FMP4** 176, **H44** 592; tiny leafless epiphyte with flat green roots, about 3 cm tall; lowland forest; Kl, Ph.
- 233.131.7 **Taeniophyllum intermedium** Carr, **H44** 590, **S20** 575; tiny leafless epiphyte with flat green roots, about 3 cm tall; Tg, Ph; endemic.
- 233.131.8 **Taeniophyllum micranthum** Carr, **H44** 592, **S20** 577; tiny leafless epiphyte with spreading green roots, barely 1 cm tall; montane forest; Fraser's Hill and Cameron Highlands, Ph; endemic.
- 233.131.9 **Taeniophyllum montanum** Carr, **H44** 592, **S20** 577; tiny leafless epiphyte with flat green roots, about 2 cm tall; montane forest; Fraser's Hill and Cameron Highlands, Ph; endemic.
- 233.131.10 **Taeniophyllum obtusum** Blume, **H44** 592, **S20** 577; *Taeniophyllum serrula* Hook.f., **FMP4** 176; tiny leafless epiphyte with flat green roots, about 2 cm tall; exposed lowland trees; widespread.
- 233.131.11 **Taeniophyllum pahangense** Carr, **H44** 590, **S20** 572; leafless epiphyte with spreading green roots, about 3 cm tall; lowlands and mountains; Ph.
- 233.131.12 **Taeniophyllum pallidiflorum** Carr, **H44** 592, **S20** 579; tiny leafless epiphyte with spreading green roots, to 3 cm tall; only known from trees by the Sg Tahan, Ph; endemic.
- 233.131.13 **Taeniophyllum rostratum** Carr, **H44** 593, **S20** 579; tiny leafless epiphyte with spreading green roots, to 2 cm tall; lowland forest; known only from Tembeling, Ph; endemic.
- 233.131.14 **Taeniophyllum rubrum** Ridl., **FMP4** 177, **H44** 589, **S20** 572; tiny leafless epiphyte with spreading green roots, about 2 cm tall; Ph, NS.

- 233.131.15 **Taeniophyllum rugulosum** Carr, **H44** 591, **S20** 575; small leafless epiphyte with flat green roots, to nearly 5 cm tall; lowland forest; known only from near the Sg Sat, Ph; endemic.
- 233.131.16 **Taeniophyllum stella** Carr., **H44** 590, **S20** 575; small leafless epiphyte with flat green roots, about 1 cm tall; lowland forest; Ph.
- 233.132.1 **Tainia maingayi** Hook.f., **FMP4** 114, **H44** 182, **S20** 153; creeping herb to 125 cm tall; rocky places in the mountains; north of the Peninsula.
- 233.132.2 **Tainia paucifolia** (Breda) J.J.Sm., **S20** 156; *Tainia latilingua* Hook.f., **FMP4** 114, **H44** 183; herb to 60 cm tall; montane forest; Pk, Ph, Sl, Jh.
- 233.132.3 **Tainia speciosa** Blume, **FMP4** 114, **H44** 182, **S20** 153; herb to 50 cm; montane forest; widespread.
- 233.132.4 **Tainia vegetissima** Ridl., **FMP4** 114, **H44** 183, **S20** 156; herb about 20 cm tall; montane forest; only known from Gg Tahan.
- 233.133.1 **Thecopus maingayi** (Hook.f.) Seidenf., **S20** 560; *Thecostele maingayi* Hook.f., **FMP4** 192, **H44** 559; ?*Thecostele quinquefida* Hook.f., **FMP4** 192; epiphyte about 20 cm tall; lowland forest; ML.
- 233.133.2 **Thecopus secunda** (Ridl.) Seidenf., **S20** 560; *Thecostele secunda* Ridl., **FMP4** 192, **H44** 558; epiphyte about 20 cm tall; montane forest; Pk, Jh.
- 233.134.1 **Thecostele alata** (Roxb.) C.S.P. Parish & Rchb.f., **H44** 558, **S20** 562; *Thecostele maculosa* Ridl., **FMP4** 191; *Thecostele zollingeri* Rchb.f., **FMP4** 192; epiphyte about 20 cm tall; lowlands; widespread but uncommon.
- 233.135.1 **Thelasis carinata** Blume, **FMP4** 200, **H44** 550, **S20** 341; epiphyte to about 30 cm tall; lowlands; widespread and common.
- 233.135.2 **Thelasis macrobulbon** Ridl., **FMP4** 199, **H44** 550, **S20** 339; epiphyte about 30 cm tall; lowlands and montane forest; Pk, Ph.
- 233.135.3 **Thelasis micrantha** (Brongn.) J.J.Sm., **H44** 551, **S20** 341; *Thelasis decurva* Hook.f., **FMP4** 200; tufted epiphyte to about 30 cm tall; on riverside trees or in forests on limestone; widespread.
- 233.135.4 **Thelasis pygmaea** (Griff.) Blume, **S20** 341; *Thelasis elongata* Blume, **FMP4** 199; *Thelasis capitata* (non Blume) Ridl., **FMP4** 199; *Thelasis triptera* Rchb.f., **H44** 550; epiphyte to 25 cm tall; on old riverside and mangrove trees or on limestone; quite widespread.
- 233.135.5 **Thelasis succosa** Carr, **H44** 550, **S20** 339; to 20 cm tall; on limestone; Gua Musang, Kl, Kota Gelanggi and Bt Chintamani, Ph; endemic.

- 233.136.1 **Thrixspermum acuminatissimum** (Blume) Rchb.f., **H44** 600, **S20** 639; *Thrixspermum notabile* (Hook.f.) Ridl., **FMP4** 186; epiphyte about 10 cm tall; lowlands; Kl and Sl southward.
- 233.136.2 **Thrixspermum amplexicaule** (Blume) Rchb.f., **H44** 602, **S20** 645; *Thrixspermum lilacinum* (Griff.) Rchb.f., **FMP4** 184; long climbing epiphyte; open places in the lowlands; widespread.
- 233.136.3 **Thrixspermum brevibracteatum** J.J.Sm., **H44** 605, **S20** 647; epiphyte to 50 cm or more long; montane forest; Gg Korbu, Pk, and Cameron Highlands, Ph.
- 233.136.4 **Thrixspermum brevicapsularis** Holttum, **H44** 609, **S20** 651; epiphyte about 20 cm long; montane forest; Cameron Highlands and Gg Ulu Kali, Ph; endemic.
- 233.136.5 **Thrixspermum calceolus** (Lindl.) Rchb.f., **FMP4** 184, **H44** 604, **S20** 645; long creeping plant; on lowland rocks or trees; widespread.
- 233.136.6 **Thrixspermum carinatifolium** (Ridl.) Schltr., **H44** 608, **S20** 649; *Dendrocolla carinatifolia* (Ridl.) Ridl., **FMP4** 189; epiphyte about 20 cm long; on trees near the sea; southeast Jh and P. Aur.
- 233.136.7 **Thrixspermum carnosum** (Ridl.) Schltr., **H44** 611, **S20** 653; *Dendrocolla carnos* Ridl., **FMP4** 188; epiphyte about 5 cm tall; Pn, Pk; endemic.
- 233.136.8 **Thrixspermum centipeda** Lour., **S20** 643; *Thrixspermum arachnites* (Blume) Rchb.f., **FMP4** 185 in part, **H44** 601; epiphyte about 20 cm long; lowlands; widespread.
- 233.136.9 **Thrixspermum corneri** Holttum, **H44** 610, **S20** 653; epiphyte a few cm tall; on riverside trees; known only from type; Mawai, Jh; endemic.
- 233.136.10 **Thrixspermum crassifolium** Ridl., **FMP4** 186, **H44** 601, **S20** 643; epiphyte about 20 cm long; lowlands; Pk, Ph, Sl, Jh.
- 233.136.11 **Thrixspermum duplocallosum** Holttum, **H44** 608, **S20** 649; epiphyte about 5 cm tall; montane forest; only known from the Cameron Highlands, Ph; endemic.
- 233.136.12 **Thrixspermum iodochilus** Ridl., **FMP4** 186, **H44** 601, **S20** 643; epiphyte about 10 cm long; known only from type; Bt Tangga, NS; endemic.
- 233.136.13 **Thrixspermum leucarachne** Ridl., **FMP4** 186, **H44** 601, **S20** 641; epiphyte about 20 cm long; P. Langkawi.
- 233.136.14 **Thrixspermum merguense** (Hook.f.) Kuntze, **S20** 653; tiny epiphyte about 3 cm tall; montane forest; collected once in the Cameron Highlands, Ph.

- 233.136.15 **Thrixspermum montanum** Ridl., **FMP4** 185, **H44** 606, **S20** 647; epiphyte about 20 cm long; known only from type; Ulu Langat, Sl; endemic.
- 233.136.16 **Thrixspermum pardale** (Ridl.) Schltr., **H44** 607, **S20** 647; *Dendrocolla pardalis* (Ridl.) Ridl., **FMP4** 187; epiphyte about 25 cm long; lowland trees; Pk, Ph.
- 233.136.17 **Thrixspermum pauciflorum** (Hook.f.) Ridl., **FMP4** 184, **H44** 604, **S20** 645; long climbing epiphyte; hill forest; known only from type; Taiping Hills, Pk; endemic.
- 233.136.18 **Thrixspermum platycaule** Holttum, **H44** 604, **S20** 645; *Sarcochilus anceps* Ridl., **FMP4** 180; pendulous epiphyte to 50 cm long; lowlands and ?mountains; ?Ph, Jh; endemic.
- 233.136.19 **Thrixspermum psiloglottis** (Ridl.) Schltr., **H44** 608, **S20** 649; *Dendrocolla psiloglottis* Ridl., **FMP4** 189; epiphyte about 10 cm long; known only from type; Kuala Pahang, Ph; endemic.
- 233.136.20 **Thrixspermum pulchrum** Carr, **H44** 607, **S20** 647; small epiphyte to 5 cm tall; known only from type; Kerambit, Ph; endemic.
- 233.136.21 **Thrixspermum cf. raciborskii** J.J.Sm., **S20** 639; epiphyte; montane forest; once at Cameron Highlands, Ph.
- 233.136.22 **Thrixspermum recurvum** (Hook.f.) Kuntze, **H44** 607, **S20** 649; *Dendrocolla pardalis* (non Ridl.) Ridl., **FMP4** 187 in part; epiphyte about 15 cm tall; on riverside trees; Pk, Ph.
- 233.136.23 **Thrixspermum ridleyanum** Schltr., **H44** 611, **S20** 651; *Dendrocolla maculata* Ridl., **FMP4** 188; *Thrixspermum rubrocallosum* Carr, **H44** 610; epiphyte about 10 cm tall; lowlands; Tg, Ph, NS, Jh, Sp.
- 233.136.24 **Thrixspermum sarcophyllum** Garay, **S20** 653; *Sarcochilus tahanensis* Ridl., **FMP4** 180, **H44** 688; epiphyte about 15 cm tall; montane forest; only known from type; at 1800 m on Gg Tahan, Ph; endemic.
- 233.136.25 **Thrixspermum scopa** (Rchb.f. ex Hook.f.) Holttum, **H44** 600, **S20** 641; *Thrixspermum arachnites* (non Rchb.f.) Ridl., **FMP4** 185 in part; long climbing epiphyte; widespread.
- 233.136.26 **Thrixspermum scortechinii** (Hook.f.) Ridl., **FMP4** 185, **H44** 600, **S20** 641; epiphyte to 40 cm long; montane forest; Kd, Pk, Sl; endemic.
- 233.136.27 **Thrixspermum tahanense** Carr, **H44** 601, **S20** 641; epiphyte to 40 cm long; montane forest; Gg Jerai, Kd, and Gg Tahan, Ph; endemic.
- 233.136.28 **Thrixspermum tenuicalcar** Carr, **H44** 610, **S20** 651; epiphyte about 10 cm tall; lowlands; Tg, Ph.

- 233.136.29 **Thrixspermum trichoglottis** (Hook.f.) Kuntze, **H44** 611, **S20** 655; *Dendrocolla trichoglottis* (Hook.f.) Ridl., **FMP4** 187; *Dendrocolla alba* Ridl., **FMP4** 188; *Thrixspermum album* (Ridl.) Schltr., **H44** 613; epiphyte to 10 cm long; lowlands; south of Peninsula.
- 233.137.1 **Thunia alba** (Lindl.) Rchb.f., **FMP4** 125, **S20** 146; herb to 60 cm tall; only known from Bt Wang, Kd.
- 233.138.1 **Trichoglottis bipunctata** (C.S.P. Parish & Rchb.f.) T. Tang & F.T. Wang, **S20** 603; *Saccolabium miserum* Ridl., **FMP4** 171; *Trichoglottis misera* (Ridl.) Holttum, **H44** 643; epiphyte to 50 cm or more long; lowland and hill forest; P. Langkawi, Kd, Pn, Pk.
- 233.138.2 **Trichoglottis cirrhifera** Teijsm. & Binn., **H44** 642, **S20** 601; *Trichoglottis tetraceras* Ridl., **FMP4** 162; *Saccolabium cornigerum* Ridl., **FMP4** 171; *Saccolabium pantlingii* Ridl., **FMP4** 175; long-climbing epiphyte or epilith; Ps, P. Langkawi, Kd, Pn, Pk.
- 233.138.3 **Trichoglottis lanceolaria** Blume, **H44** 643, **S20** 603; pendulous epiphyte to 70 cm long; montane forest; Fraser's Hill, Ph, P. Tioman, and Gg Pantl. Jh.
- 233.138.4 **Trichoglottis scapigera** Ridl., **S20** 599, **H44** 641, **FMP4** 162; long trailing epiphyte; Kd, Pg.
- 233.138.5 **Trichoglottis retusa** Blume, **FMP4** 162, **H44** 642, **S20** 601; long climbing plant; on rocks including limestone; Kl, Ph, Sl.
- 233.138.6a **Trichoglottis winkleri** J.J.Sm. var. **minor** J.J.Sm., **H44** 642, **S20** 601, **H44** 642; pendulous epiphyte to 60 cm or more long; known only from Kota Gelenggi, Ph.
- 233.138.6b **Trichoglottis winkleri** J.J.Sm. var. **winkleri**, **H44** 641, **S20** 601; pendulous epiphyte to 60 cm or more long; Cameron Highlands and Port Swettenham.
- 233.139.1 **Trichotosia aporina** (Hook.f.) Kraenzl., **FMP4** 102, **S20** 265; *Eria aporina* Hook.f., **H44** 360; tufted epiphyte to 15 cm tall; montane forest; Kd, Pk, Ph.
- 233.139.2 **Trichotosia ferox** Blume, **FMP4** 101, **S20** 262; *Trichotosia pyrrhotricha* (Ridl.) Ridl., **FMP4** 101; *Eria ferox* (Blume) Blume, **H44** 359; plant to 2 m tall; on rocks in the mountains; widespread.
- 233.139.3 **Trichotosia gracilis** (Hook.f.) Kraenzl., **FMP4** 104, **S20** 268; *Trichotosia oligantha* (Hook.f.) Kraenzl., **FMP4** 103; *Eria gracilis* Hook.f., **H44** 362; epiphyte to 20 cm long; lowlands and mountains; widespread.
- 233.139.4 **Trichotosia hispidissima** (Ridl.) Kraenzl., **FMP4** 102, **S20** 265; *Eria hispidissima* Ridl., **H44** 360; epiphyte about 15 cm tall; known only from type; Ulu Langat, Sl; endemic.

- 233.139.5 **Trichotosia microphylla** Blume, **FMP4** 102, **S20** 261; *Eria microphylla* (Blume) Blume, **H44** 360; creeping plant to 10 cm tall; in the mountains; Ph, Sl.
- 233.139.6 **Trichotosia pauciflora** Blume, **S20** 268; *Trichotosia biflora* Griff., **FMP4** 103; *Trichotosia tuberosa* (Hook.f.) Kraenzl., **FMP4** 103; *Eria monticola* Hook.f., **H44** 363; epiphyte to 60 cm long; montane forests at 900–1200 m; widespread.
- 233.139.7 **Trichotosia poculata** (Ridl.) Kraenzl., **FMP4** 103, **S20** 268; *Eria poculata* Ridl., **H44** 363; epiphyte to 100 cm long; montane forest about 900 m; widespread.
- 233.139.8 **Trichotosia rotundifolia** (Ridl.) Kraenzl., **FMP4** 102, **S20** 261; *Eria rotundifolia* Ridl., **H44** 360; creeping epiphyte a few cm tall; P. Langkawi, Pn.
- 233.139.9 **Trichotosia teysmannii** (J.J.Sm.) Kraenzl., **S20** 262; *Eria teysmannii* J.J.Sm., **H44** 359; pendulous epiphyte to 200 cm long; often on riverside trees; Kl, Ph, Jh.
- 233.139.10 **Trichotosia velutina** (Lodd. ex Lindl.) Kraenzl., **FMP4** 101, **S20** 265; *Eria velutina* Lodd. ex Lindl., **H44** 361; epiphyte to 40 cm tall; lowlands; widespread and common.
- 233.139.11 **Trichotosia vestita** (Lindl.) Kraenzl., **FMP4** 100, **S20** 262; *Eria vestita* Lindl., **H44** 359; epiphyte to 200 cm long; lowlands and mountains; widespread.
- 233.140.1 **Tropidia angulosa** (Lindl.) Blume, **FMP4** 209, **H44** 142, **S20** 50; herb about 30 cm tall; once near Ipoh, Pk.
- 233.140.2 **Tropidia curculigoides** Lindl., **FMP4** 209, **H44** 143, **S20** 53; herb to nearly 100 cm tall; lowland and montane forest; widespread.
- 233.140.3 **Tropidia graminea** Blume, **H44** 143, **S20** 53; herb to nearly 100 cm tall; lowland and montane forest; widespread.
- 233.140.4 **Tropidia pedunculata** Blume, **H44** 142, **S20** 51; *Tropidia maingayi* Hook.f., **FMP4** 209; herb 50–100 cm tall; in damp lowland and montane forest; widespread.
- 233.141.1 **Tuberolabium rhopalorrhachis** (Rchb.f.) J.J. Wood, **S20** 698; *Dendrocolla brachyglottis* (Hook.f.) Ridl., **FMP4** 189; *Saccolabium rhopalorrhachis* (Rchb.f.) J.J.Sm., **H44** 737; epiphyte about 10 cm tall; montane forest; Pk, Ph.
- 233.142.1 **Vanda helvola** Blume, **H44** 716, **S20** 660; epiphyte to 50 cm long; Pk, Sl.

- 233.143.1 **Vandopsis gigantea** (Lindl.) Pfitz., **H44** 647, **S20** 588; *Stauroopsis gigantea* (Lindl.) Benth. & Hook.f., **FMP4** 155; large epiphyte; Ps, P, Langkawi, Tg, Ml.
- 233.144.1 **Vanilla albida** Blume, **S20** 127; *Vanilla montana* Ridl., **FMP4** 201, **H44** 97; long stout climber; montane forest at 1350 m; once from Gg Korbu, Pk.
- 233.144.2 **Vanilla aphylla** Blume, **FMP4** 201, **H44** 98, **S20** 127; climber; on low bushes in open places; Ps.
- 233.144.3 **Vanilla griffithii** Rechb.f., **FMP4** 201, **H44** 95, **S20** 125; climber; on trees in fairly open places; throughout.
- 233.144.4 **Vanilla kinabaluensis** Carr, **H44** 96, **S20** 125; climber; montane forest; Ph.
- 233.144.5 **Vanilla pilifera** Holtum, **H44** 95, **S20** 125; climber; known only from Kota Tinggi, Jh.
- 233.145.1 **Ventricularia tenicaulis** (Hook.f.) Garay, **S20** 592; *Saccolabium tenicaule* Hook.f., **FMP4** 171; *Uncifera tenuicaulis* (Hook.f.) Holtum, **H44** 665; pendulous plant to 30 cm long; chiefly on limestone; P, Langkawi, Pn, Pk, Ph, Sl.
- 233.146.1 **Vrydagzynea albida** (Blume) Blume, **FMP4** 211, **H44** 138, **S20** 65; herb to 25 cm tall; lowland and montane forest; Pk, Ph, Sp.
- 233.146.2 **Vrydagzynea lancifolia** Ridl., **FMP4** 210, **H44** 137, **S20** 65; herb to 20 cm tall; lowland forest; widespread.
- 233.146.3 **Vrydagzynea tristriata** Ridl., **FMP4** 221, **H44** 138, **S20** 65; herb to 10 cm tall; damp lowland forest; Pk, Ph, Jh, Sp.
- 233.147.1 **Zeuxine affinis** (Lindl.) Benth. ex Hook.f., **FMP4** 217, **S20** 89; *Zeuxine gracilis* auct. non (Breda) Blume, **H44** 136 in part; herb to 20 cm tall; hill forest; Government Hill, Pn.
- 233.147.2 **Zeuxine clandestina** Blume, **FMP4** 217, **H44** 135, **S20** 89; herb 10–25 cm tall; open places in lowlands; widespread.
- 233.147.3 **Zeuxine gracilis** (Breda) Blume, **H44** 136 in part, **S20** 89; herb to 20 cm tall; once from Tembeling, Ph.
- 233.147.4 **Zeuxine palustris** Ridl., **FMP4** 217, **H44** 135, **S20** 87; herb to 30 cm tall; damp grassy places; only known from type; Ulu Temengor, Pk; endemic.
- 233.147.5 **Zeuxine parvifolia** (Ridl.) Seidenf., **S20** 87; *Hetaeria parvifolia* Ridl., **FMP4** 223, **H44** 117; herb about 25 cm tall; in the hills; Pn, Pk.
- 233.147.6 **Zeuxine purpurascens** Blume, **H44** 134, **S20** 85; herb to 10 cm tall; once from Tembeling, Ph.

- 233.147.7 **Zeuxine reniformis** Hook.f., **FMP4** 217, **H44** 134, **S20** 85; herb about 30 cm tall; only known from type; an old collection from Pk; endemic.
- 233.147.8 **Zeuxine rupestris** Ridl., **FMP4** 218, **H44** 136, **S20** 89; herb 14–20 cm tall; once on Penang Hill; endemic.
- 233.147.9 **Zeuxine strateumatica** (L.) Schltr., **H44** 133, **S20** 85; *Zeuxine sulcata* Lindl., **FMP4** 217; herb 12–20 cm tall; once near Malacca.
- 233.147.10 **Zeuxine violascens** (Blume) Ridl., **FMP4** 218, **H44** 135, **S20** 85; herb to 20 cm tall; damp lowland forest; once at Tanjung Kupang, Jh.

234. PALMAE

- 234.1.1 **Areca latiloba** Ridl., **FMP5** 3; *Areca montana* Ridl., **FMP5** 4; single-stemmed feather palm; forest understorey.
- 234.1.2 **Areca ridleyana** Furtado, **W14** 35; single-stemmed feather palm about 1 m tall; understorey of hill forest; Tg, Ph, Jh; endemic.
- 234.1.3 **Areca triandra** Roxb. ex Buch.-Ham., **FMP5** 4, **W14** 35; clumping feather palm to 6 m tall; understorey of lowland and mountain forest; widespread.
- 234.1.4 **Areca tunku** J. Dransf. & C.K. Lim, **D34** 81; stilt-rooted feather palm to 2.5 m tall; hill forest; Tg, Pk, Jh.
- 234.2.1 **Arenga hastata** (Becc.) Whitmore, **W11** 124, **W14** 37; *Didymosperma hastata* Becc., **FMP5** 20; clustering feather palm to 1 m tall; lowland forest, sometimes on limestone; Tg, Pk, Ph, Sl, Jh.
- 234.2.2 **Arenga hookeriana** (Becc.) Whitmore, **W11** 124, **W14** 37; *Didymosperma hastata* Becc., **FMP5** 20; tiny clustering feather palm to 50 cm tall; lowland forest including on limestone; widespread.
- 234.2.3 **Arenga obtusifolia** Mart., **K45** 27.
- 234.2.4 **Arenga pinnata** (Wurmb) Merr., **W14** 37; *Arenga saccharifera* Labill.; feather palm to 10 m tall or more; naturalizing around villages; native of Assam and Burma.
- 234.2.5 **Arenga westerhoutii** Griff., **FMP5** 19, **W14** 38; feather palm to 10 m or more tall; locally gregarious in hillside forest including on limestone; widespread.
- 234.3.1 **Borassodendron machadonis** (Ridl.) Becc., **D26** 353, **W14** 39; *Borassus machadonis* Ridl., **FMP5** 71; fan palm to 20 m tall; lowland forest including on limestone; Kl, Pk.

- 234.4.1 **Calamus axillaris** Becc., **D29** 135; rattan to 40 m long; lowland swamp forest; Ph, Pk, Jh; endemic.
- 234.4.2 **Calamus balingensis** Furtado, **D29** 234; rattan to 12 m tall; only known from type, Gg Baling, Kd; endemic.
- 234.4.3 **Calamus blumei** Becc., **D29** 192; clustering rattan climbing to 15 m tall; swampy or wet forest to 800 m; Pk, Ph, Sl, NS, Jh.
- 234.4.4 **Calamus burkillianus** Becc. ex Ridl., **FMP5** 56, **D29** 241; clustering rattan climbing to 20 m; forming thickets near the sea; Tg, Ph, Jh; endemic.
- 234.4.5 **Calamus caesius** Blume, **FMP5** 60, **W14** 43, **D29** 135; clustering rattan to 100 m long; swampy and wet lowland forests; Pk, Ph, Sl, NS, Ml, Jh.
- 234.4.6 **Calamus castaneus** Griff., **FMP5** 63, **W14** 43, **D29** 130; stemless feather palm about 1.5 m tall; lowland and hill forest to 800 m; Kd, Kl, Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh.
- 234.4.7 **Calamus cockburnii** J. Dransf., **D29** 173; short-stemmed erect rattan; hill forest; only known from Gg Tapis, Ph; endemic.
- 234.4.8 **Calamus concinnus** Martelli, **FMP5** 59 in part, **D29** 230; *Plectocomiopsis ferox* Ridl., **FMP5** 66; rosette-forming rattan; lowland forest; Ps, Kd, Pk.
- 234.4.9 **Calamus conirostris** Becc., **FMP5** 60, **D29** 186; clustering rattan climbing to 10 m; steep slopes in hill forest; Tapah, Pk, and Bt Lagong, Sl.
- 234.4.10 **Calamus corneri** Furtado, **D29** 219; clustering rattan climbing to 20 m; lowland forest; Ulu Kemaman, Tg, and near Kuantan, Ph; endemic.
- 234.4.11 **Calamus densiflorus** Becc., **FMP5** 53, **D29** 244; *Calamus neglectus* Becc., **FMP5** 62; clustering high-climbing rattan 30–40 m tall; lowland forest to 600 m; Kd, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp; endemic.
- 234.4.12 **Calamus diepenhorstii** Miq., **FMP5** 55, **D29** 246; clustering rattan climbing to 20 m; lowland and hill forests to 700 m; Kl, Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.4.13 **Calamus endauensis** J. Dransf., **D29** 152; slender clustering rattan to 25 m tall; hill forest at 200 m; known only from type, Gg Janing, Jh; endemic.
- 234.4.14 **Calamus erinaceus** (Becc.) J. Dransf., **D29** 130; *Calamus aquatilis* Ridl., **FMP5** 63; robust thicket-forming rattan; backs of mangrove swamps, coastal sand bars; Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.4.15 **Calamus exilis** Griff., **FMP5** 54, **D29** 176; *Calamus curtisii* Ridl., **FMP5** 54; solitary or clustering rattan to 15 m tall; lowlands and hills to 1000 m; Tg, Pn, Pk, Ph, Sl, Ml, Jh.

- 234.4.16 **Calamus filipendulus** Becc., **FMP5** 51, **D29** 205; *Calamus pauciflorus* Ridl., **FMP5** 57; slender clustering rattan to 5 m tall; lowlands and hills; Pk, Ph, Sl; endemic.
- 234.4.17 **Calamus flabellatus** Becc., **D29** 195; *Calamus flabelloides* Furtado, **D29** 195; very slender clustering rattan; swamp forest; only known from Sg Kayu, Jh.
- 234.4.18 **Calamus holttumii** Furtado, **D29** 222; solitary rattan climbing to 15 m tall; hill forest; Bt Bauk, Tg, and Gg Panti and Ulu Endau, Jh; endemic.
- 234.4.19a **Calamus insignis** Griff. var. **insignis**, **FMP5** 51, **D29** 212; slender clustering rattan climbing high; lowland and hill forest to 800 m; Kd, Tg, Pk, Ph, Sl, NS, Jh; endemic variety.
- 234.4.19b **Calamus insignis** Griff. var. **longispinosus** J. Dransf., **D29** 213; slender solitary rattan climbing high; steep slopes and ridgetops in hill forest 100–1000 m; Kd, Tg, Pk, Ph, Sl, NS.
- 234.4.19c **Calamus insignis** Griff. var. **robustus** (Becc.) J. Dransf.; slender clustering rattan climbing high; lowland forest; Pk; endemic variety.
- 234.4.20 **Calamus javensis** Blume, **FMP5** 49, **D29** 198; slender clustering rattan to 10 m tall; lowland and hill forests to 1200 m; Kd, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.4.21 **Calamus laevigatus** Martelli, **D29** 138; *Calamus pallidulus* Becc., **FMP5** 62 'pallidus'; solitary rattan to 30 m long; lowland and hill forests to 800 m; Kd, Kl, Tg, Pk, Ph, Sl, NS, Jh, Sp.
- 234.4.22 **Calamus laxissimus** Ridl., **FMP5** 63, **D29** 170; solitary rattan to 3 m long; Kl, Ph, Jh; endemic.
- 234.4.23 **Calamus lobbianus** Becc., **FMP5** 59, **D29** 190; solitary rattan, stem to 50 cm tall; lowland and hill forest; Kl, Ph, Sl, NS, Jh, Sp.
- 234.4.24 **Calamus longisetus** Griff., **D29** 154; clustering rattan to 5 m tall; lowland forest; P. Langkawi.
- 234.4.25 **Calamus longispathus** Ridl., **FMP5** 62, **D29** 179; thicket-forming rattan to 7 m tall; ridgetops in hill forest; Tg, Pk, Ph, Sl, NS, Ml, Jh.
- 234.4.26 **Calamus luridus** Becc., **FMP5** 56 in part, **D29** 237; *Calamus distans* Ridl., **FMP5** 56; *Calamus laxiflorus* Becc., **FMP5** 56; slender clustering rattan to 15 m tall; lowland to lower montane forest at 1400 m; Kl, Tg, Pk, Ph, Sl, NS, Jh, Sp; endemic.
- 234.4.27 **Calamus manan** Miq., **FMP5** 53, **D29** 143; massive solitary rattan reaching 100 m long; lowland and, more commonly, hill forest to 1000 m; Kl, Tg, Pk, Ph, Sl, NS, Jh.

- 234.4.28 **Calamus minutus** J. Dransf., **D29** 173; stemless feather palm to 60 cm tall; steep slopes in lowland forest at 150 m; only known from Ulu Setiu F.R., Tg; endemic.
- 234.4.29 **Calamus moorehousei** Furtado, **D29** 234; rattan; lowland forest; known only from type; Kuala Pilah, NS; endemic.
- 234.4.30 **Calamus multirameus** Ridl., **D29** 157; slender rattan; Ph, Pk; endemic.
- 234.4.31 **Calamus ornatus** Blume, **FMP5** 53, **D29** 201; large clustering rattan to 50 m long; lowland to lower montane forests at 1100 m; Kd, Kl, Tg, Pk, Ph, Sl, NS, Jh, Sp.
- 234.4.32a **Calamus oxleyanus** Teijsm. & Binn. var. **montanus** Furtado, **D29** 148; solitary or clustering rattan to 5 m long; montane forest; known only from Gg Padang, Tg; endemic variety.
- 234.4.32b **Calamus oxleyanus** Teijsm. & Binn. var. **oxleyanus**, **FMP5** 62, **D29** 148; solitary or clustering rattan to 5 m long; lowland forest on gentle slopes; Tg, Ph, Sl, NS, Ml, Jh, Sp.
- 234.4.33 **Calamus padangensis** Furtado, **D29** 176; clustering rattan; montane forest at 1300 m; known only from type; Gg Padang, Tg; endemic.
- 234.4.34 **Calamus palustris** Griff. var. **malaccensis** Becc., **FMP5** 61, **D29** 140; *Calamus dunetorum* Ridl., **FMP5** 63; clustering rattan to 25 m tall; secondary forest; Pn, Pk; endemic variety.
- 234.4.35 **Calamus pandanosmus** Furtado, **D29** 201; clustering rattan to 15 m tall; lowland forest; once each from Tg and Ph.
- 234.4.36 **Calamus paspalanthus** Becc., **FMP5** 55, **D29** 157; solitary rattan to 20 m tall; lowland forest to 500 m; Kl, Pk, Sl, Jh.
- 234.4.37 **Calamus penicillatus** Roxb., **D29** 216; *Calamus penangensis* Ridl., **FMP5** 51; extremely slender clustering rattan to 40 m tall; hill forest at 650 m; Penang Hill; endemic.
- 234.4.38a **Calamus perakensis** Becc. var. **crassus** J. Dransf., **D29** 167; solitary rattan to 2 m long; slopes in lowland forest at 100–500 m; Tg; endemic variety.
- 234.4.38b **Calamus perakensis** Becc. var. **niger** J. Dransf., **D29** 167; solitary rattan to 5 m long; swamp forest margins; Jh; endemic.
- 234.4.38c **Calamus perakensis** Becc. var. **perakensis**, **FMP5** 58, **D29** 164; clustering rattan to 3 m long, often stemless; lower montane forest at 900–1500 m; Pk, Ph, Sl.
- 234.4.39 **Calamus peregrinus** Furtado, **D29** 183; solitary rattan to 20 m tall; slopes and ridges in hill forest to 600 m; Kd, Kl, Pk, Sl, NS; endemic.

- 234.4.40 **Calamus polystachys** Becc., **D29** 132; thicket-forming rattan climbing high; only known from Mentakab, Ph, and P. Tioman.
- 234.4.41 **Calamus pycnocarpus** (Furtado) J. Dransf., **D29** 186; slender clustering rattan to 30 m tall; lowland forest; only known from Kemaman, Tg; endemic.
- 234.4.42 **Calamus radulosus** Becc., **FMP5** 57, **D29** 226; rattan climbing 10–15 m; only known from two collection from Pk; endemic.
- 234.4.43 **Calamus ridleyanus** Becc., **FMP5** 54, **D29** 246; clustering rattan climbing to 30 m; lowland forest; Tg, Jh, Sp; endemic.
- 234.4.44 **Calamus rugosus** Becc., **FMP5** 58, **D29** 219; slender rattan climbing to 8 m; lowland and hill forest; Pk, Ph, Jh.
- 234.4.45 **Calamus scabridulus** Becc., **FMP5** 58, **D29** 226; clustering rattan to 20 m tall; peat swamp forest; Tg, Sl, Jh.
- 234.4.46 **Calamus scipionum** Lour., **FMP5** 52, **D29** 203; massive clustering rattan climbing to a great height; lowlands, rarely above 200 m; Kd, Pn, Pk, Ph, Sl, NS, Ml, Jh.
- 234.4.47 **Calamus sedens** J. Dransf., **D29** 161; *Calamus ramosissimus* auct. non Griff., **FMP5** 58; rattan, often stemless, to 2 m tall; hill forest to 1100 m; Kd, Kl, Tg, Pk, Ph, Sl, NS, Jh; endemic.
- 234.4.48 **Calamus senalingensis** J. Dransf., **D29** 216; solitary rattan climbing to 15 m tall; only known from Bt Senaling, Kuala Pilah, NS; endemic.
- 234.4.49 **Calamus setulosus** J. Dransf., **D29** 237; slender rattan; lowland forest including on limestone; twice from Pk; endemic.
- 234.4.50 **Calamus siamensis** Becc. var. **malaianus** Furtado, **FMP5** 59, **D29** 230; clustering rattan to 5 m tall; open ground in the lowlands; Ps, Kd.
- 234.4.51 **Calamus simplex** Becc., **D29** 140; thicket-forming rattan to 6 m tall; lower montane forest mostly at 1500–2000 m; Pk, Ph; endemic.
- 234.4.52 **Calamus speciosissimus** Furtado, **D29** 205; clustering rattan to 25 m tall; lowland forest including swamps; Tg, Ph, Sl, NS, Ml, Jh; endemic.
- 234.4.53 **Calamus spectatissimus** Furtado, **D29** 179; clustering rattan climbing to 20 m; lowland forest; once from Kroh, Pk.
- 234.4.54 **Calamus tanakadatei** Furtado, **D29** 222; rattan to 20 m tall; lowland and hill forest to 500 m; Tg, Ph, Sl, NS, Jh; endemic.
- 234.4.55 **Calamus tomentosus** Becc., **FMP5** 52, **D29** 192; clustering rattan to 20 m tall; steep slopes in hill forest to 800 m; Tg, Pk.

- 234.4.56 **Calamus tumidus** Furtado, **D29** 145; solitary rattan to 60 m long; swampy lowland forest: Tg, Ph, NS, Jh.
- 234.4.57 **Calamus ulur** Becc., **D29** 152; clustering rattan to 10 m tall; swamp forest; only known from the base of Gg Panti, Jh.
- 234.4.58 **Calamus viminalis** Willd. var. **fasciculatus** (Roxb.) Becc., **D29** 234; rattan; once from Pn.
- 234.4.59 **Calamus viridispinus** Becc., **FMP5** 61, **D29** 148; *Calamus brevispadix* Ridl., **FMP5** 61; *Calamus distichus* Ridl., **FMP5** 60; *Calamus elegans* Ridl., **FMP5** 61; slender clustering rattan to 10 m tall, sometimes stemless; montane forest at 1000–2200 m; Kl, Tg, Pk, Ph, Sl; endemic.
- 234.4.60 **Calamus whitmorei** J. Dransf., **FMP5** 170; slender solitary rattan to 3 m long; montane forest at 1300 m; known only from Gg Padang, Tg; endemic.
Calamus pulaiensis Becc. [**FMP5** 56, **D30** 248]; remains a doubtful species.
- 234.5.1 **Calospatha scortechinii** Becc., **FMP5** 47, **D29** 72; solitary rattan to 10 m long; valleys in hill forest; Bt Lagong and Ulu Semenyih, Sl, and Bt Tangga, NS; endemic.
- 234.6.1 **Caryota mitis** Lour., **FMP5** 21, **W14** 44; clump-forming fishtail palm to 4 m tall; lowland secondary forests; throughout.
- 234.6.2 **Caryota maxima** Blume, **D27** 89; *Caryota aequatorialis* (Becc.) Ridl., **FMP5** 20; *Caryota obtusa* Griff. var. *aequatorialis* Becc., **W14** 45; solitary fishtail palm to 30 m tall; montane forest at 1000–1500 m; Main Range.
- 234.7.1 **Ceratolobus kingianus** Becc., **FMP5** 46, **D29** 251; slender clustering rattan 5–8 m long; lowland forest including swamps; Tg, Pk, Ph; endemic.
- 234.7.2 **Ceratolobus subangulatus** (Miq.) Becc., **D29** 251; *Ceratolobus laevigatus* (Martelli) Becc., **FMP5** 46; clustering rattan to 15 m tall, usually shorter; lowland and hill forest to 800 m; Tg, Pk, Ph, Sl, Ml, Sp.
- 234.8.1 **Cocos nucifera** L., **W14** 48; large feather palm to 25 m tall; sandy shores, widely planted; all coasts.
- 234.9.1 **Corypha utan** Lam., **D36** 207, **K46** 28; *Corypha elata* Roxb., **FMP5** 22, **W14** 51; solitary fan palm to 20 m tall; lowlands; Ps, Kd, Kl, Sl.
- 234.10.1 **Cyrtostachys renda** Blume, **D36** 380, **K46** 28; *Cyrtostachys lakka* Becc., **FMP5** 17, **W14** 53; clump-forming feather palm with scarlet crown shaft to 12 m tall; peat swamp forest; scattered.

- 234.11.1 ***Daemonorops angustifolia*** (Griff.) Martelli, **FMP5** 36, **D29** 78; *Daemonorops carcharodon* Ridl., **FMP5** 40; *Daemonorops hygrophila* Griff., **FMP5** 40; thicket-forming rattan to 40 m tall; damp lowland forest, riverbanks; Kd, Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.11.2 ***Daemonorops brachystachys*** Furtado, **D29** 94; rattan to 1 m tall; by streams in lowland forest; Kd, Kl, Pk, Sl.
- 234.11.3 ***Daemonorops calicarpa*** (Griff.) Martelli, **FMP5** 37, **D29** 85; *Daemonorops microthamna* Becc., **FMP5** 37; thicket-forming, usually stemless, feather palm; lowland and hill forest; Pk, Ph, Sl, NS, Ml, Jh.
- 234.11.4 ***Daemonorops didymophylla*** Becc., **FMP5** 41, **D29** 90; rattan to 15 m long; lowland and hill forest to 1000 m; Kl, Tg, Pn, Pk, Ph, Sl, NS, Jh, Sp.
- 234.11.5 ***Daemonorops geniculata*** (Griff.) Martelli, **FMP5** 44, **D29** 107; usually solitary rattan to 20 m tall; common in lowland and hill forest to 1000 m; Kd, Kl, Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.11.6 ***Daemonorops grandis*** (Griff.) Martelli, **FMP5** 38, **D29** 80; clustering rattan climbing to 20 m; steep slopes in the hills to 900 m; Pk, Ph, Sl, NS, Ml, Sp.
- 234.11.7a ***Daemonorops hystrix*** (Griff.) Martelli var. ***hystrix***, **FMP5** 42, **D29** 101; clustering rattan to 10 m tall; lowland forest to 300 m; Kl, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.11.7b ***Daemonorops hystrix*** (Griff.) Martelli var. ***minor*** Becc., **FMP5** 43, **D29** 104; very slender rattan to 1.5 m tall; ridge-top forest to 1000 m; Kd, Tg, Pk; endemic variety.
- 234.11.8 ***Daemonorops kunstleri*** Becc., **FMP5** 43, **D29** 104; *Daemonorops vagans* Becc., **FMP5** 43; clustering rattan to 5 m tall, sometimes stemless; lowlands and mountains to 1400 m; Kd, Kl, Tg, Pk, Ph, Sl, NS, Jh, Sp.
- 234.11.9 ***Daemonorops leptopus*** (Griff.) Martelli, **FMP5** 42, **D29** 96; clustering rattan to 15 m tall; lowland and hill forest to 1000 m; Kl, Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp; endemic.
- 234.11.10 ***Daemonorops lewisiana*** (Griff.) Martelli, **FMP5** 38, **D29** 85; *Daemonorops pseudosepal* Becc., **FMP5** 40; thicket forming rattan rarely more than 2 m tall; lowlands and hills; Kd, Pn, Pk, Jh, Sp.
- 234.11.11 ***Daemonorops longipes*** (Griff.) Martelli, **FMP5** 44, **D29** 117; clustering rattan not high climbing; damp spots in lowland forest; Ph, NS, Ml, Jh, Sp.
- 234.11.12 ***Daemonorops macrophylla*** Becc., **FMP5** 46, **D29** 109; clustering rattan reaching to 20 m; lowland and hill forest to 800 m; Tg, Pk, Ph, Sl, NS, Jh; endemic.

- 234.11.13 **Daemonorops melanochaetes** Blume, **D29** 80; clustering rattan to 30 m tall; dry ground near the sea; Pk, Ph, NS, MI, Jh.
- 234.11.14 **Daemonorops micracantha** (Griff.) Becc., **FMP5** 41, **D29** 96; rattan climbing to 20 m or more; lowland forest to 400 m; Tg, Pk, Ph, NS, Jh, Sp.
- 234.11.15 **Daemonorops monticola** (Griff.) Martelli, **FMP5** 37, **D29** 87; clustering rattan climbing to 5 m; hill forest; Pn, Jh; endemic.
- 234.11.16 **Daemonorops oligophylla** Becc., **D29** 112; slender clustering rattan; montane forest; only known from Gg Tambang Batak, Pk; endemic.
- 234.11.17 **Daemonorops periacantha** Miq., **FMP5** 44, **D29** 117; clustering rattan about 10 m long; lowland forest to 200 m; Jh, Sp.
- 234.11.18 **Daemonorops propinqua** Becc., **FMP5** 41, **D29** 94; thicket-forming rattan to 5 m tall; lowland swamps; Pk, Ph, Sl, MI; endemic.
- 234.11.19 **Daemonorops sabut** Becc., **FMP5** 46, **D29** 109; clustering rattan to 20 m or more tall; alluvial or freshwater swamp forest to 250 m; Tg, Pk, Ph, NS, Jh, Sp.
- 234.11.20 **Daemonorops scapigera** Becc., **FMP5** 43, **D23** 65; *Daemonorops lasiospatha* Furtado, **D29** 114; solitary, almost stemless rattan; lowland forest; Jh.
- 234.11.21 **Daemonorops sepal** Becc., **FMP5** 36, **D29** 82; *Daemonorops scortechinii* Becc., **FMP5** 36; *Daemonorops imbellis* Becc., **FMP5** 41; clustering rattan to 10 m tall; slopes and ridges in montane forest; Kl, Tg, Pk, Ph, Sl; endemic.
- 234.11.22 **Daemonorops verticillatus** (Griff.) Martelli, **FMP5** 45, **D29** 112; usually solitary rattan to 15 m long; lowland and hill forest to 1000 m; Kl, Tg, Pk, Ph, Sl, NS, MI, Jh.
- 234.12.1 **Eleiodoxa conferta** (Griff.) Burret, **D36** 249, **K46** 28; *Salacca conferta* Griff., **FMP5** 32; *Zalacca*, **W14** 106; stemless thicket-forming feather palm to 6 m tall; wet places in lowland forest; throughout.
- 234.13.1 **Eugeissona brachystachys** Ridl., **FMP5** 34, **W14** 60; stemless feather palm to 6 m tall; lowland forest; Tg, Ph; endemic.
- 234.13.2 **Eugeissona tristis** Griff., **FMP5** 34, **W14** 59; clumping stemless feather palm to nearly 10 m tall; lowland and hill forest to about 700 m; ?Ps, Kd, Kl, Tg, Pn, Pk, Ph, Sl, NS, MI, Jh; endemic.
- 234.14.1 **Iguanura bicornis** Becc., **FMP5** 16, **K21** 204, **W14** 63; *Pinanga canina* Becc., **FMP5** 6; *Iguanura arakudensis* Furtado, **W14** 62; feather palm 1–2 m tall; hill and lower montane forest at 1000–1500 m; Kd, Pk.
- 234.14.2 **Iguanura corniculata** Becc., **FMP5** 15, **K21** 205, **W14** 63; feather palm 1–1.3 m tall; hill forest; Selama, Pk, and Bt Serdam (limestone), Ph; endemic.

- 234.14.3 ***Iguanura polymorpha*** Becc., **FMP5** 15 incl. var. *canina* Becc., **K21** 212, **W14** 64; *Iguanura ferruginea* Ridl., **FMP5** 15; *Iguanura brevipes* Hook.f., **W14** 63; solitary or clustering feather palm 1–3 m tall; lowlands and mountains to 1500 m; Kd, Kl, Tg, Pk.
- 234.14.4a ***Iguanura wallichiana*** (Wall. ex Martelli) Hook.f. ssp. **malaccensis** (Becc.) Kiew var. **elatio**r Kiew, **K21** 223; simple-leaved palm 0.5–3.5 m tall; known only from Gg Belumut, Jh; endemic variety.
- 234.14.4b ***Iguanura wallichiana*** (Wall. ex Martelli) Hook.f. ssp. **malaccensis** (Becc.) Kiew var. **humilis** Kiew, **K21** 223; solitary, often stemless, simple-leaved palm to 1 m tall; known only from Kemaman, Tg; endemic variety.
- 234.14.4c ***Iguanura wallichiana*** (Wall. ex Martelli) Hook.f. ssp. **malaccensis** (Becc.) Kiew var. **malaccensis**, **K21** 222; *Iguanura geonomaeformis* Griff. ex Martelli, **FMP5** 13 incl. vars. *malaccensis* (Becc.) Ridl. and *ramosa* Ridl., **W14** 63; gregarious feather palm 1–2 m tall; along streams and other wet places in lowland forest; common south of Genting Simpah and Kemaman.
- 234.14.4d ***Iguanura wallichiana*** (Wall. ex Martelli) Hook.f. ssp. **wallichiana** var. **major** Becc. ex Hook.f., **K21** 221; *Iguanura spectabilis* Ridl., **FMP5** 14; simple-leaved palm 1.5–2.5 m tall; hill forest; Pk.
- 234.14.4e ***Iguanura wallichiana*** (Wall. ex Martelli) Hook.f. ssp. **wallichiana** var. **wallichiana**, **FMP5** 14, **K21** 221, **W14** 65; *Iguanura diffusa* Becc., **FMP5** 15; often gregarious feather palm 1–2 m tall; lowland and hill forest to 1000 m; north of Fraser's Hill and Sg Dungun.
- 234.15.1 ***Johannesteijsmannia altifrons*** (Rchb.f. & Zoll.) H.E. Moore, **D25** 68; *Teysmannia altifrons* Rchb.f. & Zoll., **FMP5** 31 in part, **W14** 110; solitary stemless simple-leaved palm to 6 m tall; primary lowland forest; Kl, Ph, Sl, Jh.
- 234.15.2 ***Johannesteijsmannia lanceolata*** J. Dransf., **D25** 78; solitary stemless simple-leaved palm to 3.5 m tall; lowland and hill forest; Ph, Sl; endemic.
- 234.15.3 ***Johannesteijsmannia magnifica*** J. Dransf., **D25** 75; *Teysmannia altifrons* auct. non Rchb.f. & Zoll., **FMP5** 31 in part; solitary stemless simple-leaved palm to 5 m tall; lowland forest to 500 m; Sl, NS; endemic.
- 234.15.4 ***Johannesteijsmannia perakensis*** J. Dransf., **D25** 73; *Teysmannia altifrons* auct. non Rchb.f. & Zoll., **FMP5** 31 in part; solitary simple-leaved palm to 4 m tall; hill forest; Pk; endemic.
- 234.16.1 ***Korthalsia echinometra*** Becc., **FMP5** 68, **D29** 47, **D30** 188; clustering ant-inhabited rattan to 30 m tall; lowland and hill forest; Tg, Ph, Sl, Jh, Sp.

- 234.16.2 **Korthalsia flagellaris** Miq., **FMP5** 70, **D29** 42, **D30** 180; *Korthalsia rubiginosa* Becc., **FMP5** 70; clustering rattan to 40 m long; peat swamp forest; Tg, Pk, Ph, Sl, NS, Jh.
- 234.16.3 **Korthalsia hispida** Becc., **D29** 50, **D30** 192; clustering fish-tailed rattan to 30 m tall; swampy lowland forest or near rivers; Ph, Jh.
- 234.16.4 **Korthalsia laciniosa** (Griff.) Martelli, **D30** 179; *Korthalsia grandis* Ridl., **FMP5** 69, **D29** 40; *Korthalsia wallichiaefolia* (Griff.) H. Wendl., **FMP5** 69; clustering fish-tailed rattan climbing high; lowland and hill forest to 1100 m; Kl, Pn, Pk, Ph, Sl, NS, Jh, Sp.
- 234.16.5 **Korthalsia lanceolata** J. Dransf., **D29** 45, **D30** 174; clustering high-climbing rattan; lowland and hill forest to 500 m; Pk, Sl; endemic.
- 234.16.6 **Korthalsia rigida** Blume, **D29** 38, **D30** 172; *Korthalsia polystachya* Martelli, **FMP5** 69; *Korthalsia ferox* Becc. var. *malayana* Becc., **FMP5** 69, **D29** 38; clustering fish-tailed rattan moderately high-climbing; lowlands and mountains to 1100 m; Kd, Kl, Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.16.7 **Korthalsia rostrata** Blume, **D30** 184; *Korthalsia scaphigera* Griff. ex Martelli, **FMP5** 68, **D29** 47; ? *Korthalsia machadonis* Ridl., **FMP5** 68; slender fish-tailed ant-inhabited rattan; lowland and hill forest to 800 m; Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.16.8 **Korthalsia scortechinii** Becc., **FMP5** 68, **D29** 50, **D30** 189; clustering ant-inhabited high-climbing rattan; lowland and hill forest to 900 m; Pn, Pk, Ph, Sl, NS, Ml, Sp; endemic.
- 234.16.9 **Korthalsia tenuissima** Becc., **FMP5** 69, **D29** 42; slender fish-tailed rattan reaching 60 m long; lowland and hill forest to 500 m; Pk, Sl; endemic.
- 234.17.1 **Licuala acutifida** Martelli, **FMP5** 27 in part, **F23** 44; small fan palm; hill forest; Pn; endemic.
- 234.17.2 **Licuala confusa** Furtado, **F23** 44; stemless fan palm about 1 m tall; hill forest; Pk; endemic.
- 234.17.3 **Licuala corneri** Furtado, **F23** 47; solitary fan palm 2–4 m tall; hill forest; known only from Kemaman, Tg; endemic.
- 234.17.4 **Licuala dransfieldii** Kiew, **K32** 263; fan palm to 3 m tall; hill slopes in lowland forest; Ulu Endau, Jh; endemic.
- 234.17.5 **Licuala ferruginea** Becc., **FMP5** 26, **F23** 47; short-stemmed or stemless fan palm; lowland forest; Tg, Ph, NS, Jh, Sp.
- 234.17.6a **Licuala glabra** Griff. var. *glabra*, **FMP5** 26, **F23** 49, **W14** 69; *Licuala longepedunculata* Ridl., **FMP5** 26; stemless or stout-stemmed palm to 3 m tall; forest understorey, lowlands and mountains; Kl, Pk, Ph, Sl, Ml.

- 234.17.6b **Licuala glabra** Griff. var. **selangorensis** Becc., **FMP5** 26, **F23** 50, **W14** 69; fan palm to 2 m tall; lower montane forest 600–1200 m, lowlands also; Tg, Ph, Sl, Jh; endemic variety.
- 234.17.7 **Licuala kemamanensis** Furtado, **F23** 50; stemless fan palm barely 1 m tall; known only from Sg Nipa, Tg.
- 234.17.8 **Licuala kiahii** Furtado, **F23** 52; stemless fan palm barely 1 m tall; known only from Sg Kayu and Gg Pulai, Jh; endemic.
- 234.17.9 **Licuala kingiana** Becc., **FMP5** 30, **F23** 54; fan palm to about 2 m tall; hill forest; Pk; endemic.
- 234.17.10 **Licuala kunstleri** Becc., **FMP5** 27, **F23** 54; fan palm to 2 m tall; hill forest; Pk, Ph, Sl.
- 234.17.11 **Licuala lanuginosa** Ridl., **FMP5** 30, **F23** 54; *Licuala longipes* auct. non Griff., **FMP5** 27 in part; short-stemmed fan palm; hill forest; Jh; endemic.
- 234.17.12 **Licuala longicalycata** Furtado, **F23** 54; fan palm to 3 m tall; lowland forest; NS, Jh; endemic.
- 234.17.13 **Licuala longipes** Griff., **FMP5** 27 in part, **F23** 57; stemless fan palm barely 1 m tall; lowland and hill forest; Tg, Ph, NS, Ml.
- 234.17.14 **Licuala malajana** Becc., **FMP5** 26 in part, **F23** 58; clumping fan palm to 2 m tall; lowland and hill forest; Kl, Tg, Ph, Sl, Jh; endemic.
- 234.17.15 **Licuala mirabilis** Furtado, **F23** 58; solitary fan palm 3–4 m tall; hill forest; Kd, Pn, Pk; endemic.
- 234.17.16 **Licuala modesta** Becc., **FMP5** 28, **F23** 60; *Licuala wrayi* Becc. ex Ridl., **FMP5** 28; fan palm to 3 m tall; lowland and mountains; Pk; endemic.
- 234.17.17 **Licuala moyseyi** Furtado, **F23** 61; fan palm; only known from Gg Padang, Tg; endemic.
- 234.17.18 **Licuala pahangensis** Furtado, **F23** 63; *Licuala malajana* auct. non Becc., **FMP5** 26 in part; fan palm; lowland forest; Ph; endemic.
- 234.17.19 **Licuala paludosa** Griff., **FMP5** 25 in part, **F23** 65; *Licuala patens* Ridl., **FMP5** 25; *Licuala paniculata* Ridl., **FMP5** 30; clumping fan palm to 6 m tall; lowlands and mountains; Pk, Sl, Jh.
- 234.17.20 **Licuala pusilla** Becc., **FMP5** 28, **F23** 66; tiny fan palm; hill forest; Kl, Sl, NS, Ml.
- 234.17.21 **Licuala ridleyana** Becc., **F23** 66; *Licuala malajana* auct. non Becc., **FMP5** 26 in part; fan palm; hill forest; Gg Bujong Malacca, Pk; endemic.

- 234.17.22 **Licuala scortechinii** Becc., **FMP5** 30, **F23** 67; fan palm; hill forest; Kd, Pk; endemic.
- 234.17.23 **Licuala spinosa** Wurm., **FMP5** 25, **F23** 67, **W14** 70; clumping fan palm to 6 m tall; damp open sites; throughout.
- 234.17.24 **Licuala thoana** L.G. Saw & J. Dransf., **S07** 71; solitary stemless undergrowth palm barely 1 m tall; lowland forest; only known along the Sg Kinchin, Jh; endemic.
- 234.17.25 **Licuala tiomanensis** Furtado, **F23** 68; fan palm; montane forest; known only from Bt Kajang, P. Tioman; endemic.
- 234.17.26 **Licuala triphylla** Griff., **FMP5** 28 incl. var. *integrifolia* Ridl., **F23** 68; stemless fan palm barely 1 m tall; lowland and hill forest; Kd, Pk, Ph, Ns, Ml, Jh, Sp.
- 234.18.1 **Livistona endauensis** J. Dransf. & K.M. Wong, **D38** 121; *Livistona saribus* auct. non (Lour.) Chev., **W14** 72 in part; often gregarious fan palm to 15 m tall; hill forest to 660 m; only known from Ulu Endau area, Jh; endemic.
- 234.18.2 **Livistona saribus** (Lour.) Merr. ex Chev., **K46** 29; *Livistona cochinchinensis* (Blume) Martelli, **FMP5** 22 in part; fan palm to 20 m tall; landward edge of mangrove forest; Sl.
- 234.18.3 **Livistona speciosa** Kurz, **W14** 73; fan palm to 20 m tall; lower montane forest 600–1000 m; Kd, Kl, Pk, Ph, Sl.
- 234.18.4 **Livistona tahanensis** Ridl., **FMP5** 23, **W14** 74; fan palm to 8 m tall; montane forest at 1000–1600 m; only known from Gg Tahan; endemic.
- 234.19.1 **Maxburretia gracilis** (Burret) J. Dransf., **D28** 194, **C16** 69; *Liberbaileya lankawiensis* Furtado, **F24** 238; *Liberbaileya gracilis* (Burret) Burret & Potztl, **W14** 67; clustering fan palm to 3 m tall; in forest on limestone; only known from P. Dayang Bunting, Langkawi; endemic.
- 234.19.2 **Maxburretia rupicola** (Ridl.) Furtado, **F24** 240, **W14** 76, **D28** 193, **C16** 69; *Livistona rupicola* Ridl., **FMP5** 23; clustering fan palm 1–2 m tall; on limestone hills; only known from Batu Caves, Bt Takun and Anak Bt Takun, Sl; endemic.
- 234.20.1 **Myrialepis paradoxa** (Kurz) J. Dransf., **D31** 242; *Plectocomiopsis annulata* Ridl., **FMP5** 66; *Plectocomiopsis scortechinii* (Becc.) Ridl., **FMP5** 67; *Myrialepis scortechinii* Becc., **D29** 68; thicket-forming rattan to 40 m long; lowland and hill forest to 1000 m; Tg, Pk, Ph, Sl, NS, Jh, Sp.
- 234.21.1 **Nenga grandiflora** Fernando, **F06** 66; solitary feather palm to 3 m tall; lowland forest 180–500 m; Jh; endemic.

- 234.21.2 **Nenga macrocarpa** Scott. ex Becc., **FMP5** 12, **W14** 79, **F06** 65; solitary feather palm to 7 m tall; montane forest to 1300 m, sometimes in the lowlands; Kd, Tg, Pk, Ph, Sl, NS.
- 234.21.3 **Nenga punila** (Martelli) H. Wendl. var. **pachystachya** (Blume) Fernando, **W14** 79, **F06** 61; *Nenga wendlandiana* Scheff., **FMP5** 12; feather palm to 6 m tall; lowland and hill forest to 1100 m; Kd, Kl, Pk, Ph, Sl, NS, Jh, Sp.
- 234.22.1 **Nypa fruticans** Wurmb, **FMP5** 71 'Nipa', **W14** 81; rhizomatous rosette feather palm to 6 m tall; gregarious in tidal reaches of estuaries; throughout.
- 234.23.1 **Oncosperma horridum** (Griff.) Scheff., **FMP5** 16, **W14** 82; ferociously spiny, clustered feather palm to 20 m tall; lowland and hill forest to 500 m; throughout.
- 234.23.2 **Oncosperma tigillarum** (Jack) Ridl., **W14** 83; *Oncosperma filamentosum* Blume, **FMP5** 16; 20-m-tall spiny feather palm growing in many-stemmed clumps; common near the sea; throughout.
- 234.24.1 **Orania sylvicola** (Griff.) H.E. Moore, **W14** 84; *Orania macrocladus* Martelli, **FMP5** 17; solitary feather palm to 20 m tall; lowland forest to 300 m; throughout.
- 234.25.1 **Phoenix paludosa** Roxb., **FMP5** 21, **W14** 86; clumping feather palm to 6 m tall; inland edge of mangrove forests; Ps, Kd, Kl, Tg, Pn, Pk.
- 234.26.1 **Pholidocarpus kingianus** (Becc.) Ridl., **FMP5** 24, **D35** 198; *Livistona kingiana* Becc., **W14** 72; solitary fan palm to 25 m tall; swampy lowland forest; widespread; endemic.
- 234.26.2 **Pholidocarpus macrocarpus** Becc., **FMP5** 23, **W14** 88; solitary fan palm to 15 m tall; swampy lowland forest; widespread.
- 234.27.1 **Pinanga acaulis** Ridl., **FMP5** 8; tiny feather palm barely 50 cm tall; lowland forest; Kd, Pk; endemic.
- 234.27.2 **Pinanga adangensis** Ridl., **FMP5** 10; clumping feather palm to 6 m tall; damp lowland forest; P. Langkawi; endemic.
- 234.27.3 **Pinanga beccariana** Furtado, **F20** 278; *Pinanga calamifrons* auct. non Becc., **FMP5** 9; stemmed feather palm; hill forest; Gg Jerai, Kd; endemic.
- 234.27.4 **Pinanga cleistantha** J. Dransf., **D32** 127; clustering feather palm to 2.5 m tall; damp lowland forest; only known from Ulu Setiu F.R., Tg; endemic.
- 234.27.5 **Pinanga disticha** (Roxb.) Blume ex H. Wendl., **FMP5** 7 in part, **W14** 91; clumping generally simple-leaved palm to 1.5 m tall; lowland and montane forest to 1200 m; widespread and common.

- 234.27.6 ***Pinanga fruticans*** Ridl., **FMP5** 9; clumping feather palm to 1.5 m tall; lowland forest; north-east; endemic.
- 234.27.7 ***Pinanga limosa*** Ridl., **FMP5** 8, **W14** 91; solitary simple or feather palm to 4 m tall; lowland and montane forest to 1200 m; Kl, Tg, Ph, Sl, NS, Ml, Jh, Sp.
- 234.27.8 ***Pinanga malaiana*** (Martelli) Scheff., **FMP5** 10, **W14** 91; clumping feather palm occasionally to 6 m tall; lowland and hill forest to 900 m; widespread.
- 234.27.9 ***Pinanga paradoxa*** Scheff., **FMP5** 9, **W14** 92; solitary feather palm 1–2 m tall; montane forest, usually 800–1400 m; widespread; endemic.
- 234.27.10 ***Pinanga patula*** Blume, **FMP5** 11, **W14** 92; solitary feather palm 2–5 m tall; hill and montane forest, 100–1200 m; widespread.
- 234.27.11 ***Pinanga pectinata*** Becc., **FMP5** 10, **W11** 125, **W14** 92; *Pinanga riparia* Ridl., **FMP5** 11; *Pinanga singaporensis* Ridl., **FMP5** 11; tufted feather palm 2–5 m tall; lowland and hill forest to 250 m; Pn, Pk, Ph, Sl, Jh, Sp; endemic.
- 234.27.12 ***Pinanga perakensis*** Becc., **FMP5** 10, **W11** 125, **W14** 93; *Pinanga densifolia* Ridl., **FMP5** 6; clumping feather palm to 3 m tall; ridges in lower montane forest, 900–1300 m; widespread; endemic.
- 234.27.13 ***Pinanga polymorpha*** Becc., **FMP5** 6 in part, **W11** 126, **W14** 93; *Pinanga brewsteriana* Ridl., **FMP5** 9; *Pinanga glaucescens* Ridl., **FMP5** 6; thicket-forming feather palm 1–3 m tall; gregarious in damp montane forest above 500 m; widespread; endemic.
- 234.27.14 ***Pinanga scortechinii*** Becc., **FMP5** 5, **W14** 93; usually solitary feather palm to 5 m tall; lowland and montane forest to 900 m; widespread; endemic.
- 234.27.15 ***Pinanga simplicifrons*** (Miq.) Becc., **W14** 93; *Pinanga subruminata* auct. non Becc., **FMP5** 8 in part; simple-leaved carpet-forming palm rarely more than 1 m tall; wet lowland forest; east of Main Range.
- 234.27.16 ***Pinanga subintegra*** Ridl., **FMP5** 8, **W14** 94; solitary feather palm 1–2 m tall; montane forest at 800–1400 m; Kd, Kl, Tg, Pk, Ph; endemic.
- 234.27.17 ***Pinanga subruminata*** Becc., **FMP5** 8 in part, **W14** 94; simple-leaved palm to 1.5 m tall; hill forest; Tg, Pn, Pk; endemic.
- 234.27.18 ***Pinanga wrayi*** Furtado, **F20** 276; *Pinanga polymorpha* auct. non Becc., **FMP5** 6 in part; *Pinanga disticha* auct. non (Roxb.) Blume ex H. Wendl., **FMP5** 7 in part; feather palm to 2.5 m tall; montane forest; Pk, Sl; endemic.
- 234.27.19 ***Pinanga* aff. *mirabilis***, **K46** 29.

- 234.28.1 **Plectocomia dransfieldii** Madulid, **M08** 77; *Plectocomia* sp., **D29** 59; robust solitary rattan to 50 m tall; hill forest; known only from the road to Cameron Highlands, Ph; endemic.
- 234.28.2 **Plectocomia elongata** Mart. ex Blume, **M08** 45; *Plectocomia griffithii* Becc., **FMP5** 70, **D29** 55; massive solitary or clustering rattan to 50 m tall; lowlands and mountains to 2000 m; Kd, Kl, Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 234.28.3 **Plectocomia muelleri** Blume, **D29** 57, **M08** 55; massive solitary rattan reaching 40 m; swampy lowland forest; Ph, Jh.
- 234.29.1 **Plectocomiopsis corneri** Furtado, **D29** in part, **D31** 250; clustering rattan to 30 m tall; lowland forest; Kemaman, Tg, and Bt Galing, Ph; endemic.
- 234.29.2 **Plectocomiopsis geminiflora** (Griff.) Becc., **FMP5** 65, **D29** 61, **D31** 246; thicket-forming rattan to 50 m tall; lowland and hill forest; Kd, Tg, Pk, Ph, Sl, NS, Ml, Jh.
- 234.29.3 **Plectocomiopsis mira** J. Dransf., **D31** 247; *Plectocomiopsis corneri* auct. non Furtado, **D29** 65 in part; clustering rattan climbing high; montane forest; known only from Gg Bubu, Pk.
- 234.29.4 **Plectocomiopsis wrayi** Becc., **FMP5** 65, **D29** 63, **D31** 252; *Plectocomiopsis dubia* Becc., **FMP5** 66; clustering rattan climbing to 30 m; lowland freshwater swamp forest; Pk, Sl; endemic.
- 234.30.1 **Pogonotium ursinum** (Becc.) J. Dransf., **D33** 193; *Daemonorops ursina* Becc., **D29** 90; solitary rattan rarely more than 4 m tall; lowland forest; once from Taman Negara, Ph.
- 234.31.1 **Rhopaloblaste singaporensis** (Becc.) Hook.f., **M56** 88; *Ptychoraphis singaporensis* (Becc.) Becc., **FMP5** 18, **W14** 96; *Ptychoraphis longiflora* Ridl., **FMP5** 18; tufted feather palm to 4 m tall; lowland forest; Pk, Ph, Jh, Sp; endemic.
- 234.32.1 **Salacca affinis** Griff., **FMP5** 32, **W14** 105; prickly dense rosette-forming feather palm to 3 m tall; wet lowland forest; widespread.
- 234.32.2 **Salacca flabellata** Furtado, **W14** 107, **M44** 466; stemless palm forming wide low clumps about 1 m tall; damp lowland forest; Tg, ?Jh; endemic.
- 234.32.3 **Salacca glabrescens** Griff., **FMP5** 33, **W14** 107; stemless feather palm to 5 m tall; damp lowland and hill forest; widespread; endemic.
- 234.32.4 **Salacca graciliflora** Moge, **M46** 6; short-stemmed feather palm to 2 m tall; lowland forest understorey at 300 m; Gg Janing, Jh; endemic.
- 234.32.5 **Salacca minuta** Moge, **M46** 11; simple-leaved stemless palm about 1 m tall; Gg Janing, Jh; endemic.

- 234.32.6 **Salacca multiflora** Mogeia, **M46** 13; stemless simple-leaved palm about 3 m tall; near streams in lowland forest: Ulu Setiu F.R., Besut, Tg; endemic.
- 234.32.7 **Salacca wallichiana** Martelli, **FMP5** 33, **M45** 121; *Salacca rumphii* Wall. ex Blume, **W14** 107; tufted spiny feather palm to 7 m tall.
235. PANDANACEAE
- 235.1.1 **Freycinetia angustifolia** Blume, **FMP5** 82, **S42** 197; *Freycinetia malaccensis* Ridl., **FMP5** 81; woody climber; lowland swamp and low hill forest; Pn, Pk, Sl, NS, Ml, Jh, Sp.
- 235.1.2 **Freycinetia confusa** Ridl., **FMP5** 82, **S42** 203; slender liana; lowland forests: Sl, Jh, Sp; endemic.
- 235.1.3 **Freycinetia corneri** B.C. Stone, **S42** 198; lowland forest liana; Sl, Jh, Sp.
- 235.1.4a **Freycinetia imbricata** Blume var. **hispidula** B.C. Stone, **S42** 204; forest climber; lowlands, hills and mountains; Ph, Sl, Jh.
- 235.1.4b **Freycinetia imbricata** Blume var. **imbricata**, **S42** 203; *Freycinetia kingiana* Ridl., **FMP5** 82; lowland forest climber, sometimes on rocks.
- 235.1.5 **Freycinetia javanica** Blume, **S42** 195; *Freycinetia lucens* Ridl., **FMP5** 80; *Freycinetia montana* Ridl., **FMP5** 82; woody climber with clasping adventitious roots; humid forest, lowlands to mountains; Tg, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 235.1.6 **Freycinetia kamiana** B.C. Stone, **S42** 205; slender climber; only collected at Bt Lagong, Sl.
- 235.1.7 **Freycinetia rigidifolia** Hemsl., **S42** 204; *Freycinetia acuminata* Ridl., **FMP5** 82; slender climber; lowland and hill forests; Tg, Pk, Ph, Sl, Jh.
- 235.1.8a **Freycinetia sumatrana** Hemsl. var. **penangiana** B.C. Stone, **S42** 202; forest liana; Kd, Pn.
- 235.1.8b **Freycinetia sumatrana** Hemsl. var. **sumatrana**, **S42** 199; *Freycinetia valida* Ridl., **FMP5** 83; forest liana; lowlands and mountains; Kd, Pn, Pk, Ph, Sl, NS, Ml, Jh, Sp.
- 235.2.1 **Pandanus affinis** Kurz, **S45** 13; *Pandanus aurantiacus* Ridl., **FMP5** 81; shrub to 5 m tall; freshwater or brackish swamps; Tg, Ph, Sl, NS, Jh, Sp.
- 235.2.2 **Pandanus albifrons** B.C. Stone, **S58** 317; sparsely branched shrub to 3.5 m; only known from Pasoh F.R., NS; endemic.
- 235.2.3 **Pandanus alticola** Holtum & H. St. John, **S45** 57, **C16** 70; shrub; on limestone or epiphytic; Kl, Ph, Sl.

- 235.2.4 **Pandanus atrocarpus** Griff., **FMP5** 80, **S45** 26; big tree; common in lowland swamps; Tg, Pn, Ph, Sl, Jh, Sp.
- 235.2.5 **Pandanus calcicola** Holttum & H. St.John, **S40** 136, **C16** 70; shrub to 5 m tall; on limestone; Ps, Sl; endemic.
- 235.2.6 **Pandanus calvus** B.C. Stone, **S61** 427; rosette-forming shrubs; lowland forest; Sl; endemic.
- 235.2.7 **Pandanus crinifolius** Martelli, **S55** 14; *Pandanus bidens* Ridl., **FMP5** 75, **S40** 126; short-stemmed clumps about 1 m tall; Kd, Pk, Ph, Sl; endemic.
- 235.2.8a **Pandanus dubius** Spreng. var. **compressus** (Martelli) Stone, **S55** 90.
- 235.2.8b **Pandanus dubius** Spreng. var. **dubius**, **S55** 88; erect stout-trunked plants; rocky and sandy shores.
- 235.2.9 **Pandanus dumetorum** Holttum & H. St.John, **S45** 62; stemless, tufted pandan; Tg, Ph; endemic.
- 235.2.10 **Pandanus echinodermops** Holttum & H. St.John, **S39** 10; swampy areas; Jh; endemic.
- 235.2.11 **Pandanus elostigma** Martelli, **FMP5** 79, **S45** 48; stemless pandan; Kl, Pk, Ph, Ml, Jh; endemic.
- 235.2.12 **Pandanus epiphyticus** Martelli, **S45** 65; massive shrub; usually epiphytic; lowland forests; Ph, Jh.
- 235.2.13 **Pandanus furcatus** Roxb. var. **penangensis** (Ridl.) B.C. Stone, **S55** 24; *Pandanus penangensis* Ridl., **FMP5** 81, **S40** 128; erect trees to 10 m; hills, including limestone; Ps, Pn, Sl; endemic variety.
- 235.2.14 **Pandanus glaucophyllus** Ridl., **S45** 42; shrub to 4 m tall; Pk, NS; endemic.
- 235.2.15 **Pandanus helicopus** Kurz, **S40** 131, **S45** 116; *Pandanus muarensis* Ridl., **FMP5** 77; tall erect aquatic shrub; usually standing in water; Sl, Ph, Jh.
- 235.2.16 **Pandanus herbaceus** Martelli, **FMP5** 81, **S45** 37; *Pandanus collinus* Ridl., **FMP5** 79 incl. var. *spinulosus* Ridl.; *Pandanus kingianus* Martelli, **FMP5** 79, **S40** 136; *Pandanus spinulosus* (Ridl.) H. St.John, **S40** 136; understorey shrub; lowland and hill forest; Ps, Kd, Kl, Pn, Pk, Jh.
- 235.2.17 **Pandanus horizontalis** H. St.John, **S43** 200, **S55** 26; lowland forest; Ph.
- 235.2.18 **Pandanus houlettei** Carrière, **FMP5** 74, **S55** 26; dubiously native; Sp.
- 235.2.19 **Pandanus humilis** Lour., **S55** 17; *Pandanus perakensis* Ridl., **FMP5** 81; *Pandanus ovatus* Warb., **S40** 136; Ps, Kd, Tg, Pn, Pk, Ph, NS, Ml.

- 235.2.20 **Pandanus immersus** Ridl., **FMP5** 76, **S55** 29; massive shrub forming dense thickets; often in water; Sl, Ph; endemic.
- 235.2.21 **Pandanus irregularis** Ridl., **FMP5** 76, **S55** 84, **C16** 71, **S61** 431; erect shrub to 5 m tall; limestone hills; Kl, Ph; endemic.
- 235.2.22 **Pandanus kaida** Kurz, **S55** 93; Kd, Pn, NS.
- 235.2.23 **Pandanus kamiae** B.C. Stone, **S43** 201 '*kamii*', **S55** 33; acaulescent or decumbent pandan; freshwater swamp forest; Jh.
- 235.2.24 **Pandanus kedahensis** H. St.John, **S55** 36; pandan; forest at about 1100 m; only known from G. Jerai, Kd; endemic.
- 235.2.25 **Pandanus klossii** Ridl., **FMP5** 74, **S55** 68; erect trees with prop roots to 7 m; mountain tops; Kl, Tg, Ph; endemic.
- 235.2.26 **Pandanus lais** Kurz, **S43** 200, **S55** 42; only collected on P. Tinggi, Jh.
- 235.2.27 **Pandanus longicaudatus** Holttum & H. St.John, **S55** 44; pandan; hill and montane forest, 1000–1800 m; Pk, Ph, Sl; endemic.
- 235.2.28a **Pandanus militaris** Parkinson var. **malayanus** B.C. Stone, **S44** 127; erect, sparsely branched shrub 3–4 m tall; in swamps; Kd, Kl, Tg, Jh, Sp.
- 235.2.28b **Pandanus militaris** Parkinson var. **militaris**, **S44** 125; erect, sparsely branched shrub 3–4 m tall; in swamps; Tg, Sl, ?Sp.
- 235.2.29 **Pandanus monotheca** Martelli, **FMP5** 79, **S45** 33; *Pandanus ornatus* [non Hort. ex Bull] (Gaudich.) Kurz, **FMP5** 80; *Pandanus recurvatus* H. St.John, **S40** 136; erect, slender shrub; common in hill forests, 500–1500 m; Kd, Kl, Tg, Pn, Pk, Ph, NS, Jh, Sp.
- 235.2.30 **Pandanus motleyanus** Solms, **S40** 132, **S44** 130; slender erect shrub to 5 m tall; near forest streams or in swampy forest; once from Jh.
- 235.2.31 **Pandanus nanus** Martelli, **S45** 49; stemless pandan; Pk, Ph.
- 235.2.32 **Pandanus odoratissimus** L.f., **S39** 3; *Pandanus fascicularis* Lam., **FMP5** 73; large prop-rooted shrub; the common seashore pandan; widespread.
- 235.2.33 **Pandanus parvus** Ridl., **FMP5** 78, **S45** 39; shrub to 2.5 m tall; lowland forest; Ph, Ml, Jh, Sp.
- 235.2.34 **Pandanus pentodon** Ridl., **FMP5** 75, **S39** 7; low slender bush; rheophyte; Tg, Jh; endemic.
- 235.2.35 **Pandanus pilaris** Ridl., **FMP5** 79, **S45** 51; Sl, NS, Jh.
- 235.2.36 **Pandanus piniformis** Holttum & H. St.John, **S55** 68, **C16** 71; clumping pandan 3–4 m tall; limestone hills; Pulau area of Pk; endemic.

- 235.2.37 **Pandanus polycephalus** Lam., **S39** 14; slender bushy treelet; beaches; Jh.
- 235.2.38 **Pandanus prainii** Martelli, **S40** 132, **S44** 138; shrub; Pk, Sl; endemic.
- 235.2.39 **Pandanus rostratus** Martelli, **S64** 49; *Pandanus corneri* Kaneh., **S39** 14; stems to about 2 m; along streams near the sea; Jh, Sp.
- 235.2.40 **Pandanus saint-johnii** B.C. Stone, **S45** 63; stemless pandan; hill forest; Jh; endemic.
- 235.2.41 **Pandanus scortechinii** Martelli, **S40** 132, **S44** 142; shrub 120–130 cm tall; wet swamps; Pk, Jh; endemic.
- 235.2.42 **Pandanus sobolifer** B.C. Stone, **S45** 63; stemless pandan; hill forest; Pn, Pk; endemic.
- 235.2.43 **Pandanus stelliger** Ridl., **FMP5** 76, **S55** 81; shrub to 3 m tall; lowlands and mountains; Tg, Pn, Pk, Ph, Sl, Jh.
- 235.2.44 **Pandanus tetradon** Ridl., **S55** 83; erect prop-rooted shrub; Sp.
- 235.2.45 **Pandanus undulifolius** Holtum & H. St. John, **S45** 42; Jh; endemic.
- 235.2.46 **Pandanus unguiculatus** Ridl., **FMP5** 78, **S45** 41; *Pandanus attenuatus* H. St. John, **S40** 136; understorey shrub; montane forest; Ph, Sl; endemic.
- 235.2.47 **Pandanus unguifer** Hook.f., **S55** 56; *Pandanus bicornis* Ridl., **FMP5** 76; montane forest; Pk, Ph.
- 235.2.48 **Pandanus yvanii** Solms, **S40** 132, **S45** 133; tall prickly shrub 5–6 m tall; common along water courses in shady forest; Tg, Pk, Ph, Sl, NS, Ml, Jh, Sp.

236. PHILYDRACEAE

- 236.1.1 **Philydrum lanuginosum** Banks ex Gaertn., **FMP4** 347, **FM14** 5; tufted herb to 1 m tall; in shallow water, rice-fields; widespread.

237. PHORMIACEAE

- 237.1.1 **Dianella ensifolia** (L.) DC., **FMP4** 329, **FM9** 207; *Dianella parviflora* Ridl., **FMP4** 330; tufted herb to 1 m tall; sea shores and open forest to 1000 m; throughout.
- 237.1.2 **Dianella javanica** (Blume) Kunth, **FM9** 209; *Rhuacophila javanica* Blume, **FMP4** 328; herb to 2 m tall; rocky places on mountain tops; Pk, Ph.

238. PONTEDERIACEAE

- 238.1.1 **Eichhornia crassipes** (Mart.) Solms. **FMI4** 259, **M47** 484; floating herb 30–50 cm tall; forming mats on water bodies; naturalized from tropical America; throughout.
- 238.2.1 **Monochoria elata** Ridl., **FMP4** 344, **C23** 167; *Monochoria hastata* (L.) Solms var. *elata* (Ridl.) Backer, **FMI4** 258; herb to 150 cm tall; wet rice-fields; Kd.
- 238.2.2 **Monochoria hastata** (L.) Solms, **FMI4** 258, **C23** 164; *Monochoria hastaefolia* Presl, *nom. illeg.*, **FMP4** 344; rhizomatous herb to 125 cm tall; margins of ditches, lakes and rivers; widespread.
- 238.2.3 **Monochoria vaginalis** (Burm.f.) Kunth, **FMP4** 346 incl. var. *plantaginea* (Roxb.) Solms, **FMI4** 256, **C23** 161; rhizomatous herb; common in damp or wet places; throughout.

239. POTOMAGETONACEAE

- 239.1.1 **Ruppia maritima** L., **FMP4** 367; creeping submerged aquatic herb; wet rice-fields; Pn.

240. RESTIONACEAE

- 240.1.1 **Leptocarpus disjunctus** Mast., **FMP5** 136, **FMI5** 419; rhizomatous sedge-like herb to 1 m tall; sandy places, often near the sea; Tg.

241. SMILACACEAE

- 241.1.1 **Heterosmilax borneensis** A. DC., **K69** 203; *Heterosmilax indica* auct. non A. DC., **FMP4** 344; slender vine to 3 m long; thickets near the sea; once at Tanjong Katong, Sp.
- 241.2.1 **Smilax blumei** A. DC., **FMP4** 343, **K66** 10, **K67** 230; large climber to 10 m long; lowland and hill forest; Ph, Sl.
- 241.2.2 **Smilax calophylla** Wall. ex A. DC., **FMP4** 330, **K67** 239; slender straggling shrub 60–230 cm tall; lowland and hill forest; widespread.
- 241.2.3 **Smilax corbularia** Kunth var. **woodii** (Merr.) T. Koyama; **K66** 15; *Smilax peguana* A. DC., **FMP4** 340; rocks on mountains; Ph, Sp.
- 241.2.4 **Smilax extensa** Wall. ex A. DC., **FMP4** 341, **K67** 224; climber; hill forests; Pn.

- 241.2.5 **Smilax kingii** Hook.f., **FMP4** 343, **K66** 22; thick woody climber; hill forest; Pk.
- 241.2.6 **Smilax lanceifolia** Roxb., **K67** 225; *Smilax laevis* Wall. ex A. DC., **FMP4** 340; climber to 5 m long; montane forest; widespread.
- 241.2.7 **Smilax leucophylla** Blume, **FMP4** 343, **K66** 27; woody climber; lowland and montane forest; Pn, Pk, Ph, Jh, Sp.
- 241.2.8 **Smilax luzonensis** Presl, **K67** 222; *Smilax helferi* A. DC., **FMP4** 342; climber to 5 m long; climbing on bushes in open country; Kd, Kl, Pk, Ph, Sl, NS, MI.
- 241.2.9 **Smilax megacarpa** A. DC. & C. DC., **FMP4** 341, **K67** 217; climber 2–6 m long; lowland forests; Pn, Pk, Ph.
- 241.2.10 **Smilax myosotiflora** A. DC., **FMP4** 340, **K67** 243; slender vine; lowland forest; Pn, Kl, Pk, Ph, NS, MI, Jh, Sp.
- 241.2.11 **Smilax odoratissima** Blume, **FMP4** 342; sparsely thorny climber; montane forests; Pk, Sl.
- 241.2.12 **Smilax polyacantha** Wall. ex Kunth, **FMP4** 342, **K67** 224; slender thorny climber; hill and montane forests; several localities; endemic.
- 241.2.13 **Smilax setosa** Miq., **K66** 45; *Smilax bracteata* Presl var. *barbata* (Wall. ex A. DC.) T. Koyama *nomen*; **T18** 214; *Smilax barbata* Wall. ex A. DC., **FMP4** 342; large-leaved thorny liana; lowland forest margins; widespread.
- 241.2.14 **Smilax sinclairi** T. Koyama; **K66** 48; climber; lowland forest; Pk, NS; endemic.

242. STEMONACEAE

- 242.1.1 **Stemona curtisii** Hook.f., **FM11** 403; *Stemona tuberosa* auct. non Lour., **FMP4** 320; vine to 3 m long; thickets near the sea, sometimes on limestone; widespread.
- 242.2.1 **Stichoneuron caudatum** Ridl., **FMP4** 321, **FM11** 408; slender erect herb to 60 cm tall; wet places in lowland forest; Kl, Pk.

243. TACCACEAE

- 243.1.1 **Tacca chantrieri** André, **FM17** 813; *Tacca minor* Ridl., **FMP4** 311; herb to 60 cm tall; lowland and hill forest; Ps, Pn, Pk.
- 243.1.2 **Tacca integrifolia** Ker Gawl., **FM17** 811; *Tacca cristata* Jack, **FMP4** 310; herb to 1 m tall; lowland and hill forest; widespread.

- 243.1.3 **Tacca leontopetaloides** (L.) Kuntze, **FMi7** 809; *Tacca pinnatifida* J.R. Forst. & G. Forst., **FMP4** 309; *Tacca chantrieri* auct. non André, **FMP4** 311; tuberous herb to nearly 2 m tall; sandy places near the sea; widespread but not common.

- 243.1.4 **Tacca palmata** Blume, **FMP4** 309, **FMi7** 814; tuberous palmate-leaved herb to 80 cm tall; forest margins to 1000 m; Kl, Pn, P, Tioman, Jh.

244. TRICHOPODACEAE

- 244.1.1 **Trichopus zeylanicus** Gaertn. ssp. **travancoricus** (Bedd.) Burkill, **FMi4** 299; *Trichopus malayanus* Ridl., **FMP4** 312; tufted herb to about 30 cm tall; seasonally-flooded lowland forest; Kl, Ph.

245. TRIURIDACEAE

- 245.1.1 **Sciaphila maculata** Miers, **FMi10** 113; *Sciaphila affinis* Becc., **FMP4** 364; erect red saprophytic herb 3–16 cm tall; on leaf litter in lowland and hill forest to 1000 m; widespread.

- 245.1.2 **Sciaphila nana** Blume, **FMi10** 117; erect purple saprophytic herb 5–15 cm tall; dense hill forest 250–500 m; Pk, Ph.

- 245.1.3 **Sciaphila secundiflora** Thwaites ex Benth., **FMi10** 116; *Sciaphila major* Becc., **FMP4** 364; *Sciaphila asterias* Ridl., **FMP4** 365; erect red saprophytic herb 6–33 cm tall; in damp rocky forest, lowland and hills and on limestone; widespread.

- 245.1.4 **Sciaphila tenella** Blume, **FMi10** 113; erect red saprophytic herb 5–24 cm tall; lowland and hill forest; Ph, Jh, Sp.

246. TYPHACEAE

- 246.1.1 **Typha angustifolia** L., **FMi4** 243; tufted herb to 3 m tall; in shallow water; widespread; naturalized.

If *Typha angustifolia* is accepted in a narrower sense as a temperate species then the correct name for the Malayan plant is probably *Typha domingensis* Pers. [**C36** 365].

247. XYRIDACEAE

- 247.1.1 ***Xyris bancana*** Miq., **FMP4** 349, **FMi4** 370 incl. var. *lacerata* Malme, **H08** 133, **FMi9** 571; *Xyris ridleyi* Rendle, **FMP4** 349, **FMi4** 370; tufted sedge-like herb to 30 cm tall; open sandy places in the lowlands and mountains; Ph, MI.
- 247.1.2 ***Xyris capensis*** Thunb., **FMi4** 374 incl. var. *schoenoides* (Mart.) Nilsson, **H08** 135, **FMi9** 573; tufted herb approaching 1 m tall; once from the Cameron Highlands, Ph.
- 247.1.3 ***Xyris complanata*** R.Br., **FMi4** 369, **H08** 133, **FMi9** 571; *Xyris anceps* (*non* Lam.) Vahl, **FMP4** 348; tufted sedge-like herb to 60 cm tall; open sandy places; widespread, common along east coast.
- 247.1.4 ***Xyris grandis*** Ridl., **FMP4** 347, **FMi4** 372, **H08** 135, **FMi9** 572; tufted herb to 90 cm tall; wet places in the mountains at 900–2200 m; Main Range.
- 247.1.5 ***Xyris indica*** L., **FMP4** 348, **FMi4** 373, **H08** 134, **FMi9** 372; tufted herb to 80 cm tall; weed of wet rice; MI northward.
- 247.1.6 ***Xyris pauciflora*** Willd., **FMP4** 348, **FMi4** 371, **H08** 136, **FMi9** 573; tufted sedge-like herb to 40 cm tall; damp sandy places; widespread.
- 247.1.7 ***Xyris wallichii*** Kunth, **H08** 136, **FMi9** 573; *Xyris oreophila* Ridl., **FMP4** 349, **FMi4** 372; *Xyris malmei* P. Royen, **FMi4** 370; tufted sedge-like herb to 45 cm tall; known only from Gg Jerai, Kd at 850–1300 m.

248. ZINGIBERACEAE

- 248.1.1 ***Alpinia aquatica*** (Retz.) Roscoe, **S34** 37; *Alpinia melanocarpa* (Teijsm. & Binn.) Ridl., **FMP4** 279; *Languas melanocarpa* (Teijsm. & Binn.) Burkill, **H41** 159; herb to 2 m tall; locally common near the sea; south and east of the Peninsula.
- 248.1.2 ***Alpinia assimilis*** Ridl., **FMP4** 280, **S34** 38; *Catimbium assimile* (Ridl.) Holttum, **H41** 152; herb to 2 m tall; known only from type; near Pekan, Ph; endemic.
- 248.1.3 ***Alpinia capitellata*** Jack, **FMP4** 283, **H41** 143, **S34** 40; herb 2–3 m tall; Pn, Pk.
- 248.1.4 ***Alpinia conchigera*** Griff., **FMP4** 278, **H41** 142, **S34** 41; herb to 120 cm tall; damp open places; widespread.
- 248.1.5 ***Alpinia corneri*** (Holttum) R.M. Sm., **S34** 65; *Cenolophon corneri* Holttum, **H41** 139; herb to 1.5 m tall; wet lowland forest, 150 m; only known from type; Bt Kajang, Tg; endemic.

- 248.1.6 **Alpinia denticulata** (Ridl.) Holttum, **H41** 143, **S34** 43; *Odontochium denticulatum* (Ridl.) K. Schum., **FMP4** 243; herb to 60 cm tall; hill forest; only known from near Lumut, Pk; endemic.
- 248.1.7 **Alpinia galanga** (L.) Sw., **FMP4** 279, **S34**; *Languas galanga* (L.) Stuntz, **H41** 157; tufted herb to 2 m tall or more; areas abandoned after cultivation; widespread; not native, escaped from cultivation.
- 248.1.8a **Alpinia javanica** Blume var. **javanica**, **FMP4** 283, **H41** 145; *Alpinia campanaria* Ridl., **FMP4** 283; herb to 3 m tall; open places in lowland forest; widespread.
- 248.1.8b **Alpinia javanica** Blume var. **colorata** Ridl., **FMP4** 283, **H41** 146; herb to 3 m tall; open places in lowland forest; Kinta Valley, Pk; endemic variety.
- 248.1.9 **Alpinia latilabris** Ridl., **FMP4** 282, **S34** 48; *Catimbinum latilabre* (Ridl.) Holttum, **H41** 153; herb to 3 m tall; lowland forest; Ph; endemic.
- 248.1.10 **Alpinia macrostephana** (Baker) Ridl., **FMP4** 284, **S34** 50; *Cenolophon macrostephanum* (Baker) Holttum, **H41** 135; herb to 3 m tall; hill forest; 120–240 m; only known from Larut, Pk; endemic.
- 248.1.11 **Alpinia malaccensis** (Burm.) Roscoe var. **nobilis** (Ridl.) I.M. Turner; **T24** 223; *Alpinia nobilis* Ridl., **FMP4** 282; *Catimbinum malaccense* (Burm.) Holttum var. *nobilis* (Ridl.) Holttum, **H39** 155; herb to 4 m tall; lowland forest; Ph, Sl.
- 248.1.12 **Alpinia mollissima** Ridl., **FMP5** 339, **S34** 51; *Cenolophon mollissimum* (Ridl.) Holttum, **H41** 138; herb to 120 cm tall; montane forest; Ph, Jh; endemic.
- 248.1.13 **Alpinia murdochii** Ridl., **FMP4** 280, **H41** 148, **S34** 51; herb to 1.5 m tall; montane forest about 1500 m; Ph, Sl; endemic.
- 248.1.14 **Alpinia mutica** Roxb., **FMP4** 279, **S34** 51; *Catimbinum muticum* (Roxb.) Holttum, **H41** 150; herb to 2 m; open damp places; Kd, Pn, Pk, Ph, Jh, Sp.
- 248.1.15 **Alpinia nutans** (L.) Roscoe, **S34** 52; *Catimbinum speciosum* (J.C. Wendl.) Holttum, **H41** 152; herb to 2 m tall; Ps, Kl.
- 248.1.16 **Alpinia oxymitra** K. Schum., **S34** 53; *Alpinia comosa* (non Jacq.) Ridl., **FMP4** 285; *Cenolophon oxymitrum* (K. Schum.) Holttum, **H41** 134; herb to 3 m tall; lowland and hill forest; Kd, Kl.
- 248.1.17 **Alpinia pahangensis** Ridl., **FMP4** 282, **H41** 146, **S34** 53; *Alpinia burkillii* M.R. Hend., **H34** 55; herb 2–3 m tall; lowland forest; Tg, Ph, NS, Jh; endemic.
- 248.1.18 **Alpinia petiolata** Baker, **FMP4** 284, **S34** 54; *Cenolophon petiolatum* (Baker) Holttum, **H41** 136; herb to 1.5 m tall; montane forests above 700 m; Pk, Ph, Sl, NS; endemic.

- 248.1.19 ***Alpinia pulcherrima*** Ridl., **FMP4** 284, **S34** 55; *Cenolophon pulcherrimum* (Ridl.) Holttum, **H41** 136; herb to 1.5 m tall; montane rain forest; Cameron Highlands, Ph; endemic.
- 248.1.20a ***Alpinia rafflesiana*** Wall. ex Baker var. ***rafflesiana***, **FMP4** 281, **H41** 144; *Alpinia aurantiaca* Ridl., **FMP4** 282; herb to 1.5 m tall; lowland and hill forest to 1200 m; common, widespread.
- 248.1.20b ***Alpinia rafflesiana*** Wall. ex Baker var. ***hirtior*** (Ridl.) Holttum, **H41** 145; *Alpinia aurantiaca* var. ***hirtior*** Ridl., **FMP4** 282; herb to 2 m tall; montane forest above 1200 m; Kd, Kl, Pk; endemic variety.
- 248.1.21 ***Alpinia scabra*** (Blume) Baker, **FMP4** 279, **S34** 57; *Languas scabra* (Blume) Burkill, **H41** 158; herb to 3 m tall; lowlands and hills; commonest at 300–900 m; widespread.
- 248.1.22 ***Alpinia seimundii*** Ridl., **FMP4** 280, **H41** 149, **S34** 57; montane forest herb; Ph; endemic.
- 248.1.23a ***Alpinia vitellina*** (Lindl.) Ridl. var. ***cannaefolia*** (Ridl.) I.M. Turner, **T24** 223; *Alpinia cannaefolia* Ridl., **FMP4** 285; *Cenolophon vitellinum* (Lindl.) Horan. var. ***cannaefolium*** (Ridl.) Holttum; **H41** 138; herb to 1.2 m tall; lowland and hill forest; Pn, Sl, NS.
- 248.1.23b ***Alpinia vitellina*** (Lindl.) Ridl. var. ***vitellina***, **FMP4** 284; *Cenolophon vitellinum* (Lindl.) Horan., **H41** 137; herb to 1.2 m tall; lowland and hill forest; Pn, Sl, Jh.
- 248.2.1 ***Amomum aculeatum*** Roxb., **H41** 212; *Amomum flavum* Ridl., **FMP4** 283; *Amomum aurantiacum* Ridl., **FMP4** 262; herb to 4 m tall; lowland forest; Pn.
- 248.2.2 ***Amomum biflorum*** Jack, **H41** 199; *Elettariopsis pubescens* Ridl., **FMP4** 275; herb to 1 m tall; lowland forest; Kd, Pn, Ph, Ml.
- 248.2.3 ***Amomum cephalotes*** Ridl., **FMP4** 264, **H41** 209; herb to about 2 m tall; damp lowland forest; Ph, Jh; endemic.
- 248.2.4 ***Amomum citrinum*** (Ridl.) Holttum, **H41** 207; *Conanomum citrinum* Ridl., **FMP4** 255; *Amomum cylindrostachys* Ridl., **FMP4** 265; stilt-rooted herb 3–4 m tall; montane forest; Pk, Sl; endemic.
- 248.2.5 ***Amomum cylindraceum*** Ridl., **FMP4** 265, **H41** 204; herb to 2 m tall; lowland forest; known only from type; Telok Sera, Dindings, Pk; endemic.
- 248.2.6 ***Amomum hastilabium*** Ridl., **FMP4** 266, **H41** 203; *Amomum holttunii* Ridl., **FMP4** 264; *Amomum xanthoglossum* Ridl., **FMP4** 263; herb to 2.5 m tall; lowland and hill forest; Kl, Pk, Ph, Sl, NS, Jh, Sp; ? endemic.

- 248.2.7 **Amomum lappaceum** Ridl., **FMP4** 263, **H41** 210; *Amomum perakense* Ridl., **FMP4** 266; stilt-rooted herb to about 3 m tall; montane forest at 750–1500 m; Pk, Ph, Sl; endemic.
- 248.2.8 **Amomum macrodous** Scort., **FMP4** 266 ‘*macrodons*’, **H41** 202; herb to 60 cm tall; lowland forest; poorly known; Pk; endemic.
- 248.2.9 **Amomum macroglossum** K. Schum., **H41** 200; stilt-rooted herb to 60 cm tall; montane forest at 900 m; Gg Padang, Tg.
- 248.2.10 **Amomum micranthum** Ridl., **FMP4** 267, **H41** 201; herb to 1 m tall; hill forest; Pn, Pk, Sl, NS; endemic.
- 248.2.11 **Amomum ochreum** Ridl., **FMP4** 264, **H41** 208; herb to nearly 5 m tall; hill forest at 700–1100 m; Kd, Ph, Sl, NS; endemic.
- 248.2.12 **Amomum rivale** Ridl., **FMP5** 338, **H41** 205; herb; known only from type; gorge of the Tras, near Raub, Ph; endemic.
- 248.2.13 **Amomum spiceum** Ridl., **FMP4** 263, **H41** 197; herb about 2 m tall; montane forest at about 750 m; NS, P, Tioman; endemic.
- 248.2.14 **Amomum squarrosus** Ridl., **FMP4** 265, **H41** 206; stilt-rooted herb to 4 m tall; lowland forest; Tg, Pk, Ml; endemic.
- 248.2.15 **Amomum testaceum** Ridl., **FMP4** 266, **H41** 205, **C16** 73; herb to 3 m tall; lowland forest, often on limestone; widespread, mostly in the north.
- 248.2.16 **Amomum uliginosum** J. König, **FMP4** 264, **H41** 213; herb to 3 m tall; lowland forest; Kd, Kl, Pn, Ph, Sl, Ml, Jh.
- 248.2.17 **Amomum utriculosum** (Ridl.) Holttum, **H41** 208; *Conamomum utriculosum* Ridl., **FMP4** 255; stilt-rooted herb to 2.5 m tall; montane forest at 1000–1200 m; Pk, Ph; endemic.
- 248.2.18 **Amomum xanthophlebium** Baker, **FMP4** 262, **H41** 198; herb to 5 m tall; lowland and montane forest to 1200 m; Pk, Ph, Sl, NS, Ml, Jh, Sp; endemic.
- 248.3.1 **Boesenbergia clivalis** (Ridl.) Schltr., **H41** 116; *Gastrochilus clivalis* Ridl., **FMP4** 249; *Gastrochilus puberulus* Ridl., **FMP4** 251; herb about 50 cm tall; lowland forest; Pk, Ph, Sl, Jh; endemic.
- 248.3.2 **Boesenbergia curtisii** (Baker) Schltr., **H41** 112, **C16** 73; *Gastrochilus curtisii* Baker, **FMP4** 249; *Gastrochilus acuta* Ridl., **FMP4** 249; herb to about 50 cm tall; forest on limestone; Ps, P, Langkawi, Ph.
- 248.3.3 **Boesenbergia flava** (Ridl.) Holttum, **H41** 113; *Gastrochilus flava* Ridl., **FMP4** 248; 4-leaved herb to about 30 cm tall; lowland forest; Pk; endemic.

- 248.3.4 **Boesenbergia longipes** (King & Prain *ex* Ridl.) Schltr., **H41** 114; *Gastrochilus longipes* King & Prain *ex* Ridl., **FMP4** 250; herb to 30 cm tall with 2 or 3 leaves; lowland forest; poorly known; Pk; endemic.
- 248.3.5a **Boesenbergia plicata** (Ridl.) Holttum var. **lurida** (Ridl.) Holttum, **H41** 110; *Gastrochilus luridus* Ridl., **FMP4** 248; tufted herb; only known from P. Langkawi.
- 248.3.5b **Boesenbergia plicata** (Ridl.) Holttum var. **plicata**, **H41** 109; *Gastrochilus plicatus* Ridl., **FMP4** 247; tufted herb about 40 cm tall; lowland forest to 800 m; Kl, Tg, Pk, Ph, Jh; endemic species.
- 248.3.6 **Boesenbergia prainiana** (Baker) Schltr., **H41** 111; *Gastrochilus prainiana* (Baker) Ridl., **FMP4** 248; *Gastrochilus albosanguineus* Ridl., **FMP4** 247; few-leaved herb to about 30 cm tall; lowland forest; Tg, Pk, Ph, Jh.
- 248.3.7 **Boesenbergia pulcherrima** (Wall.) Kuntze, **H41** 109; *Gastrochilus pulcherrima* Wall., **FMP4** 247; herb; collected once from Penang Hill.
- 248.3.8 **Boesenbergia rotundata** (L.) Mansf., **N11** 315; *Gastrochilus panduratus* (Roxb.) Ridl., **FMP4** 249; *Boesenbergia pandurata* (Roxb.) Schltr., **H41** 115; small herb; Pn, Pk; doubtfully wild, oft cultivated.
- 248.4.1 **Camptandra latifolia** Ridl., **FMP4** 243, **H41** 81; tufted herb to about 50 cm tall; montane forest at 900–1500 m; Pk, Ph; common at Cameron Highlands; endemic.
- 248.4.2 **Camptandra ovata** Ridl., **FMP4** 244, **H41** 81; *Camptandra tahanensis* Ridl., **FMP4** 244; herb about 20 cm tall; montane forest at 1200–2100 m; Sl, Ph; endemic.
- 248.4.3 **Camptandra parvula** (King *ex* Baker) Ridl., **FMP4** 243, **H41** 80; tufted herb about 15 cm tall; lowland and hill forest to 900 m, often on wet rocks; widespread.
- 248.5.1 **Curcuma aurantiaca** Zijp, **H41** 67; herb to 30 cm tall; collected once in a banana plantation; Besih Hangat, Ps.
- 248.5.2 **Curcuma parviflora** Wall., **H41** 68; few-leaved herb about 30 cm tall; collected once; Ps.
- 248.5.3 **Curcuma zeodaria** (Christm.) Roscoe, **FMP4** 254, **H41** 71; herb to about 1 m tall; waste ground.
- 248.6.1 **Elettaria longituba** (Ridl.) Holttum, **H41** 238; *Elettariopsis longituba* Ridl., **FMP4** 275; herb to about 3 m tall; lowland and hill forest; Tg, Pk, Ph, Sl; endemic.
- 248.7.1 **Elettariopsis burtiana** Y.K. Kam, **K01** 144; creeping herb to 50 cm tall; lowland forest; once from Pk; endemic.

- 248.7.2 **Elettariopsis curtisii** Baker, **FMP4** 274, **H41** 217, **K01** 142; *Elettariopsis latiflora* Ridl., **FMP4** 274; herb about 40 cm tall; lowland and hill forest to 900 m; Tg, Pn, Pk, Jh, Sp; endemic.
- 248.7.3 **Elettariopsis exserta** (Scort.) Baker, **FMP4** 274, **H41** 217, **K01** 141; herb; once collected in Pk; poorly known.
- 248.7.4a **Elettariopsis smithiae** Y.K. Kam var. **rugosa** Y.K. Kam, **K01** 150; creeping herb to 70 cm tall; lowland and hill forest; Sl; endemic.
- 248.7.4b **Elettariopsis smithiae** Y.K. Kam var. **smithiae**, **K01** 148; creeping herb to 70 cm tall; lowland and hill forest; Kd, Pk, Sl, NS, Jh; endemic.
- 248.7.5 **Elettariopsis triloba** (Gagnep.) Loes., **H41** 219, **K01** 146; herb to about 50 cm tall; mostly in the hills at 250–500 m; Ps, Kd, Pn, Pk, Ph, Sl, NS, Jh.
- 248.8.1 **Etlingera elatior** (Jack) R.M. Sm., **S33** 244; *Phaeomeria imperialis* Lindl., **FMP4** 272; *Phaeomeria speciosa* (Blume) Merr., **H41** 181; kantan, torch ginger; herb to 5 m tall; often cultivated, probably wild in lowland forests; widespread.
- 248.8.2 **Etlingera hemisphaerica** (Blume) R.M. Sm., **S33** 245; *Phaeomeria fulgens* (Ridl.) K. Schum., **FMP4** 272, **H41** 180; herb to 5 m tall; hill forest; Tg, Pk; endemic.
- 248.8.3 **Etlingera littoralis** (J. König) Giseke, **S33** 252; *Hornstedtia megalochaelos* (Griff.) Ridl., **FMP4** 270; *Achasma megalochaelos* Griff., **H41** 191; herb 3–6 m tall; common in damp lowland forests; throughout Peninsula.
- 248.8.4a **Etlingera maingayi** (Baker) R.M. Sm. var. **longibracteata** (Holtum) I.M. Turner, **T24** 223; *Phaeomeria maingayi* (Baker) K. Schum. var. *longibracteata* Holtum, **H41** 180; creeping, sometimes walking, herb to 3 m tall; lowland forest; Ph.
- 218.8.4b **Etlingera maingayi** (Baker) R.M. Sm. var. **maingayi**, **S33** 247; *Phaeomeria maingayi* (Baker) K. Schum., **FMP4** 272, **H41** 180; creeping, sometimes walking, herb to 3 m tall; lowland forest; widespread.
- 248.8.5a **Etlingera metriocheilos** (Griff.) R.M. Sm. var. **grandiflora** (Holtum) I.M. Turner, **T24** 223; *Achasma sphaerocephalum* (Baker) Holtum var. *grandiflora* Holtum, **H41** 191; herb; lowland and hill forest.
- 248.8.5b **Etlingera metriocheilos** (Griff.) R.M. Sm. var. **major** (Holtum) I.M. Turner, **T24** 223; *Achasma sphaerocephalum* (Baker) Holtum var. *majus* Holtum, **H41** 190; herb; lowland and hill forest.
- 248.8.5c **Etlingera metriocheilos** (Griff.) R.M. Sm. var. **metriocheilos**, **S33** 247; *Hornstedtia albomarginata* Ridl., **FMP4** 269; *Achasma sphaerocephalum* (Baker) Holtum, **H41** 189; herb to 4m tall; lowland and hill forest; widespread.

- 248.8.5d **Etlingera metriocheilos** (Griff.) R.M. Sm. var. **petiolata** (Holtum) I.M. Turner, **T24** 223; *Achasma sphaerocephalum* (Baker) Holtum var. *petiolatum* Holtum, **H41** 191; herb; lowland and hill forest.
- 248.8.5e **Etlingera metriocheilos** (Griff.) R.M. Sm. var. **rubrostriata** (Holtum) I.M. Turner, **T24** 223 *Achasma sphaerocephalum* (Baker) Holtum var. *rubrostriatum* Holtum, **H41** 191; herb; lowland and hill forest.
- 248.8.6 **Etlingera pauciflora** (Ridl.) R.M. Sm., **S33** 248; *Hornstedtia pauciflora* Ridl., **FMP4** 270; *Achasma pauciflora* (Ridl.) Holtum, **H41** 187; herb to 4 m tall; forests, sometimes on limestone; Tg, Sl, Jh; endemic.
- 248.8.7 **Etlingera punicea** (Roxb.) R.M. Sm., **S33** 249; *Hornstedtia macrocheilos* (Griff.) Ridl., **FMP4** 271; *Hornstedtia metriocheilos sensu* Ridl., **FMP4** 271; *Achasma macrocheilos* Griff., **H41** 188; herb 2–4 m high; common at forest edges and near forest streams in lowlands; throughout Malaya.
- 248.8.8 **Etlingera subterranea** (Holtum) R.M. Sm., **S33** 250; *Achasma subterraneum* Holtum, **H41** 187; herb to 3 m tall; montane rain forest about 1500 m; Cameron Highlands, Ph; endemic.
- 248.8.9 **Etlingera triorgyalis** (Baker) R.M. Sm., **S33** 250; *Hornstedtia triorgyalis* (Baker) Ridl., **FMP4** 269; *Achasma triorgyale* (Baker) Holtum, **H41** 186; herb to 5 m or more tall; lowland forest, sometimes on limestone; Pk, Sl; endemic.
- 248.8.10 **Etlingera venusta** (Ridl.) R.M. Sm., **S33** 250; *Phaeomeria venusta* (Ridl.) K.Schum., **FMP4** 272, **H41** 182; herb to 4 m tall; lowland and hill forest; Tg, Pk, Sl, Jh.
- 248.9.1 **Geocharis aurantiaca** Ridl., **FMP4** 273, **H41** 222; herb to 2 m tall; fresh-water swamp forest; Jh.
- 248.9.2 **Geocharis secundiflora** (Ridl.) Holtum, **H41** 223; *Alpinia secundiflora* Ridl., **FMP4** 278; herb to 2 m tall; hill forest at about 600 m; Kl, Sl, NS; endemic.
- 248.10.1 **Geostachys decurvata** (Baker) Ridl., **FMP4** 276, **H41** 234; herb to 1.5 m tall; montane forest at 900–1200 m; Pk; endemic.
- 248.10.2 **Geostachys densiflora** Ridl., **FMP4** 276, **H41** 234; tufted stilt-rooted herb to 1 m tall; montane forest at 1200–1500 m; Pk, Ph; endemic.
- 248.10.3 **Geostachys elegans** Ridl., **FMP4** 277, **H41** 227; tufted stilt-rooted herb to 1.5 m tall; montane forest at 1100–2100 m; Ph, Ml; endemic.
- 248.10.4 **Geostachys leucantha** B.C. Stone, **S50** 77; stilt-rooted herb to 3 m tall; upper montane forest at 1750 m; summit of Gg Ulu Kali, Ph; endemic.
- 248.10.5 **Geostachys megaphylla** Holtum, **H41** 228; herb to 3 m tall; montane forest; only known from type; Gg Batu Brinchang, Ph; endemic.

- 248.10.6 ***Geostachys montana*** (Ridl.) Holttum, **H41** 229; *Carenophila montana* Ridl., **FMP4** 256; herb to 1.5 m tall; montane forest; known only from type; summit of Gg Berembun, Ph; endemic.
- 248.10.7 ***Geostachys penangensis*** Ridl., **FMP4** 276, **H41** 231; herb to about 60 cm tall; hill forest usually about 600 m; Pn, Ph.
- 248.10.8 ***Geostachys primulina*** Ridl., **FMP4** 277, **H41** 233; herb; montane forest; known only from type; Semangkok Pass, Sl; endemic.
- 248.10.9 ***Geostachys rupestris*** Ridl., **FMP4** 276, **H41** 231; stilt-rooted herb about 1 m tall; montane forest at 900–1200 m; only known from Gg Jerai, Kd; endemic.
- 248.10.10 ***Geostachys secunda*** (Baker) Ridl., **FMP4** 276, **H41** 233; herb about 50 cm tall; rocky places in the mountains; Pk; endemic.
- 248.10.11 ***Geostachys sericea*** (Ridl.) Holttum, **H41** 229; *Conanomum sericeum* Ridl., **FMP4** 255; stilt-rooted herb to 2 m tall; montane forest at above 1500 m; only known from Gg Tahan, Ph; endemic.
- 248.10.12 ***Geostachys tahanensis*** Holttum, **H41** 232; herb about 50 cm tall; montane forest at about 1000 m; only known from Gg Tahan, Ph; endemic.
- 248.10.13 ***Geostachys taipingensis*** Holttum, **H41** 230; herb; hill forest; only known from Taiping Hills, Pk; endemic.
- 248.11.1a ***Globba albiflora*** Ridl. var. ***albiflora***, **FMP4** 237, **H41** 31, **L22** 263; herb to 80 cm tall; hill forest; known only from Penang Hill; endemic.
- 248.11.1b ***Globba albiflora*** Ridl. var. ***aurea*** Holttum, **H41** 32, **L22** 263; herb to 80 cm tall; forest on limestone; known only from Gua Lambok, Kl; endemic.
- 248.11.2a ***Globba cernua*** Baker ssp. ***cernua***, **FMP4** 240, **H41** 32, **L22** 249; *Globba macranthera* Ridl., **FMP4** 240; *Globba brachycarpa* Baker, **FMP4** 240; herb about 70 cm tall; lowland and hill forest; common on the Main Range; endemic species.
- 248.11.2b ***Globba cernua*** Baker ssp. ***crocea*** S.N. Lim, **L22** 250; herb; lowland forest; known only from Jenka, Ph; endemic subspecies.
- 248.11.2c ***Globba cernua*** Baker ssp. ***porphyria*** S.N. Lim, **L22** 251; herb; on shaded rocks in hill forest at about 400 m; only known from Bujang Melaka, Pk; endemic subspecies.
- 248.11.3 ***Globba corneri*** A. Weber, **W05** 1; *Globba unifolia* Ridl. var. ***sessiliflora*** Holttum, **H41** 34, **L22** 252; herb to 30 cm tall; lowland and hill forest; ?Kl, Tg; endemic.

- 248.11.4 **Globba curtisii** Holttum, **H41** 35, **L22** 254; herb about 60 cm tall; damp spots in hill forest at 600–1200 m, often near streams; Ph, Sl; endemic.
- 248.11.5 **Globba fasciata** Ridl., **FMP4** 236, **H41** 28, **L22** 263, **C16** 74; herb to 1 m tall; on limestone; Ph, Kl; endemic.
- 248.11.6 **Globba fragilis** S.N. Lim, **L22** 252, **C16** 74; tufted herb to 50 cm tall; near shaded lowland forest stream; only known from type; P. Langkawi; endemic.
- 248.11.7a **Globba holttumii** S.N. Lim ssp. **aurea** S.N. Lim, **L22** 257; herb to about 70 cm tall; lowland and hill forest; Sl, Jh; endemic species.
- 248.11.7b **Globba holttumii** S.N. Lim ssp. **holttumii**, **L22** 255; herb to about 70 cm tall; near streams in hill forest at 600–1200 m; Ph, Sl; endemic species.
- 248.11.8 **Globba x intermedia** S.N. Lim, **L22** 257; herb to 1 m tall; damp shady places in montane forest at 1300–1500 m; Ph, NS; endemic hybrid.
- 248.11.9a **Globba leucantha** Miq. var. **bicolor** Holttum, **H41** 27, **L22** 268; *Globba regalis* Ridl., **FMP4** 237; herb to 1 m tall; lowland and hill forests; Kl, Tg, Ph.
- 248.11.9b **Globba leucantha** Miq. var. **flavidula** (Ridl.) Holttum, **H41** 28, **L22** 268; *Globba flavidula* Ridl., **FMP45** 338; herb to 1 m tall; known only from type; Ulu Sg Merapoh, Ph; endemic variety.
- 248.11.9c **Globba leucantha** Miq. var. **peninsularis** Holttum, **L22** 267; *Globba leucantha* Miq., **FMP4** 238, **H41** 26; herb to 1 m tall; lowland forest; Tg & Pk southward; endemic variety.
- 248.11.9d **Globba leucantha** Miq. var. **violacea** (Ridl.) Holttum, **H41** 27, **L22** 268; *Globba violacea* Ridl., **FMP4** 239; herb to 1 m tall; lowland and hill forest; Pk southward; endemic variety.
- 248.11.10 **Globba marantina** L., **FMP4** 241, **H41** 25, **L22** 247; herb to 50 cm tall, rarely flowering; open dry lowland sites; north of Peninsula and east coast.
- 248.11.11 **Globba nawawii** H. Ibrahim & K. Larsen, **I01** 157; herb to 40 cm tall; riverbank in lowland forest; Sg Pertang, Hulu Dugun, Tg; endemic.
- 248.11.12a **Globba patens** Miq. var. **costulata** S.N. Lim, **L22** 260; herb about 60 cm tall; lowland and hill forest; Ph, Sl; endemic variety.
- 248.11.12b **Globba patens** Miq. var. **patens**, **L22** 259; *Globba aurantiaca* (non Miq.) K. Schum., **FMP4** 239, **H41** 36; herb to about 60 cm tall; lowland and hill forest; Pn southwards to Jh.
- 248.11.13a **Globba pendula** Roxb. ssp. **montana** (Ridl.) S.N. Lim, **L22** 266; *Globba montana* Ridl., **FMP4** 236; herb to 1 m tall; lowland and hill forest; Kd, Pg; endemic subspecies.

- 248.11.13b **Globba pendula** Roxb. ssp. **pendula** var. **elegans** (Ridl.) Holttum, **H41** 29, **L22** 265; *Globba elegans* Ridl., **FMP4** 237; herb to 1 m tall; damp shady places; Pk, Ph; endemic variety.
- 248.11.13c **Globba pendula** Roxb. ssp. **pendula** var. **pendula**, **FMP4** 236 (as *Globba pendula*), **H41** 29, **L22** 264; *Globba panicoides* Miq., **FMP4** 235; *Globba uliginosa* Miq., **FMP4** 235; *Globba valida* Ridl., **FMP4** 236; *Globba wallichii* Baker, **FMP4** 235; herb to 1 m tall; lowland and hill forests to 1200 m under deep damp shade; common throughout.
- 248.11.14b **Globba unifolia** Ridl., **FMP4** 240, **H41** 33, **L22** 252; herb to 30 cm tall; lowland and montane forest; Kl, Tg; endemic species.
- 248.11.15a **Globba variabilis** Ridl. ssp. **pusilla** S.N. Lim, **L22** 261; herb to 30 cm tall; lowland and hill forest; Jh; endemic.
- 248.11.15b **Globba variabilis** Ridl. ssp. **variabilis**, **FMP4** 239, **H41** 37, **L22** 261; *Globba malaccensis* Ridl., **FMP4** 237; *Globba perakensis* Ridl., **FMP4** 239; herb to 50 cm tall; damp shady places in lowland and hill forest; Pk southward; endemic.
- 248.12.1 **Haniffia cyanescens** (Ridl.) Holttum, **H41** 124; *Kaempferia cyanescens* (Ridl.) Ridl., **FMP4** 246; herb to 80 cm tall; montane forest; Kd, NS.
- 248.13.1 **Hedychium chrysoleucum** Hook., **H41** 74; herb about 1 m tall; Kl, Pg; possibly escapes from cultivation.
- 248.13.2 **Hedychium collinum** Ridl., **FMP4** 241, **H41** 75; herb about 1 m tall; rocky places in montane forest at about 1300 m; Kd, Ph; endemic.
- 248.13.3 **Hedychium hirsutissimum** Holttum, **H41** 76; herb possibly epiphytic; montane forest 1200 m; only known from type; Taiping Hill, Pk; endemic.
- 248.13.4 **Hedychium longicornutum** Baker, **FMP4** 242, **H41** 77; herbaceous epiphyte about 60 cm tall; low down on trees in lowland and hill forest; throughout except Sp.
- 248.13.5 **Hedychium macrorrhizum** Ridl., **FMP4** 242, **H41** 76; herbaceous epiphyte; on tall trees; only known from type; Semangkok Pass, Sl; endemic.
- 248.13.6 **Hedychium malayanum** Ridl., **FMP4** 241, **H41** 75; herb; montane forest at 1200–1500 m; Ph; endemic.
- 248.13.7 **Hedychium paludosum** M.R. Hend., **H41** 77; herb to 1.5 m tall; *Sphagnum* bogs in the mountains at about 1500 m; Cameron Highlands, Ph; endemic.
- 248.14.1 **Hornstedtia conica** Ridl., **FMP4** 268, **H41** 175; herb 2–3 m tall; lowland and hill forest; Tg, Sl, Jh, Sp; ? endemic.

- 248.14.2 **Hornstedtia leonurus** (J. König) Retz., **FMP4** 269, **H41** 177; herb to 5 m tall; lowland forest; Ph, Ml, Jh, Sp; endemic.
- 248.14.3 **Hornstedtia ophiuchus** (Ridl.) Ridl., **FMP4** 268, **H41** 176; herb to 4 m tall; lowland forest; known only from type; Sg Tahan, Ph; endemic.
- 248.14.4 **Hornstedtia phaeocoana** (K. Schum.) K. Schum., **H41** 174; herb to 2 m tall or more; lowland forest; once collected at Sg Sedili, Jh.
- 248.14.5 **Hornstedtia pusilla** Ridl., **FMP4** 269, **H41** 174; herb about 40 cm tall; lowland forest; known only from type; Kuala Tembeling, Ph; endemic.
- 248.14.6a **Hornstedtia scyphifera** (J. König) Steud. var. **fusiformis** Holttum, **H41** 171; stilt-rooted herb 2–3 m tall; lowland forest; Kl, Tg, Sl; endemic variety.
- 248.14.6b **Hornstedtia scyphifera** (J. König) Steud. var. **grandis** (Ridl.) Holttum, **H41** 172; *Hornstedtia grandis* Ridl., **FMP4** 268; stilt-rooted herb about 3 m tall; montane forest at about 1200 m; Pk, Ph.
- 248.14.6c **Hornstedtia scyphifera** (J. König) Steud. var. **scyphifera**, **H41** 170; *Hornstedtia scyphus* Retz., **FMP4** 267; herb 2–5 m tall; lowland and montane forest to 1100 m; Tg, Ph, Sl, Jh, Sp.
- 248.14.7 **Hornstedtia striolata** Ridl., **FMP4** 268, **H41** 173; herb; montane forest; known only from type; Ulu Semangkok, Sl; endemic.
- 248.15.1 **Kaempferia elegans** (Wall.) Baker, **FMP4** 245, **H41** 123; few-leaved herb; on limestone rocks; Kd, P. Langkawi.
- 248.15.2 **Kaempferia pulchra** (Ridl.) Ridl., **FMP4** 245, **H41** 122; small flat few-leaved herb; on limestone rocks; P. Langkawi.
- 248.16.1 **Plagiostachys albiflora** Ridl., **FMP4** 273, **H41** 164; herb to 2 m tall (Ridl); moist lowland forest; Tg, Pk, Jh; endemic.
- 248.16.2 **Plagiostachys lateralis** Ridl., **FMP4** 273, **H41** 161; herb about 2 m tall; lowland forest; Ph, Jh, Sp; endemic.
- 248.16.3 **Plagiostachys mucida** Holttum, **H41** 162; herb to 3 m tall; wet lowland forest; Kl, Pk, Sl, NS, Ml, Jh, Sp; endemic.
- 248.17.1 **Scaphochlamys atroviridis** Holttum, **H41** 93; herb about 25 cm tall; lowland forest; Tg, Ml; endemic.
- 248.17.2a **Scaphochlamys biloba** (Ridl.) Holttum var. **biloba**, **H41** 89; *Gastrochilus bilobus* Ridl., **FMP4** 251; creeping herb about 30 cm tall; shady lowland forest; Kl, Ph; endemic.

- 248.17.2b **Scaphochlamys biloba** (Ridl.) Holttum var. **lanceolata** (Ridl.) Holttum, **H41** 90; *Gastrochilus minor* (*non* Baker) Ridl., **FMP4** 252; creeping herb about 30 cm tall; shady lowland forest; Pk; endemic.
- 248.17.3 **Scaphochlamys breviscapa** Holttum, **H41** 95; creeping herb to 20 cm tall; hill forest; only known from type; Ulu Bendong, Tg; endemic.
- 248.17.4 **Scaphochlamys burkillii** Holttum, **H41** 102; stilt-rooted herb to 30 cm tall; lowland forest; Ph; endemic.
- 248.17.5 **Scaphochlamys concinna** (Baker) Holttum, **H41** 94; *Gastrochilus concinnus* (Baker) Ridl., **FMP4** 251; creeping herb to 20 cm tall; only known from type; Ulu Bubong, Pk; endemic.
- 248.17.6 **Scaphochlamys erecta** Holttum, **H41** 99; herb to 60 cm tall; in thick litter of lowland forest; only known from Sg Sedili, Jh; endemic.
- 248.17.7 **Scaphochlamys grandis** Holttum, **H41** 101; stilt-rooted herb about 1 m tall; swampy lowland forest; only known from type locality; Ulu Bendong, Tg; endemic.
- 248.17.8a **Scaphochlamys klossii** (Ridl.) Holttum var. **glomerata** Holttum, **H41** 101; creeping herb; lowland forest; only known from Gg Panti, Jh; endemic species and variety.
- 248.17.8b **Scaphochlamys klossii** (Ridl.) Holttum var. **klossii**, **H41** 100; *Gastrochilus klossii* Ridl., **FMP4** 248; creeping herb; lowland forest; only known from S.E. Jh; endemic.
- 248.17.8c **Scaphochlamys klossii** (Ridl.) Holttum var. **minor** Holttum, **H41** 101; creeping herb; lowland and hill forest; only known from S.E. Jh; endemic.
- 248.17.9a **Scaphochlamys kunstleri** (Baker) Holttum var. **kunstleri**, **H41** 96; *Hitcheniopsis kunstleri* (Baker) Ridl., **FMP4** 252; creeping herb about 20 cm tall; lowland and hill forest; Pk; endemic.
- 248.17.9b **Scaphochlamys kunstleri** (Baker) Holttum var. **rubra** (Ridl.) Holttum, **H41** 97; *Hitcheniopsis kunstleri* (Baker) Ridl. var. **rubra** Ridl., **FMP4** 253; creeping herb; lowland forest; Pk; endemic.
- 248.17.10 **Scaphochlamys lanceolata** (Ridl.) Holttum, **H41** 99; *Gastrochilus lanceolatus* Ridl., **FMP4** 250; creeping herb to about 15 cm tall; lowland forest; known only from type; Gg Panti, Jh; endemic.
- 248.17.11 **Scaphochlamys longifolia** (Ridl.) Holttum, **H41** 91; *Gastrochilus longifolius* Ridl., **FMP4** 252; creeping herb about 25 cm tall; hill forest; only known from Ulu Gombak, Sl; endemic.

- 248.17.12 **Scaphochlamys malaccana** Baker, **H41** 104; *Gastrochilus scaphochlamys* Ridl., **FMP4** 250; *Gastrochilus lancifolius* Ridl., **FMP4** 250; stilt-rooted herb to 20 cm tall; lowland and hill forest to 800 m; NS, MI, Jh; endemic.
- 248.17.13 **Scaphochlamys oculata** (Ridl.) Holttum, **H41** 92; *Gastrochilus oculatus* Ridl., **FMP4** 251; creeping herb about 10 cm tall; hill forest at 250–500 m; SI, Jh; endemic.
- 248.17.14 **Scaphochlamys pennipicta** Holttum, **H41** 93; creeping herb to 30 cm tall; montane forest at about 1200 m; known only from type; Fraser's Hill, Ph; endemic.
- 248.17.15 **Scaphochlamys perakensis** Holttum, **H41** 97; *Hitcheniopsis lanceolata* (Ridl.) Ridl., **FMP4** 253; creeping herb to 50 cm tall; wet spots in forest; Pk; endemic.
- 248.17.16 **Scaphochlamys rubromaculata** Holttum, **H41** 103; stilt-rooted herb to 30 cm tall; lowland forest at 200 m; known only from type locality; Ulu Bendong, Tg; endemic.
- 248.17.17 **Scaphochlamys sub-biloba** (Burkill ex Ridl.) Holttum, **H41** 105; *Gastrochilus sub-bilobus* Burkill ex Ridl., **FMP4** 250; creeping herb to about 30 cm tall; lowland and hill forest to 600 m; known only from P. Tioman, Ph; endemic.
- 248.17.18 **Scaphochlamys sylvestris** (Ridl.) Holttum, **H41** 91; *Hitcheniopsis sylvestris* (Ridl.) Ridl., **FMP4** 253; creeping herb about 40 cm tall; hill forest at 400–800 m; Ph; endemic.
- 248.17.19 **Scaphochlamys tenuis** Holttum, **H41** 98; herb to 30 cm tall; lowland forest; known only from type; Sg Nipa, Tg; endemic.
- 248.17.20 **Scaphochlamys sp.**, **H41** 89; creeping herb; lowland forest; only known from Karak F. R., Ph; endemic.
- 248.18.1 **Zingiber chrysostachys** Ridl., **FMP4** 260, **H41** 55; herb to 1 m tall; lowland and hill forest to 900 m; Kd, Pk; endemic.
- 248.18.2 **Zingiber curtisii** Holttum, **H41** 54; herb to 1 m tall; hill forest; only known from type; Gg Bujong Malacca, Pk; endemic.
- 248.18.3a **Zingiber gracile** Jack var. **aurantiacum** Holttum, **H41** 65; herb to 2 m tall; hill and montane forest to 1100 m; Ph, SI, NS; endemic.
- 248.18.3b **Zingiber gracile** Jack var. **elatio** Ridl., **FMP4** 260, **H41** 64; herb to 1.5 m tall; hill and montane forest to 1100 m; Pn, Pk, SI, Jh; endemic.
- 248.18.3c **Zingiber gracile** Jack var. **gracile**, **FMP4** 260, **H41** 63; herb to 1 m tall; lowland forest; Kd, Pn, Ph, SI, NS, Jh; endemic.

- 248.18.3d **Zingiber gracile** Jack var. **petiolatum** Holttum, **H41** 64; herb to 2.5 m tall; lowland forest to 300 m; Kd, Ph, Sl; endemic.
- 248.18.4 **Zingiber griffithii** Baker, **FMP4** 260, **H41** 60; *Zingiber citrinum* Ridl., **FMP4** 260; herb to 70 cm tall; lowland forest; common in south of the Peninsula.
- 248.18.5 **Zingiber kunstleri** King, **FMP4** 258, **H41** 52; herb to 2 m tall; lowland and hill forest; Tg, Pk, Ph; endemic.
- 248.18.6a **Zingiber multibracteatum** Holttum var. **multibracteatum**, **H41** 57; herb to 3 m tall; montane forest about 1200 m; Ph; endemic.
- 248.18.6b **Zingiber multibracteatum** Holttum var. **viride** Holttum, **H41** 58; herb to 3 m tall; montane forest about 1200 m; known only from type; Tanah Rata, Ph; endemic.
- 248.18.7a **Zingiber puberulum** Ridl. var. **chryseum** (Ridl.) Holttum, **H41** 62; *Zingiber chryseum* Ridl., **FMP4** 260; herb to 3 m tall; damp lowland forest; Jh, Sp; endemic variety.
- 248.18.7b **Zingiber puberulum** Ridl. var. **ovoideum** Holttum, **H41** 63; herb 1–3 m tall; lowland forest; Kl, Pk, Ph; endemic variety.
- 248.18.7c **Zingiber puberulum** Ridl. var. **puberulum**, **FMP4** 261, **H41** 61; *Zingiber griffithii* Baker var. *major* Ridl., **FMP4** 261; herb 1–3 m tall; lowland forests; common in south; Kl, Tg, Pn, Pk, Ph, Sl, Sp; endemic variety.
- 248.18.8 **Zingiber spectabile** Griff., **FMP4** 258, **H41** 56; herb about 2 m tall; lowland forests; NS northward.
- 248.18.9 **Zingiber sulphureum** Burkill ex I. Theilade, Curtis's Bot. Mag. 12 (1995) 75; herb to 0.7 m tall; lowland forest on limestone or granite; Ph; endemic.
- 248.18.10 **Zingiber wrayi** Prain ex Ridl., **FMP4** 259, **H41** 53; herb to 2 m tall; lowland forest; Tg, Pk, Ph, Jh; endemic.

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Abdulmajidia	120.1	Agathis	35.1	Anacardium	45.1
Abelmoschus	131.1	Agelaea	79.1	Anacolosa	149.1
Abroma	187.1	Ageratum	78.4	Anadendrum	207.6
Abrus	122.1	Aglaia	133.1	Anaxagorea	48.2
Abutilon	131.2	Aglaodorum	207.1	Ancistrocladus	46.1
Acacia	122.2	Aglaomorpha	28.1	Andrographis	39.2
Acalypha	101.1	Aglaonema	207.2	Androtium	45.2
Acampe	233.2	Agrostistachys	101.3	Anemone	171.1
Acanthephippium	233.3	Agrostophyllum	233.7	Anerincleistus	132.1
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Acanthus	39.1	Aidiopsis	175.3	Aniseia	80.1
Acer	40.1	Ailanthus	184.1	Anisomeles	118.3
Achyranthes	44.1	Ainia	233.8	Anisophyllea	47.1
Acmella	78.2	Ainsliaea	78.5	Anisoptera	92.1
Acmena	143.1	Alangium	43.1	Anneslea	192.2
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Acrymia	118.2	Alphonsea	48.1	Apodytes	113.1
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Adenia	155.1	Alyxia	49.3	Aralidium	52.1
Adenosma	183.1	Amaranthus	44.4	Arcangelisia	135.2
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Aerides	233.6	Ampelocissus	203.1	Argusia	61.1
Aeschynanthus	105.1	Ampelopsis	203.2	Argyreia	80.2
Aeschynomene	122.4	Ampelopteris	32.1	Arisaema	207.7
Agalmyla	105.2	Amphineuron	32.2	Aristida	220.5
Aganope	122.5	Amydrium	207.5	Aristolochia	53.1
Aganosma	49.1	Amyema	127.1	Arnicratea	73.1

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Artanema	183.3	Bhesa	73.2	Buxus	64.1
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Arthrophyllum	51.2	Biermannia	233.19	Caesalpinia	122.11
Arthropteris	23.1	Biophytum	153.2	Cajanus	122.12
Artocarpus	139.2	Bischofia	101.11	Calamus	234.4
Arundinella	220.7	Blachia	101.12	Calanthe	233.23
Arytera	180.3	Blastus	132.3	Callerya	122.13
Ascidieria	233.15	Blechnum	8.1	Callicarpa	200.1
Asclepias	54.1	Bleekrodea	139.3	Calophyllum	107.1
Ascocentrum	233.16	Blumea	78.7	Calopogonium	122.14
Ascochilopsis	233.17	Blumeodendron	101.13	Calospatha	234.5
Ascochilus	233.18	Blyxa	222.1	Calotropis	54.3
Ashtonia	101.7	Boea	105.3	Calymmodon	17.2
Asparagus	208.1	Boehmeria	199.1	Camposperma	45.5
Aspidopteris	130.1	Boeica	105.4	Camptandra	248.4
Asplenium	6.1	Boerhavia	146.1	Campylospermum	148.2
Astronia	132.2	Boesenbergia	248.3	Cananga	48.4
Asystasia	39.3	Bolbitis	19.1	Canarium	63.1
Atalantia	176.2	Bombax	60.1	Canavalia	122.15
Atherandra	54.2	Bonamia	80.3	Canna	210.1
Athyrium	34.2	Borassodendron	234.3	Canscora	104.1
Atuna	75.1	Bothriochloa	220.10	Cansjera	152.1
Austrobuxus	101.8	Botrychium	24.1	Canthium	175.8
Averrhoa	153.1	Botryophora	101.14	Cantleya	113.2
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Axonopus	220.8	Brachypeza	233.20	Carallia	173.2
Azadirachta	133.3	Brachytome	175.7	Cardamine	83.2
Azolla	7.1	Brackenridgea	148.1	Cardiopteris	69.1
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Baeckea	143.2	Brassica	83.1	Careya	120.3
Balanophora	56.1	Breynia	101.15	Carmona	61.2
Baliospermum	101.10	Bridelia	101.16	Caryota	234.6
Bambusa	220.9	Briza	220.11	Casearia	103.1
Barathranthus	127.3	Bromheadia	233.21	Cassia	122.16
Barclaya	147.1	Browallia	185.1	Cassine	73.3
Barleria	39.4	Brownlowia	194.2	Cassytha	119.4
Barringtonia	120.2	Brucea	184.2	Castanopsis	102.1
Basilicum	118.4	Bruguiera	173.1	Casuarina	71.1
Bauhinia	122.9	Buchanania	45.4	Catharanthus	49.6
Beaumontia	49.5	Buddleja	62.1	Catunaregam	175.9
Begonia	58.1	Bulbophyllum	233.22	Cayratia	203.3
Beilschmiedia	119.3	Bulbostylis	215.3	Cecropia	72.1
Belosynapsis	211.2	Burkillanthus	176.3	Celastrus	73.4
Belvisia	28.2	Burkilliodendron	122.10	Celosia	44.5

Celtis	197.1	Chrysophyllum	181.1	Complaya	78.10
Cenchrus	220.13	Chrysopogon	220.16	Congea	200.3
Centella	198.1	Chukrasia	133.5	Coniogramme	5.3
Centipeda	78.8	Cibotium	13.1	Connarus	79.3
Centotheca	220.14	Cinnadenia	119.5	Conyza	78.11
Centranthera	183.5	Cinnamomum	119.6	Coptophyllum	175.13
Centrosema	122.17	Cipadessa	133.6	Coptosapelta	175.14
Cephalantheropsis	233.24	Cirrhopetalum	233.31	Corchorus	194.4
Cephalomanes	18.1	Cissus	203.4	Cordia	61.4
Cephalomappa	101.17	Citrus	176.4	Cordiglottis	233.37
Cerastium	70.1	Claderia	233.32	Corybas	233.38
Ceratolobus	234.7	Cladogynos	101.21	Corymborkis	233.39
Ceratopteris	26.1	Claoxylon	101.22	Corypha	234.9
Ceratostylis	233.25	Clausena	176.5	Coryphopteris	32.5
Cerbera	49.7	Cleghornia	49.10	Coscinium	135.4
Ceriops	173.3	Cleidion	101.23	Cosmianthemum	39.6
Ceriscoides	175.10	Cleisomeria	233.33	Costus	213.1
Ceropegia	54.4	Cleisostoma	233.34	Cotylelobium	92.2
Chaetocarpus	101.18	Cleistanthus	101.24	Crassocephalum	78.12
Chamaecrista	122.18	Cleistocalyx	143.3	Crateva	67.3
Champereia	152.2	Clematis	171.2	Cratoxylum	107.2
Chassalia	175.11	Cleome	67.2	Crawfurdia	104.2
Cheilanthes	5.2	Clerodendrum	200.2	Creochiton	132.5
Cheilosa	101.19	Clethra	76.1	Crepidomanes	18.2
Cheilotheca	98.2	Clidemia	132.4	Crinum	205.1
Cheiropleuria	9.1	Clitorea	122.20	Crotalaria	122.22
Cheirostylis	233.26	Cnesmone	101.25	Croton	101.26
Chelonistele	233.27	Cnestis	79.2	Crudia	122.23
Chilocarpus	49.8	Cocculus	135.3	Crypteronia	84.2
Chiloschista	233.28	Cocos	234.8	Cryptocarya	119.7
Chingia	32.3	Codariocalyx	122.21	Cryptocoryne	207.9
Chionanthus	150.1	Codonopsis	66.1	Cryptolepis	54.5
Chirita	105.5	Coelanchne	220.17	Cryptostylis	233.40
Chisocheton	133.4	Coelogyne	233.35	Ctenitis	15.3
Chloranthus	74.1	Coelospermum	175.12	Ctenolophon	85.1
Chlorophytum	206.1	Coelostegia	60.2	Ctenopteris	17.3
Chondrostylis	101.20	Coix	220.18	Cuphea	128.2
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Christensenia	20.2	Colocasia	207.8	Cyanotis	211.4
Christia	122.19	Colona	194.3	Cyathea	10.1
Christisonia	183.6	Colubrina	172.1	Cyathocalyx	48.5
Chroesthes	39.5	Colysis	28.3	Cyathostemma	48.6
Chromolaena	78.9	Combretocarpus	47.2	Cyathula	44.6
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Chrysobalanus	75.2	Commelina	211.3	Cyclea	135.5
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Cymaria	118.5	Dialium	122.30	Dodonaea	180.6
Cymbidium	233.41	Dianella	237.1	Dolichandrone	59.2
Cymbopogon	220.19	Dichanthium	220.24	Donax	230.1
Cymodocea	214.1	Dichapetalum	90.1	Doritis	233.52
Cynanchum	54.6	Dichroa	111.1	Doryopteris	5.4
Cynodon	220.20	Dichrocephala	78.13	Dracaena	217.1
Cynometra	122.24	Dicliptera	39.7	Dracontomelon	45.6
Cyperus	215.5	Dicoelia	101.27	Dregea	54.8
Cyrtandra	105.6	Dicranopteris	16.1	Drimycarpus	45.7
Cyrtandromoea	183.7	Dictyospermum	211.5	Drosera	93.1
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Cyrtosia	233.42	Didymocarpus	105.8	Drynaria	28.4
Cyrtosperma	207.10	Didymochlaena	15.5	Dryobalanops	92.4
Cyrtostachys	234.10	Didymoplexiella	233.46	Dryopteris	15.6
Cystorchis	233.43	Didymoplexis	233.47	Drypetes	101.29
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Dalbergia	122.25	Dimocarpus	180.5	Dysoxylum	133.7
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Debregeasia	199.2	Dioscorea	216.1	Eichhornia	238.1
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Deeringia	44.7	Diplacrum	215.6	Elaeocarpus	96.1
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Dendrobium	233.44	Diplazium	34.5	Elaterospermum	101.30
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Dendrochilum	233.45	Diplocaulobium	233.50	Eleiodoxa	234.12
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Dendrolobium	122.26	Diploknema	181.2	Elettaria	248.6
Dendromyza	179.1	Diplopterygium	16.2	Elettariopsis	248.7
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Enicosanthum	48.11	Fagerlindia	175.18	Gigantochloa	220.38
Enkleia	193.3	Fagraea	125.1	Gironniera	197.2
Entada	122.33	Falcatifolium	38.3	Gleichenia	16.3
Enteropogon	220.30	Fernandoa	59.3	Glenniea	180.8
Enydra	78.18	Fibraurea	135.7	Glinus	137.1
Epaltes	78.19	Ficus	139.4	Globba	248.11
Epigeneium	233.53	Filetia	39.8	Glochidion	101.37
Epigynum	49.12	Fimbristylis	215.7	Glossocarya	200.4
Epipogium	233.54	Finlaysonia	54.9	Gluta	45.8
Epipremnum	207.11	Firmiana	187.4	Glycosmis	176.7
Epiprinus	101.32	Fissistigma	48.12	Glyptopetalum	73.6
Epirixanthes	165.1	Flacourtia	103.3	Gmelina	200.5
Epithema	105.9	Flagellaria	219.1	Gnetum	37.1
Equisetum	1.1	Flemingia	122.36	Gomphandra	113.3
Eragrostis	220.31	Flickingeria	233.59	Gomphostemma	118.6
Erechtites	78.20	Floscopa	211.6	Gomphrena	44.8
Eremochloa	220.32	Flueggea	101.36	Gongronema	54.11
Eria	233.55	Fordia	122.37	Gongylosperma	54.12
Eriachne	220.33	Fortunella	176.6	Goniophlebium	28.5
Eriobotrya	174.1	Freycinetia	235.1	Goniostemma	54.13
Eriocaulon	218.1	Friesodielsia	48.13	Goniothalamus	48.14
Eriochloa	220.34	Fuirena	215.8	Gonocarpus	108.1
Eriosema	122.34	Furtadoa	207.12	Gonocaryum	113.4
Erismianthus	101.33	Gaertnera	175.19	Gonystylus	193.4
Erycibe	80.5	Gahnia	215.9	Gordonia	192.4
Eryngium	198.2	Galearia	154.1	Gouania	172.2
Erythrina	122.35	Galeola	233.60	Grammatophyllum	233.65
Erythroides	233.56	Galinsoga	78.21	Grammitis	17.4
Erythrophalum	149.2	Ganophyllum	180.7	Grangea	78.22
Erythrorchis	233.57	Garcinia	107.3	Greenea	175.24
Erythrospermum	103.2	Gardenia	175.20	Grenacheria	142.5
Erythroxyllum	99.1	Gardeniopsis	175.21	Grewia	194.6
Etlingera	248.8	Garnotia	220.37	Grosourdya	233.66
Eugeissona	234.13	Garuga	63.3	Guettarda	175.25
Eulalia	220.35	Gastonia	51.6	Guioa	180.9
Eulophia	233.58	Gastrochilus	233.61	Gymnacranthera	141.2
Euonymus	73.5	Gastrodia	233.62	Gymnopetalum	86.2
Euphorbia	101.34	Gaultheria	98.4	Gymnosiphon	209.2
Eurya	192.3	Geissaspis	122.38	Gymnostachyum	39.9
Eurycoma	184.3	Genianthus	54.10	Gynochthodes	175.26
Eustachys	220.36	Gentiana	104.4	Gynostemma	86.3
Euthemis	148.3	Gentingia	175.22	Gynotroches	173.4
Evolvulus	80.6	Geocharis	248.9	Gynura	78.23
Exacum	104.3	Geodorum	233.63	Gyrocarpus	110.1

Habenaria	233.67	Hornstedtia	248.14	Ixonanthes	116.2
Haldina	175.27	Horsfieldia	141.3	Ixora	175.32
Halodule	214.2	Hoya	54.16	Jackiopsis	175.33
Halophila	222.3	Hugonia	124.1	Jacquemontia	80.9
Hanguana	221.1	Hullettia	139.5	Jasminum	150.2
Haniffia	248.12	Hunteria	49.14	Johannesteijsmannia	234.15
Hapaline	207.13	Huperzia	2.1	Joinvillea	225.1
Harmandia	149.3	Hydnocarpus	103.6	Juncus	226.1
Harpullia	180.10	Hydnophytum	175.29	Justicia	39.13
Harrisonia	184.4	Hydrilla	222.4	Kadsura	182.1
Hedychium	248.13	Hydrocera	57.1	Kaempferia	248.15
Hedyotis	175.28	Hydrocotyle	198.3	Kailarsenia	175.34
Helicia	169.1	Hydrolea	112.1	Kalanchoe	82.1
Heliciopsis	169.2	Hygrophila	39.11	Kandelia	173.5
Helicteres	187.5	Hylophila	233.71	Keenania	175.35
Heliotropium	61.6	Hymenachne	220.42	Kibara	138.1
Helixanthera	127.6	Hymenandra	142.6	Kibatalia	49.16
Helminthostachys	24.2	Hymenocardia	101.41	Kinabaluochloa	220.47
Hemarthria	220.39	Hymenodictyon	175.30	Kingella	127.7
Hemidesmus	54.14	Hymenophyllum	18.3	Kingidium	233.72
Hemigraphis	39.10	Hypericum	107.4	Kleinhovia	187.7
Hemionitis	5.5	Hypobathrum	175.31	Klossia	175.36
Hemiscolopia	103.4	Hypoestes	39.12	Knema	141.4
Heritiera	187.6	Hypolepis	12.3	Knoxia	175.37
Herminium	233.68	Hypolytrum	215.10	Kochummenia	175.38
Hernandia	110.2	Hypoxis	223.1	Koilodepas	101.42
Hetaeria	233.69	Hypserpa	135.8	Kokoona	73.7
Heterogonium	15.7	Hyptis	118.7	Koompassia	122.42
Heteropogon	220.40	Ichnanthus	220.43	Kopsia	49.17
Heterosmilax	241.1	Ichnocarpus	49.15	Korthalsella	202.1
Heterostemma	54.15	Iguanura	234.14	Korthalsia	234.16
Hevea	101.38	Ilex	50.1	Kostermansia	60.4
Hewittia	80.7	Illicium	114.1	Kostermanthus	75.3
Heynea	133.8	Illigera	110.3	Kuhlilasseltia	233.73
Hibiscus	131.3	Impatiens	57.2	Kunsteria	122.43
Hieris	59.4	Imperata	220.44	Kyllinga	215.11
Hippeophyllum	233.70	Indigofera	122.39	Labisia	142.7
Hiptage	130.3	Indorouchera	124.2	Lagerstroemia	128.4
Histiopteris	12.2	Inocarpus	122.40	Lansium	133.9
Hodgsonia	86.4	Intsia	122.41	Lantana	200.6
Holarrhena	49.13	Iodes	113.5	Laportea	199.6
Holttumochloa	220.41	Ipomoea	80.8	Lasia	207.15
Homalanthus	101.39	Irvingia	115.1	Lasianthus	175.39
Homalium	103.5	Isachne	220.45	Lasiococca	101.43
Homalomena	207.14	Ischaemum	220.46	Lecananthus	175.40
Homonoia	101.40	Isonandra	181.3	Lecanopteris	28.6
Hopea	92.5	Itea	100.1	Lecanorchis	233.74

Leea	121.1	Lolium	220.52	Manihot	101.47
Leersia	220.48	Lomagramma	19.3	Manilkara	181.5
Lemmaphyllum	28.7	Lomariopsis	19.4	Maniltoa	122.47
Lemna	227.1	Lonicera	68.1	Mapania	215.16
Leonotis	118.8	Lophatherum	220.53	Maranthes	75.5
Leonurus	118.9	Lophopetalum	73.9	Margaritaria	101.48
Lepeostegeres	127.8	Lophopyxis	126.1	Marsdenia	54.18
Lepidagathis	39.14	Loxanthera	127.10	Marsilea	21.1
Lepidaria	127.9	Loxocarpus	105.10	Marsypopetalum	48.15
Lepidogyne	233.75	Loxogramme	28.9	Mastigion	233.83
Lepidosperma	215.12	Loxonia	105.11	Mastixia	81.1
Lepionurus	152.3	Lucinaea	175.41	Matonia	22.1
Lepironia	215.13	Ludisia	233.77	Matthaea	138.2
Lepisanthes	180.11	Ludwigia	151.1	Maxburretia	234.19
Lepistemon	80.10	Luisia	233.78	Maytenus	73.10
Leptaspis	220.49	Lumnitzera	77.3	Mazus	183.10
Leptocarpus	240.1	Luvunga	176.8	Medinilla	132.10
Leptochilus	28.8	Lycianthes	185.2	Medusanthera	113.6
Leptochloa	220.50	Lycopodiella	2.2	Megistostigma	101.49
Leptonychia	187.8	Lycopodium	2.3	Meliogyne	48.16
Leptopus	101.44	Lygisma	54.17	Meladerma	54.19
Leptospermum	143.5	Lygodium	31.1	Melaleuca	143.6
Lepturus	220.51	Lyonia	98.5	Melanochyla	45.10
Leucaena	122.44	Lysimachia	168.1	Melanolepis	101.50
Leucas	118.10	Macaranga	101.45	Melastoma	132.11
Leuconotis	49.18	Machaerina	215.15	Melicope	176.10
Leucostegane	122.45	Maclura	139.6	Melientha	152.4
Leucostegia	11.2	Maclurochloa	220.54	Melinis	220.55
Licania	75.4	Maclurodendron	176.9	Meliosma	134.1
Licuala	234.17	Macodes	233.79	Melochia	187.9
Ligustrum	150.3	Macrolenes	132.9	Melodinus	49.19
Lijndenia	132.8	Macropanax	51.7	Melodorum	48.17
Limacia	135.9	Macropodanthus	233.80	Memecylon	132.12
Limnocharis	228.1	Macroptilium	122.46	Merope	176.11
Limnophila	183.8	Macrosolen	127.11	Merremia	80.11
Lindera	119.10	Macrothelypteris	32.7	Merrillia	176.12
Lindernia	183.9	Madhuca	181.4	Mesophlebion	32.8
Lindsaea	12.4	Maesa	142.8	Mesua	107.6
Linostoma	193.5	Magnolia	129.1	Metadina	175.42
Liparis	233.76	Maingaya	109.5	Metathelypteris	32.9
Lipocarpha	215.14	Malaccotristicha	164.1	Meyna	175.43
Litchi	180.12	Malaxis	233.81	Mezzettia	48.18
Lithocarpus	102.2	Malleola	233.82	Mezzettiopsis	48.19
Litsea	119.11	Mallotus	101.46	Michelia	129.3
Livistona	234.18	Mammea	107.5	Micraeschynanthus	105.12
Lobelia	66.3	Mangifera	45.9	Microcarpaea	183.11
Loeseneriella	73.8	Manglietia	129.2	Micrococca	101.51

Microcos	194.7	Myriophyllum	108.2	Octarrhena	233.91
Microdesmis	154.2	Myriostachya	220.59	Odontosoria	12.6
Microglossa	78.24	Myristica	141.5	Oeceoclades	233.92
Microlepia	12.5	Myrmecodia	175.50	Oenanthe	198.4
Micromelum	176.13	Myxopyrum	150.4	Olax	149.5
Micropera	233.84	Nageia	38.4	Olea	150.5
Micropora	119.12	Najas	222.5	Oleandra	23.3
Microrhophium	104.5	Naravelia	171.3	Omphalea	101.53
Microsaccus	233.85	Nauclea	175.51	Oncosperma	234.23
Microsorium	28.10	Neesia	60.5	Operculina	80.13
Microstegium	220.56	Neisosperma	49.20	Ophioglossum	24.3
Microtropis	73.11	Nelsonia	39.15	Ophiopogon	212.2
Mikania	78.25	Nelumbo	144.1	Ophiorrhiza	175.56
Miliusa	48.20	Nenga	234.21	Oplismenus	220.61
Millettia	122.48	Neo-Uvaria	48.24	Opuntia	65.1
Mimosa	122.49	Neoalsomitra	86.6	Orania	234.24
Mimusops	181.6	Neobalanocarpus	92.6	Orchadocarpa	105.14
Miquelia	113.7	Neocheiropteris	28.11	Orchidantha	229.1
Miscanthus	220.57	Neolamarckia	175.52	Orchipedum	233.93
Mischobulbum	233.86	Neolitsea	119.13	Oreobolus	215.17
Mischocarpus	180.13	Neonauclea	175.53	Oreocnide	199.8
Mitracarpus	175.44	Neoscortechinia	101.52	Ormocarpum	122.52
Mitragyna	175.45	Nepenthes	145.1	Ormosia	122.53
Mitrasacme	125.2	Nephelaphyllum	233.87	Ornithoboea	105.15
Mitrella	48.21	Nephelium	180.14	Ornithochilus	233.94
Mitreola	125.3	Nephrolepis	23.2	Orophea	48.25
Mitrephora	48.22	Neptunia	122.51	Oroxylum	59.5
Mnesithea	220.58	Nertera	175.54	Orthosiphon	118.12
Molineria	223.2	Nervilia	233.88	Oryza	220.62
Mollugo	137.2	Neuropeltis	80.12	Osbeckia	132.14
Momordica	86.5	Neuwiedia	233.89	Osmanthus	150.6
Monocarpia	48.23	Neyraudia	220.60	Osmelia	103.7
Monochoria	238.2	Norrisia	125.4	Osmunda	25.1
Monogramma	33.2	Nothaphoebe	119.14	Ottelia	222.6
Monophyllaea	105.13	Nothocissus	203.5	Ottochloa	220.63
Morinda	175.46	Nothocnide	199.7	Oxalis	153.4
Mucuna	122.50	Notothixos	202.2	Oxyceros	175.57
Munronia	133.10	Nymphaea	147.2	Oxyspora	132.15
Muntingia	194.8	Nymphoides	136.1	Pachycentria	132.16
Murdannia	211.7	Nypa	234.22	Pachylarnax	129.4
Murraya	176.14	Nyssa	81.2	Pachystoma	233.95
Musa	232.1	Oberonia	233.90	Paederia	175.58
Mussaenda	175.47	Ochanostachys	149.4	Paesia	12.7
Mussaendopsis	175.48	Ochna	148.4	Pajanelia	59.6
Mycetia	175.49	Ochreinauclea	175.55	Palaquium	181.7
Myrialepis	234.20	Ochthocharis	132.13	Pandanus	235.2
Myrica	140.1	Ocimum	118.11	Pangium	103.8

Paphiopedilum	233.96	Peristrophe	39.17	Pistacia	45.13
Papilionanthe	233.97	Peristylus	233.101	Pistia	207.17
Paraboea	105.16	Pernettyopsis	98.6	Pittosporum	161.1
Paracroton	101.54	Peronema	200.7	Pityrogramma	5.6
Paragramma	28.12	Perotis	220.67	Plagiogyria	27.1
Paramapania	215.18	Perrottetia	73.12	Plagiostachys	248.16
Parameria	49.21	Persea	119.15	Planchonia	120.4
Paramignya	176.15	Persicaria	166.2	Plantago	162.1
Paranephelium	180.15	Pertusadina	175.61	Platanthera	233.107
Paraphlomis	118.13	Petraeovitex	200.8	Platea	113.9
Parartocarpus	139.7	Petrosavia	231.1	Platycerium	28.14
Pararuellia	39.16	Phacellaria	179.4	Platymitra	48.27
Paraserianthes	122.54	Phacelophrynium	230.2	Plectocomia	234.28
Parashorea	92.7	Phaeanthus	48.26	Plectocomiopsis	234.29
Parastemon	75.6	Phaius	233.102	Plectranthus	118.14
Parathelypteris	32.10	Phalaenopsis	233.103	Pleiocarpidia	175.62
Parinari	75.7	Phaleria	193.6	Pleocnemia	15.9
Parishia	45.11	Phialacanthus	39.18	Plethiandra	132.18
Parkia	122.55	Philydium	236.1	Pleurostylia	73.13
Paropsia	155.2	Phlogacanthus	39.19	Plocoglottis	233.108
Parsonsia	49.22	Phoebe	119.16	Ploiarium	107.7
Parthenocissus	203.6	Phoenix	234.25	Pluchea	78.26
Paspalum	220.65	Pholidocarpus	234.26	Plumbago	163.1
Passiflora	155.3	Pholidota	233.104	Pneumatopteris	32.11
Pavetta	175.59	Photinia	174.2	Poa	220.69
Pavonia	131.4	Phragmites	220.68	Poaephyllum	233.109
Payena	181.8	Phreatia	233.105	Podocarpus	38.5
Pecteilis	233.98	Phrynium	230.3	Podochilus	233.110
Pelatantharia	233.99	Phyla	200.9	Podolasia	207.18
Peliosanthes	212.3	Phylacium	122.58	Pogonanthera	132.19
Pellacalyx	173.6	Phyllagathis	132.17	Pogonatherum	220.70
Peltophorum	122.56	Phyllanthus	101.55	Pogonotium	234.30
Pemphis	128.5	Phyllodium	122.59	Poikilospermum	72.2
Pennilabium	233.100	Phymatosorus	28.13	Polia	211.8
Pennisetum	220.66	Physalis	185.3	Polyalthia	48.28
Pentace	194.9	Phytocrene	113.8	Polygala	165.2
Pentanura	54.20	Phytolacca	159.1	Polyosma	100.2
Pentapetes	187.10	Picrasma	184.5	Polystachya	233.111
Pentaphragma	157.1	Picria	183.12	Polystichum	15.10
Pentaphylax	158.1	Pilea	199.9	Polytrias	220.71
Pentascacme	54.21	Pilophyllum	233.106	Poniatocalpa	233.112
Pentaspadon	45.12	Pimelodendron	101.56	Pometia	180.16
Peperomia	160.1	Pinanga	234.27	Pongamia	122.60
Perakanthus	175.60	Piper	160.2	Popowia	48.29
Peranema	15.8	Piptospatha	207.16	Porana	80.14
Pericampylus	135.10	Pipturus	199.10	Porophyllum	78.27
Pericopsis	122.57	Pisonia	146.2	Porpax	233.113

Porphyroglottis	233.114	Pycnorhachis	54.22	Rothmannia	175.68
Porterandia	175.63	Pycreus	215.19	Rotula	61.8
Portulaca	167.1	Pyramidanthe	48.31	Rourea	79.5
Potentilla	174.3	Pyrenaria	192.5	Rubus	174.5
Pothos	207.19	Pyrrosia	28.15	Ruellia	39.23
Pottsia	49.23	Quassia	184.6	Rumex	166.3
Pouteria	181.9	Quercus	102.3	Rungia	39.24
Pouzolzia	199.11	Quisqualis	77.4	Ruppia	239.1
Prainea	139.8	Racemobambos	220.74	Ryparosa	103.9
Premna	200.10	Radermachera	59.7	Sabia	177.1
Prismatomeris	175.64	Rafflesia	170.1	Saccharum	220.75
Pristiglottis	233.115	Rapanea	142.9	Sacciolepis	220.76
Procris	199.12	Raphistemma	54.23	Saccoloma	12.9
Proiphys	205.2	Rauvolfia	49.24	Sageraea	48.32
Pronephrium	30.12	Reinwardtiodendron		Sageretia	172.4
Prosaptia	17.5		133.12	Sagina	70.3
Prunus	174.4	Reissantia	73.14	Sagittaria	204.2
Pseudarthria	122.61	Remirea	215.20	Salacca	234.32
Pseudechinolaena	220.72	Renanthera	233.117	Salacia	73.15
Pseuderanthemum	39.20	Renantherella	233.118	Salix	178.1
Pseudoclausena	133.11	Rennellia	175.67	Salomonina	165.3
Pseudognaphalium	78.28	Rhamnus	172.3	Salvinia	30.1
Pseudophegopteris	30.13	Rhaphidophora	207.20	Sandoricum	133.13
Pseudoraphis	220.73	Rhinacanthus	39.22	Sanicula	198.5
Psilotrichopsis	44.9	Rhizanthus	170.2	Santiria	63.4
Psilotrichum	44.10	Rhizophora	173.7	Sapium	101.61
Psilotum	3.1	Rhodamnia	143.7	Saprosma	175.69
Psueduvaria	48.30	Rhododendron	98.7	Saraca	122.66
Psychotria	175.65	Rhodoleia	109.6	Sarcandra	74.2
Psydrax	175.66	Rhodomyrtus	143.8	Sarcoglyphis	233.123
Pteleocarpa	61.7	Rhopalephora	211.9	Sarcolobus	54.24
Pteridium	12.8	Rhopaloblaste	234.31	Sarcopyramis	132.21
Pteridrys	15.11	Rhus	45.14	Sarcosperma	181.10
Pteris	29.2	Rhynchoglossum	105.17	Sarcostemma	54.25
Pterisanthes	203.7	Rhynchogyna	233.119	Sarcostigma	113.10
Pternandra	132.20	Rhynchospora	215.21	Sarcostoma	233.124
Pterocarpus	122.62	Rhynchostylis	233.120	Sarcotheca	153.5
Pteroceras	233.116	Rhynchotechum	105.18	Satureja	118.16
Pterococcus	101.57	Rhytionanthos	233.121	Saurauia	41.2
Pterocymbium	187.11	Richeriella	101.59	Sauropus	101.62
Pterolobium	122.63	Ricinus	101.60	Sauvagesia	148.5
Pterospermum	187.12	Rinorea	201.1	Scaevola	106.1
Pterygota	187.13	Rivina	159.2	Scaphium	187.14
Ptychopyxis	101.58	Robiquetia	233.122	Scaphocalyx	103.10
Ptyssiglottis	39.21	Rorippa	83.3	Scaphochlamys	248.17
Pueraria	122.64	Rotala	128.6	Schefflera	51.8
Pycnarrhena	135.11	Rothia	122.65	Schima	192.6

Schismatoglottis	207.21	Solena	86.7	Stichoneuron	242.2
Schizachyrium	220.77	Solenostemon	118.18	Stictocardia	80.15
Schizaea	31.2	Sonchus	78.30	Stixis	67.4
Schizostachyum	220.78	Sonerila	132.22	Streblosa	175.72
Schoenoplectus	215.22	Sonneratia	128.7	Streblus	139.9
Schoenorchis	233.125	Sophora	122.72	Streptocaulon	54.27
Schoenus	215.23	Sorbus	174.6	Striga	183.15
Schoutenia	194.10	Sorghum	220.81	Strobilanthes	39.27
Schumannianthus	230.4	Spathiostemon	101.64	Strombosia	149.7
Sciaphila	245.1	Spathodea	59.8	Strophanthus	49.26
Scindapsus	207.22	Spathoglottis	233.127	Struchium	78.33
Scirpodendron	215.24	Spatholirion	211.10	Strychnos	125.5
Scirpus	215.25	Spatholobus	122.73	Stylidium	188.1
Scleria	215.26	Spermacoce	175.71	Stylosanthes	122.74
Scleroglossum	17.6	Sphaeranthus	78.31	Styphelia	97.1
Scleropyrum	179.5	Sphaerocaryum	220.82	Styrax	189.1
Scolopia	103.11	Sphaerocionium	18.4	Sumbaviopsis	101.65
Scoparia	183.13	Sphaerostephanos	30.14	Suregada	101.66
Scorodocarpus	149.6	Sphenoclea	66.4	Swintonia	45.17
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<i>lancifolia</i>	233.12.6b	<i>roxburghii</i>	207.7.5	<i>teres</i>	233.34.6
<i>muricata</i>	233.110.3	var. <i>kunstleri</i>	207.7.4	<i>Ascotainia</i>	
<i>purpurascens</i>	233.12.5/11	<i>Aristolochia</i>		<i>penangiana</i>	233.8.1
<i>robusta</i>	233.12.7	<i>ungulifolia</i>	53.1.3	<i>Asplenium</i>	
<i>Arachnis</i>		<i>Aromadendron</i>		<i>adiantoides</i>	6.1.18
<i>alba</i>	233.13.2	<i>elegans</i>	129.1.3	<i>belangeri</i>	6.1.27
<i>Arachnis</i>		<i>nutans</i>	129.1.1	<i>glaucophyllum</i>	6.1.12
<i>moschifera</i>	233.13.1	<i>Artanema</i>		<i>nidus</i>	
<i>Araiostegia</i>		<i>angustifolium</i>	183.3.1	var. <i>musifolium</i>	6.1.10
<i>hymenophylloides</i>	11.1.6	<i>Arthraxon</i>		<i>phyllitidis</i>	6.1.17
<i>Aralia</i>		<i>micans</i>	220.6.1	<i>spathulinum</i>	6.1.1
<i>armata</i>	51.1.2	<i>nudus</i>	220.6.1	<i>squamulatum</i>	6.1.29
<i>ferox</i>	51.1.3	<i>prionodes</i>	220.6.2	<i>Asystasia</i>	
<i>thomsonii</i>	51.1.2	<i>Arthrophyllum</i>		<i>coromandeliana</i>	39.3.1
<i>Arcangelisia</i>		<i>congestum</i>	51.2.3	<i>intrusa</i>	39.3.2
<i>loureiri</i>	135.2.1	<i>montanum</i>		<i>Atalantia</i>	
<i>Arcuthobium</i>		var. <i>angustifolium</i>	51.2.2	<i>cuspidata</i>	176.15.1
<i>dacrydii</i>	202.1.1	<i>nitidum</i>	51.2.5	<i>hispida</i>	176.15.2
<i>Archytaea</i>		<i>ovatifolium</i>	51.2.3	<i>polyandra</i>	176.6.1
<i>vahlII</i>	107.7.1	<i>ovatum</i>	51.2.5	<i>Athyrium</i>	
<i>Arcypteris</i>		<i>pinnatum</i>	51.2.4	<i>accedens</i>	34.5.1
<i>irregularis</i>	15.9.3	<i>Artia</i>		<i>anplissimum</i>	34.5.4
<i>Ardisia</i>		<i>penangiana</i>	49.22.3	<i>angustisquamatum</i>	34.5.5
<i>andamanica</i>	142.3.77	<i>Artocarpus</i>		<i>asperum</i>	34.5.18
<i>crassa</i>	142.3.57	<i>bracteatus</i>	139.7.1	<i>bantamense</i>	34.5.6
<i>divergens</i>	142.3.52	<i>denisonianus</i>	139.2.5	<i>boryanum</i>	34.3.1
<i>iteophylla</i>	142.6.1	<i>forbesii</i>	139.7.2a	<i>cordifolium</i>	34.5.7a
<i>labisiifolia</i>	142.3.42a	<i>gomezianus</i>	139.2.13	<i>crenatoserratum</i>	34.5.9
<i>linearifolia</i>	142.3.15	<i>kunstleri</i>	139.2.3	<i>dilatatum</i>	34.5.10
<i>littoralis</i>	142.3.13	<i>lakoocha</i>	139.2.2	<i>esculentum</i>	34.5.12
<i>odontophylla</i>	142.3.31	<i>peduncularis</i>	139.2.16	<i>heterophlebium</i>	34.4.1
<i>teysmanniana</i>	142.3.23	<i>polyphema</i>	139.2.8	<i>insigne</i>	34.5.13
		<i>superbus</i>	139.2.1	<i>japonicum</i>	34.3.2
<i>Areca</i>		<i>Arundina</i>		<i>kunstleri</i>	34.5.14
<i>montana</i>	234.1.1	<i>bambusifolia</i>	233.14.1	<i>latisquamatum</i>	34.5.15
<i>Arenga</i>		<i>revoluta</i>	233.14.1	<i>macrocarpum</i>	34.2.1
<i>saccharifera</i>	234.2.4	<i>speciosa</i>	233.14.1	<i>malaccense</i>	34.5.16
<i>Argostemma</i>		<i>Ascocentrum</i>		<i>montanum</i>	34.5.17
<i>acuminatum</i>	175.6.16/25	<i>micranthum</i>	233.126.1	<i>pinnatum</i>	34.5.2
<i>albociliatum</i>	175.6.2b	<i>Ascochilus</i>		<i>prescottianum</i>	34.5.19
<i>membranaceum</i>	105.9.1	<i>capricornis</i>	233.34.2	<i>procumbens</i>	34.5.20
<i>pictum</i>	175.6.4	<i>hirsutus</i>	233.116.4	<i>riparium</i>	34.5.21
<i>spinulosum</i>	175.6.21	<i>hirtulus</i>	233.66.1	<i>simplicivenium</i>	34.5.22
				<i>sorzogonense</i>	34.5.23
				<i>speciosum</i>	
				var. <i>major</i>	34.5.24a
				var. <i>speciosum</i>	34.5.24b
				<i>subintegrum</i>	34.5.25

<i>subserratum</i>	34.5.26	<i>penangianus</i>	92.8.41	<i>Bauhinia</i>	
<i>tomentosum</i>	34.5.27	<i>pubescens</i>	92.5.23	<i>bracteata</i>	122.9.4
<i>velutinum</i>	34.5.28			<i>breviflora</i>	122.9.5b
<i>xiphophyllum</i>	34.5.29	Balanophora		<i>calycina</i>	122.9.3
Atuna		<i>gigantea</i>	56.1.3	<i>cornifolia</i>	122.9.5c
<i>elata</i>	75.1.4b	<i>globosa</i>	56.1.3	<i>flamminifera</i>	122.9.16
<i>excelsa</i>	75.1.4a	<i>hansenii</i>	56.1.2	<i>griffithiana</i>	122.9.9b
Atylosia		<i>insularis</i>	56.1.1	<i>hullettii</i>	122.9.9a
<i>crassa</i>	122.12.2	<i>multibrachiata</i>	56.1.5	<i>micrantha</i>	122.9.14
<i>scarabaeoides</i>	122.12.4	<i>truncata</i>	56.1.4	<i>mollissima</i>	122.9.15/20a
Aulocodiscus		Baliospermum		<i>monticola</i>	122.9.5e
<i>premnoides</i>	175.62.1	<i>axillare</i>	101.10.1	<i>scortechinii</i>	122.9.5a
Austrobusus		<i>malayanum</i>	101.19.1	Becheria	
<i>montanus</i>	101.8.1b	<i>montanum</i>	101.10.1	<i>parviflora</i>	175.65.25
Avicennia		Bambusa		Begonia	
<i>intermedia</i>	55.1.2	<i>elegans</i>	220.41.2	<i>clivalis</i>	58.1.26/38a
<i>lanata</i>	55.1.4	<i>klossii</i>	220.23.4	<i>hasskarltii</i>	58.1.21
<i>sphaerocarpa</i>	55.1.2	<i>magica</i>	220.41.2	var. <i>hirsuta</i>	58.1.19
Axinandra		<i>montana</i>	220.53.1	<i>herveyana</i>	
<i>maingayi</i>	84.1.1	<i>pauciflora</i>	220.53.1	var. <i>robusta</i>	58.1.35
Azolla		<i>ridleyi</i>	220.79.7	<i>isoptera</i>	58.1.18/47
<i>pinnata</i>	7.1.1	<i>wrayi</i>	220.46.10	<i>monticola</i>	58.1.2
var. <i>imbricata</i>	7.1.1	Barringtonia		<i>perakensis</i>	
Baccaurea		<i>musiformis</i>	120.2.11	var. <i>rotundata</i>	58.1.32b
<i>kingii</i>	101.9.20	<i>pedicellata</i>	120.2.1a	<i>pseudoisoptera</i>	58.1.47
<i>leucodermis</i>	101.9.5	<i>speciosa</i>	120.2.2	<i>sinuata</i>	58.1.40b-f
<i>malayana</i>	101.19.1	<i>spicata</i>	120.2.1b	Beilschmiedia	
<i>pubescens</i>	101.9.12	<i>sumatrana</i>	120.2.14	<i>curtisii</i>	119.3.9
<i>reticulata</i>		Bassia		<i>foxiana</i>	119.2.5
var. <i>velutina</i>	101.9.21	<i>argentea</i>	181.4.21b	<i>longipes</i>	119.3.13
<i>scortechinii</i>	101.9.13	<i>aristulata</i>	181.4.1	<i>malaccensis</i>	119.3.9
<i>wallichii</i>	101.9.16	<i>braceana</i>	181.4.9	<i>scortechinii</i>	119.3.9
<i>wrayi</i>	101.9.17	<i>caudata</i>	181.8.2	Belvisia	
Baeothryon		<i>cuneata</i>	181.7.18	<i>callifolia</i>	28.2.1
<i>subcapitatum</i>	215.26.1	<i>cuprea</i>	181.4.3	<i>revoluta</i>	28.2.2
Bagnisia		<i>curtisii</i>	181.4.4	Berrya	
<i>crocea</i>		<i>elongata</i>	181.4.13	<i>ammonilla</i>	194.1.1
var. <i>brunnea</i>	209.3.8	<i>erythrophylla</i>	181.4.6	Blastus	
Balanocarpus		<i>hirtiflora</i>	181.4.7	<i>cogniauxii</i>	132.3.1a
<i>anoalus</i>	92.5.9	<i>kingiana</i>	181.4.8	<i>pulverulentus</i>	132.3.1b
<i>curtisii</i>	92.5.5	<i>kunstleri</i>	181.4.10	Blechnum	
<i>heimii</i>	92.6.1	<i>laurifolia</i>	181.4.11	<i>indicum</i>	8.1.5
<i>naxinus</i>	92.8.39	var. <i>parvifolia</i>	181.4.16	Blumea	
<i>ovalifolius</i>	92.5.3/8.40	<i>longistyla</i>	181.4.12	<i>chinensis</i>	78.7.8
		<i>malaccensis</i>	181.4.13	<i>laciniata</i>	78.7.9
		<i>motleyana</i>	181.4.14		
		<i>penangiana</i>	181.4.16		
		<i>penicillata</i>	181.4.17		
		<i>perakensis</i>	181.4.4		
		<i>rupicola</i>	181.4.11		

<i>Blumeodendron</i>		<i>parviceps</i>	175.71.6	<i>Bryophyllum</i>	
<i>concolor</i>	101.13.1	<i>pilulifera</i>	175.71.7	<i>calycinum</i>	82.1.1
<i>vericosum</i>	101.13.5	<i>repens</i>	175.71.3	<i>Buchanania</i>	
		<i>setidens</i>	175.71.3	<i>lucida</i>	45.4.1
<i>Blyxa</i>		<i>Boschia</i>		<i>Bucklandia</i>	
<i>alternifolia</i>	222.1.2a	<i>griffithii</i>	60.3.4	<i>populnea</i>	109.4.1
<i>echinosperma</i>	222.1.1b	<i>Bothriochloa</i>		<i>Bulbophyllum</i>	
<i>malayana</i>	222.1.1a	<i>intermedia</i>	220.10.1	<i>adenopetalum</i>	233.22.33
<i>Boea</i>		<i>Botryophora</i>		<i>apiferum</i>	233.22.43
<i>acutifolia</i>	105.16.1	<i>kingii</i>	101.14.1	<i>arachnites</i>	233.22.46
<i>brachycarpa</i>	105.16.5	<i>Bouea</i>		<i>araniferum</i>	233.22.92
<i>caerulescens</i>	105.16.6	<i>microphylla</i>	45.3.2	<i>auratum</i>	233.31.1
<i>divaricata</i>	105.16.8	<i>Brachiaria</i>		<i>brevicapum</i>	233.22.48
<i>elegans</i>	105.16.9	<i>distachya</i>	220.90.1	<i>brienianum</i>	233.31.2
<i>lanata</i>	105.16.11	<i>holotricha</i>	220.90.4	<i>campanulatum</i>	233.31.1
<i>paniculata</i>	105.16.14	<i>miliiformis</i>	220.90.6	<i>capitatum</i>	233.22.4
<i>parviflora</i>	105.16.15	<i>mutica</i>	220.90.2	<i>carunculaelabrum</i>	233.22.15
<i>suffruticosa</i>	105.16.17	<i>paspaloides</i>	220.90.3	<i>chiekaense</i>	233.31.10
<i>treubii</i>	105.16.18	<i>pubigera</i>	220.90.4	<i>ciliatum</i>	233.22.20
<i>verticillata</i>	105.16.19	<i>reptans</i>	220.90.5	<i>cinninatum</i>	233.22.40
<i>Boerhavia</i>		<i>Brassaia</i>		<i>clandestinum</i>	233.22.89
<i>repanda</i>	146.1.1	<i>singaporensis</i>	51.8.1	<i>corneri</i>	233.22.104
<i>Boesenbergia</i>		<i>Brassaiopsis</i>		<i>corolliferum</i>	233.31.4
<i>pandurata</i>	248.3.8	<i>palmata</i>	51.3.4	<i>cyclosepalon</i>	233.22.27
<i>Bolbitis</i>		<i>Breynia</i>		<i>dayanum</i>	233.22.41
<i>diversifolia</i>	19.1.4	<i>angustifolia</i>	101.15.3	<i>densiflorum</i>	233.22.91
<i>malaccensis</i>	19.1.4	<i>keithii</i>	101.15.5	<i>epicrianthes</i>	233.22.71
<i>nitens</i>	19.1.4	<i>rhamnoides</i>	101.15.5	<i>fascinator</i>	233.83.1
<i>simplicifolia</i>	19.1.2	<i>Bromheadia</i>		<i>fenestratum</i>	233.31.5/12
<i>virens</i>	19.1.5	<i>aporoides</i>	233.21.10	<i>galbinum</i>	233.22.101
<i>Bombax</i>		<i>palustris</i>	233.21.5	<i>gigas</i>	233.22.30
<i>insularis</i>	60.1.1	<i>sylvestris</i>	233.21.5	<i>griffithianum</i>	233.31.7
<i>larutensis</i>	60.1.2	<i>Brownlowia</i>		<i>gusdorfii</i>	233.31.6a/b
<i>Bonnaya</i>		<i>lanceolata</i>	194.2.5	<i>var. johorensense</i>	233.31.6b
<i>brachiata</i>	183.9.4	<i>riedelii</i>	194.2.1	<i>lepidum</i>	233.31.7
<i>reptans</i>	183.9.11	<i>scortechinii</i>	194.2.2	<i>longiflorum</i>	233.22.45
<i>veronicifolia</i>	183.9.2	<i>Brucea</i>		<i>longistelidium</i>	233.22.92
<i>Borassus</i>		<i>sumatrana</i>	184.2.1	<i>makoyanum</i>	233.31.8
<i>machadonis</i>	234.3.1	<i>Brugmansia</i>		<i>var. brienianum</i>	233.31.2
<i>Borreria</i>		<i>lowi</i>	170.2.1	<i>maximum</i>	233.22.105
<i>alata</i>	175.71.5	<i>Bruguiera</i>		<i>megalanthum</i>	233.22.17
<i>articularis</i>	175.71.1	<i>caryophylloides</i>	173.1.1	<i>microbulbon</i>	233.22.86
<i>hispida</i>	175.71.1	<i>eriopetala</i>	173.1.5	<i>minimibulbum</i>	233.22.85
<i>laevicaulis</i>	175.71.3			<i>montigenum</i>	233.22.33
<i>laevis</i>	175.71.2			<i>multiflorum</i>	233.22.8
<i>latifolia</i>	175.71.5			<i>musciferum</i>	233.22.22
<i>ocymoides</i>	175.71.3			<i>nigromaculatum</i>	233.22.97
				<i>ochraceum</i>	233.31.9
				<i>ochrantium</i>	233.22.65
				<i>oeneum</i>	233.22.38

<i>oreas</i>	233.22.67	<i>pallidulus</i>	234.4.21	<i>symingtonianum</i>	107.1.15
<i>parvilabium</i>	233.22.70	<i>pauciflorus</i>	234.4.16	<i>tahanense</i>	107.1.40b
<i>paullum</i>	233.22.65	<i>penangensis</i>	234.4.37	<i>tenuivenium</i>	107.1.39a
<i>perakense</i>	233.22.81	<i>ramosissimus</i>	234.4.47	<i>venustum</i>	107.1.37c
<i>polystictum</i>	233.22.54			<i>wallicianum</i>	107.1.26/27/40c
<i>psittacoides</i>	233.22.37	Calanthe		Calycopteris	
<i>puguahaanense</i>	233.31.10	<i>curculigoides</i>	233.23.13	<i>floribunda</i>	77.2.1
<i>pulchellum</i>	233.31.3	<i>emarginata</i>	233.23.18		
var. <i>purpureum</i>	233.31.4	<i>foerstermannii</i>	233.23.9	Calymmodon	
<i>punctatissimum</i>	233.31.5	<i>gracilis</i>	233.24.1	<i>cucullatus</i>	17.2.1/3
<i>putidum</i>	233.83.1	<i>masuca</i>	233.23.18		
<i>reticosum</i>	233.22.26	<i>pusilla</i>	233.23.4	Camarotis	
<i>rhizophoreti</i>	233.22.81	<i>veratrifolia</i>	233.23.20	<i>adnata</i>	233.84.1
<i>rupicolum</i>	233.31.12			<i>apiculata</i>	233.84.2
<i>sarcanthoides</i>	233.19.4	Callicarpa		<i>proboscidea</i>	233.84.3
<i>selangorenses</i>	233.22.35	<i>arborea</i>	200.1.8		
<i>serratotruncatum</i>	233.31.9	<i>cana</i>	200.1.2	Campanumoea	
<i>siamense</i>	233.22.54	Callipteris		<i>celebica</i>	66.1.1
<i>stella</i>	233.22.57	<i>prolifera</i>	34.5.1		
<i>tenophyllum</i>	233.22.2			Campimnia	
<i>taeniophyllum</i>	233.31.5/12	Calophanoides		<i>wrayi</i>	132.15.13
<i>tenerum</i>	233.22.79	<i>quadrifaria</i>	39.13.13		
<i>tinea</i>	233.22.73	Calophyllum		Canpnosperma	
<i>trichoglottis</i>	233.22.40	<i>austrocoriaceum</i>	107.1.18	<i>griffithii</i>	45.5.2
<i>tristriatum</i>	233.22.92	<i>blumutense</i>	107.1.37a	<i>oxyrhachis</i>	45.5.1
<i>vaginulosum</i>	233.22.6	<i>cuneatum</i>	107.1.5b	Camptandra	
<i>variabile</i>	233.22.101	<i>curtisii</i>	107.1.5a	<i>talianensis</i>	248.4.2
		<i>ferrugineum</i>	107.1.13a		
Burkillia		var. <i>neriifolium</i>	107.1.13b	Cananga	
<i>alba</i>	122.10.1	<i>floribundum</i>	107.1.37c	<i>monosperma</i>	48.16.1
Burmannia		<i>foetidum</i>	107.1.37c		
<i>gracilis</i>	209.1.5	<i>fraseri</i>	107.1.38a	Canarium	
<i>tuberosa</i>	209.1.1	<i>griffithii</i>	107.1.37b	<i>latifolium</i>	48.4.1
		<i>incrassatum</i>	107.1.40a	<i>scortechnii</i>	48.4.2
Caesalpinia		<i>inophylloide</i>	107.1.38a/b		
<i>bonducella</i>	122.11.2	var. <i>singaporenses</i>	107.1.38b	Canarium	
<i>nuga</i>	122.11.3	<i>javanicum</i>	107.1.34/39b	<i>grandiflorum</i>	63.1.10
<i>sepiaria</i>	122.11.5	<i>kunstleri</i>	107.1.24	<i>lispidum</i>	63.1.5
		<i>lanceola</i>	107.1.37c	<i>kadondon</i>	63.2.10
Calamintha		<i>marginatum</i>	107.1.13b	<i>nitidum</i>	63.1.8
<i>gracilis</i>	118.16.1	<i>neriifolium</i>	107.1.13b	<i>parvifolium</i>	63.1.8
		<i>oblongifolium</i>	107.1.13b	<i>purpurascens</i>	63.1.6
Calamus		<i>parvifolium</i>	107.1.21	<i>rubiginosum</i>	63.2.11
<i>aquatilis</i>	234.4.14	<i>prainianum</i>	107.1.37c	<i>rufum</i>	63.1.6
<i>brevispadix</i>	234.4.59	<i>pulcherrimum</i>	107.1.37c	<i>secundum</i>	63.1.6
<i>curtisii</i>	234.4.15	<i>retusum</i>	107.1.13a/35	<i>subcordatum</i>	63.1.5
<i>distans</i>	234.4.26	<i>rupicola</i>			
<i>distichus</i>	234.4.59			Canavalia	
<i>dumetorum</i>	234.4.34	var. <i>elatum</i>	107.1.22/37c	<i>maritima</i>	122.15.2
<i>elegans</i>	234.4.59	sp. 23	107.1.1	<i>obtusifolia</i>	122.15.2
<i>flabelloides</i>	234.4.17	sp. 44	107.1.38b	<i>turgida</i>	122.15.1
<i>laxiflorus</i>	234.4.26	sp. 45	107.1.10		
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				<i>zizypholia</i>	152.1.1

<i>Canthium</i>		<i>glauca</i>	122.67.	<i>Centranthera</i>	
<i>didymum</i>	175.68.2	<i>hirsuta</i>	122.67.2	<i>humifusa</i>	183.5.2
<i>velutinum</i>	175.62.1	<i>leschenaultiana</i>	122.18.2	<i>Ceolodiscus</i>	
<i>Cantleya</i>		<i>minosoides</i>	122.18.1	<i>subcuneatus</i>	101.45.24
<i>johorica</i>	113.2.1	<i>nodosa</i>	122.16.1	<i>Cephaelis</i>	
<i>Capparis</i>		<i>obtusifolia</i>	122.67.3	<i>albiflora</i>	175.65.48
<i>finlaysoniana</i>	67.1.4a	<i>occidentalis</i>	122.67.4	<i>angustifolia</i>	175.65.30
<i>kunstleri</i>	67.1.8	<i>siamea</i>	122.67.5	<i>elongata</i>	175.65.36
<i>larutensis</i>	67.1.9	<i>surattensis</i>	122.67.	<i>griffithii</i>	175.65.22
<i>paniculata</i>	67.1.3	<i>timoriensis</i>	122.67.7	<i>melanocarpa</i>	175.65.2
<i>perakensis</i>	67.1.5	<i>tora</i>	122.67.8	<i>ridleyi</i>	175.65.28
<i>Carallia</i>		<i>Castanopsis</i>		<i>singaporensis</i>	175.65.45
<i>euryoides</i>	173.2.2	<i>andersonii</i>	102.1.15	<i>subcoriacea</i>	175.65.46
<i>integerrima</i>	173.2.1	<i>hullettii</i>	102.1.10	<i>triceps</i>	175.65.49
<i>lancaefolia</i>	173.2.1	<i>ridleyi</i>	102.1.17	<i>Cephalostachyum</i>	
<i>montana</i>	173.2.2	<i>sumatrana</i>	102.1.7	<i>malayense</i>	220.23.6
<i>scortechinii</i>	173.2.1	<i>Catimbium</i>		<i>Ceratolobus</i>	
<i>spinulosa</i>	173.2.1	<i>assimile</i>	248.1.2	<i>laevigatus</i>	234.7.2
<i>Carapa</i>		<i>latilabre</i>	248.1.9	<i>Ceratostylis</i>	
<i>moluccensis</i>	133.17.1	<i>malaccense</i>		<i>cryptantha</i>	233.124.1
<i>obovata</i>	133.17.2	var. <i>nobilis</i>	248.1.11	<i>linearifolia</i>	233.25.9
<i>Cardiopteris</i>		<i>muticum</i>	248.1.14	<i>linearis</i>	233.124.1
<i>lobata</i>	69.1.1	<i>speciosum</i>	248.1.15	<i>Cerbera</i>	
<i>Carenophila</i>		<i>Cedrela</i>		<i>lactaria</i>	49.7.1
<i>montana</i>	248.10.6	<i>febrifuga</i>	133.14.4	<i>Ceriops</i>	
<i>Carex</i>		<i>Celastrus</i>		<i>candolliana</i>	173.3.2
<i>arridens</i>	215.4.10a	<i>malayensis</i>	73.4.1	<i>Chailletia</i>	
<i>brevighunis</i>	215.4.10a	<i>Celtis</i>		<i>deflexifolia</i>	90.1.8
<i>clarkeana</i>	215.4.3b	<i>collinsae</i>	197.1.1	<i>griffithii</i>	90.1.2
<i>curtisii</i>	215.4.2	<i>Cenchrus</i>		<i>helferiana</i>	90.1.3
<i>ligata</i>	215.4.6	<i>echinatus</i>	220.13.1	<i>hookeri</i>	90.1.8
<i>rivulorum</i>	215.4.10a	<i>Cenolophon</i>		<i>laurocerasus</i>	90.1.4
<i>walkeri</i>	215.4.12	<i>corneri</i>	248.1.5	<i>sordida</i>	90.1.6
<i>Caryota</i>		<i>macrostephanum</i>	248.1.10	<i>tenuifolia</i>	90.1.7
<i>aequatorialis</i>	234.6.2	<i>mollissimum</i>	248.1.12	<i>tesselata</i>	90.1.8
<i>obtusata</i>		<i>oxymitrum</i>	248.1.16	<i>Chamaeanthus</i>	
var. <i>aequatorialis</i>	234.6.2	<i>petiolatum</i>	248.1.18	<i>flavus</i>	233.19.2
<i>Casearia</i>		<i>pulcherrimum</i>	248.1.19	<i>laciniatus</i>	233.19.3
<i>coriacea</i>	103.1.10	<i>vitellinum</i>	248.1.23b	<i>sarcanthoides</i>	233.19.4
<i>latifolia</i>	103.1.2	var. <i>cannaefolium</i>	248.1.23a	<i>Chamaesyce</i>	
<i>leucolepis</i>	103.1.6a	<i>Centipeda</i>		<i>hirta</i>	101.34.4
<i>pallida</i>	103.1.4	<i>orbicularis</i>	78.8.1	<i>hypericifolia</i>	101.34.5
<i>Cassia</i>		<i>Centothea</i>		<i>thymifolia</i>	101.34.7
<i>aeschynomene</i>	122.18.2	<i>latifolia</i>	220.14.1	<i>Champereia</i>	
<i>alata</i>	122.67.1			<i>griffithii</i>	152.2.1

<i>Chassalia</i>		<i>Chlorophytum</i>		<i>heterophyllum</i>	101.24.29
<i>curviflora</i>		<i>orchidastrum</i>	206.1.2	<i>perakensis</i>	101.24.30
var. <i>longifolia</i>	175.11.4	<i>Chonemorpha</i>		<i>pseudomyrianthus</i>	101.24.20
<i>Cheirorchis</i>		<i>macrophylla</i>	49.9.1	<i>siamensis</i>	101.24.11
<i>breviscapa</i>	233.37.1	<i>Chrysoglossum</i>		<i>Cleistocalyx</i>	
<i>filiformis</i>	233.37.2	<i>simplex</i>	233.36.1	<i>operculata</i>	143.3.1
<i>fulgens</i>	233.37.3	<i>villosum</i>	233.106.1	<i>Cleome</i>	
<i>major</i>	233.37.4	<i>Chrysophyllum</i>		<i>icosandra</i>	67.2.4
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<i>Cheirostylis</i>		<i>lanceolatum</i>	181.1.1	<i>disparifolium</i>	200.2.7
<i>flabellata</i>	233.26.2	<i>Chrysopogon</i>		<i>myrmecophilum</i>	200.2.12
<i>Chelonanthera</i>		<i>collinus</i>	220.16.2	<i>penduliflorum</i>	200.2.9
<i>gibbosa</i>	233.104.3	<i>wightianus</i>	220.16.3	<i>siphonanthus</i>	200.2.5
<i>Chelonistele</i>		<i>Cinnanomum</i>		<i>Clethra</i>	
<i>perakensis</i>	233.27.1	<i>cinereum</i>	119.6.18	<i>canescens</i>	76.1.1
<i>pusilla</i>	233.27.1	<i>graciliflorum</i>	119.6.4	<i>Clitoria</i>	
<i>Chickrassia</i>		<i>inunctum</i>	119.6.12	<i>cajanifolia</i>	122.20.1
<i>tabularis</i>	133.5.1	<i>paraneuron</i>	119.6.6	<i>Cnestis</i>	
<i>Chilocarpus</i>		<i>parthenoxylon</i>	119.6.12	<i>palala</i>	
<i>atroviridis</i>	49.8.3	<i>ridleyi</i>	119.6.19	ssp. <i>diffusa</i>	79.2.1
<i>cantleyi</i>	49.8.9	<i>velutimum</i>	119.6.17a	<i>platantha</i>	79.2.1
<i>enervis</i>	49.8.9	<i>Cissampelos</i>		<i>ramiflora</i>	79.2.1
<i>Chionanthus</i>		<i>pariera</i>	135.10.1	<i>Coccoceras</i>	
<i>elaecarpus</i>	150.1.10	<i>Cissus</i>		<i>muticum</i>	101.46.16
<i>macrocarpus</i>	150.1.6	<i>diffusa</i>	203.4.6	var. <i>pedicellatum</i>	101.46.12
<i>platycarpus</i>	150.1.2	<i>discolor</i>	203.4.3	<i>Coccomelia</i>	
<i>Chirita</i>		<i>glaberrima</i>	203.4.5	<i>niuida</i>	75.4.1
<i>parvula</i>	105.5.1	<i>Citrus</i>		<i>Cocculus</i>	
<i>uniflora</i>	105.8.89	<i>malaccensis</i>	176.3.1	<i>elegans</i>	135.3.1
<i>Chisocheton</i>		sp. A	176.4.2	<i>ovalifolius</i>	135.3.1
<i>divergens</i>	133.4.5	<i>Cladium</i>		<i>Codonoboea</i>	
<i>glomeratus</i>	133.4.5	<i>glomeratum</i>	215.16.2	<i>caelestis</i>	105.8.12
<i>laxiflorus</i>	133.4.10	<i>maingayi</i>	215.16.1	<i>ericiflora</i>	105.8.28
<i>macrothyrsus</i>	133.4.2	<i>pulchrum</i>	215.28.1	<i>leucocodon</i>	105.8.46
<i>princeps</i>	133.4.11	<i>undulatum</i>	215.28.1	<i>lilacina</i>	105.8.47
<i>rubiginosus</i>	133.4.11	<i>Clausena</i>		<i>nivea</i>	105.8.55
<i>spicatus</i>	133.4.8a	<i>macrophylla</i>	176.5.2	<i>Coelodepas</i>	
<i>Chloranthus</i>		<i>Cleghornia</i>		<i>glanduligerum</i>	101.42.2
<i>brachystachys</i>	74.2.1	<i>gracilis</i>	49.4.4	<i>Coelodiscus</i>	
<i>officinalis</i>	74.1.1	<i>Cleidion</i>		<i>montanus</i>	101.46.6
<i>Chloris</i>		<i>javanicum</i>	101.23.1	ssp. <i>subcuneatus</i>	101.46.24
<i>dolichostachya</i>	220.30.1	<i>Cleistanthus</i>		<i>Coelogyne</i>	
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<i>blumei</i>	104.2.1	<i>paniculata</i>	84.2.2a/b	<i>kingii</i>	10.1.11
<i>Crepis</i>		<i>Cryptocarya</i>		<i>latebrosa</i>	
<i>japonica</i>	78.38.1	<i>areolata</i>	119.7.13	var. <i>indusiata</i>	10.1.8
<i>Crinonia</i>		<i>argentea</i>	119.7.11	<i>obtusata</i>	10.1.3
<i>carnea</i>	233.104.2a	<i>bubongana</i>	119.7.13	<i>Cyathocalyx</i>	
<i>elizabethiana</i>	233.104.2a	<i>tenuifolia</i>	119.7.19	<i>maingayi</i>	48.23.1
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var. <i>pumila</i>	233.104.2c	<i>johorensis</i>	207.9.7	<i>Cyclosorus</i>	
<i>Crinum</i>		<i>pontederiifolia</i>	207.9.7	<i>aridus</i>	32.4.1
<i>deflexum</i>	205.1.1	<i>Ctenitis</i>		<i>contiguus</i>	32.4.3
<i>northianum</i>	205.1.1	<i>manii</i>	15.3.1	<i>extensus</i>	32.2.2
<i>Crotalaria</i>		<i>Ctenolophon</i>		<i>ferox</i>	32.3.3b
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<i>bialata</i>	122.22.1	<i>Ctenopteris</i>		<i>interruptus</i>	32.2.3
<i>elliptica</i>	122.22.17	<i>alata</i>	17.5.1	<i>larutensis</i>	32.14.3
<i>mucronata</i>	122.22.12	<i>barathrophylla</i>	17.5.2	<i>latipinna</i>	32.4.7
<i>saltiana</i>	122.22.12	<i>celebica</i>	17.5.3	<i>megaphyllus</i>	32.14.7
<i>sericea</i>	122.22.16	<i>contigua</i>	17.5.4	<i>papilio</i>	32.4.4
<i>striata</i>	122.22.12	<i>davalliacea</i>	17.5.5	<i>parasiticus</i>	32.4.5
<i>usaramoensis</i>	122.22.19	<i>khasyana</i>	17.5.2	<i>polycarpus</i>	32.14.8
<i>Croton</i>		<i>leysii</i>	17.5.6	<i>porphyricola</i>	32.14.9
<i>calcicola</i>	101.26.5	<i>moultonii</i>	17.3.1	<i>subpubescens</i>	32.4.2
<i>caudatus</i>		<i>obliquata</i>	17.5.7	<i>sumatranus</i>	32.5.4
var. <i>malaccanus</i>	101.26.4	<i>Cudrania</i>		<i>toppingii</i>	32.14.5
<i>confusus</i>	101.26.9	<i>javensis</i>	139.6.2	<i>truncata</i>	32.11.3
<i>cuningii</i>	101.26.3	<i>Curanga</i>		<i>unitus</i>	32.14.11
<i>griffithii</i>	101.26.9	<i>amara</i>	183.12.1	<i>Cymbidium</i>	
<i>sparsiflorus</i>	101.26.2	<i>Curculigo</i>		<i>munronianum</i>	233.41.6
<i>Crudia</i>		<i>capitulata</i>	223.2.1	<i>pubescens</i>	233.41.3
<i>brevipes</i>	122.23.4	<i>latifolia</i>	223.2.2a	<i>simulans</i>	233.41.1
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<i>Crypsinopsis</i>		<i>megacarpa</i>	223.2.2b	<i>Cynanchum</i>	
<i>enervis</i>	28.16.2	<i>recurvata</i>	223.2.1	<i>laeve</i>	54.6.3
<i>platyphyllus</i>	28.16.7	<i>villosa</i>	223.2.2a	<i>Cynoctonum</i>	
<i>subfasciatus</i>	28.16.9	<i>Curtisina</i>		<i>mitreola</i>	125.3.1
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<i>enervis</i>	28.16.2	<i>hygrophilae</i>	80.4.1	<i>polyandra</i>	
<i>laciniatus</i>	28.16.4	<i>Cyanotis</i>		var. <i>kurzii</i>	122.47.1
<i>platyphyllus</i>	28.16.7	<i>barbata</i>	211.4.2	<i>ramiflora</i>	
<i>stenophyllus</i>	28.16.8	<i>capitata</i>	211.2.1	var. <i>mimosoides</i>	122.24.1
<i>subfasciatus</i>	28.16.9	<i>Cyathea</i>		<i>Cyperus</i>	
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var. <i>palmatus</i>	28.16.10a			<i>babakensis</i>	215.5.1
<i>trilobus</i>	28.16.11			<i>bancanus</i>	215.5.31
<i>wrayi</i>	28.16.12			<i>brevifolius</i>	215.12.1
				<i>diffusus</i>	215.5.18a

<i>var. macrostachyus</i>	215.5.18b	<i>var. subelatum</i>	38.2.3	<i>aureum</i>	233.44.27
<i>var. pubisquama</i>	215.5.18b	<i>falciforme</i>	38.3.1	<i>bifidum</i>	233.59.2
<i>digitatus</i>	215.5.12	Daemonorops		<i>calcaratum</i>	233.44.43
<i>haspan</i>	215.5.14a/b	<i>carcharodon</i>	234.11.1	<i>callibotrys</i>	233.44.48
<i>kyllingia</i>	215.12.2b	<i>hygrophila</i>	234.11.1	<i>carnosum</i>	233.44.13
<i>melanospermus</i>		<i>imbellis</i>	234.11.21	<i>chloroleucum</i>	233.44.76
<i>ssp. bifolius</i>	215.12.2b	<i>lasiospatha</i>	234.11.20	<i>clarissimum</i>	233.44.63
<i>ssp. melanospermus</i>	215.12.2a	<i>microthamna</i>	234.11.3	<i>comatum</i>	233.59.4
<i>pedunculatus</i>	215.21.1	<i>pseudosepal</i>	234.11.10	<i>convexum</i>	233.59.5
<i>polystachyos</i>	215.20.1	<i>scortechinii</i>	234.11.21	<i>dalhousieanum</i>	233.44.59
<i>pumilus</i>	215.20.1	<i>ursina</i>	234.30.1	<i>distichophyllum</i>	233.44.65
<i>radiatus</i>	215.5.12/15	<i>vagans</i>	234.11.8	<i>eriaeflorum</i>	233.44.32
<i>sanguinolentus</i>		Dalbergia		<i>eulophotum</i>	233.44.33
<i>ssp. cyrtostachys</i>	215.20.3a	<i>rostrata</i>	122.25.10	<i>euphlebium</i>	233.44.73
<i>ssp. sanguinolentus</i>	215.20.3b	<i>scortechinii</i>	122.25.4	<i>flavidulum</i>	233.44.72
<i>substramineus</i>	215.20.3b	<i>stercoracea</i>	122.25.4	<i>gemellum</i>	233.44.34/66
<i>triceps</i>	215.11.4	<i>tamarindifolia</i>	122.25.9	<i>geminatum</i>	233.53.1
<i>uncinatus</i>	215.5.5	<i>torta</i>	122.25.1	<i>gracile</i>	233.44.69
<i>zollingeri</i>	215.5.29	Dapania		<i>haniffii</i>	233.44.79
Cyrtandra		<i>scandens</i>	153.3.1	<i>hercoglossum</i>	233.44.41
<i>dispar</i>		Daphne		<i>kelsalii</i>	233.59.1/3
<i>var. glabriflora</i>	105.6.11	<i>pendula</i>	193.2.1	<i>laciniosum</i>	233.59.8
<i>grandiflora</i>	105.6.12	Daphniphyllum		<i>lepidum</i>	233.44.29
<i>pilosa</i>	105.6.12	<i>bancanum</i>	88.1.2	<i>linguella</i>	233.44.26
Cyrtandromoea		<i>lanceifolium</i>	88.1.1	<i>longicolle</i>	233.50.1
<i>acuminata</i>	183.7.3	<i>scortechinii</i>	88.1.1	<i>longipes</i>	233.53.2
<i>repens</i>	118.6.1	Davallia		<i>luxurians</i>	233.59.9
Cyrtococcum		<i>dimorpha</i>	11.1.4a	<i>macropodium</i>	233.53.3
<i>carinatum</i>	220.21.3	Decaspermum		<i>melanochlanys</i>	233.44.85
Cyrtophyllum		<i>fruticosum</i>	143.4.1b	<i>padangense</i>	233.59.7
<i>giganteum</i>	125.1.13	<i>paniculatum</i>	143.4.1b	<i>pierardii</i>	233.44.6
<i>lanceolatum</i>	125.1.11	Deeringia		<i>plicatile</i>	233.59.6
<i>peregrinum</i>	125.1.11	<i>celosioides</i>	44.7.1	<i>pumilum</i>	233.44.50
<i>speciosum</i>		<i>indica</i>	44.7.2	<i>quadrangulare</i>	233.44.30
<i>var. montanum</i>	125.1.9	Dehaasia		<i>revolutum</i>	233.44.83
Cyrtosperma		<i>cuneata</i>	119.8.1/9	<i>serpens</i>	233.44.53
<i>lasioides</i>	207.10.1	<i>curtisii</i>	119.8.7	<i>serra</i>	233.44.4
Cyrtostachys		<i>elliptica</i>	119.8.8	<i>superbum</i>	233.44.5
<i>lakka</i>	234.10.1	<i>microcarpa</i>	119.8.3	<i>teres</i>	233.44.70
Cystopteris		<i>nigrescens</i>	119.2.11	<i>terminale</i>	233.44.44
<i>tenuisecta</i>	34.1.1	Delima		<i>tetrodon</i>	233.44.75
Cystopus		<i>sarmentosa</i>	91.3.9	<i>virescens</i>	233.44.53
<i>macrantlius</i>	233.115.1	Dendrobium		<i>xantholeucum</i>	233.59.11
Dacrydium		<i>aegle</i>	233.44.18	<i>zebrinum</i>	233.53.4
<i>beccarii</i>		<i>atropurpureum</i>	233.44.13	Dendrocalamus	
				<i>flagellifer</i>	220.23.1
				Dendrochilum	
				<i>album</i>	233.45.11
				Dendrocolla	
				<i>alba</i>	233.136.29
				<i>brachyglottis</i>	233.141.1

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| <i>carinatifolia</i> | 233.136.6 | <i>Dichiloboea</i> | | <i>Dimorphocalyx</i> | |
| <i>carnosa</i> | 233.136.7 | <i>speciosa</i> | 105.20.1 | <i>capillipes</i> | 101.69.3 |
| <i>ciliata</i> | 233.19.1 | | | <i>kunstleri</i> | 101.28.2 |
| <i>filiformis</i> | 233.37.2 | <i>Dichrocephala</i> | | <i>Dinebra</i> | |
| <i>maculata</i> | 233.136.23 | <i>latifolia</i> | 78.13.1 | <i>arabica</i> | 220.26.4b |
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| <i>psiloglottis</i> | 233.136.19 | <i>breviflora</i> | 105.8.11 | <i>montana</i> | 220.53.1 |
| <i>trichoglottis</i> | 233.136.29 | <i>filicina</i> | 105.7.10 | <i>scandens</i> | 220.27.1 |
| <i>Derris</i> | | | | <i>tjankorreh</i> | 220.27.1 |
| <i>dalbergioides</i> | 122.27.6 | <i>Didymocarpus</i> | | <i>Dioscorea</i> | |
| <i>heptaphylla</i> | 122.5.1 | <i>corchorifolius</i> | 105.8.6 | <i>aculeata</i> | 216.1.3 |
| <i>sinuata</i> | 122.5.1 | <i>grandiflorus</i> | 105.8.69 | <i>gibbiflora</i> | 216.1.4 |
| <i>thyrsiflora</i> | 122.5.2 | <i>kompsooea</i> | 105.8.48 | <i>myriantha</i> | 216.1.4 |
| <i>uliginosa</i> | 122.27.8 | <i>lacunosus</i> | 105.5.5 | <i>porteri</i> | 216.1.7 |
| <i>Desmodium</i> | | <i>lanceolatus</i> | 105.8.27 | <i>triphylla</i> | 216.1.6 |
| <i>capitatum</i> | 122.29.11 | <i>perdiia</i> | 105.8.63 | <i>zollingeriana</i> | 216.1.20 |
| <i>gyroides</i> | 122.21.1 | <i>pubiflorus</i> | 105.8.84 | | |
| <i>laburnifolium</i> | 122.29.2 | sp. | 105.8.6 | | |
| <i>lasiocarpum</i> | 122.29.13 | <i>Didymoplexis</i> | | <i>Diospyros</i> | |
| <i>ormocarpoides</i> | 122.29.14 | <i>ornata</i> | 233.46.1 | <i>bilocularis</i> | 94.1.33 |
| <i>ovalifolium</i> | 122.29.4b | <i>Didymosperma</i> | | <i>brachiata</i> | 94.1.25 |
| <i>polycarpum</i> | 122.29.4a | <i>hastata</i> | 234.2.1/2 | <i>caliginosa</i> | 94.1.10 |
| <i>pulchellum</i> | 122.59.1 | <i>Digitaria</i> | | <i>clavigera</i> | |
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| <i>scalpe</i> | 122.29.10 | <i>caespitosa</i> | 220.25.10 | <i>cordifolia</i> | 94.1.35 |
| <i>trifoliastrium</i> | 122.29.1 | <i>chinensis</i> | 220.25.10 | <i>cynosa</i> | 94.1.23 |
| <i>triquetrum</i> | 122.76.1 | <i>dispar</i> | 220.25.4 | <i>dumosa</i> | 94.1.52 |
| <i>umbellatum</i> | 122.26.2 | <i>longiflora</i> | 220.25.10 | <i>flavicans</i> | 94.1.52 |
| <i>virgatum</i> | 122.29.13 | <i>marginata</i> | 220.25.1 | <i>graciliflora</i> | 94.1.52 |
| <i>Desmotrichum</i> | | var. <i>ciliaris</i> | 220.25.9a | <i>helferi</i> | 94.1.40b |
| <i>ardenii</i> | 233.59.1 | var. <i>commutata</i> | 220.25.9b | <i>hendersonii</i> | 94.1.52 |
| <i>bifidum</i> | 233.59.2 | var. <i>debilis</i> | 220.25.8 | <i>horsfieldii</i> | 94.1.25 |
| <i>criniferum</i> | 233.59.4 | <i>microbachne</i> | 220.25.9b | <i>kunstleri</i> | 94.1.23 |
| <i>fimbriatum</i> | 233.59.6 | ssp. <i>calliblepharata</i> | 220.25.9a | <i>lucida</i> | 94.1.31 |
| <i>kelsallii</i> | 233.59.1 | <i>microstachya</i> | 220.25.9a | <i>microphylla</i> | 94.1.9 |
| <i>lacinosum</i> | 233.59.8 | <i>pertenuis</i> | 220.25.10 | <i>oblonga</i> | 94.1.40d |
| <i>lonchophyllum</i> | 233.59.3 11 | <i>pusilla</i> | 220.25.10 | <i>oleifolia</i> | 94.1.39 |
| <i>pallidiflorum</i> | 233.59.11 | <i>timorensis</i> | 220.25.8 | <i>pubicarpa</i> | 94.1.30 |
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| <i>aspidioides</i> | 15.8.1 | <i>aurea</i> | 91.2.5 | <i>reflexa</i> | 94.1.41 |
| <i>Dialium</i> | | <i>eximia</i> | 91.2.3 | <i>siamensis</i> | 94.1.34 |
| <i>kingii</i> | 122.30.3 | <i>meliosmifolia</i> | 91.2.10 | <i>trunciflora</i> | 94.1.10 |
| <i>laurinum</i> | 122.30.1b | <i>scortechinii</i> | 91.2.3 | <i>tubicalyx</i> | 94.1.52 |
| <i>maingayi</i> | 122.30.3 | <i>Dimeria</i> | | <i>wrayi</i> | 94.1.30 |
| <i>patens</i> | 122.30.1b | <i>fuscescens</i> | 220.26.1 | <i>Diplachne</i> | |
| <i>wallichii</i> | 122.30.3 | <i>glabra</i> | 220.26.4a | <i>fusca</i> | 220.50.2 |
| <i>Dianella</i> | | <i>velutina</i> | 220.26.3 | <i>malayana</i> | 220.50.3 |
| <i>parviflora</i> | 237.1.1 | | | <i>Diplanthera</i> | |
| | | | | <i>bancana</i> | 59.1.1 |

<i>Diplazium</i>		<i>Dolichandrone</i>		<i>macrothyrsum</i>	133.7.10
<i>asperum</i>	34.5.18	<i>rheedei</i>	59.2.1	<i>pulchrum</i>	133.7.2
<i>heterophlebium</i>	34.4.1	<i>Donax</i>		<i>sp.</i>	1133.7.5
<i>silvaticum</i>	34.5.2	<i>arundastrum</i>	230.4.1	<i>thyrsoidesum</i>	133.7.2
<i>Diplospora</i>		<i>Dracaena</i>		<i>turbinatum</i>	133.7.10
<i>minutiflora</i>	175.31.6	<i>aurantiaca</i>	217.1.2	<i>undulatum</i>	133.7.17
<i>pubescens</i>	175.17.2	<i>congesta</i>	217.1.3	<i>venulosum</i>	133.7.7
<i>Diplycosia</i>		<i>curtisii</i>	217.1.4	<i>Ecdysanthera</i>	
<i>cordifolia</i>	98.3.1	<i>graminifolia</i>	217.1.7	<i>micrantha</i>	49.28.5
<i>latifolia</i>	98.3.2	<i>penangensis</i>	217.1.10	<i>multiflora</i>	49.28.5
<i>microphylla</i>	98.3.1	<i>robusta</i>	217.1.4	<i>rosea</i>	49.28.6
<i>Dipteracanthus</i>		<i>Dracontomelon</i>		<i>Eclipta</i>	
<i>prostratus</i>	39.23.2	<i>mangiferum</i>	45.6.1	<i>alba</i>	78.14.1
<i>repens</i>	39.23.3	<i>Drepananthus</i>		<i>Egenolfia</i>	
<i>ventricosus</i>	39.23.4	<i>carinatus</i>	48.5.1	<i>appendiculata</i>	19.1.1
<i>Dipterocarpus</i>		<i>pruniferus</i>	48.5.4	<i>Ehretia</i>	
<i>alatus</i>	92.3.24	<i>ramuliflorus</i>	48.5.5	<i>buxifolia</i>	61.2.1
<i>appendiculatus</i>	92.3.13	<i>Drymoglossum</i>		<i>Elaeagnus</i>	
<i>apterus</i>	92.3.12	<i>piloselloides</i>	28.15.6	<i>latifolia</i>	95.1.1
<i>duperreanus</i>	92.3.2	<i>Dryobalanops</i>		<i>Elaeocarpus</i>	
<i>penangianus</i>	92.3.3	<i>aromatica</i>	92.4.2	<i>ganitrus</i>	96.1.3
<i>pseudofagineus</i>	92.3.14	<i>beccariana</i>	92.4.1	<i>glabrescens</i>	96.1.7b
<i>skinneri</i>	92.3.4	<i>oblongifolia</i>	92.4.1	<i>hullettii</i>	96.1.18
var. <i>hirtus</i>	92.3.4	<i>Duabanga</i>		<i>jackianus</i>	96.1.7a
<i>Dischidia</i>		<i>sonneratioides</i>	128.3.1	<i>kunstleri</i>	96.1.25
<i>coccinea</i>	54.7.6	<i>Duchesnea</i>		<i>leptomischus</i>	96.1.18
<i>collyris</i>	54.7.3	<i>indica</i>	174.3.1	<i>longifolius</i>	
<i>cordifolia</i>	54.7.21b	<i>Dunbaria</i>		var. <i>fusiformis</i>	96.1.28
<i>depressa</i>	54.7.11	<i>scortechinii</i>	122.32.1	<i>macrocarpus</i>	96.1.24b
<i>ericiflora</i>	54.7.21b	<i>Durio</i>		<i>obtusius</i>	96.1.14
<i>fultonii</i>	54.7.2	<i>wrayi</i>	60.3.5	<i>paniculatus</i>	96.1.11
<i>gaudichaudii</i>	54.7.14	<i>Dyera</i>		<i>parvifolius</i>	96.1.17a
<i>monticola</i>	54.7.21b	<i>laxiflora</i>	49.11.1	<i>reticulatus</i>	96.1.1b
<i>rafflesiana</i>	54.7.13	<i>Dysolobium</i>		var. <i>cuspidatus</i>	96.1.12
<i>tubuliflora</i>	54.7.8	<i>pilosum</i>	122.80.5	<i>robustus</i>	
<i>viridiflora</i>	54.7.17	<i>Dysophylla</i>		var. <i>ovalis</i>	96.1.9
<i>Discospermum</i>		<i>auricularia</i>	118.15.1	<i>salicifolius</i>	96.1.17b
<i>beccarianum</i>	175.17.1	<i>verticillata</i>	118.15.4	<i>sphaericus</i>	96.1.2
<i>Disepalum</i>		<i>Dysoxylum</i>		<i>tahanensis</i>	96.1.8b
<i>anomalum</i>	48.9.1	<i>alternatum</i>	133.7.7	<i>wrayi</i>	96.1.17d
<i>Disporum</i>		<i>corneri</i>	133.7.12	<i>Elaeodendron</i>	
<i>pullum</i>	212.1.1	<i>costulatum</i>	133.7.2	<i>subrotundum</i>	73.3.1
<i>Dissochaeta</i>		<i>interruptum</i>	133.7.12	<i>Elaphoglossum</i>	
<i>anomala</i>	132.6.1			<i>callifolium</i>	19.2.5
<i>hirsuta</i>	132.7.11a			<i>decurrens</i>	19.2.1
				<i>melanostictum</i>	19.4.1
				<i>yunnanense</i>	19.2.2

<i>Eleocharis</i>		<i>ovalifolium</i>	101.31.1	<i>larutensis</i>	233.55.31
<i>capitata</i>	215.7.4	<i>perakense</i>	101.45.1	<i>latifolia</i>	233.55.18
<i>chaetaria</i>	215.7.7	<i>Engelhardia</i>		<i>leptocarpa</i>	233.55.47
<i>equisetina</i>	215.7.3	<i>nudiflora</i>	117.1.3	<i>linearifolia</i>	233.55.42
<i>fistulosa</i>	215.7.1	<i>wallichiana</i>	117.1.2	<i>longifolia</i>	233.15.1
<i>plantaginea</i>	215.7.3	<i>Enhalus</i>		<i>lorifolia</i>	233.55.42
<i>variegata</i>	215.7.8	<i>koenigii</i>	222.2.1	<i>microphylla</i>	233.139.5
<i>Elettariopsis</i>		<i>Enhydrias</i>		<i>monticola</i>	233.139.6
<i>latiflora</i>	248.7.2	<i>angustipetala</i>	222.1.2a	<i>pendula</i>	233.55.27
<i>longituba</i>	248.6.1	var. <i>latifolia</i>	222.1.2b	<i>poculata</i>	233.139.7
<i>pubescens</i>	248.2.2	<i>Entada</i>		<i>pubescens</i>	233.55.21
<i>Eleusine</i>		<i>schefferi</i>	122.33.1	<i>reptans</i>	233.55.9
<i>indica</i>		<i>Epigynum</i>		<i>ridleyi</i>	233.55.31
var. <i>coracana</i>	220.28.3	<i>perakense</i>	49.12.3	<i>rigida</i>	233.55.27
<i>Ellipanthus</i>		<i>Epipremnopsis</i>		<i>rotundifolia</i>	233.139.8
<i>curtisii</i>	79.4.1b	<i>media</i>	207.5.2	<i>saccata</i>	233.55.43
<i>gibbosus</i>	79.4.1a	<i>Epipremnum</i>		<i>stellata</i>	233.55.19
<i>griffithii</i>	79.4.1b	<i>mirabile</i>	207.11.2	<i>striolata</i>	233.55.19
<i>scortechinii</i>	90.1.1	<i>Eragrostis</i>		<i>tahanensis</i>	233.55.31
<i>Elytranthe</i>		<i>amabilis</i>	220.31.9	<i>teretifolia</i>	233.55.35
<i>avenis</i>	127.11.1	<i>cambessediana</i>	220.31.4	<i>teysmanii</i>	233.139.9
<i>barnesii</i>	127.11.2	<i>elegantula</i>	220.31.2	<i>velutina</i>	233.139.10
<i>diantha</i>	127.11.3	<i>elongata</i>	220.31.3	<i>vestita</i>	233.139.11
<i>formosa</i>	127.11.4	<i>interrupta</i>	220.31.5	<i>Erigeron</i>	
<i>globosa</i>	127.11.2	<i>malayana</i>	220.31.7	<i>sumatrensis</i>	78.11.1
<i>kunstleri</i>	127.11.4	<i>pilosa</i>	220.31.3	<i>Eriocaulon</i>	
<i>lowii</i>	127.11.5	<i>pubescens</i>	220.31.6	<i>glabriflorum</i>	218.1.7
<i>maingayi</i>	127.5.2	<i>tenella</i>	220.31.1	<i>longifolium</i>	218.1.8
<i>papillosa</i>	127.11.6	<i>viscosa</i>	220.31.1	<i>sexangulare</i>	218.1.8
<i>platyphylla</i>	127.11.7	<i>Eremochloa</i>		<i>Eriochloa</i>	
<i>retusa</i>	127.11.8	<i>malayana</i>	220.32.1	<i>annulata</i>	220.34.1
<i>robinsonii</i>	127.11.9	<i>Eria</i>		<i>Erioglossum</i>	
<i>rubra</i>	127.2.1	<i>aeridostachya</i>	233.55.42	<i>edule</i>	180.11.5
<i>tubaeiflora</i>	127.11.10	<i>albidotomentosa</i>	233.55.21	<i>Ervatamia</i>	
<i>wrayi</i>	127.11.3	<i>aporina</i>	233.139.1	<i>coronaria</i>	49.27.4
<i>Embelia</i>		<i>bidens</i>	233.55.18	<i>corymbosa</i>	49.27.1
<i>amentacea</i>	142.5.1	<i>braddonii</i>	233.55.22	var. <i>kelsallii</i>	49.27.2
<i>fulva</i>	142.5.2	<i>brunea</i>	233.55.42	<i>curtisii</i>	49.27.2
<i>garciniifolia</i>	142.4.10	<i>carnea</i>	233.55.20	<i>cylindricocarpa</i>	49.27.2
<i>lampani</i>	142.5.3	<i>carunculata</i>	233.55.1	<i>hirta</i>	49.27.1
<i>ridleyi</i>	141.1.1	<i>crassifolia</i>	233.55.9	<i>jasminiflora</i>	49.27.1
<i>Emblica</i>		<i>endymion</i>	233.55.17	<i>malaccensis</i>	49.27.6
<i>pectinata</i>	101.54.7	<i>ferox</i>	233.139.2	<i>pauciflora</i>	49.27.1
<i>Endopogon</i>		<i>gracilis</i>	233.139.3	<i>peduncularis</i>	49.27.7
<i>ridleyi</i>	39.27.9	<i>hispidissima</i>	233.139.4	<i>polyneura</i>	49.27.3
<i>Endospermum</i>				<i>Erycibe</i>	
<i>malaccense</i>	101.31.1			<i>angulata</i>	80.5.12
				<i>glomerata</i>	80.5.2

<i>griffithii</i>	80.5.9	var. <i>excavata</i>	143.10.17b	<i>johorensis</i>	143.10.92/101b
<i>princii</i>	80.5.16b	var. <i>leptalea</i>	143.10.17a	<i>jugalis</i>	143.10.69
<i>Erythrina</i>		var. <i>maingayi</i>	143.10.17d	<i>kemamanensis</i>	143.10.49
<i>atrosanguinea</i>	122.35.1	var. <i>montana</i>	143.10.17e	<i>kiahii</i>	143.10.50b
<i>indica</i>	122.35.3	var. <i>riparia</i>	143.10.17f	var. <i>angustifolia</i>	143.10.50a
<i>lithosperma</i>	122.35.2	<i>clypeolata</i>	143.10.18	<i>klossii</i>	143.10.51
<i>orientalis</i>	122.35.3	<i>conglomerata</i>	143.10.19a	<i>koordersiana</i>	143.10.52
<i>ovalifolia</i>	122.35.1	var. <i>paniculata</i>	143.10.19b	<i>kunstleri</i>	143.10.53
<i>rostrata</i>	122.35.3	<i>cordifoliata</i>	143.10.20	<i>laevicaulis</i>	143.10.68a
<i>Erythroides</i>		<i>corrugata</i>	143.10.25	<i>laxiuscula</i>	143.10.68b
<i>brevicalcar</i>	233.56.1	<i>crenulata</i>	143.10.89	<i>lepidocarpa</i>	143.10.73
<i>humilis</i>	233.56.2	var. <i>cumingiana</i>	143.1.1	<i>leptantha</i>	143.10.17a
<i>Erythropsis</i>		<i>curtisii</i>	143.10.21a	<i>leptostemon</i>	143.10.54
<i>fulgens</i>	187.4.1	var. <i>holtumii</i>	143.10.21b	<i>leucoxydon</i>	143.10.55
<i>Erythrospermum</i>		var. <i>minor</i>	143.10.21c	<i>linnaea</i>	143.10.68b
<i>scortechinii</i>	103.2.1	<i>cymosa</i>	143.10.115	<i>lineata</i>	143.10.56
<i>Erythroxylum</i>		<i>cyrtophylloides</i>	143.10.22	<i>linoceroidea</i>	143.10.57
<i>burmanicum</i>	99.1.1	<i>densiflora</i>	143.10.94	<i>longicaudata</i>	143.10.129
<i>Eugenia</i>		<i>diospyrifolia</i>	143.10.23	<i>longiflora</i>	143.10.56
<i>acuminatissima</i>	143.1.1	<i>duthieana</i>	143.10.24	<i>malayana</i>	143.10.59
<i>alata</i>	143.10.125	<i>dyeriana</i>	143.10.25	<i>microcalyx</i>	143.10.6
<i>alyxiifolia</i>	143.10.1	<i>evansii</i>	143.10.12	var. <i>irregularis</i>	143.10.6
<i>anisosepala</i>	143.10.3	<i>expansa</i>	143.10.12	<i>millsii</i>	143.10.60
<i>attonervia</i>	143.10.25	<i>fastigiata</i>	143.10.26	<i>mollis</i>	143.10.91
<i>attenuata</i>	143.10.4a	<i>filiformis</i>	143.10.27c	<i>muelleri</i>	143.10.61
var. <i>montana</i>	143.10.4b	var. <i>clavimyrthus</i>	143.10.27a	<i>myriantha</i>	143.10.62
var. <i>ophiurensis</i>	143.10.4c	var. <i>constricta</i>	143.10.27b	<i>myrtifolia</i>	143.10.9
<i>auriculata</i>	143.10.43	<i>flosculifera</i>	143.10.28	<i>napiformis</i>	143.10.63
<i>avenis</i>	143.10.5	<i>foxworthiana</i>	143.10.29	<i>nemestrina</i>	143.10.64
<i>balsamea</i>	143.10.84a	<i>foxworthyi</i>	143.10.29	<i>ngadimaniana</i>	143.10.65
<i>benjamina</i>	143.10.81	<i>fusiformis</i>	143.10.35	<i>nigricans</i>	143.10.66
<i>bernardi</i>	143.10.47a	<i>fusticulifera</i>	143.10.30	<i>nitidula</i>	143.10.67
<i>bracteolata</i>	143.10.26	<i>gageana</i>	143.10.31	<i>oblata</i>	143.10.68a/b
<i>brantiana</i>	143.10.68b	<i>garcinifolia</i>	143.10.32	<i>oblongifolia</i>	143.10.58
<i>burkilliana</i>	143.10.7a	<i>glauca</i>	143.10.33	<i>oleina</i>	143.10.9
var. <i>garcinifolioides</i>	143.10.7b	var. <i>pseudoglauca</i>	143.10.33	<i>operculata</i>	143.3.1
<i>camptophylla</i>	143.10.10	<i>goniocalyx</i>	143.10.8	<i>oreophila</i>	143.10.69
<i>castanea</i>	143.10.11	<i>goodenovii</i>	143.10.34/101b	<i>orites</i>	143.10.70
<i>caudata</i>	143.10.124	<i>graeme-andersoniae</i>	143.10.36	<i>pachyphylla</i>	143.10.71
<i>cerasiformis</i>	143.10.12	<i>grandis</i>	143.10.37	<i>pahangensis</i>	
<i>cerina</i>	143.10.13a	<i>grata</i>	143.10.38	var. <i>fraseri</i>	143.10.72a
var. <i>montana</i>	143.10.13b	<i>griffithii</i>	143.10.39	var. <i>pahangensis</i>	143.10.72b
var. <i>turbinata</i>	143.10.13c	<i>haniffii</i>	143.10.40	<i>palembanica</i>	143.10.73
<i>chlorantha</i>	143.10.14	<i>helferi</i>	143.10.41	<i>pallidula</i>	143.10.74
<i>chloroleuca</i>	143.10.15	<i>hemsleyana</i>	143.10.42	<i>papillosa</i>	143.10.75
<i>cinerea</i>	143.10.16	<i>holtumii</i>	143.10.21b	<i>pauper</i>	143.10.76
<i>claviflora</i>	143.10.17a	<i>hoseana</i>	143.10.44	<i>pearsoniana</i>	143.10.77
		<i>hulletiana</i>	143.10.45	<i>penangiana</i>	143.10.4a
		<i>inasensis</i>	143.10.46	<i>pendens</i>	143.10.78
		<i>inophylla</i>	143.10.47b	<i>perakensis</i>	143.10.79
		var. <i>bernardi</i>	143.10.47a	<i>pergametacea</i>	143.10.80
		<i>jasminifolia</i>	143.10.48	<i>plumbea</i>	143.10.82
				<i>polita</i>	143.10.83

<i>polyantha</i>	143.10.84a	<i>tiumanensis</i>	143.10.123	<i>Fagraea</i>	
var. <i>sessilis</i>	143.10.84b	<i>trunciflora</i>	143.10.119	<i>flavidula</i>	125.1.5
<i>porphyranthera</i>	143.10.87	<i>tumida</i>	143.10.95	<i>fragrans</i>	125.1.13/17
<i>praestigiosa</i>	143.10.85	<i>urceolata</i>	143.10.54	<i>ligustrina</i>	125.1.14
<i>prainiana</i>	143.10.86	<i>valdevenosa</i>	143.10.125	<i>maingayi</i>	125.1.14
var. <i>pearsoniana</i>	143.10.77	<i>variolosa</i>	143.10.126	<i>oblonga</i>	125.1.6
<i>pseudoclaviflora</i>	143.10.88	<i>venulosa</i>	143.10.61	<i>obovata</i>	125.1.1
<i>pseudocrenulata</i>	143.10.89	<i>verecunda</i>	143.10.55	<i>pauciflora</i>	125.1.14
<i>pseudoformosa</i>	143.10.90	<i>virens</i>	143.10.35	<i>rotundifolia</i>	125.1.5
<i>pseudoglauca</i>	143.10.33	<i>viridescens</i>	143.10.127	<i>vaginata</i>	125.1.3
<i>pseudomollis</i>	143.10.91	<i>watsoniana</i>	143.9.2		
<i>pseudosubtilis</i>	143.10.16	<i>wrayi</i>	143.10.128	<i>Fahrenheitia</i>	
<i>pseudosyzygioides</i>	143.10.115	<i>zeylanica</i>	143.10.129	<i>pendula</i>	101.54.1
<i>pseudotetraptera</i>	143.10.121a			<i>Fibraurea</i>	
<i>punctulata</i>	143.10.13a	<i>Eulalia</i>		<i>chloroleuca</i>	135.7.1
<i>pustulata</i>	143.10.93	<i>praemorsa</i>	220.71.1		
<i>pyrifolia</i>	143.10.95	<i>Eulophia</i>		<i>Ficus</i>	
<i>quadrata</i>	143.10.96	<i>bicarinata</i>	233.58.2	<i>acamptophylla</i>	139.4.85a
<i>quadribRACTEATA</i>	143.10.97	<i>keithii</i>	233.58.1	<i>alba</i>	139.4.35a
<i>rhizophylla</i>	143.10.4d	<i>macrorrhiza</i>	233.58.5	<i>burkillii</i>	139.4.23d
<i>rhomboidea</i>	143.10.98	<i>macrostachya</i>	233.91.2	<i>callicarpa</i>	139.4.6b
<i>ridleyi</i>	143.10.99	<i>pulchra</i>	233.91.2	<i>celebica</i>	
<i>robinsoniana</i>	143.10.12	<i>squalida</i>	233.58.4	var. <i>kunstleri</i>	139.4.56b
<i>rostandonis</i>	143.10.100			<i>chamaecarpa</i>	139.4.101
<i>rugosa</i>	143.10.101b	<i>Euodia</i>		<i>chrysocarpa</i>	139.4.7a
var. <i>cordata</i>	143.10.101a	<i>euneura</i>	176.10.7	<i>chrysocarpa</i>	139.4.32
<i>salicoides</i>	143.10.102	<i>glabra</i>	176.10.3	<i>copiosa</i>	139.4.49
<i>scalarinervis</i>	143.10.103	<i>latifolia</i>	176.10.1/2	<i>cunia</i>	139.4.76
<i>scoparia</i>	143.10.5	<i>macrocarpa</i>	176.10.7	<i>cuspidata</i>	139.4.77a
<i>scortechinii</i>	143.10.104b	<i>malayana</i>	176.10.6	<i>diversifolia</i>	
var. <i>cuneata</i>	143.10.104a	<i>meliifolia</i>	176.17.1	var. <i>deltoidea</i>	139.4.23c
<i>selangorensis</i>	143.10.73	<i>pilulifera</i>	176.10.1	var. <i>kunstleri</i>	139.4.23e
<i>setosa</i>	143.10.105	<i>robusta</i>	176.10.4	var. <i>lutescens</i>	139.4.23d
<i>siamensis</i>	143.10.106	<i>roxburghiana</i>	176.10.6	var. <i>ovoidea</i>	139.4.23a
<i>spicata</i>	143.10.38/129	<i>simplicifolia</i>	176.10.9	<i>fasciculata</i>	139.4.75
<i>spissifolia</i>	143.10.109			<i>gibbosa</i>	139.4.88
<i>stapfiana</i>	143.10.110	<i>Euonymus</i>		<i>glabella</i>	139.4.99a
<i>subdecussata</i>	143.10.111b	<i>coriaceus</i>	73.5.3	<i>indica</i>	139.4.86b
var. <i>moutana</i>	143.10.111a	<i>micropetalus</i>	73.5.3	var. <i>gelderii</i>	139.4.60
<i>subhorizontalis</i>	143.10.112	<i>pahangensis</i>	73.5.1	<i>infectoria</i>	139.4.99a/c
<i>subrufa</i>	143.10.113	<i>rufulus</i>	73.5.4	<i>lepidosa</i>	139.4.44
<i>swettenhamiana</i>	143.10.114			<i>microstoma</i>	139.4.62
<i>symingtoniana</i>	143.9.1	<i>Eupatorium</i>		<i>miquelii</i>	139.4.74
<i>syzygioides</i>	143.10.115	<i>odoratum</i>	78.9.1	<i>motleyana</i>	139.4.23f
<i>tahanensis</i>	143.10.116	<i>Eurya</i>		<i>obscura</i>	139.4.56a
<i>taipingensis</i>	143.10.117	<i>monticola</i>	192.3.1	<i>obtusata</i>	139.4.89
<i>tecta</i>	143.10.118	<i>wrayi</i>	192.3.1	<i>obtusifolia</i>	139.4.21
<i>tekuensis</i>	143.10.119			<i>patens</i>	139.4.32
<i>tetraptera</i>	143.10.121b	<i>Eurycles</i>		<i>pilosa</i>	139.4.26
var. <i>pseudotetraptera</i>	143.10.121a	<i>sylvestris</i>	205.2.1	<i>pisifera</i>	139.4.56a
<i>tiunura</i>		<i>Excoecaria</i>		<i>polysyce</i>	139.4.96
var. <i>penangiana</i>	143.10.122	<i>quadrangularis</i>	101.35.2	<i>pomifera</i>	139.4.56

<i>procera</i>	139.4.19	<i>montana</i>	235.1.5	<i>kunstleri</i>	107.3.27
<i>pruniformis</i>	139.4.24	<i>valida</i>	235.1.8b	<i>lanceolata</i>	107.3.20
<i>pyriformis</i>	139.4.40			<i>uniflora</i>	107.3.3/43
<i>quercifolia</i>	139.4.54	Fuirena			
<i>ramentacea</i>	139.4.73	<i>glomerata</i>	215.8.1	Gardenia	
<i>retusa</i>	139.4.51			<i>didymocarpa</i>	175.1.2
<i>rigida</i>	13.4.82a	Gaertnera		<i>elata</i>	175.20.5b
<i>rostrata</i>	139.4.77c	<i>acuminata</i>	175.19.5	<i>pulchella</i>	175.1.1
<i>staphylosyce</i>	139.4.70	<i>caudata</i>	175.19.5	<i>resinifera</i>	175.20.5a
<i>truncata</i>	139.4.69	<i>diversifolia</i>	175.19.3a	<i>speciosa</i>	175.20.5b
<i>uropophylla</i>	139.4.37	<i>intermedia</i>	175.19.3a	<i>tentaculata</i>	175.34.2
		<i>lanceolata</i>	175.19.3a	<i>tubifera</i>	175.20.5a/b
		<i>latifolia</i>	175.19.3a	<i>virescens</i>	175.1.1
Fimbristylis		<i>oblanceolata</i>	175.19.3a/b		
<i>acuminata</i>	215.8.1	<i>ovata</i>	175.19.3a	Garnotia	
<i>aestivalis</i>	215.8.14	<i>pedicellata</i>	175.19.5	<i>patula</i>	220.37.2
<i>asperrima</i>	215.8.8/27	<i>rantosa</i>	175.19.5	<i>stricta</i>	220.37.1
<i>diphylla</i>	215.8.7	<i>rigida</i>	175.19.3a		
<i>globulosa</i>	215.8.31	<i>sessiliflora</i>	175.19.5	Gastonia	
<i>longispica</i>	215.8.15			<i>papuana</i>	51.6.1
<i>miliacea</i>	215.8.17				
<i>monostachyos</i>	215.8.21	Gahnia		Gastrochilus	
<i>nigrobrunnea</i>	215.8.9	<i>castanea</i>	215.10.2	<i>acuta</i>	248.3.2
<i>podocarpa</i>	215.8.30	<i>javanica</i>		<i>albosanguineus</i>	248.3.6
<i>polytrichoides</i>	215.8.10	var. <i>penangensis</i>	215.10.1	<i>bilobus</i>	248.17.2a
<i>rigidifolia</i>	215.8.12			<i>clivalis</i>	248.3.1
<i>spathacea</i>	215.8.6	Galearia		<i>concinus</i>	248.17.5
<i>thouarsii</i>	215.1.1	<i>affinis</i>	154.1.1	<i>curtisii</i>	248.3.2
		<i>finlaysonii</i>	154.1.1	<i>flava</i>	248.3.3
Flemingia		<i>fusca</i>	154.1.1	<i>klossii</i>	248.17.8b
<i>congesta</i>	122.36.1	<i>lindleyana</i>	154.1.1	<i>lanceolatus</i>	248.17.10
		<i>minor</i>	154.1.1	<i>lancifolius</i>	248.17.12
Fleurya		<i>pedicellata</i>	154.1.1	<i>longifolius</i>	248.17.11
<i>interrupta</i>	199.5.1	<i>phlebocarpa</i>	154.1.1	<i>longipes</i>	248.3.4
		<i>ridleyi</i>	154.1.1	<i>luridus</i>	248.3.5a
Flueggia		<i>subulata</i>	154.1.1	<i>minor</i>	248.17.2b
<i>microcarpa</i>	101.36.1	<i>wallichii</i>	154.1.1	<i>oculatus</i>	248.17.13
				<i>panduratus</i>	248.3.8
Fordia		Galeola		<i>plicatus</i>	248.3.5b
<i>filipes</i>	122.48.	<i>altissima</i>	233.57.1/2	<i>prainiana</i>	248.3.6
		<i>hydra</i>	233.60.1	<i>puberulus</i>	248.3.1
Forrestia		<i>javanica</i>	233.42.1	<i>pucherrima</i>	248.3.7
<i>glabrata</i>	211.1.1	<i>kuhlii</i>	233.60.1	<i>scaphochlamys</i>	248.17.12
<i>gracilis</i>	211.1.2			<i>sub-bilobus</i>	248.17.17
<i>griffithii</i>	211.1.3	Ganna			
<i>irritans</i>	211.1.4	<i>curtisii</i>	181.4.4	Gastrodia	
<i>marginata</i>	211.1.5	<i>hirtiflora</i>	181.4.7	<i>hasseltii</i>	233.62.1
<i>mollis</i>	211.1.6	<i>kingiana</i>	181.4.8	<i>holtumii</i>	233.62.2
<i>monosperma</i>	211.1.7	<i>motleyana</i>	181.4.14	<i>malayana</i>	233.62.1
		<i>sessilis</i>	181.4.23		
Freycinetia		Garcinia		Gaultheria	
<i>acuminata</i>	235.1.7	<i>curtisii</i>	107.3.2b	<i>fragrantissima</i>	98.4.3
<i>kingiana</i>	235.1.4b	<i>gaudichaudii</i>	107.3.34		
<i>lucens</i>	235.1.5	<i>globulosa</i>	107.3.29	Gelonium	
<i>malaccensis</i>	235.1.1			<i>bifarium</i>	101.66.2b

<i>glomerulatum</i>	101.66.2b	<i>brachycarpa</i>	248.11.2a	<i>Gmelina</i>	
<i>multiflorum</i>	101.66.2b	<i>elegans</i>	248.11.13b	<i>hystrix</i>	200.5.2
<i>renuifolium</i>	101.66.2b	<i>flavidula</i>	248.11.9b	<i>villosa</i>	200.5.2
<i>Gendarussa</i>		<i>leucantha</i>	248.11.9c	<i>Gnaphalium</i>	
<i>vulgaris</i>	39.13.2	<i>macranthera</i>	248.11.2a	<i>affine</i>	78.28.1
<i>Genianthus</i>		<i>malaccensis</i>	248.11.14b	<i>Gnetum</i>	
<i>blunei</i>	54.10.1	<i>montana</i>	248.11.13a	<i>brunonianum</i>	37.1.3a
<i>Geodorum</i>		<i>panicoides</i>	248.11.13c	<i>campestre</i>	37.1.7
<i>purpureum</i>	233.63.2	<i>perakensis</i>	248.11.15b	<i>kingianum</i>	37.1.5a
<i>Geophila</i>		<i>regalis</i>	248.11.9a	<i>longispica</i>	37.1.1
<i>herbacea</i>	175.23.4	<i>uliginosa</i>	248.11.13c	<i>penangense</i>	37.1.1
<i>reniformis</i>	175.23.4	<i>unifolia</i>		<i>sylvestre</i>	37.1.7
<i>Geunsia</i>		var. <i>sessifolia</i>	248.11.3	<i>wrayi</i>	37.1.4
<i>farinosa</i>	200.1.6	<i>valida</i>	248.11.13c	<i>Gomphandra</i>	
<i>pentandra</i>	200.1.6	<i>violacea</i>	248.11.9d	<i>affinis</i>	113.3.2d
<i>Gigantochloa</i>		<i>wallichii</i>	248.11.13c	<i>gracilis</i>	113.6.1
<i>maxima</i>		<i>Glochidion</i>		<i>lanceolata</i>	113.3.2c
var. <i>minor</i>	220.38.5	<i>coronatum</i>	101.37.14	var. <i>angustifolia</i>	113.3.2a/6.1
var. <i>viridis</i>	220.38.7	<i>desmocarpum</i>	101.37.23	var. <i>triplinervis</i>	113.3.2e
<i>Gleichenia</i>		<i>glaberrimum</i>	101.37.15	<i>maingayi</i>	113.3.2b
<i>blotiana</i>	16.2.1	<i>goniocarpum</i>	101.37.3	<i>nyssifolia</i>	113.3.1
<i>gigantea</i>	16.2.2	<i>laevigatum</i>	101.37.7	<i>ophiurensis</i>	113.3.2c
<i>hirta</i>		var. <i>cuspidatum</i>	101.37.16	<i>penangiana</i>	113.3.2d
var. <i>amoena</i>	16.4.1	<i>leiostylum</i>	101.37.16	<i>pubescens</i>	113.3.2c
<i>laevigata</i>	16.4.2b	<i>maingayi</i>	101.37.3	<i>salicifolia</i>	113.3.2a
<i>linearis</i>		<i>microbotrys</i>	101.37.2	<i>Gomphia</i>	
var. <i>alternans</i>	16.1.4	<i>nanogymum</i>	101.37.6	<i>corymbosa</i>	148.1.2
var. <i>altissima</i>	16.1.2b	<i>pedunculatum</i>	101.37.3	<i>hookeri</i>	148.1.1
var. <i>irregularis</i>	16.1.2a	<i>trilobum</i>	101.37.2	<i>microphylla</i>	148.2.1
var. <i>malayana</i>	16.1.1	<i>trilobum</i>	101.37.23	<i>oblongifolia</i>	148.2.1
var. <i>montana</i>	16.1.2e	<i>villicaule</i>	101.37.14	<i>serrata</i>	148.2.1
var. <i>normalis</i>	16.1.2d	<i>Ghita</i>		<i>sumatrana</i>	148.2.1
<i>longissima</i>	16.2.3	<i>coarctata</i>	45.8.13	<i>Gomphostemma</i>	
<i>microphylla</i>		<i>virosa</i>	45.8.15	<i>lanceum</i>	118.6.3
var. <i>semivestita</i>	16.3.2	<i>Glycosmis</i>		<i>oblongum</i>	118.6.3
var. <i>vulcanica</i>	16.3.3	<i>calcicola</i>	176.7.13b	<i>Goniophlebium</i>	
<i>norrisii</i>	16.2.1/4	var. <i>calmicola</i>	176.7.13a	<i>verrucosum</i>	28.5.3
<i>sordida</i>	16.2.5	<i>citrifolia</i>	176.7.5/8	<i>Goniothalamus</i>	
<i>truncata</i>		<i>elata</i>	176.7.6	<i>caudifolius</i>	48.14.15
var. <i>plumaeformis</i>	16.4.2a	<i>lindleyana</i>	176.7.1c	<i>kunstleri</i>	48.14.15
var. <i>truncata</i>	16.4.2b	<i>macrocarpa</i>	176.7.3	<i>pendulifolius</i>	48.14.19
<i>volubilis</i>	16.2.2	<i>macrophylla</i>	176.7.1c	<i>Gonocaryum</i>	
<i>Glinus</i>		<i>malayana</i>	176.7.1b	<i>longeracemosum</i>	113.4.2
<i>mollugo</i>	137.1.1	<i>monticola</i>	176.7.1b	<i>Gonostegia</i>	
<i>Globba</i>		<i>rupestris</i>	176.7.7b	<i>hirta</i>	199.10.1
<i>aurantiaca</i>	248.11.12b	var. <i>tomentosa</i>	176.7.7c		
		<i>sapindoides</i>	176.7.6		
		<i>Glyptopetalum</i>			
		<i>scorechinii</i>	73.5.1		

<i>Goodyera</i>		<i>farquhariana</i>	141.2.2a/c	<i>sumatrana</i>	233.101.1
<i>cordata</i>	233.64.7	var. <i>griffithii</i>	141.2.2b	var. <i>major</i>	233.101.5
<i>foliosa</i>	233.64.1	<i>murtonii</i>	141.2.1	<i>susannae</i>	233.98.1
<i>gracilis</i>	233.43.2	<i>Gymnanthera</i>		<i>xanthocheila</i>	233.67.6
<i>rubens</i>	233.64.6	<i>insularum</i>	54.19.1	<i>zosterostyloides</i>	233.107.1
<i>Grammitis</i>		<i>Gymnema</i>		<i>Hackelochloa</i>	
<i>hirtella</i>	17.4.2/7	<i>acuminatum</i>	54.18.1	<i>granularis</i>	220.58.3
<i>lasiosora</i>	17.4.7	<i>dissitiflorum</i>	54.18.2	<i>Haemaria</i>	
<i>Greenea</i>		<i>flavum</i>	54.16.27	<i>discolor</i>	233.77.1
<i>jackii</i>	175.24.1	<i>hirtum</i>	54.18.3	<i>Halophila</i>	
<i>Grewia</i>		<i>lactiferum</i>	54.18.5	<i>ovata</i>	222.3.2/3
<i>acuminata</i>	194.6.2	<i>maingayi</i>	54.18.3	<i>Haloragis</i>	
<i>antidesmifolia</i>	194.7.1	<i>tingens</i>	54.18.11	<i>chinensis</i>	108.1.1
<i>blattifolia</i>	194.7.2	<i>Gymnopetalum</i>		<i>Harmandia</i>	
<i>erythrocarpa</i>	194.7.4	<i>cochinchinense</i>	86.2.1	<i>kunstleri</i>	149.3.1
<i>fibrocarpa</i>	194.7.4	<i>quinquelobum</i>	86.2.1	<i>Harpullia</i>	
<i>florida</i>	194.7.9	<i>Gymnosporia</i>		<i>confusa</i>	180.10.2
<i>globulifera</i>	194.7.5	<i>curtisii</i>	73.10.1	<i>Harrisonia</i>	
<i>hirsuta</i>	194.7.6	<i>Gymnostachyum</i>		<i>bennettii</i>	184.4.1
<i>latifolia</i>	194.7.2	<i>knoxiiifolium</i>	39.6.1	<i>Hederopsis</i>	
<i>latistipulata</i>	194.7.8	<i>robinsonii</i>	39.9.2b	<i>maingayi</i>	51.7.2
<i>laurifolia</i>	194.7.9	<i>Gynandropsis</i>		<i>major</i>	51.7.2
<i>miqueliana</i>	194.7.7	<i>gynandra</i>	67.2.2	<i>Hedyotis</i>	
<i>omphacarpa</i>	194.7.6	<i>pentaphylla</i>	67.2.2	<i>caerulia</i>	175.28.8
<i>paniculata</i>	194.7.10	<i>Gynopachis</i>		<i>congesta</i>	175.28.25
<i>polygama</i>		<i>binata</i>	175.2.1	<i>coronata</i>	175.28.6
var. <i>curtisii</i>	194.6.2	<i>impressinervis</i>	175.2.4	<i>glabra</i>	175.28.15
<i>sclerophylla</i>	194.6.3	<i>Gynostemma</i>		<i>hispida</i>	175.28.37
<i>umbellata</i>	194.6.1	<i>pedatum</i>	86.3.1	<i>macrophylla</i>	175.28.35
<i>Griffithia</i>		<i>Gynura</i>		<i>stipulata</i>	175.28.17
<i>cupularis</i>	48.11.2	<i>malasica</i>	78.20.1	<i>Hegnara</i>	
<i>fusca</i>	48.11.3	<i>sarmentosa</i>	78.23.2	<i>obcordata</i>	122.29.9
<i>magnoliipetala</i>	48.11.5	<i>Gyrocarpus</i>		<i>Helicia</i>	
<i>Guetterdella</i>		<i>jacquinii</i>	110.1.1	<i>curtisii</i>	169.1.7
<i>atropurpurea</i>	175.5.1	<i>Habenaria</i>		<i>kingiana</i>	169.1.4a
<i>Guioa</i>		<i>angustata</i>	233.107.1	<i>scortechinii</i>	169.1.7
<i>fuscidula</i>	180.9.2	<i>bambusetorum</i>	233.101.3	<i>suffruticosa</i>	169.1.1
<i>microphylla</i>	180.9.2	<i>gigas</i>	233.101.4	<i>velutina</i>	169.2.4
<i>pleuropteris</i>		<i>glaucescens</i>	233.101.2	<i>Helicteres</i>	
var. <i>bijuga</i>	180.9.1	<i>goodyeroides</i>	233.101.2	<i>lanceolata</i>	187.5.1
sp.1	180.9.2	<i>inconspicua</i>	233.101.3	<i>Hemarthria</i>	
sp.2	180.9.2	<i>kingii</i>	233.67.5	<i>protensa</i>	220.39.2
<i>squamosa</i>	180.9.2	<i>lucertifera</i>	233.101.1/5/6		
<i>Gymnacranthera</i>		<i>monticola</i>	233.101.7		
<i>eugeniiifolia</i>		<i>roseata</i>	233.67.7		
var. <i>eugeniiifolia</i>	141.2.2a/b				
var. <i>griffithii</i>	141.2.2c				

<i>Hemigraphis</i>		<i>nigricaulis</i>	73.8.3	<i>Hornstedtia</i>	
<i>alternata</i>	39.10.7a/b	<i>obtusa</i>	73.15.5	<i>albomarginata</i>	248.8.5
<i>confinis</i>		<i>Hiptage</i>		<i>grandis</i>	248.14.6b
var. <i>hirsuta</i>	39.10.1a	<i>madablota</i>	130.3.1	<i>macrocheilos</i>	248.8.7
<i>Hemigymnia</i>		<i>Hitcheniopsis</i>		<i>megalocheilos</i>	248.8.3
<i>fusca</i>	220.63.1	<i>kunstleri</i>	248.17.9a	<i>metriocheilos</i>	248.8.7
<i>multinodis</i>	220.63.1	var. <i>rubra</i>	248.17.9b	<i>pauciflora</i>	248.8.6
<i>Henslowia</i>		<i>lanceolata</i>	248.17.15	<i>scyphus</i>	248.14.6c
<i>buxifolia</i>	179.2.1a	<i>sylvestris</i>	248.17.18	<i>triorgyalis</i>	248.8.9
<i>lobbiana</i>	179.2.3	<i>Hodgsonia</i>		<i>Horsfieldia</i>	
<i>minor</i>	179.2.1b	<i>capniocarpa</i>	86.4.1	<i>brachiata</i>	
<i>monticola</i>	179.2.2	<i>Holarrhena</i>		var. <i>sumatrana</i>	141.3.12b
<i>philippinensis</i>	179.2.3	<i>densiflora</i>	49.13.1	<i>canarioides</i>	141.1.1
<i>reinwardtiana</i>	178.1.1	<i>pauciflora</i>	49.25.1	<i>globularia</i>	141.3.10
<i>ridleyi</i>	179.2.3	<i>pulcherrima</i>	49.13.1	<i>lemanniana</i>	141.3.7
<i>umbellata</i>	179.2.2	<i>Homalanthus</i>		<i>macrocoma</i>	
<i>varians</i>	179.2.3	<i>populifolius</i>	101.39.1	var. <i>canarioides</i>	141.1.1
<i>wrayi</i>	179.2.3	<i>Homalium</i>		<i>racemosa</i>	141.1.1
<i>Hernandia</i>		<i>frutescens</i>	103.5.1	<i>subglobosa</i>	141.3.12b
<i>peltata</i>	110.2.1	<i>griffithianum</i>	103.5.2	<i>Hoya</i>	
<i>Herpestis</i>		<i>propinquum</i>	103.5.4	<i>citrina</i>	54.16.25a
<i>floribunda</i>	183.4.1	<i>Homalomena</i>		<i>occlusa</i>	54.16.43
<i>monnieri</i>	183.4.2	<i>angustifolia</i>		<i>parasitica</i>	54.16.25c
<i>Hetaeria</i>		var. <i>ophirensis</i>	207.14.14b	var. <i>citrina</i>	54.16.25a
<i>biloba</i>	233.69.2	<i>coerulescens</i>		var. <i>hendersonii</i>	54.16.25b
<i>obliqua</i>	233.69.7	var. <i>pontederiifolia</i>	207.14.26	<i>plicata</i>	54.16.17
<i>parvifolia</i>	233.147.5	<i>elliptica</i>		<i>ridleyi</i>	54.16.25c
<i>Heterogonium</i>		var. <i>paucinervia</i>	207.14.22	<i>rufolanata</i>	54.10.4
<i>saxicola</i>	15.7.2	<i>humilis</i>		<i>Humata</i>	
<i>Heterophragma</i>		var. <i>pumila</i>	207.14.1a	<i>angustata</i>	11.1.1
<i>adenophyllum</i>	59.3.1	<i>mixta</i>	207.12.1	<i>heterophylla</i>	11.1.5
<i>Heterosmilax</i>		<i>obliquata</i>	207.14.12b	<i>parvula</i>	11.1.7
<i>indica</i>	241.1.1	<i>purpurascens</i>	207.14.27c	<i>pectinata</i>	11.1.8
<i>Hewittia</i>		<i>rubra</i>	207.14.25	<i>repens</i>	11.1.9
<i>bicolor</i>	80.7.1	<i>Hopea</i>		<i>vestita</i>	11.1.9
<i>Hexapora</i>		<i>albescens</i>	92.8.24	<i>Hunteria</i>	
<i>curtisii</i>	119.12.1	<i>curtisii</i>	92.5.28	<i>corymbosa</i>	49.14.1
<i>Hibiscus</i>		<i>globosa</i>	92.5.28	<i>Hydrocera</i>	
<i>abelmoschus</i>	131.1.1	<i>kelantanensis</i>	92.5.6	<i>angustifolia</i>	57.1.1
<i>Hippocratea</i>		<i>lowii</i>	92.5.28	<i>Hydrocotyle</i>	
<i>ferruginea</i>	73.1.1	<i>micrantha</i>	92.5.10	<i>asiatica</i>	198.1.1
<i>indica</i>	73.14.1	<i>minima</i>	92.5.5	<i>rotundifolia</i>	198.3.2
<i>macrantha</i>	73.8.2	<i>multiflora</i>	92.8.41	<i>Hydrostemma</i>	
		<i>pierrei</i>	92.5.3'8/24	<i>kunstleri</i>	147.1.1
		<i>resinosa</i>	92.5.23	<i>longifolium</i>	147.1.2
				<i>motleyi</i>	147.1.3

<i>Hygrophila</i>		<i>Illicium</i>		<i>laeve</i>	220.46.6
<i>angustifolia</i>	39.11.5	<i>cambodianum</i>	114.1.1/2/3	<i>macrurum</i>	220.46.10
<i>erecta</i>	39.11.5	var. <i>tenuifolia</i>	114.1.3	<i>maculatum</i>	220.46.4
<i>quadrivalvis</i>	39.11.5	<i>evenium</i>	192.7.3	<i>plumulosum</i>	220.46.8
<i>saxatilis</i>	39.11.4			<i>Ischnostemma</i>	
<i>spinosa</i>	39.11.6	<i>Illigera</i>		<i>carnosum</i>	54.6.1
<i>Hylophila</i>		<i>appendiculata</i>	110.3.1/3	<i>selangoricum</i>	54.6.1
<i>lanceolata</i>	233.71.1	<i>lucida</i>	110.3.2		
<i>Hymenachne</i>		<i>Impatiens</i>		<i>Isoglossa</i>	
<i>myuros</i>	220.42.1	<i>foxworthyi</i>	57.2.9	<i>subcordata</i>	39.21.4
<i>Hymenodictyon</i>		<i>polycycla</i>	57.2.5b	<i>Isoloma</i>	
<i>excelsum</i>	175.30.1	<i>sarcantha</i>	57.2.5b	<i>divergens</i>	12.4.4
		<i>scortechinii</i>	57.2.1	<i>ovatum</i>	12.4.18
<i>Hypobathrum</i>		<i>Imperata</i>		<i>Isonandra</i>	
sp. 11	175.31.1	<i>arundinacea</i>	220.44.2	<i>rufa</i>	181.4.19
		<i>exaltata</i>	220.44.1		
<i>Hypolepis</i>		<i>Indigofera</i>		<i>Isoptera</i>	
<i>beddomei</i>	12.3.2	<i>finlaysoniana</i>	122.39.1	<i>borneensis</i>	92.8.57
<i>bivalvis</i>	12.7.1			<i>Ixora</i>	
<i>punctata</i>	12.3.2	<i>Iodes</i>		<i>arguta</i>	175.32.10a
<i>Hypolytrum</i>		<i>oblonga</i>	113.5.2	<i>candida</i>	175.32.11b
<i>latifolium</i>	215.11.1a	<i>ovalis</i>	113.5.1	<i>crassifolia</i>	175.32.5a
<i>proliferum</i>	215.11.1b	<i>Ipomoea</i>		<i>diversifolia</i>	175.32.11b
<i>radians</i>	215.19.1	<i>carnosa</i>	80.8.13	<i>elliptica</i>	175.32.5a
<i>Hypserpa</i>		<i>congesta</i>	80.8.4	<i>fluminialis</i>	175.32.5a
<i>cuspidata</i>	135.8.1	<i>digitata</i>	80.8.7	<i>humilis</i>	175.32.13b
<i>Ichnanthus</i>		<i>gracilis</i>	80.8.5	<i>montana</i>	175.32.11a
<i>pallens</i>	220.43.1	<i>illustris</i>	80.8.3	<i>multibracteata</i>	175.32.14a
<i>vicinus</i>	220.43.1	<i>macrantha</i>	80.8.16	<i>patens</i>	175.32.9
<i>Ichnocarpus</i>		<i>maxima</i>	80.8.6	<i>plumea</i>	175.32.10a
<i>ovatifolius</i>	49.15.1	<i>pulchella</i>	80.8.2	<i>pumila</i>	175.32.2
		<i>reptans</i>	80.8.1	<i>ridleyi</i>	175.32.5a
<i>Icicaster</i>		<i>sagittaeifolia</i>	80.8.6	<i>stenophylla</i>	175.32.8b
<i>planchonii</i>	63.4.8b	<i>sepiaria</i>	80.8.6	<i>stricta</i>	175.32.6a
		<i>staphylina</i>		<i>undulata</i>	175.32.9
<i>Iguanura</i>		var. <i>malayana</i>	80.8.14	<i>Jackia</i>	
<i>arakudensis</i>	234.14.1	<i>tuba</i>	80.8.16	<i>ornata</i>	175.33.1
<i>brevipes</i>	234.14.3	<i>Isachne</i>		<i>Jasminum</i>	
<i>diffusa</i>	234.14.4e	<i>australis</i>	220.45.3	<i>adenophyllum</i>	150.2.12
<i>ferruginea</i>	234.14.3	<i>javana</i>	220.45.4	<i>aemulum</i>	150.2.4
<i>geonomaeformis</i>	234.14.4c	<i>miliacea</i>	220.45.7	<i>arenarium</i>	150.2.4
<i>spectabilis</i>	234.14.4d	<i>rigida</i>	220.45.2	<i>bifarium</i>	150.2.4
		<i>semitalis</i>	220.45.5	<i>evansii</i>	150.2.4
<i>Ilex</i>		<i>Ischaemum</i>		<i>scortechinii</i>	150.2.9
<i>polyphylla</i>	50.1.20	<i>aristatum</i>	220.46.3	<i>Joinvillea</i>	
<i>rupicola</i>	50.1.19	<i>beccarii</i>	220.24.1	<i>borneensis</i>	225.1.1
<i>venulosa</i>		<i>commelynifolium</i>	220.46.4	<i>malayana</i>	225.1.1
var. <i>nervulosa</i>	50.1.8	<i>imbricatum</i>	220.46.2		
		<i>indicum</i>	220.46.3		

<i>Jussiaea</i>		<i>Knema</i>		<i>Lagerstroemia</i>	
<i>erecta</i>	151.1.3	<i>cantleyi</i>	141.4.19	<i>flos-reginae</i>	128.4.6
<i>repens</i>	151.1.1	<i>cinerea</i>		<i>macrocarpa</i>	128.4.6
<i>speciosa</i>	151.1.5	var. <i>cordata</i>	141.4.21		
<i>suffruticosa</i>	151.1.2	var. <i>patentinervia</i>	141.4.18	<i>Languas</i>	
<i>villosa</i>	151.1.3	var. <i>rubens</i>	141.4.24	<i>galanga</i>	248.1.7
		var. <i>sumatrana</i>	141.4.6/7/27	<i>melanocarpa</i>	248.1.1
<i>Justicia</i>		<i>conferta</i>		<i>scabra</i>	248.1.21
<i>bracteata</i>	39.24.1	var. <i>scortechinii</i>	141.4.25	<i>Lansium</i>	
<i>breviflos</i>	39.24.1	<i>curtisii</i>	141.4.4b	<i>cinereum</i>	133.12.1
<i>clarkeana</i>	39.24.1	<i>geminata</i>	141.4.7	<i>pedicellatum</i>	133.1.19
<i>johorensis</i>	39.29.1	<i>latericia</i>	141.4.13		
<i>laetevirens</i>	39.13.7	<i>missionis</i>	141.4.8	<i>Lantana</i>	
<i>microcarpa</i>	39.24.1	<i>oblongifolia</i>		<i>aculeata</i>	200.6.1
<i>odonites</i>	39.29.1	var. <i>monticola</i>	141.4.17		
<i>patulinervis</i>	39.13.7	<i>wrayi</i>	141.4.27	<i>Laportea</i>	
<i>pectinella</i>	39.24.1			<i>pustulosa</i>	199.3.1
<i>secundiflora</i>	39.24.1	<i>Kopsia</i>		<i>stimulans</i>	199.3.2
<i>selangorensis</i>	39.24.4	<i>miurephora</i>	49.17.10		
<i>trichodes</i>	39.29.1	<i>ridleyana</i>	49.17.7	<i>Lasia</i>	
<i>vegeta</i>	39.24.5			<i>aculeata</i>	207.15.1
<i>Kadsura</i>		<i>Korthalsella</i>		<i>Lasianthus</i>	
<i>cauliflora</i>	182.1.2	<i>opuntia</i>	202.1.2	<i>caudiculatus</i>	175.39.23
<i>Kaempferia</i>		<i>Korthalsia</i>		<i>chinensis</i>	175.39.29
<i>cyanescens</i>	248.12.1	<i>ferox</i>		<i>chryseus</i>	175.39.43
		var. <i>malayana</i>	234.16.6	<i>coronatus</i>	175.39.23
<i>Kandelia</i>		<i>grandis</i>	234.16.4	<i>crassifolius</i>	175.39.29
<i>rheedei</i>	173.5.1	<i>polystachya</i>	234.16.6	<i>ferrugineus</i>	175.39.30b
<i>Kayea</i>		<i>rubiginosa</i>	234.16.2	<i>flavinervius</i>	175.39.28
<i>caudata</i>	107.6.3	<i>scaphigera</i>	234.16.7	<i>glaberrimus</i>	175.39.19
<i>daphnifolia</i>	107.6.2	<i>wallichiaefolia</i>	234.16.4	<i>gracilis</i>	175.39.5
<i>elegans</i>	107.6.3			<i>hirtus</i>	175.39.30b
<i>ferruginea</i>	107.6.5	<i>Kunstleria</i>		<i>longifolius</i>	175.39.32
<i>grandis</i>	107.6.6	<i>derryi</i>	122.43.4	<i>longifolius</i>	175.39.29
<i>kunstleri</i>	107.6.8a/b	<i>Kunstleriodendron</i>		<i>maingayi</i>	
var. <i>rosea</i>	107.6.8b	<i>sublanceolata</i>	101.20.1	var. <i>hirta</i>	175.39.35
<i>nervosa</i>	107.6.10	<i>cuspidatum</i>	101.46.27	<i>pilosus</i>	
<i>parviflora</i>	107.6.9b			var. <i>retosus</i>	175.39.33
<i>racemosa</i>	107.6.14	<i>Kurrimia</i>		<i>pseudo-lucidus</i>	175.39.9
<i>rivulorum</i>	107.6.8b	<i>paniculata</i>	73.2.2	<i>robustus</i>	175.39.30b
<i>rosea</i>	107.6.15	<i>pulcherrima</i>	73.2.3	<i>singaporensis</i>	175.39.35
<i>wrayi</i>	107.6.16			<i>stercorarius</i>	175.39.1
<i>Kibara</i>		<i>Kyllinga</i>		<i>subinaequalis</i>	175.39.18
<i>chartacea</i>	138.1.1	<i>cylindrica</i>	215.12.4		
<i>serrulata</i>	138.1.1	<i>monocephala</i>	215.12.2b	<i>Lasiobema</i>	
<i>Kingiella</i>		<i>Labisia</i>		<i>curtisii</i>	122.9.7
<i>decumbens</i>	233.72.1	<i>pothoina</i>	142.7.4c	<i>flavum</i>	122.9.11
		var. <i>alata</i>	142.7.4a	<i>strychnoideum</i>	122.9.24
<i>Kingstonia</i>		var. <i>lanceolata</i>	142.7.4b	<i>Lastreopsis</i>	
<i>nervosa</i>	48.7.1			<i>parishii</i>	15.12.17b
				var. <i>chupengensis</i>	15.12.17a

<i>Lecanopteris</i>		<i>Leptonychia</i>		<i>Limnanthemum</i>	
<i>carnosa</i>		<i>glabra</i>	187.8.1	<i>indicum</i>	136.1.2
var. <i>pumila</i>	28.6.2	<i>Leptonychiopsis</i>		<i>parvifolium</i>	136.1.3
<i>Lecanorchis</i>		<i>parviflora</i>	187.8.2	<i>Limnophila</i>	
<i>malaccensis</i>	233.74.2	<i>Leptospermum</i>		<i>aromatica</i>	183.8.1a
<i>Lecythidaceae</i>		<i>flavescens</i>	143.5.1/2	<i>gratissima</i>	183.8.1a
sp. A	120.1.1	var. <i>angustifolium</i>	143.5.1	<i>griffithii</i>	183.8.3
sp. B	120.1.2	var. <i>javanicum</i>	143.5.2	<i>hirsuta</i>	183.8.1b
<i>Leea</i>		<i>Lettsomia</i>		<i>pygmaea</i>	183.8.8
<i>gigantea</i>	121.1.5	<i>adpressa</i>	80.2.1	<i>roxburghii</i>	183.8.10
<i>javanica</i>	121.1.5	<i>curtisii</i>	80.2.4	<i>viscida</i>	39.25.16
<i>pauciflora</i>	121.1.8	<i>kunstleri</i>	80.2.4	<i>Lindera</i>	
<i>robusta</i>	121.1.1	<i>maingayi</i>	80.2.5	<i>caudifolia</i>	17.10.10
<i>sambucina</i>	121.1.5	<i>peguensis</i>	80.2.2	<i>malaccensis</i>	119.10.4
<i>sundaica</i>	121.1.5	<i>penangiana</i>	80.2.8	<i>polyantha</i>	119.10.6
<i>Legazpia</i>		var. <i>reticulata</i>	80.2.9b	<i>selangorensis</i>	119.10.4
<i>polygonoides</i>	183.16.6	<i>ridleyi</i>	80.2.10	<i>stricta</i>	119.10.5
<i>Lemna</i>		<i>rubicunda</i>	80.2.11	<i>Lindernia</i>	
<i>paucicostata</i>	227.1.1	<i>scortechinii</i>	80.2.12	<i>montana</i>	183.9.7
<i>polyrrhiza</i>	227.2.1	<i>sphaerocephala</i>	80.2.13	<i>pusilla</i>	183.9.3
<i>Lepidanthus</i>		<i>Leucaena</i>		<i>sessiliflora</i>	183.9.9
<i>flexuosus</i>	105.15.1	<i>glauca</i>	122.44.1	<i>urticifolia</i>	183.9.6
<i>Lepeostegeres</i>		<i>Leucas</i>		<i>Lindsaea</i>	
<i>kingii</i>	127.9.1	<i>flaccida</i>	118.10.2	<i>cultrata</i>	12.4.16
<i>Lepidagathis</i>		<i>linifolia</i>	118.10.3	<i>davallioides</i>	12.4.15
<i>longifolia</i>	39.5.1	<i>mollissima</i>	118.10.2	<i>decomposita</i>	12.4.3
<i>Lepionurus</i>		<i>Leucolaena</i>		<i>macraeana</i>	12.4.21
<i>oblongifolius</i>		<i>ornata</i>	233.46.1	<i>nitida</i>	12.4.8
var. <i>angustifolius</i>	152.3.1	<i>Leucopogon</i>		<i>orbiculata</i>	12.4.17a/b
<i>Lepironia</i>		<i>malayanus</i>	97.1.1	<i>pectinata</i>	12.4.14
<i>mucronata</i>	215.14.1	<i>Liberbaileya</i>		<i>repens</i>	12.4.21
<i>Lepisanthes</i>		<i>gracilis</i>	234.19.1	<i>scandens</i>	12.4.20
<i>cuneata</i>	180.11.7	<i>lankawiensis</i>	234.19.1	var. <i>terrestris</i>	12.4.5
<i>hirta</i>	180.11.5	<i>Licuala</i>		<i>Linociera</i>	
<i>kunstleri</i>	180.11.7	<i>longepedunculata</i>	234.17.6a	<i>caudifolia</i>	150.1.3
<i>longifolia</i>	180.11.7	<i>longipes</i>	234.17.11	<i>insignis</i>	150.1.10
<i>scortechinii</i>	180.11.7	<i>malajana</i>	234.17.18/21	<i>lancifolia</i>	150.1.7
<i>Lepisorus</i>		<i>paniculata</i>	234.17.19	<i>paludosa</i>	150.1.2
<i>longifolius</i>	28.12.1	<i>patens</i>	234.17.19	<i>parvifolia</i>	150.1.7
<i>Lepistemon</i>		<i>wrayi</i>	234.17.16	<i>pauciflora</i>	150.1.11
<i>flavescens</i>	80.10.1	<i>Limacia</i>		<i>spicifera</i>	150.1.12
<i>Leptochloa</i>		<i>velutina</i>	135.9.2	<i>Liparis</i>	
<i>polystachya</i>	220.50.4	<i>Limatodes</i>		<i>cosmosa</i>	233.76.4
		<i>pallidus</i>	233.102.3	<i>disticha</i>	233.76.9
				<i>longipes</i>	233.76.21
				<i>transtillata</i>	233.76.17
				<i>Lipocarpa</i>	
				<i>argentea</i>	215.15.1

<i>Lippia</i>		<i>Lophopetalum</i>		<i>Luvunga</i>	
<i>nodiflora</i>	200.9.1	<i>coriacea</i>	73.7.1	<i>eleutherandra</i>	176.8.1
<i>Lithocarpus</i>		<i>dubium</i>	73.7.2	<i>Lycopodium</i>	
<i>perakensis</i>	102.2.23	<i>funbriatum</i>	73.9.8	<i>carinatum</i>	2.1.1
<i>Litosanthes</i>		<i>fuscescens</i>	73.9.3	<i>carolinianum</i>	2.2.1
<i>filiformis</i>		<i>intermedium</i>	73.9.3	<i>cernuum</i>	2.2.2
var. <i>bracteata</i>	175.39.13a	<i>littoralis</i>	73.7.2	<i>dalhousianum</i>	2.1.1
var. <i>filiformis</i>	175.39.13b	<i>maingayi</i>	73.7.2	<i>nummulariifolium</i>	2.1.5
<i>pendula</i>	175.39.27	<i>oblongifolium</i>	73.9.3	<i>phlegmaria</i>	2.1.6
<i>robinsonii</i>	175.39.36	<i>oblongum</i>	73.9.3	<i>piscium</i>	2.1.9
<i>scalariformis</i>	175.39.39	<i>pedunculatum</i>	73.5.2	<i>serratum</i>	2.1.10
<i>subspicata</i>	175.39.42	<i>reflexa</i>	73.7.4	<i>squarrosum</i>	2.1.11
<i>villosa</i>	175.39.45	<i>scortechinii</i>	73.9.1	<i>Lygodium</i>	
<i>Litsea</i>		<i>Loranthus</i>		<i>digitatum</i>	31.1.5
<i>amara</i>	119.11.51b	<i>casuarinae</i>	127.4.3	<i>flexuosum</i>	31.1.8
var. <i>fuscotomentosa</i>		<i>coccineus</i>	127.6.2	<i>scandens</i>	31.1.6
	119.11.51a	<i>crassipetalus</i>	127.6.3	<i>Maba</i>	
<i>glabrifolia</i>	119.11.27	<i>crassus</i>	127.4.4	<i>buxifolia</i>	94.1.21
<i>griffithii</i>	119.11.17	<i>duthieanus</i>	127.2.1	<i>elegans</i>	94.1.19
<i>kunstleri</i>	119.11.11	<i>estipitatus</i>	127.13.1	<i>hierniana</i>	73.15.4
<i>megacarpa</i>	119.11.10	<i>ferrugineus</i>	127.12.1	<i>merguensis</i>	94.1.61b
<i>monticola</i>	119.11.42	<i>grandifrons</i>	127.4.2	<i>olivacea</i>	94.1.61a
<i>oblanceolata</i>	119.11.38a	<i>heteranthus</i>	127.6.4	<i>perakensis</i>	94.1.12
<i>patellaris</i>	119.11.11	<i>lobbii</i>	127.3.1	<i>racemosa</i>	94.1.2
<i>perakensis</i>	119.11.11	<i>longiflorus</i>	127.4.1	<i>venosa</i>	94.1.61b
<i>petiolata</i>	119.11.14	<i>malaccensis</i>	127.12.2	<i>Macaranga</i>	
<i>pustulata</i>	119.11.11	<i>obtectus</i>	127.12.2	<i>brandisii</i>	101.45.2
<i>quercina</i>	119.11.6	<i>pentandrus</i>	127.4.4	<i>griffithiana</i>	101.45.19
<i>sarawacensis</i>	119.11.29	<i>pentapetalus</i>	127.6.5	<i>incisa</i>	101.45.10
<i>sebifera</i>	119.11.20b	<i>productus</i>	127.3.2	<i>maingayi</i>	101.45.20
<i>singaporensis</i>	119.11.1	<i>pulcher</i>	127.6.6	<i>megalophylla</i>	101.45.10
<i>terminalis</i>	119.11.2	var. <i>sessiliflora</i>	127.6.1	<i>populifolia</i>	101.45.5
<i>trunciflora</i>	119.11.28	<i>scortechinii</i>	127.7.1	<i>rubiginosa</i>	101.45.11
<i>ujongensis</i>	119.11.47	<i>validus</i>	127.6.7	<i>Machilus</i>	
<i>Livistona</i>		<i>Loxogramme</i>		<i>scortechinii</i>	119.16.4
<i>cochinchinensis</i>	234.18.2	<i>scolopendrina</i>	28.9.3	<i>Macrosolen</i>	
<i>kingiana</i>	234.26.1	<i>Loxonia</i>		<i>lowii</i>	127.11.5
<i>rupicola</i>	234.19.2	<i>acuminata</i>	105.11.1	<i>Madhuca</i>	
<i>saribus</i>	234.18.1	<i>Ludwigia</i>		<i>chrysocarpa</i>	181.4.4
<i>Lobelia</i>		<i>parviflora</i>	151.1.4	<i>stenophylla</i>	181.4.26
<i>affinis</i>	66.3.5	<i>Luisia</i>		<i>Maesa</i>	
<i>griffithii</i>	66.3.1	<i>brachystachys</i>	233.78.4	<i>pahangiana</i>	142.8.9
<i>Lochnera</i>		<i>jonesii</i>	233.78.2	<i>Malaisia</i>	
<i>rosea</i>	49.6.1	<i>tristis</i>	233.78.2	<i>scandens</i>	139.10.1
<i>Longetia</i>		<i>Lumnitzera</i>		<i>torulosa</i>	139.10.1
<i>malayana</i>	101.8.1c	<i>coccinea</i>	77.3.1		
<i>montanus</i>	101.8.1b	<i>Lunathyrium</i>			
		<i>japonicum</i>	34.3.2		

<i>Malaxis</i>		<i>cyperinus</i>	215.5.6	<i>Melanochyla</i>	
<i>macrochila</i>		<i>dregeanus</i>	215.5.11	<i>densiflora</i>	45.10.8
var. <i>minor</i>	233.81.5	<i>dubius</i>	215.5.11	<i>kunstleri</i>	45.10.4
<i>reniloba</i>	233.81.11	<i>javanicus</i>	215.5.17	<i>maingayi</i>	45.10.4
		<i>macrocarpus</i>	215.5.7	<i>rugosa</i>	45.10.6
<i>Malleola</i>		<i>microcephalus</i>	215.5.3	<i>tomentosa</i>	
<i>altocarinata</i>	233.82.3	<i>pedunculatus</i>	215.21.1	var. <i>glabrescens</i>	45.10.4
<i>undulata</i>	233.82.5	<i>sieberianus</i>	215.5.7		
		var. <i>evolutior</i>	215.5.9/20	<i>Melanorrhoea</i>	
<i>Mallotus</i>		<i>sumatrensis</i>	215.5.7	<i>aptera</i>	45.8.1
<i>acuminatus</i>	101.46.19			<i>curtisii</i>	45.8.4
<i>anisophyllus</i>	101.46.14	<i>Marsilea</i>		<i>inappendiculata</i>	45.8.1
<i>auriculatus</i>	101.45.18	<i>polycarpa</i>	21.1.2	<i>macrocarpa</i>	45.8.7
<i>cochinchinensis</i>	101.46.18			<i>pubescens</i>	45.8.9
<i>lanceifolius</i>	101.46.27	<i>Marumia</i>		<i>torquata</i>	45.8.12
<i>leucocalyx</i>	101.46.5	<i>nemorosa</i>		<i>wallichii</i>	45.8.14
<i>porteriaus</i>	101.46.17	var. <i>nemorosa</i>	132.9.5a	<i>woodsiana</i>	45.8.14
<i>puberulus</i>	101.46.17	var. <i>verrucosa</i>	132.9.5b		
		<i>rhodocarpa</i>	132.9.2a	<i>Melastoma</i>	
<i>Mangifera</i>		<i>rufolanata</i>	132.9.6	<i>normale</i>	132.11.2
<i>kenanga</i>	45.9.1			<i>perakense</i>	132.11.3/4
<i>lanceolata</i>	45.9.15	<i>Maschalocorymbus</i>		<i>polyanthum</i>	132.11.2
<i>longipes</i>	45.9.7	<i>corymbosus</i>	175.76.2	<i>scabrum</i>	132.11.2
<i>longipetiolata</i>	45.9.17	<i>villosus</i>	175.76.13	<i>schizocarpa</i>	132.11.5
<i>maingayi</i>	45.9.16				
<i>microphylla</i>	45.9.5	<i>Massia</i>		<i>Meliosma</i>	
<i>oblongifolia</i>	45.9.11	<i>triseta</i>	220.33.2	<i>elegans</i>	134.1.3b
<i>sclerophylla</i>	45.9.5			<i>elliptica</i>	134.1.5
sp. B	45.9.12	<i>Mastixia</i>		<i>lancifolia</i>	134.1.5
<i>whitmorei</i>	45.17.5	<i>bracteata</i>	81.1.1	<i>levis</i>	134.1.1
		<i>clarkeana</i>	81.1.3a	<i>monophylla</i>	134.1.2
<i>Manglietia</i>		<i>maingayi</i>	81.1.3b	<i>nitida</i>	134.1.6
<i>glauca</i>	129.2.1/4.1	<i>megacarpa</i>	81.1.2b	<i>ridleyi</i>	134.1.3b
<i>scortechinii</i>	129.3.4	<i>propinqua</i>	81.1.3b		
<i>sebassa</i>	129.1.2a	<i>rostrata</i>	81.1.3b	<i>Melochia</i>	
		<i>scortechinii</i>	81.1.2b	<i>velutina</i>	187.9.2
<i>Manisuris</i>					
<i>granularis</i>	220.58.3	<i>Mazus</i>		<i>Melodinus</i>	
		<i>rugosus</i>	183.10.1	<i>citiriformis</i>	49.19.4
<i>Mapania</i>				<i>cymosus</i>	49.30.3
<i>albescens</i>	215.17.11b	<i>Medinilla</i>			
<i>cuspidata</i>		<i>crassinervia</i>	132.10.6	<i>Melodorum</i>	
var. <i>pumila</i>	215.17.2	<i>crassiramea</i>	132.10.2b	<i>cylindricum</i>	48.31.1
<i>humilis</i>	215.17.3a	<i>hasseltii</i>	132.10.3	<i>elegans</i>	48.21.1
var. <i>petiolata</i>	215.17.3b	<i>heterantha</i>	132.10.12b	<i>fulgens</i>	48.12.1
<i>longa</i>	215.17.4	<i>maingayi</i>	132.16.2	<i>hypoglaucaum</i>	48.12.2
<i>longispica</i>	215.17.6	<i>pahangensis</i>	132.10.2a	<i>kingii</i>	48.12.3
<i>tenuiscapa</i>	215.17.7	<i>perakensis</i>	132.10.2a	<i>lanuginosum</i>	48.12.4
<i>triquetra</i>	215.17.3a	<i>scandens</i>	132.10.1	<i>latifolium</i>	48.12.5a
<i>valida</i>	215.17.6/7			var. <i>ovoideum</i>	48.12.5b
<i>wallichii</i>	215.17.13	<i>Megaphyllaea</i>		<i>litseifolium</i>	48.12.6
		<i>annulata</i>	133.4.9	<i>maingayi</i>	48.31.1
<i>Mariscus</i>		<i>perakensis</i>	133.4.9	<i>manubriatum</i>	48.12.7
<i>albescens</i>	215.5.17			<i>pisocarpum</i>	48.21.1
<i>compactus</i>	215.5.3	<i>Melaleuca</i>			
		<i>leucadendron</i>	143.6.1		

<i>prismaticum</i>	48.31.1	<i>scortechinii</i>	49.15.2	<i>Mikania</i>	
<i>rubiginosum</i>	48.12.8	<i>tenuifolia</i>	49.15.3	<i>scandens</i>	78.25.1
<i>Melothria</i>		<i>tubulosa</i>	49.4.8	<i>Millettia</i>	
<i>affinis</i>	86.10.2	<i>Microcarpaea</i>		<i>albiflora</i>	122.37.1
<i>indica</i>	86.10.1	<i>muscosa</i>	183.11.1	<i>atropurpurea</i>	122.13.1
<i>marginata</i>	86.10.2	<i>Microcos</i>		<i>dasyphylla</i>	122.13.2
<i>odorata</i>		<i>latifolia</i>	194.7.2	<i>eriantha</i>	122.13.3
var. <i>triloba</i>	86.10.1	<i>Microglossa</i>		<i>maingayi</i>	122.13.2
<i>Memecylon</i>		<i>volubilis</i>	78.24.1	<i>unifoliata</i>	122.37.9
<i>caloneuron</i>	132.12.23	<i>Microgonium</i>		<i>Mimosa</i>	
<i>epiphyticum</i>	132.12.12	<i>mindorensis</i>	18.5.5	<i>invisa</i>	122.49.2
<i>gracilipes</i>	132.12.8b	<i>sublimbatum</i>	18.5.6	<i>sepiaria</i>	122.49.1
<i>heteropleurum</i>	132.12.10	<i>tahitense</i>	18.5.7	<i>Mimusops</i>	
<i>laevigatum</i>	132.12.18	<i>Micromeles</i>		<i>kauki</i>	181.4.29
<i>laxiflorum</i>	132.12.9b	<i>corymbifera</i>	174.6.1	<i>Miscanthus</i>	
<i>longifolium</i>	132.12.26	<i>malayensis</i>	174.6.1	<i>japonicus</i>	220.57.1
<i>maingayi</i>	132.12.10	<i>Micromelum</i>		<i>Mischocarpus</i>	
<i>myrsinoides</i>	132.12.18	<i>pubescens</i>	176.13.2	<i>lessertianus</i>	180.13.2
<i>oligoneurum</i>	132.8.1	<i>Microsaccus</i>		<i>sumatranus</i>	180.13.1
<i>perakense</i>	132.12.8b	<i>brevifolius</i>	233.85.3	<i>Mitracarpus</i>	
<i>tenuifolium</i>	132.12.12	<i>Microsorium</i>		<i>villosus</i>	175.44.1
<i>Merinthosorus</i>		<i>hancockii</i>	28.3.2	<i>Mitragyne</i>	
<i>drynarioides</i>	28.1.2	<i>insigne</i>	28.3.2	<i>parvifolia</i>	175.45.1
<i>Merope</i>		<i>normale</i>	28.8.4	<i>Mitrasacme</i>	
<i>longispina</i>	176.11.1	<i>pteropus</i>	28.3.5	<i>alsinoides</i>	125.2.1
<i>Merremia</i>		<i>sarawakense</i>	28.13.4	<i>nudicaulis</i>	125.1.2b
<i>caespitosa</i>	80.11.3	<i>superficiale</i>	28.11.1	<i>polymorpha</i>	125.1.2a
<i>convolvulacea</i>	80.11.2	<i>zippelii</i>	28.11.2	<i>Mitreola</i>	
<i>hastata</i>	80.16.1a	<i>Microstemon</i>		<i>oldenlandioides</i>	125.3.1
<i>nymphaeifolia</i>	80.11.4	<i>curtisii</i>	45.12.1	<i>Mitrephora</i>	
<i>tridentata</i>	80.16.1b	<i>velutina</i>	45.12.3	<i>crassipetala</i>	48.2.1b
ssp. <i>hastata</i>	80.16.1a	<i>Microstylis</i>		<i>macrophylla</i>	48.30.3b
<i>Mesoptera</i>		<i>acutangula</i>	233.81.1	<i>Mnesithea</i>	
<i>maingayi</i>	175.68.1	<i>calophylla</i>	233.81.2	<i>pubescens</i>	220.58.5
<i>Messerschmidia</i>		<i>congesta</i>	233.81.6	<i>rupicola</i>	220.58.4
<i>argentea</i>	61.1.1	<i>flavoviridis</i>	233.81.8	<i>Monochoria</i>	
<i>Mezoneuron</i>		<i>macrochila</i>		<i>hastaeifolia</i>	238.2.2
<i>kunstleri</i>	122.11.1	var. <i>minor</i>	233.81.5	<i>hastata</i>	
<i>sumatranum</i>	122.11.8	<i>micrantha</i>	233.81.8	var. <i>elata</i>	238.2.1
<i>Mezzettia</i>		<i>nemoralis</i>	233.81.9	<i>Monogramma</i>	
<i>curtisii</i>	48.18.1	<i>perakensis</i>	233.81.10	<i>trichoidea</i>	33.3.1
<i>herveyana</i>	48.18.1	<i>Microtropis</i>		<i>Monophyllaea</i>	
<i>leptopoda</i>	48.18.1	<i>filiformis</i>	73.11.1	<i>patens</i>	105.13.3
<i>Microchites</i>		<i>ophirensis</i>	73.11.3		
<i>brachypetala</i>	49.15.3	<i>peduncularis</i>	73.11.1		
<i>furcata</i>	49.15.3				

<i>Moschosma</i>		<i>Nelsonia</i>		<i>lindleyi</i>	233.89.2
<i>polystachyum</i>	118.4.1	<i>canipestris</i>	39.15.1	<i>ocrea</i>	233.89.3
				<i>singaporeana</i>	233.89.3
<i>Murraya</i>		<i>Nelumbium</i>		<i>Nomaphila</i>	
<i>exotica</i>	176.14.1	<i>speciosum</i>	144.1.1	<i>stricta</i>	39.11.7
<i>Musa</i>		<i>Nenga</i>		<i>Norrisia</i>	
<i>flava</i>	232.1.1a	<i>wendlandiana</i>	234.21.3	<i>malacensis</i>	
<i>malaccensis</i>	232.1.1a			var. <i>major</i>	125.4.1
<i>truncata</i>	232.1.1b	<i>Neosalsomitra</i>		<i>Nothaphoebe</i>	
		<i>pubigera</i>	86.6.1	<i>angustifolia</i>	119.15.2
<i>Mycetia</i>		<i>Neonauclea</i>		<i>fruticosa</i>	119.2.15
<i>scortechinii</i>	175.51.1	<i>pallida</i>	175.53.3	<i>reticulata</i>	119.2.5
<i>Myrialepis</i>		<i>purpurascens</i>	175.53.3		
<i>scortechinii</i>	234.20.1	<i>Neoscortechinia</i>		<i>Nymphaea</i>	
<i>Myrica</i>		<i>forbesii</i>	101.52.3	<i>lotus</i>	147.2.1
<i>auriculata</i>	140.1.1	<i>Nepenthes</i>		<i>stellata</i>	147.2.2
<i>farquhariana</i>	140.1.1	<i>alba</i>	145.1.4		
<i>Myrioneuron</i>		<i>phyllamphora</i>	145.1.7	<i>Nyssa</i>	
<i>microcephalum</i>	175.69.2	<i>ramispina</i>	145.1.4	<i>sessiliflora</i>	81.2.1
				<i>Oberonia</i>	
<i>Myristica</i>		<i>Nephelaphyllum</i>		<i>anceps</i>	233.90.17
<i>suavis</i>	141.5.2	<i>latilabre</i>	233.87.1	<i>aurantiaca</i>	233.90.1
<i>Myrmecopteris</i>		<i>Nephelium</i>		<i>brunnescens</i>	233.90.20
<i>sinuosa</i>	28.6.3	<i>caudifolium</i>	180.14.6	<i>calicicola</i>	233.90.8
		<i>echinulatum</i>	180.5.2b	<i>caudata</i>	233.90.7
<i>Myrsine</i>		<i>eripetalum</i>	180.14.2b	<i>condensata</i>	233.91.1
<i>avenis</i>	142.9.2	<i>glabrum</i>	180.14.7	<i>demissa</i>	233.90.4
<i>perakensis</i>	142.9.1	var. <i>sufferugineum</i>		<i>flava</i>	233.90.3
<i>porteriana</i>	142.9.2		180.14.5a	<i>gracillima</i>	233.90.2
<i>umbellulata</i>	142.9.2	<i>herveyi</i>	180.14.3/6	<i>lunata</i>	233.90.6
<i>wrayi</i>	142.9.1	<i>longana</i>	180.5.2a	<i>padangensis</i>	233.90.26
		<i>malaiense</i>	180.5.2b	<i>pendula</i>	233.90.7
<i>Najas</i>		<i>mutabile</i>	180.14.9	<i>porphyrochula</i>	233.90.16
<i>graminea</i>	222.5.1	<i>ophioides</i>	180.14.2c	<i>rhizophoreti</i>	233.90.18
<i>kingii</i>	222.5.1	<i>rubescens</i>	180.14.6	<i>rolfeana</i>	233.90.19
<i>minor</i>	222.5.1	<i>tuberculatum</i>	180.14.4	<i>spathulata</i>	233.90.26
				<i>subnavicularis</i>	233.90.16
<i>Napeodendron</i>		<i>Nephrolepis</i>		<i>tiomanensis</i>	233.90.23
<i>altissimum</i>	133.16.1	<i>acuminata</i>	23.2.4		
		<i>biserrata</i>	23.2.2	<i>Ochlandra</i>	
<i>Naravelia</i>		<i>multiflora</i>	24.3.3b	<i>ridleyi</i>	220.78.7
<i>axillaris</i>	171.3.1	<i>tuberosa</i>	23.2.3		
<i>Nasturtium</i>		<i>Nertera</i>		<i>Ochna</i>	
<i>indicum</i>	83.3.1	<i>depressa</i>	175.54.1	<i>grandis</i>	148.4.1
<i>Naucllea</i>		<i>Nervilia</i>		<i>Ochrocarpos</i>	
<i>purpurascens</i>	175.53.3	<i>discolor</i>	233.88.3	<i>siamensis</i>	107.5.1
		<i>punctata</i>	233.88.2	<i>Ochrosia</i>	
<i>Neckia</i>		<i>Neuwiedia</i>		<i>borbonica</i>	49.20.1
<i>malayana</i>	149.5.1	<i>curstisii</i>	233.89.3	<i>oppositifolia</i>	49.20.1
<i>serrata</i>	149.5.1				

<i>Ochthocharis</i>		<i>malayanus</i>	212.2.1	<i>muricatus</i>	101.28.3b
<i>sylvestris</i>	132.13.2	<i>prolifera</i>	212.2.1	var. <i>minor</i>	101.28.3a
<i>Ocimum</i>		<i>Ophiorrhiza</i>		<i>Otophora</i>	
<i>canum</i>	118.11.1	<i>major</i>	175.56.14	<i>erythrocalyx</i>	180.11.4
<i>sanctum</i>	118.11.4	<i>Opuntia</i>		<i>hullettii</i>	92.9.7
<i>Odontycheium</i>		<i>monacantha</i>	65.1.1	<i>imbricata</i>	180.11.2
<i>denticulatum</i>	248.1.6	<i>Orania</i>		<i>resecta</i>	180.11.4
<i>Oenanthe</i>		<i>macrocladus</i>	234.24.1	<i>sessilis</i>	180.11.4
<i>stolonifera</i>	198.4.1	<i>Orchidantha</i>		<i>Oxyceros</i>	
<i>Olax</i>		<i>calcareo</i>	229.1.2	<i>kunstleri</i>	175.57.3
<i>scandens</i>	149.5.2	<i>longiflora</i>	229.1.1	<i>pauciflorus</i>	175.57.3
<i>Oldenlandia</i>		<i>Oreorhamnus</i>		<i>Oxymitra</i>	
<i>alata</i>	175.28.28	<i>serrulata</i>	172.3.1b	<i>affinis</i>	48.13.1/11
<i>biflora</i>	175.28.3	<i>Oritrephes</i>		<i>alpina</i>	48.13.2
<i>corymbosa</i>	175.28.7	<i>barnesii</i>	132.1.9	<i>argentea</i>	48.13.3
<i>dichotoma</i>	175.28.9	<i>grandiflora</i>	132.1.4	<i>biglandulosa</i>	48.13.4
<i>diffusa</i>	175.28.4/10	<i>pulchra</i>	132.1.9	<i>borneensis</i>	
<i>herbacea</i>	175.28.14	<i>robinsonii</i>	132.1.9	var. <i>sumatrana</i>	48.13.5
<i>heynei</i>	175.28.14	<i>Ormocarpum</i>		<i>calycina</i>	48.13.6
<i>nudicaulis</i>	175.28.21	<i>glabrum</i>	122.52.1	<i>discolor</i>	48.13.7
<i>ovatifolia</i>	175.28.21	<i>Ormosia</i>		<i>excisa</i>	48.13.8
<i>paniculata</i>	175.28.3	<i>microsperma</i>	122.53.8	<i>filipes</i>	48.13.9
<i>pinifolia</i>	175.28.26	<i>nitida</i>	122.53.6	<i>fornicata</i>	
<i>pterita</i>	175.28.28	<i>parvifolia</i>	122.53.1	var. <i>glabra</i>	48.13.7
<i>pumila</i>	175.28.29	sp.	122.53.3	<i>glauca</i>	48.13.10
<i>rosetifolia</i>	175.28.21	<i>Orophea</i>		<i>kingii</i>	48.13.11
<i>trinervia</i>	175.28.35	<i>gracilis</i>	48.25.9	<i>latifolia</i>	48.13.12
<i>verticillata</i>	175.28.36	<i>palawanensis</i>	48.19.1	<i>Oxyspora</i>	
<i>vestita</i>	175.28.36	<i>setosa</i>	48.30.7b	<i>hirticalyx</i>	132.15.1
<i>Olea</i>		<i>Orthiopteris</i>		<i>microcarpa</i>	132.15.11
<i>capitellata</i>	150.6.1	<i>kingii</i>	12.9.1	<i>Oxytenanthera</i>	
<i>maritima</i>	150.5.1	<i>Orthosiphon</i>		<i>auriculata</i>	220.38.3
<i>penangiana</i>	150.5.2	<i>stamineus</i>	118.12.1	<i>sinuata</i>	220.23.7
<i>platycarpa</i>	150.1.2	<i>Oryza</i>		<i>Pachycentria</i>	
<i>puberula</i>	150.3.1	<i>fatua</i>		<i>speciosa</i>	132.10.12b
<i>Oncodostigma</i>		var. <i>longe-aristata</i>	220.62.4	<i>tuberculata</i>	132.16.1
<i>monosperma</i>	48.16.1	<i>granulata</i>	220.62.1	<i>Pachychlamys</i>	
<i>Oncosperma</i>		<i>latifolia</i>	220.62.2	<i>hemsleyanus</i>	92.8.22
<i>filamentosum</i>	234.23.2	<i>Osbeckia</i>		<i>thistletonii</i>	92.8.55b
<i>Ophioglossum</i>		<i>perakensis</i>	132.14.3	<i>Pachynocarpus</i>	
<i>pedunculatum</i>	24.3.5	<i>Ostodes</i>		<i>ridleyanus</i>	92.9.15/17
<i>Ophiopogon</i>		<i>macrophyllus</i>	101.54.1	<i>stapfianus</i>	92.9.19
<i>intermedius</i>				<i>umbonatus</i>	92.9.15/19/20
var. <i>macranthus</i>	212.2.1			<i>verrucosus</i>	92.9.19/20
				<i>wallichii</i>	92.9.15

<i>Pachystoma</i>		<i>curtisii</i>	105.16.7a	<i>bennettii</i>	102.2.2
<i>senile</i>	233.95.1	<i>densifolia</i>	105.8.26	<i>blumeana</i>	102.2.30
<i>Padbruggea</i>		<i>filicifolia</i>	105.8.75	<i>cantleyana</i>	102.2.4
<i>dasyphylla</i>	122.13.2	<i>floribunda</i>	105.8.34	<i>clementiana</i>	102.2.5
<i>maingayi</i>	122.13.2	<i>grandifolia</i>	105.8.81	<i>confragosa</i>	102.2.6
<i>Paederia</i>		<i>holtumii</i>	105.8.41	<i>conocarpa</i>	102.2.7
<i>tomentosa</i>	175.58.1	<i>obovata</i>	105.16.9	<i>costata</i>	102.2.23
<i>Pajanelia</i>		<i>polita</i>	105.16.7a	<i>curtisii</i>	102.2.9
<i>multijuga</i>	59.6.1	<i>pyroliflora</i>	105.8.65	<i>cyclophora</i>	102.2.10
<i>Palaquium</i>		<i>rubiginosa</i>	105.8.72	<i>cyrtorhyncha</i>	102.2.18
<i>bancanum</i>	181.7.18	<i>salicina</i>	105.8.75	<i>discocarpa</i>	102.1.8
<i>calophylloides</i>	181.7.18	var. <i>major</i>	105.8.74	<i>eichleri</i>	102.2.12
<i>Pandanus</i>		<i>scortechinii</i>	105.8.76	<i>enclisacarpa</i>	102.2.14
<i>auenuatus</i>	235.2.46	<i>tiumanica</i>	105.8.82	<i>erythrocarpa</i>	102.2.15
<i>aurantiacus</i>	235.2.1	<i>Parameria</i>		<i>ewyckii</i>	102.2.16
<i>bicornis</i>	235.2.47	<i>glandulifera</i>	49.21.2	<i>falconeri</i>	102.2.17
<i>bidens</i>	235.2.7	<i>Paramignya</i>		<i>grandifrons</i>	102.2.35
<i>collinus</i>	235.2.16	<i>griffithii</i>	176.15.3	<i>hystrix</i>	102.2.20
<i>corneri</i>	235.2.39	<i>Paranephelium</i>		<i>kingiana</i>	102.2.22
<i>fascicularis</i>	235.2.32	<i>nitidum</i>	180.15.3	<i>kunstleri</i>	102.2.24
<i>kingianus</i>	235.2.16	<i>Paraphlomis</i>		<i>lampadaria</i>	102.2.25
<i>muarensis</i>	235.2.15	<i>rugosa</i>	118.13.1	<i>lamponga</i>	102.2.35
<i>ornatus</i>	235.2.29	<i>Parashorea</i>		var. <i>ewyckioides</i>	102.2.16
<i>ovatus</i>	235.2.19	<i>lucida</i>	92.7.3	<i>lappacea</i>	102.2.38
<i>penangensis</i>	235.2.13	<i>Parinari</i>		<i>lucida</i>	102.2.27
<i>perakensis</i>	235.2.19	<i>polyneura</i>	75.7.1b	<i>macphailii</i>	102.2.28
<i>recurvatus</i>	235.2.29	<i>rubiginosa</i>	75.7.1c	<i>maingayi</i>	102.2.29
<i>spinulosus</i>	235.2.16	<i>Parinarium</i>		<i>omalokos</i>	102.2.27
<i>Pandorea</i>		<i>asperulum</i>	75.1.4a	<i>rassa</i>	102.2.32
<i>curtisii</i>	59.4.1	<i>elatum</i>	75.1.4b	var. <i>suffruticosa</i>	102.2.34
<i>Panicum</i>		<i>griffithianum</i>	75.5.1	<i>robinsonii</i>	102.2.30
<i>caesium</i>	220.64.7	<i>heteropetalum</i>	75.3.1	<i>scortechinii</i>	102.2.33
<i>cambogiense</i>	220.64.7	<i>kunstleri</i>	75.3.1	<i>spicata</i>	102.2.13
<i>elegantissimum</i>	220.64.3	<i>maingayi</i>	75.1.4a	<i>sundaica</i>	102.2.35
<i>hirtifolium</i>	220.64.2	<i>scabrum</i>	75.1.4b	<i>wallichiana</i>	102.2.37
<i>montanum</i>	220.64.9	<i>spicatum</i>	75.1.4a	<i>wenzigiana</i>	102.2.32
<i>ovalifolium</i>	220.64.2	<i>Parishia</i>		<i>wrayi</i>	102.2.38
<i>perakense</i>	220.64.5	<i>pubescens</i>	45.11.1	<i>Paspalidium</i>	
<i>proliferum</i>	220.64.10	<i>rosea</i>	45.11.1	<i>punctatum</i>	220.79.7
<i>walense</i>	220.64.6	<i>Parkia</i>		<i>Paspalum</i>	
<i>Paphiopedilum</i>		<i>javanica</i>	122.55.4	<i>cartilagineum</i>	220.65.5
<i>robinsonii</i>	233.96.2	<i>roxburghii</i>	122.55.4	<i>commersonii</i>	220.65.5
<i>Paraboea</i>		<i>sumatrana</i>	122.55.3	<i>distichum</i>	220.65.7
<i>caerulea</i>	105.8.26	<i>Pasania</i>		<i>platycoleum</i>	220.65.3
<i>campanulata</i>	105.8.13	<i>acuminatissima</i>	102.1.1	<i>punctatum</i>	220.79.7
<i>cordata</i>	105.8.18	<i>beccariana</i>	102.2.3	<i>Passiflora</i>	
				<i>horsfieldii</i>	155.3.3
				<i>Payena</i>	
				<i>dasyphylla</i>	
				var. <i>glabrata</i>	181.8.7

<i>grandiflora</i>	181.4.5	<i>Pentapterygium</i>		<i>Phaius</i>	
<i>grandiflora</i>	181.8.8	<i>scortechinii</i>	98.1.1	<i>longipes</i>	233.24.1
<i>havilandii</i>	181.8.9			<i>wallichii</i>	233.102.4
<i>obtusifolia</i>	181.4.15	<i>Pentaspadon</i>			
<i>selangorica</i>	181.4.20	<i>officinalis</i>	45.12.2	<i>Phalaenopsis</i>	
<i>sessilis</i>	181.4.23	<i>Peperomia</i>		<i>decumbens</i>	233.72.1
<i>utilis</i>	181.4.26	<i>dindygulensis</i>	158.1.1	<i>fuscata</i>	233.103.5
<i>Peliosanthes</i>				<i>muscicola</i>	233.103.6
<i>albida</i>	212.3.1a	<i>Pergularia</i>		<i>pulcherrima</i>	233.52.1
<i>grandifolia</i>	212.3.1a	<i>puberula</i>	54.28.1	<i>sumatrana</i>	233.103.6
<i>lurida</i>	212.3.1a	<i>Pericampylus</i>		<i>Phanera</i>	
<i>monticola</i>	212.3.1a	<i>incanus</i>	135.10.1	<i>audax</i>	122.9.3
<i>parviflora</i>	212.3.1a	<i>membranaceus</i>	135.10.1	<i>bassacensis</i>	122.9.4
<i>stellaris</i>	212.3.1a			<i>bideniata</i>	122.9.5a
<i>teta</i>		<i>Perilimnastes</i>		<i>ssp. bicornuta</i>	
<i>var. angustifolia</i>	212.3.1b	<i>fruticosa</i>	132.1.3	<i>var. cornifolia</i>	122.9.5c
<i>violacea</i>	212.3.1a			<i>var. fraseri</i>	122.9.5d
<i>viridis</i>	212.3.1a	<i>Peripetasma</i>		<i>var. kingii</i>	122.9.17
<i>Pellionia</i>		<i>polyanthum</i>	216.1.18	<i>cardiophylla</i>	122.9.6
<i>curtisii</i>	199.4.2	<i>Peristrophe</i>		<i>cuprea</i>	122.9.6
<i>daveauana</i>	199.4.8	<i>baphica</i>	39.17.2	<i>dasycarpa</i>	
<i>helferiana</i>	199.4.5b	<i>tinctoria</i>	39.17.2	<i>var. ridleyi</i>	122.9.22
<i>javanica</i>	199.4.5b			<i>decumbens</i>	122.9.8
<i>var. acaulis</i>	199.4.5a	<i>Pernettyopsis</i>		<i>ferruginea</i>	122.9.9a
<i>latifolia</i>	199.4.5b	<i>breviflora</i>	98.6.1	<i>finlaysoniana</i>	122.9.10
<i>repens</i>	199.4.8	<i>subglabra</i>	98.6.1	<i>glabrifolia</i>	122.9.13
<i>Peltophorum</i>		<i>Perotis</i>		<i>glauca</i>	122.9.14
<i>ferrugineum</i>	122.56.2	<i>latifolia</i>	220.67.1	<i>griffithiana</i>	122.9.9b
<i>Peniculifera</i>		<i>Petunga</i>		<i>integrifolia</i>	122.9.16
<i>penangensis</i>	101.68.1	<i>conifera</i>	175.31.1	<i>kockiana</i>	122.9.18
<i>Pentace</i>		<i>floribunda</i>	175.31.4	<i>lucida</i>	122.9.19
<i>hookeriana</i>	194.5.1	<i>longifolia</i>	175.31.2b	<i>praesignis</i>	122.9.21
<i>kunstleri</i>	194.9.12	<i>roxburghii</i>	175.31.4	<i>semibifida</i>	122.9.23
<i>scortechinii</i>	194.5.2	<i>venulosa</i>	175.31.5	<i>wrayi</i>	
<i>Pentacme</i>		<i>Phacelophrynium</i>		<i>var. cancellata</i>	122.9.25a
<i>malayana</i>	92.8.54	<i>tapirosum</i>	230.2.1	<i>var. wrayi</i>	122.9.25b
<i>siamensis</i>	92.8.54	<i>Phaeanthus</i>		<i>Phaseolus</i>	
<i>Pentaphragma</i>		<i>lucidus</i>	48.26.1	<i>adenanthus</i>	122.80.1
<i>ellipticum</i>	157.1.4a	<i>nutans</i>	48.26.2	<i>calcaratus</i>	122.80.6b
<i>grande</i>	157.1.1			<i>var. gracilis</i>	122.80.6a
<i>ridleyi</i>	157.1.4a	<i>Phaeomeria</i>		<i>mungo</i>	122.80.3
<i>scortechinii</i>	157.1.5	<i>fulgens</i>	248.8.2	<i>semierectus</i>	122.46.1
<i>Pentaphylax</i>		<i>imperialis</i>	248.8.1	<i>Phaulanthus</i>	
<i>arborea</i>	158.1.1	<i>maingayi</i>	248.8.4b	<i>curtisii</i>	132.1.2
<i>malayana</i>	158.1.1	<i>var. longibracteata</i>	248.8.4a	<i>helferi</i>	132.1.6
		<i>speciosa</i>	248.8.1	<i>rudis</i>	132.1.5
		<i>venusta</i>	248.8.10	<i>stipularis</i>	132.1.10
				<i>Phoebe</i>	
				<i>cuneata</i>	119.16.2
				<i>declinata</i>	119.15.1

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|--------------------------|--------------|----------------------|-----------|--------------------------|------------|
| <i>kunstleri</i> | 119.16.2 | <i>Phyllochlamys</i> | | <i>Pithecellobium</i> | |
| <i>macrophylla</i> | 119.16.1 | <i>spinosa</i> | 139.9.8 | <i>affine</i> | 122.8.5 |
| <i>opaca</i> | 119.16.2 | <i>wallichii</i> | 139.9.8 | <i>angulatum</i> | 122.8.2a/b |
| <i>Phoenicimon</i> | | <i>Phymatodes</i> | | <i>bubalinum</i> | 122.8.1 |
| <i>rubiginosus</i> | 176.7.4 | <i>crustacea</i> | 28.6.1 | <i>clypearia</i> | 122.8.2a/b |
| <i>Pholidota</i> | | <i>longissima</i> | 28.13.1 | <i>confertum</i> | 122.6.6 |
| <i>decurva</i> | 233.104.1 | <i>nigrescens</i> | 28.13.2 | <i>contortum</i> | 122.8.3 |
| <i>globosa</i> | 233.104.2a | <i>scolopendria</i> | 28.13.3 | <i>cuneadenum</i> | 122.8.2c |
| <i>grandis</i> | 233.104.6 | <i>sinuosa</i> | 28.6.3 | <i>ellipticum</i> | 122.8.4 |
| <i>pallida</i> | 233.104.4 | <i>Phymatopteris</i> | | <i>globosum</i> | 122.8.5 |
| <i>parviflora</i> | 233.104.2b | <i>laciniata</i> | 28.16.4 | <i>jiringa</i> | 122.8.6 |
| <i>Photinopteris</i> | | <i>triloba</i> | 28.16.11 | <i>kunstleri</i> | 122.8.7 |
| <i>speciosa</i> | 28.1.4 | <i>Physostelma</i> | | <i>lobatum</i> | 122.8.6 |
| <i>Phragmites</i> | | <i>wallichii</i> | 54.16.1 | <i>microcarpum</i> | 122.8.8 |
| <i>communis</i> | 220.68.1 | <i>wrayi</i> | 54.16.26 | <i>palaungense</i> | 122.8.9 |
| <i>karka</i> | 220.68.1 | <i>Physurus</i> | | <i>splendens</i> | 122.6.6 |
| <i>Phreatia</i> | | <i>humilis</i> | 233.56.2 | <i>Planchonella</i> | |
| <i>microtidis</i> | 233.105.6 | <i>latifolius</i> | 233.56.2 | <i>firma</i> | 181.9.1 |
| <i>minutiflora</i> | 233.105.6 | <i>Pieris</i> | | <i>glabra</i> | 181.9.2 |
| <i>nana</i> | 233.91.2 | <i>ovalifolia</i> | 98.5.1 | <i>linggensis</i> | 181.9.3 |
| <i>secunda</i> | 233.105.6 | <i>Pilea</i> | | <i>maingayi</i> | 181.9.4 |
| <i>Phrynium</i> | | <i>calcareo</i> | 199.8.1 | <i>obovata</i> | 181.9.6 |
| <i>basiflorum</i> | 230.3.7 | <i>muscosa</i> | 199.8.2 | <i>Plantago</i> | |
| <i>capitatum</i> | 230.3.4 | <i>Pinanga</i> | | <i>asiatica</i> | 162.1.1 |
| <i>malaccense</i> | 230.3.4 | <i>bifida</i> | 234.27.5 | <i>Platynerium</i> | |
| <i>Phyllagathis</i> | | <i>brewsteriana</i> | 234.27.13 | <i>wallichii</i> | 28.14.2 |
| <i>maxwellii</i> | 132.17.8 | <i>calamifrons</i> | 234.27.3 | <i>Platyneris</i> | |
| <i>tuberculata</i> | 132.17.4 | <i>canina</i> | 234.14.1 | <i>carnea</i> | 233.45.2 |
| <i>Phyllanthera</i> | | <i>densifolia</i> | 234.27.12 | <i>gracilis</i> | 233.45.5b |
| <i>perakensis</i> | 54.5.1 | <i>disticha</i> | 234.27.18 | <i>var. angustifolia</i> | 233.45.5a |
| <i>Phyllanthodendron</i> | | <i>glaucescens</i> | 234.27.13 | <i>graminea</i> | 233.45.6 |
| <i>coriaceum</i> | 101.55.15 | <i>polymorpha</i> | 234.27.18 | <i>kingii</i> | 233.45.7 |
| <i>dubium</i> | 101.55.15/16 | <i>riparia</i> | 234.27.11 | <i>linearifolia</i> | 233.45.8 |
| <i>Phyllanthus</i> | | <i>singaporensis</i> | 234.27.11 | <i>linearis</i> | 233.45.12 |
| <i>campanulatus</i> | 101.55.12 | <i>subruminata</i> | 234.27.15 | <i>longifolia</i> | 233.45.9 |
| <i>coriaceus</i> | 101.55.12 | <i>Piper</i> | | <i>odorata</i> | 233.45.10 |
| <i>dalbergioides</i> | 101.55.14 | <i>arborescens</i> | 160.2.37 | <i>pulchella</i> | 233.45.8 |
| <i>erythrocarpus</i> | 101.55.14 | <i>malaccense</i> | 160.2.53 | <i>sarawakensis</i> | 233.45.7 |
| <i>frondosus</i> | 101.55.11 | <i>miniaturum</i> | 160.2.37 | <i>Platymitra</i> | |
| <i>hamiltonianus</i> | 101.55.17 | <i>officinatum</i> | 160.2.57 | <i>siamensis</i> | 48.27.1 |
| <i>ludletii</i> | 101.55.10 | <i>Pipturus</i> | | <i>Plectocomia</i> | |
| <i>niruri</i> | 101.55.2 | <i>mollissimus</i> | 199.6.1 | <i>griffithii</i> | 234.28.2 |
| <i>simplex</i> | 101.55.19 | <i>Pisonia</i> | | <i>Plectocomiopsis</i> | |
| | | <i>excelsa</i> | 146.2.3 | <i>annulata</i> | 234.20.1 |
| | | | | <i>corneri</i> | 234.29.3 |
| | | | | <i>dubia</i> | 234.29.4 |
| | | | | <i>ferox</i> | 234.4.8 |
| | | | | <i>scortechinii</i> | 234.20.1 |

<i>Plectranthus</i>		<i>cardiocarpa</i>	165.2.4	<i>crenulatum</i>	39.21.3
<i>scutellarioides</i>	118.18.1	<i>monticola</i>	165.2.5	<i>cuprea</i>	39.21.1
<i>Pleurostyliia</i>		<i>pulchra</i>	165.2.8	<i>isophyllum</i>	39.21.2
<i>wightii</i>	73.13.1	<i>Polygonum</i>		<i>repens</i>	39.21.4
<i>Plocoglottis</i>		<i>auriculatum</i>	166.2.4b	<i>vulgare</i>	39.21.3
<i>acuminata</i>	233.108.2	<i>barbatum</i>		<i>Polytrias</i>	
<i>foetida</i>	233.108.1	ssp. <i>gracile</i>	166.2.2	<i>amaura</i>	220.71.1
<i>porphyrophylla</i>	233.108.3	<i>capitatum</i>	166.2.3	<i>Pomatocalpa</i>	
<i>Podocarpus</i>		<i>chinense</i>	166.2.4a	<i>elongata</i>	233.112.3
<i>blunei</i>	38.4.2	<i>dichotomum</i>	166.2.5	<i>naevatum</i>	233.112.1
<i>inbricatus</i>	38.1.1	<i>flaccidum</i>	166.2.9	<i>setulensis</i>	233.112.7
<i>motleyi</i>	38.4.1	<i>hydropiper</i>		<i>Pomazota</i>	
<i>neriifolius</i>		ssp. <i>microcarpum</i>	166.2.6	<i>rivularis</i>	175.13.1
var. <i>ridleyi</i>	38.5.4	<i>malaicum</i>	166.2.4b	<i>sylvestris</i>	175.13.2
<i>wallichianus</i>	38.4.2	<i>minus</i>		<i>Pometia</i>	
<i>Pogonatherum</i>		ssp. <i>micranthum</i>	166.2.11	<i>alnifolia</i>	180.16.1
<i>paniceum</i>	220.70.1	<i>orientale</i>	166.2.8	<i>macrocarpa</i>	180.16.1
<i>saccharoideum</i>	220.70.1	<i>paniculatum</i>	166.1.1	<i>Pongamia</i>	
<i>Pollia</i>		<i>pedunculare</i>	166.2.5	<i>glabra</i>	
<i>sorzogonensis</i>	211.8.1	<i>pubescens</i>	166.2.9	var. <i>typica</i>	122.60.1a
<i>Pollinia</i>		<i>pulchrum</i>		var. <i>xerocarpa</i>	122.60.1b
<i>ciliata</i>		ssp. <i>hallieri</i>	166.2.1	<i>Popowia</i>	
var. <i>glabrata</i>	220.56.1	<i>stagninum</i>	166.2.11	<i>foetida</i>	48.24.2
<i>grata</i>	220.56.4	<i>strigosum</i>	166.2.10	<i>nervifolia</i>	48.34.1
<i>rupestris</i>	220.46.8	<i>tomentosum</i>	166.2.1	<i>nervosa</i>	48.34.2
<i>Polyalthia</i>		<i>Polyosmia</i>		<i>puniila</i>	48.34.3
<i>beccarii</i>	48.28.5a	<i>flavovirens</i>	100.2.7	<i>ramosissima</i>	48.29.4
<i>canangioides</i>	48.28.25	<i>grandis</i>	100.2.6	<i>Porpax</i>	
<i>congregata</i>	48.11.1	<i>ilicifolia</i>	100.2.10	<i>meirax</i>	233.113.1
<i>curtisii</i>	48.28.10	<i>laetevirens</i>		<i>Pothos</i>	
<i>desmantha</i>	48.28.5c	var. <i>robusta</i>	100.2.12	<i>ellipticus</i>	207.19.1
<i>glomerata</i>	48.28.8	<i>Polypodium</i>		<i>latifolius</i>	207.19.9
<i>hirta</i>	48.28.12	<i>papillosum</i>	28.17.1	<i>ridleyanus</i>	207.19.1
<i>kunstleri</i>	48.28.25	<i>prainii</i>	28.5.5	<i>Pottsia</i>	
<i>macrantha</i>	48.11.4	<i>verrucosum</i>	28.5.2	<i>cantonensis</i>	49.23.1
<i>oblonga</i>	48.28.20a/c	<i>Polystachya</i>		<i>Pouzolzia</i>	
<i>pulchra</i>	48.9.2	<i>flavescens</i>	233.111.1	<i>bennettiana</i>	199.10.1
<i>scortechinii</i>	48.28.25	<i>penangensis</i>	233.111.1	<i>indica</i>	199.10.3
<i>sinianum</i>		<i>siamensis</i>	233.111.1	<i>vininea</i>	199.10.2
var. <i>parvifolia</i>	48.28.2	<i>singaporensis</i>	233.111.1	<i>Pratia</i>	
<i>velutinoso</i>	48.28.6	<i>Polystichopsis</i>		<i>begoniifolia</i>	66.3.2
<i>wrayi</i>	48.28.5d	<i>aristata</i>	15.2.1	<i>Premna</i>	
<i>Polydragma</i>		<i>chinensis</i>	15.2.2	<i>angustior</i>	200.10.12
<i>malloiforme</i>	101.64.1	<i>haniffii</i>	15.2.3	<i>corymbosa</i>	200.10.12
<i>Polygala</i>		<i>hasseltii</i>	15.6.2		
<i>brachystachya</i>	165.2.3	<i>puncticulata</i>	15.2.4		
		<i>Polytrema</i>			
		<i>aequale</i>	39.21.3		

<i>integrifolia</i>	200.10.12	<i>caudatum</i>		<i>persimile</i>	174.4.1a
<i>littoralis</i>	200.10.12	<i>ssp. yarrabense</i>	12.8.2	<i>polystachyum</i>	174.4.7
<i>trichostoma</i>	200.10.6			<i>rubiginosum</i>	174.4.1b
Preptanthe		Pteris		<i>scortechinii</i>	174.4.2
<i>rubens</i>	233.23.14	<i>asperula</i>	29.2.9	<i>stipulaceum</i>	174.4.1c
<i>vestita</i>	233.23.21	Pterisanthes		<i>velutinosum</i>	174.4.3
Prismatomeris		<i>coriacea</i>	203.7.9	Pyrrosia	
<i>malayana</i>	175.64.3	<i>rufula</i>	203.7.6	<i>adnascens</i>	28.15.2
<i>subsessilis</i>	175.22.1	Pternandra		<i>floccigera</i>	28.15.7
Procris		<i>capitellata</i>	132.20.1	<i>granulosa</i>	174.6.1
<i>laevigata</i>	199.11.1	<i>jackiana</i>	132.20.1	Quercifilix	
<i>latifolia</i>	199.4.5b	<i>paniculata</i>	132.20.4	<i>zeilanica</i>	15.12.28
Protolirion		Pterococcus		Quercus	
<i>paradoxum</i>	231.1.1	<i>glaberrimus</i>	101.57.1	<i>oidocarpa</i>	102.3.3
Prunus		Pterospermum		<i>turbinata</i>	
<i>martabanica</i>		<i>blumeanum</i>	187.12.4	<i>var. crassilamellata</i>	102.3.4
<i>var. scortechinii</i>	174.4.4	Ptychopyxis		Queteletia	
Pseudoeugenia		<i>angustifolia</i>	101.58.3	<i>plantaginifolia</i>	233.93.1
<i>perakiana</i>	143.10.108	<i>costata</i>	101.58.2b	Quisqualis	
<i>singaporensis</i>	143.10.107	Ptychoraphis		<i>densiflora</i>	77.4.1
<i>tenuifolia</i>	143.10.120	<i>longiflora</i>	234.31.1	<i>var. parviflora</i>	77.4.3
Pseudognaphalium		<i>singaporensis</i>	234.31.1	Radermachera	
<i>luteo-album</i>		Ptyssiglottis		<i>amoena</i>	59.7.3
<i>ssp. affine</i>	78.28.1	<i>flava</i>	39.19.1	<i>sinica</i>	59.7.2
Pseudostreblus		<i>parviflora</i>	39.6.1	<i>stricta</i>	59.7.1
<i>caudatus</i>	139.9.3	<i>rubrolutea</i>	39.13.24	Rafflesia	
Psilotrichum		Pueraria		<i>hasseltii</i>	170.1.1
<i>trichotomum</i>	44.10.1	<i>phaseoloides</i>	122.64.1a/b	Ranalisma	
Psilotum		Pycnarrhena		<i>rostrata</i>	204.1.1
<i>flaccidum</i>	3.1.1	<i>fasciculata</i>	135.11.1	Randia	
<i>triquetrum</i>	3.1.2	Pynoloma		<i>anisophyllea</i>	175.63.1
Psoralea		<i>metacochum</i>	28.16.6	<i>auriculata</i>	175.2.2
<i>corylifolia</i>	122.23.13	Pyreus		<i>binata</i>	175.2.1
Psychotria		<i>nitens</i>	215.20.1	<i>campanula</i>	175.34.1
<i>griffithii</i>		<i>puncticulatus</i>	215.5.23	<i>clarkei</i>	175.57.7
<i>var. angustifolia</i>	175.65.3	Pygeum		<i>curtisii</i>	175.57.1
<i>minutiflora</i>	175.65.46	<i>brevifolium</i>	174.4.2	<i>densiflora</i>	175.2.3
<i>siamensis</i>	175.65.1	<i>coriifolium</i>	174.4.5	<i>var. parvifolia</i>	175.2.6
<i>stipulacea</i>	175.65.23	<i>griffithii</i>	174.4.1a	<i>exaltata</i>	175.68.4
Pteleocarpa		<i>hookerianum</i>	174.4.3	<i>fasciculata</i>	175.18.1a
<i>malaccensis</i>	61.7.1	<i>lanceolatum</i>	174.4.3	<i>forbesii</i>	175.3.1
Pteridium		<i>ovalifolium</i>	174.4.1b	<i>fragrantissima</i>	175.57.2
<i>aquilinum</i>	12.8.1	<i>parviflorum</i>	174.4.1a	<i>hirsuta</i>	175.18.1a
		<i>patens</i>	174.4.1b	<i>impressinervis</i>	175.24.2
				<i>incurva</i>	175.57.1
				<i>kunstleri</i>	175.57.3

<i>longiflora</i>	175.57.4	<i>Rhodoleia</i>		<i>Roydsia</i>	
<i>macrophylla</i>	175.68.2	<i>ovalifolia</i>	109.6.1	<i>parviflora</i>	67.4.1
<i>oocarpa</i>	175.9.1	<i>teysmannii</i>	109.6.1	<i>scortechinii</i>	67.4.1
<i>penangiana</i>	175.57.5	<i>Rhoeo</i>		<i>Rubus</i>	
<i>perakensis</i>	175.10.1	<i>spathacea</i>	211.11.1	<i>angulosus</i>	174.5.4a
<i>scortechinii</i>	175.63.1	<i>Rhopalocnemis</i>		<i>glomeratus</i>	174.5.4c
<i>stenopetala</i>	175.38.2	<i>ruficeps</i>	56.2.1	<i>hasskarlii</i>	174.5.1
<i>tomentosa</i>	175.9.2	<i>Rhuacophila</i>		<i>rosifolius</i>	174.5.6
<i>Rauvolfia</i>		<i>javanica</i>	237.1.2	<i>Ryparosa</i>	
<i>perakensis</i>	49.24.2	<i>Rhus</i>		<i>acuminata</i>	103.9.6
<i>reflexa</i>	49.24.1	<i>perakensis</i>	45.14.1	<i>wrayi</i>	103.9.3
<i>Rauwenhoffia</i>		<i>Rhynchelytrum</i>		<i>Sacciolepis</i>	
<i>siamensis</i>	48.17.2	<i>repens</i>	220.55.1	<i>angusta</i>	220.76.1a
<i>Reissantia</i>		<i>Rhynchospora</i>		<i>turgida</i>	220.76.1b
<i>ferruginea</i>	73.1.1	<i>aurea</i>	215.21.2	<i>Saccolabium</i>	
<i>Renanthera</i>		<i>glauca</i>		<i>adnatum</i>	233.84.1
<i>histrionica</i>	233.118.1	var. <i>chinensis</i>	215.21.1	<i>angraecum</i>	233.100.2
<i>matutina</i>	233.117.1	<i>rugosa</i>	215.21.1	<i>arachnanthe</i>	233.112.2
<i>Rennellia</i>		<i>wallichiana</i>	215.21.5	<i>bicarinaum</i>	233.34.10
<i>elongata</i>	175.67.1	<i>wightiana</i>	215.21.6	<i>bigibbum</i>	233.61.1
<i>paniculata</i>	175.67.3	<i>Rostellularia</i>		<i>cornigerum</i>	233.138.2
var. <i>condensa</i>	175.67.1	<i>procumbens</i>	39.13.10	<i>densiflorum</i>	233.122.1
<i>speciosa</i>		<i>Rotala</i>		<i>fissicors</i>	233.34.5
var. <i>elongata</i>	175.67.1	<i>pentandra</i>	128.6.2	<i>fissum</i>	233.126.1
<i>Rhabdia</i>		<i>Rothia</i>		<i>halophilum</i>	233.34.6
<i>lycioides</i>	61.7.1	<i>trifoliata</i>	122.65.1	<i>hobsonii</i>	233.112.7
<i>Rhinacanthus</i>		<i>Roucheria</i>		<i>hortense</i>	233.112.5
<i>communis</i>	39.22.1	<i>griffithiana</i>	124.2.1	<i>ionosmum</i>	233.34.9
<i>Rhizophora</i>		<i>Rourea</i>		<i>kunstleri</i>	233.34.1
<i>conjugata</i>	173.7.1	<i>acuminata</i>	79.5.7	<i>latifolium</i>	233.112.5
<i>Rhodamnia</i>		<i>anomala</i>	79.5.7	var. <i>strictum</i>	233.112.1
<i>cinerea</i>		<i>concolor</i>	79.5.6	<i>machadonis</i>	233.34.16
var. <i>uniflora</i>	143.7.3	<i>humilis</i>	79.5.7	<i>miniatum</i>	233.16.1
<i>Rhododendron</i>		<i>pulchella</i>	79.5.7	<i>minimiflorum</i>	233.1.1
<i>calocodon</i>	98.7.9a	<i>similis</i>	79.5.6	<i>minutiflorum</i>	233.125.2
<i>corruscum</i>	98.7.15	<i>Roureopsis</i>		<i>miserum</i>	233.138.1
<i>dubium</i>	98.7.15	<i>acutepetala</i>	79.5.1	<i>myosurus</i>	233.17.1
<i>elegans</i>	98.7.9b	<i>asplenifolia</i>	79.5.2	<i>pantlingii</i>	233.138.2
<i>jasminiflorum</i>		<i>emarginata</i>	79.5.4	<i>parvum</i>	233.112.6
var. <i>maculatum</i>	98.7.2c	<i>pinnata</i>	79.5.3	<i>patination</i>	233.61.2
<i>javanicum</i>	98.7.11	<i>pubinervis</i>	79.5.4	<i>penangianum</i>	233.82.4
<i>leucobotrys</i>	98.7.7	<i>scortechinii</i>	79.5.4	<i>pensile</i>	233.123.1
<i>orion</i>	98.7.13			<i>perpusillum</i>	233.125.1
var. <i>aurantiacum</i>	98.7.5			<i>pubescens</i>	233.112.4
<i>teysmannii</i>	98.7.3			<i>rhopalorrhachis</i>	233.141.1
				<i>rugosulum</i>	233.34.11
				<i>sacculatum</i>	233.34.17
				<i>saxicola</i>	233.84.2
				<i>scortechinii</i>	233.34.12
				<i>secundiflorum</i>	233.125.3

<i>secundum</i>	233.34.14	<i>Saraca</i>	<i>tjidadapensis</i>	233.29.2
<i>setulense</i>	233.112.7	<i>bijuga</i>	<i>unguiculatus</i>	233.116.7
<i>suffusum</i>	233.34.15	<i>declinata</i>	<i>violaceus</i>	233.116.8
<i>sylvestre</i>	233.82.5	<i>macroptera</i>	<i>virescens</i>	233.29.3
<i>tenicaule</i>	233.145.1	<i>palembanica</i>		
<i>undulatum</i>	233.82.5	<i>triandra</i>		
<i>uteriferum</i>	233.112.7			
<i>Sageretia</i>		<i>Sarcanthus</i>	<i>Sarcopodium</i>	
<i>arviflora</i>	172.4.1	<i>capricornis</i>	<i>citrinocastaneum</i>	233.53.4
<i>Salacca</i>		<i>fissicors</i>	<i>geninatum</i>	233.53.1
<i>conferta</i>	234.12.1	<i>halophilus</i>	<i>longipes</i>	233.53.2
<i>runghii</i>	234.32.7	<i>inflexilobus</i>	<i>macropodium</i>	233.53.3
<i>Salacia</i>		<i>ionosmum</i>		
<i>campanuloides</i>	73.15.8	<i>kunstleri</i>	<i>Saurauia</i>	
<i>flavescens</i>	73.15.6	<i>lanatus</i>	<i>cauliflora</i>	
<i>kunstleri</i>	73.15.9	<i>machadonis</i>	var. <i>calycina</i>	41.2.2
<i>latifolia</i>	73.15.1	<i>pensilis</i>	<i>grandis</i>	41.2.10
<i>perakensis</i>	73.8.3	<i>rostellatum</i>	<i>tristyla</i>	41.2.1/7/8
<i>prinoides</i>	73.15.1	<i>rugosulus</i>		
var. <i>macrophylla</i>	73.15.6	<i>sacculatus</i>	<i>Sauropus</i>	
<i>rubra</i>	73.15.3	<i>scortechinii</i>	<i>albicans</i>	101.62.1
<i>scortechinii</i>	73.15.4	<i>subulatus</i>	<i>llanosii</i>	101.62.8
<i>wrayi</i>	73.15.3	<i>suffusus</i>	<i>parvifolius</i>	101.62.3
		<i>termisus</i>	<i>spectabilis</i>	101.62.6
			<i>sumatranus</i>	101.62.1
<i>Salomonina</i>		<i>Sarchochilus</i>	<i>Scaevola</i>	
<i>oblongifolia</i>	165.3.2	<i>hirsutus</i>	<i>koenigii</i>	106.1.1
		<i>unguiculatus</i>	<i>sericea</i>	106.1.1
<i>Salvinia</i>			<i>Scaphium</i>	
<i>auriculata</i>	30.1.2	<i>Sarcocephalus</i>	<i>affine</i>	187.14.3
<i>oblongifolia</i>	30.1.2	<i>junghuhnii</i>		
		<i>maingayi</i>	<i>Scaphocalyx</i>	
		<i>subditus</i>	<i>parviflora</i>	103.10.1
<i>Samadera</i>				
<i>indica</i>	184.6.1	<i>Sarcochilus</i>	<i>Schefflera</i>	
<i>Sandoricum</i>		<i>acuminatus</i>	<i>affinis</i>	51.8.17
<i>emarginatum</i>	133.13.1	<i>alatus</i>	<i>calicicola</i>	51.8.5
<i>indicum</i>	133.13.2	<i>anceps</i>	<i>capitellata</i>	51.8.4
<i>maingayi</i>	133.13.2	<i>appendiculatus</i>	<i>curtisii</i>	51.8.7
<i>nervosum</i>	133.13.2	<i>berkeleyi</i>	<i>elegans</i>	51.8.6
		<i>biserratus</i>	<i>furinosa</i>	51.8.21
<i>Santiria</i>		<i>caligaris</i>	<i>klossii</i>	51.8.14
<i>costata</i>	63.2.2	<i>carrii</i>	<i>micrantha</i>	51.8.5
<i>fasciculata</i>	63.2.12	<i>ciliatus</i>	<i>musangensis</i>	51.8.15b
var. <i>puberula</i>	63.2.9	<i>cladostachys</i>	<i>pergamacea</i>	51.8.9
<i>floribunda</i>	63.2.4	<i>ecalcaratus</i>	<i>pueckleri</i>	51.8.20
<i>laxa</i>	63.2.5	<i>fasciculatus</i>	<i>scandens</i>	51.8.10
<i>longifolia</i>	63.2.6	<i>johorensis</i>	<i>scortechinii</i>	51.8.6
<i>macrocarpa</i>	63.2.7	<i>minutiflorus</i>	<i>subracemosa</i>	51.8.14
<i>minutiflora</i>	63.4.1a	<i>pallidus</i>	<i>subulata</i>	51.8.14
<i>multiflora</i>	63.4.9	<i>siamensis</i>	<i>venulosa</i>	51.8.5/16
<i>wrayi</i>	63.4.2	<i>stenoglottis</i>		
		<i>tahanensis</i>	<i>Scheffleropsis</i>	
		<i>tanyphyllus</i>	<i>polyandra</i>	51.8.15a

<i>Schima</i>		<i>juncoides</i>	215.23.1	<i>Securinega</i>	
<i>noronhae</i>	192.6.2	<i>lateriflorus</i>	215.23.2	<i>virosa</i>	101.36.1
<i>var. rigida</i>	192.6.1	<i>mucronatus</i>	215.23.3	<i>Semecarpus</i>	
<i>Schismatoglottis</i>		<i>squarrosus</i>	215.15.3	<i>curisii</i>	
<i>cordifolia</i>	207.21.3	<i>supinus</i>	215.23.2	<i>var. brevipetiolata</i>	45.15.2
<i>kingii</i>	207.21.6	<i>wallichii</i>	215.23.4	<i>glabra</i>	45.7.1
<i>linguiformis</i>	207.21.5	<i>Scleria</i>		<i>glomerulata</i>	45.15.1
<i>marginata</i>	207.21.6	<i>bancana</i>	215.27.3	<i>Serianthes</i>	
<i>minor</i>	207.21.2	<i>biflora</i>	215.27.1a	<i>dilnyi</i>	122.68.1
<i>ridleyana</i>	207.21.5	<i>caricina</i>	215.6.1	<i>Sesamum</i>	
<i>Schizachyrium</i>		<i>chinensis</i>	215.27.3	<i>indicum</i>	156.1.1
<i>semiberbe</i>	220.77.2	<i>corymbosa</i>	215.27.16	<i>Setaria</i>	
<i>Schizoloma</i>		<i>elata</i>	215.27.16	<i>pallide-fusca</i>	220.79.6
<i>ensifolium</i>	12.4.6a/b	<i>gonocarpa</i>	215.27.8	<i>plicata</i>	220.79.5
<i>heterophyllum</i>	12.4.7	<i>hebecarpa</i>	215.27.6	<i>pumila</i>	220.79.6
<i>javanense</i>	12.4.9	<i>levis</i>	215.27.10	<i>rubiginosa</i>	220.79.6
<i>orbiculatum</i>	12.4.17a/b	<i>lithosperma</i>		<i>Shorea</i>	
<i>tenerum</i>	12.4.2	<i>var. roxburghii</i>	215.27.7a	<i>alba</i>	92.8.40
<i>walkerae</i>	12.4.23	<i>multifoliata</i>	215.27.12b	<i>barbata</i>	92.8.40
<i>Schizostachyum</i>		<i>var. ophirensis</i>	215.27.12a	<i>costata</i>	92.8.56
<i>chilianthum</i>	220.78.2	<i>oryzoides</i>	215.27.11	<i>crassifolia</i>	92.8.25
<i>dumosum</i>	220.23.2	<i>radula</i>	215.27.16	<i>elliptica</i>	92.8.13
<i>elegans</i>	220.23.3	<i>reticulata</i>	215.6.2	<i>furfuracea</i>	92.8.43a
<i>longispiculatum</i>	220.78.5	<i>ridleyi</i>	215.27.4	<i>globifera</i>	92.8.2
<i>subcordatum</i>	220.23.6	<i>zeylanica</i>	215.27.13	<i>meadiana</i>	92.8.53
<i>tenue</i>	220.78.2	<i>Scleropyrum</i>		<i>palustris</i>	92.8.49
<i>Schizotorenia</i>		<i>maingayi</i>	179.5.1	<i>resina-nigra</i>	92.8.34
<i>atropurpurea</i>	183.16.1	<i>ridleyi</i>	179.5.1	<i>ridleyana</i>	92.8.14/24
<i>Schoenoplectus</i>		<i>wallichianum</i>	179.5.1	<i>rigida</i>	92.8.43b
<i>grossus</i>	215.2.1	<i>Sclerostachya</i>		<i>rugosa</i>	
<i>Schoenus</i>		<i>ridleyi</i>	220.57.3	<i>var. uliginosa</i>	92.8.59
<i>distichus</i>	215.18.1	<i>Scolopia</i>		<i>scutulata</i>	92.8.46a
<i>Schoutenia</i>		<i>rhinanthera</i>	103.11.1	<i>sericea</i>	92.8.43b
<i>mastersii</i>	194.10.1a	<i>roxburghii</i>	103.11.2	<i>sericeiflora</i>	92.8.23
<i>Sciaphila</i>		<i>Scortechinia</i>		<i>sp. B</i>	92.8.10b
<i>affinis</i>	245.1.1	<i>kingii</i>	101.52.1	<i>sp. C</i>	92.8.55a
<i>asterias</i>	245.1.3	<i>paniculata</i>	101.52.2	<i>talura</i>	92.8.52
<i>major</i>	245.1.3	<i>Scrotochloa</i>		<i>utilis</i>	92.8.40
<i>Scirpodendron</i>		<i>urceolata</i>	220.49.1	<i>Sida</i>	
<i>costatum</i>	215.25.1	<i>Scurrula</i>		<i>carpinifolia</i>	131.5.1
<i>Scirpus</i>		<i>fusca</i>	127.12.2	<i>rhombifolia</i>	
<i>clarkei</i>	215.26.1	<i>Secanone</i>		<i>var. retusa</i>	131.5.5a
<i>confervoides</i>	215.29.1	<i>micrantha</i>	54.26.1	<i>var. rhomboidea</i>	131.5.5b
<i>erectus</i>	215.23.1	<i>Securidaca</i>		<i>veronicifolia</i>	131.5.3
<i>grossus</i>	215.3.1	<i>bracteata</i>	165.4.1	<i>Sideroxylon</i>	
		<i>tavoyana</i>	165.4.1	<i>ferrugineum</i>	181.9.6
				<i>firmum</i>	181.9.1
				<i>glabrum</i>	181.9.2

<i>littorale</i>	181.9.3	<i>Sphaerocoryne</i>		<i>Stauroopsis</i>	
<i>maingayi</i>	181.9.4	<i>aberrans</i>	48.17.1	<i>gigantea</i>	233.143.1
<i>malaccense</i>	181.9.5	<i>Sphaerostylis</i>		<i>Stelechocarpus</i>	
<i>Sindora</i>		<i>malaccense</i>	101.49.2	<i>nitidus</i>	48.33.2
<i>intermedia</i>	122.70.5	<i>Sphenodesme</i>		<i>Stemmatodaphne</i>	
<i>Sloetia</i>		<i>barbata</i>	200.11.2	<i>perakensis</i>	119.2.17
<i>sideroxylon</i>	139.9.2	<i>Sphenomeris</i>		<i>Stemona</i>	
<i>Smilax</i>		<i>clinensis</i>	12.6.1a	<i>tuberosa</i>	242.1.1
<i>barbata</i>	241.2.13	var. <i>divaricata</i>	12.6.1b	<i>Stemonurus</i>	
<i>bracteata</i>		var. <i>rheophila</i>	12.6.1c	<i>capitatus</i>	113.11.1
var. <i>barbata</i>	241.2.13	<i>clausana</i>		<i>corniculatus</i>	113.2.1
<i>helferi</i>	241.2.8	var. <i>tenuifolia</i>	12.6.1b	<i>secundiflorus</i>	113.11.2
<i>laevis</i>	241.2.6	<i>Sphinctacanthus</i>		<i>Stenotaphrum</i>	
<i>peguana</i>	241.2.3	<i>malayanus</i>	39.6.1	<i>dimidiatum</i>	220.85.2
<i>Smythea</i>		<i>Spilanthes</i>		<i>Stephania</i>	
<i>pacifica</i>	172.5.1	<i>acmella</i>	78.2.2	<i>hernandiifolia</i>	135.12.3
<i>Solanum</i>		<i>iabadicensis</i>	78.2.2	<i>rotunda</i>	135.12.4
<i>aculeatissimum</i>	185.4.1	<i>paniculata</i>	78.2.1	<i>Stephanotis</i>	
<i>biflorum</i>	185.2.1	<i>urens</i>	78.32.1	<i>maingayi</i>	54.18.6
<i>blumei</i>	185.2.2	<i>Spinifex</i>		<i>parviflora</i>	54.18.7
<i>decendentatum</i>	185.2.1	<i>squarrosus</i>	220.83.1	<i>Sterculia</i>	
<i>ferox</i>	185.4.6	<i>Spiranthes</i>		<i>angustifolia</i>	187.15.14a
<i>parasiticum</i>	185.2.3	<i>lancea</i>	233.128.1	<i>bicolor</i>	187.15.6
<i>verbascifolium</i>	185.4.3	<i>Spodiopogon</i>		<i>brachycarpa</i>	187.15.14b
<i>Solena</i>		<i>velutinus</i>	220.75.3	<i>elongata</i>	187.15.2
<i>heterophylla</i>	86.7.1	<i>Sporobolus</i>		<i>hispidissima</i>	187.15.14c
<i>Sonerila</i>		<i>diandrus</i>	220.84.1a/b	<i>holtumii</i>	187.15.12
<i>begoniifolia</i>	132.22.29	<i>fertilis</i>	220.84.1b	<i>javanica</i>	187.15.3
<i>whittyi</i>	132.22.11a	<i>indicus</i>	220.84.1b	<i>hyposticta</i>	187.15.4
<i>Sonneratia</i>		<i>pulchellus</i>	220.84.1b	<i>kunstleri</i>	187.15.11
<i>acida</i>	128.7.2	<i>Stachyphrynium</i>		<i>laevis</i>	187.15.2
<i>alba</i>	128.7.4	<i>parvum</i>	230.3.3	<i>microphylla</i>	187.15.4
<i>griffithii</i>	128.7.1	<i>Staurogyne</i>		<i>neriifolia</i>	187.15.2
<i>Sorghum</i>		<i>angustifolia</i>	39.25.8	<i>rostrata</i>	187.15.14b
<i>affine</i>	220.81.1	<i>comosa</i>	39.25.3	sp. A	187.15.11
<i>Sparganophorus</i>		<i>lanceolata</i>	39.25.8	sp. B	187.15.10
<i>vaillantii</i>	78.33.1	<i>longifolia</i>		sp. C	187.15.14b
<i>Spatholobus</i>		var. <i>condensata</i>	39.25.2	sp. D	187.15.4
<i>compar</i>	122.73.7	<i>macrantha</i>	105.8.40a	<i>Streblosa</i>	
<i>Spermacece</i>		<i>malaccensis</i>	39.25.10a/b	<i>hirta</i>	175.72.1
<i>mauritiana</i>	175.71.3	<i>pauper</i>	39.18.3	<i>pubescens</i>	175.72.1
<i>Sphaerocaryum</i>		<i>serrulata</i>	105.8.33	<i>Streblus</i>	
<i>elegans</i>	220.82.1	<i>setigera</i>	39.25.14a/b	<i>malayanus</i>	139.3.1

<i>Streptocaulon</i>		<i>Sycopsis</i>		<i>Tacca</i>	
<i>griffithii</i>	54.27.1	<i>dunnii</i>	109.2.1	<i>chantrieri</i>	243.1.3
<i>Striga</i>		<i>Symingtonia</i>		<i>cristata</i>	243.1.2
<i>hirsuta</i>	183.15.1	<i>populnea</i>	109.4.1	<i>minor</i>	243.1.1
<i>Strobilanthes</i>		<i>Sympetalandra</i>		<i>pinnatifida</i>	243.1.3
<i>phoenicea</i>	39.27.10	<i>borneensis</i>	122.75.2	<i>Taeniochlaena</i>	
<i>Strombosia</i>		<i>Symplocos</i>		<i>griffithii</i>	79.5.1
<i>maingayi</i>	149.7.1	<i>brandiana</i>	190.1.8a	<i>Taeniophyllum</i>	
<i>multiflora</i>	149.7.1	<i>caudata</i>	190.1.16c	<i>culciferum</i>	233.131.6
<i>rotundifolia</i>	149.7.1	<i>concolor</i>	190.1.2	<i>macrorrhizum</i>	233.131.4
<i>Strophanthus</i>		<i>curtisii</i>	190.1.8c	<i>serrula</i>	233.131.10
<i>brevicaudatus</i>	49.26.3	<i>ferruginea</i>	190.1.7a	<i>tjibodasanum</i>	233.131.5
<i>dichotamus</i>	49.26.1	<i>fulvosa</i>	190.1.1	<i>viride</i>	233.131.5
<i>jackianus</i>	9.32.1	<i>microtricha</i>	190.1.22	<i>Tainia</i>	
<i>Strychnos</i>		<i>monticola</i>	190.1.8c	<i>latilingua</i>	233.132.2
<i>hirsutiflora</i>	125.5.10	<i>penangiana</i>	190.1.8e	<i>penangiana</i>	233.8.1
<i>malaccensis</i>	125.5.1	<i>perakensis</i>	190.1.16c	<i>wrayana</i>	233.86.2
<i>ovalifolia</i>	125.5.5	<i>pruniflora</i>	190.1.1	<i>Talauma</i>	
<i>penicillata</i>	125.5.1	<i>pulverulenta</i>	190.1.15	<i>betongensis</i>	129.1.2b
<i>pubescens</i>	125.5.1	<i>ridleyi</i>	190.1.13	<i>candollii</i>	129.1.2a
<i>quintuplinervis</i>	125.5.1	<i>rigida</i>	190.1.3	<i>gracilior</i>	129.1.2a
<i>scortechinii</i>	125.5.1	<i>spicata</i>	190.1.7b	<i>kunstleri</i>	129.1.2a
<i>septemnervis</i>	125.5.2	<i>Synaptea</i>		<i>lanigera</i>	129.1.7
<i>Stylocoryna</i>		<i>cinerea</i>	92.9.2	<i>longifolia</i>	129.1.2a
<i>adpressa</i>	175.75.2	<i>cuspidata</i>	92.9.3	<i>mutabilis</i>	129.1.2a
<i>angustifolia</i>	175.75.3	<i>lancaviensis</i>	92.9.2	<i>oblanceolata</i>	129.1.2b
<i>costata</i>	175.75.4	<i>lowii</i>	92.9.9	<i>peninsularis</i>	129.1.2a
<i>fragrans</i>	175.75.7	<i>maingayi</i>	92.9.3.10	<i>rubra</i>	129.1.2a
<i>maingayi</i>	175.75.13	<i>nitens</i>		<i>sebassa</i>	129.1.2a
<i>mollis</i>	175.75.14	<i>reticulata</i>	92.9.11	<i>singaporensis</i>	129.1.2c
<i>Stylosanthes</i>		<i>Syngamma</i>		<i>villosa</i>	129.1.7
<i>sundaica</i>	122.74.2	<i>alismiifolia</i>	5.7.7	<i>Tapeinidium</i>	
<i>Styrax</i>		<i>quinata</i>	5.7.4	<i>biserratum</i>	12.10.2
<i>fraserensis</i>	189.1.2b	<i>Synostemon</i>		<i>Tarenna</i>	
<i>Sunaptea</i>		<i>bacciformis</i>	101.62.2	<i>adpressa</i>	175.73.9
<i>dyeri</i>	92.9.13	<i>Syzygium</i>		<i>calcareo</i>	175.73.1
<i>faginea</i>	92.9.13	<i>enervosum</i>	143.10.124	<i>grandifolia</i>	175.73.16
<i>Susum</i>		<i>fusiforme</i>	143.10.35	<i>napieri</i>	175.59.5
<i>anthelminthicum</i>	221.1.1	<i>operculatum</i>	143.3.1	<i>papillosa</i>	175.73.2
<i>malayanum</i>	221.1.1	<i>pseudotetrapterum</i>	143.10.121a	<i>salicina</i>	175.59.8
<i>Swintonia</i>		<i>Tabernaemontana</i>		<i>Tarrietia</i>	
<i>lurida</i>	45.7.1	<i>cylindricocarpa</i>	49.27.2	<i>curtisii</i>	187.6.8
<i>penangiana</i>	45.17.1	<i>hirta</i>	49.27.1	<i>kunstleri</i>	187.6.4
<i>puberula</i>	45.17.1	<i>malaccensis</i>	49.27.6	<i>perakensis</i>	187.6.8
		<i>polyneura</i>	49.27.3	<i>simplicifolia</i>	187.6.7
		<i>sphaerocarpa</i>	49.27.5	<i>unifoliolata</i>	187.6.1

<i>Taxillus</i>		<i>Tetrastigma</i>		<i>Thysanolaena</i>	
<i>estipitatus</i>	127.13.1	<i>lanceolarium</i>	203.8.8	<i>agrostis</i>	220.88.1
<i>Taxotrophis</i>		<i>Teysmannia</i>		<i>maxima</i>	220.88.1
<i>ilicifolia</i>	139.9.4	<i>altifrons</i>	234.15.1/3/4	<i>Timonius</i>	
<i>Tectaria</i>		<i>Thecostele</i>		<i>atropurpureus</i>	175.5.1
<i>amplifolia</i>	15.12.16	<i>maculosa</i>	233.134.1	<i>finlaysonianus</i>	175.74.1
<i>ingens</i>	15.12.21	<i>maingayi</i>	233.133.1	<i>hirsutus</i>	175.5.1
<i>macrodonata</i>	15.12.5	<i>secunda</i>	233.133.2	<i>peduncularis</i>	175.74.4
<i>maingayi</i>	15.12.20	<i>zollingeri</i>	233.134.1	<i>wallichianus</i>	
<i>multicaudata</i>	15.12.13a/b			var. <i>penangianus</i>	175.74.2b
<i>oligophylla</i>	15.12.11	<i>Thelasis</i>		<i>Tinospora</i>	
<i>polymorpha</i>		<i>capitata</i>	233.135.4	<i>curtisii</i>	86.9.1
var. <i>cuneifolia</i>	15.12.11	<i>decurva</i>	233.135.3	<i>Torenia</i>	
<i>rumicifolia</i>	15.12.11	<i>elongata</i>	233.135.4	<i>peduncularis</i>	183.16.7
<i>ternifolia</i>	15.12.22	<i>triptera</i>	233.135.4	<i>Tournefortia</i>	
<i>variolosa</i>	15.12.3/15	<i>Thelypteris</i>		<i>argentea</i>	61.1.1
<i>Tephrosia</i>		<i>beddomei</i>	32.11.2	<i>wallichii</i>	61.9.1
<i>subamoena</i>	122.77.2	<i>chylamydophora</i>	32.8.2	<i>Trachelospermum</i>	
<i>Teraktogenos</i>		<i>ciliata</i>	32.15.1	<i>curtisii</i>	49.12.1
<i>kunstleri</i>	103.6.7a	<i>crassifolia</i>	32.8.3	<i>obtusifolium</i>	49.4.9
var. <i>tomentosa</i>	103.6.7b	<i>immersa</i>	32.2.1	<i>Tragia</i>	
<i>scortechinii</i>	103.6.7a	<i>motleyana</i>	32.8.4	<i>laevis</i>	101.25.2
<i>Terminalia</i>		<i>oppositipinna</i>	32.13.2		
<i>bialata</i>	77.5.2	<i>paleata</i>	32.8.5	<i>Trema</i>	
<i>Terminthodia</i>		<i>pectiniformis</i>	32.5.6a/b	<i>amboinensis</i>	197.3.4
<i>viridiflora</i>	176.16.2	<i>singalanensis</i>	32.9.1	<i>virgata</i>	197.3.2
<i>Ternstroemia</i>		<i>uliginosa</i>	32.7.1	<i>Trevesia</i>	
<i>scortechinii</i>	192.7.3	<i>unidentata</i>	32.5.8	<i>cheiranthia</i>	51.9.1
<i>Tetracera</i>		<i>viscosa</i>	32.6.1	<i>Trichilia</i>	
<i>assa</i>	91.3.5	<i>Themeda</i>		<i>connaroides</i>	133.14.1
<i>borneensis</i>	91.3.8	<i>subsericans</i>	220.86.2	<i>Trichoglottis</i>	
<i>fragrans</i>	91.3.6	<i>Thoracostachyum</i>		<i>fasciata</i>	233.129.1
<i>grandis</i>	91.3.7	<i>bancanum</i>	215.17.1	<i>misera</i>	233.138.1
<i>lucida</i>	91.3.2	<i>hypolytroides</i>	215.17.14	<i>tetraceras</i>	233.138.2
<i>sumatrana</i>	91.3.4	<i>sumatranum</i>	215.17.14	<i>Tricholaena</i>	
<i>sylvestris</i>	91.3.1	<i>Thrixspermum</i>		<i>rosea</i>	220.55.1
<i>Tetractomia</i>		<i>album</i>	233.136.29	<i>Trichomanes</i>	
<i>holtumii</i>	176.16.2	<i>arachnites</i>	233.136.8/25	<i>aphlebioides</i>	18.2.1
<i>roxburghii</i>	176.16.2	<i>lilacinum</i>	233.136.2	<i>auriculatum</i>	18.2.2
<i>Tetrardisia</i>		<i>notabile</i>	233.136.1	<i>bilabiatum</i>	18.2.3
<i>corneri</i>	142.3.12	<i>rubrocallosum</i>	233.136.23	<i>bimarginatum</i>	18.5.4
<i>denticulata</i>	142.3.12	<i>Thuarea</i>		<i>bipunctatum</i>	18.2.3
<i>porosa</i>	142.3.50	<i>sarmentosa</i>	220.87.1	<i>digitatum</i>	18.2.5
<i>tetrasepala</i>	142.3.66	<i>Thunbergia</i>		<i>gemmaum</i>	18.1.1
		<i>alata</i>	39.28.1a/b	<i>humile</i>	18.2.6
		<i>fragrans</i>			
		var. <i>javanica</i>	39.28.2/5		

<i>idoneum</i>	18.1.1	<i>subauriculata</i>	143.11.2	<i>Urceola</i>	
<i>javanicum</i>	18.1.2a/b	<i>whiteana</i>	143.11.6	<i>maingayi</i>	49.28.1
<i>kurzii</i>	18.2.7	<i>Tristira</i>		<i>malaccensis</i>	49.28.7
<i>latealatum</i>	18.2.8	<i>penangensis</i>	180.8.1	<i>montana</i>	49.28.5
<i>maximum</i>	18.2.9	<i>Triumfetta</i>		<i>Urena</i>	
<i>meifolium</i>	18.1.3	<i>bartramia</i>	194.12.4	<i>lobata</i>	
<i>minutum</i>	18.2.10	<i>pseudocana</i>	194.12.5	var. <i>lobata</i>	131.7.1a/b
<i>obscurum</i>	18.1.4	<i>subpalmata</i>	194.12.3	var. <i>sinuata</i>	131.7.1c/d
<i>pallidum</i>	18.2.11	<i>Tropidia</i>		<i>rigida</i>	131.4.1
<i>proliferum</i>	18.2.10	<i>maingayi</i>	233.140.4	<i>Urnularia</i>	
<i>radicans</i>	18.2.12	<i>Tupidanthus</i>		<i>flavescens</i>	49.30.3
<i>saxifragides</i>	18.2.10	<i>calyptratus</i>	51.8.20	<i>rufescens</i>	49.30.1
<i>setigerum</i>	18.1.5	<i>Turnera</i>		<i>Urophyllum</i>	
<i>singaporeanum</i>	18.1.6	<i>trioniflora</i>	196.1.1	<i>coriaceum</i>	175.76.8
<i>superbum</i>	18.1.7	<i>Turpinia</i>		<i>glabrum</i>	
<i>Trichopus</i>		<i>latifolia</i>	186.1.2	var. <i>blumeanum</i>	175.76.1
<i>malayanus</i>	244.1.1	<i>laxiflora</i>	186.1.2	<i>hirsutum</i>	
<i>Trichosanthes</i>		<i>trifoliata</i>	186.1.1	var. <i>longifolium</i>	175.76.25
<i>palmata</i>	86.8.2	<i>Tylophora</i>		<i>Utricularia</i>	
<i>Trichospermum</i>		<i>asthmatica</i>	54.30.6	<i>albina</i>	123.1.3
<i>cymbiforme</i>	194.11.1	<i>grandiflora</i>	54.30.9	<i>exoleta</i>	123.1.4
<i>kurzii</i>	194.11.1	<i>ridleyi</i>	54.16.27	<i>flexuosa</i>	123.1.1
<i>Trichotomia</i>		<i>tenuis</i>	54.30.3	<i>fluitans</i>	123.1.8
<i>biflora</i>	233.139.6	<i>tenuissima</i>	54.30.3	<i>griffithii</i>	123.1.12
<i>oligantha</i>	233.139.3	<i>tetrapetala</i>	54.30.3	<i>nigricaulis</i>	123.1.7
<i>pyrrhotricha</i>	233.139.2	<i>wallichii</i>	54.30.10	<i>ophirensis</i>	123.1.3
<i>tuberosa</i>	233.139.6	<i>Tylostylis</i>		<i>verticillata</i>	123.1.6
<i>Trigonochlamys</i>		<i>rigida</i>	233.55.38	<i>wallichiana</i>	123.1.9
<i>grandifolia</i>	63.1.4	<i>Typhonium</i>		<i>Uvaria</i>	
<i>griffithii</i>	63.4.3	<i>cuspidatum</i>	207.23.2	<i>astrosticta</i>	48.35.10
<i>Trigonostemon</i>		<i>Uncaria</i>		<i>dulcis</i>	48.35.5
<i>arboreus</i>	101.53.2	<i>dasyoneura</i>	175.75.8	<i>excelsa</i>	48.6.3
<i>borneensis</i>	101.69.9	<i>ferrea</i>	175.75.12b	<i>macrophylla</i>	48.35.1
<i>capillipes</i>	101.69.3	<i>glabrata</i>	175.75.12b	<i>micrantha</i>	48.6.5
<i>indicus</i>	101.69.12b	<i>jasminiflora</i>	175.75.5	<i>purpurea</i>	48.35.3a
<i>salicifolius</i>	101.69.12a	<i>lanosa</i>	175.75.12c	<i>ridleyi</i>	48.35.10
<i>sumatranus</i>	101.69.8	<i>ovalifolia</i>	175.75.1	<i>sub-repanda</i>	48.35.8
<i>Triraphis</i>		<i>parviflora</i>	175.75.10	<i>Uvariella</i>	
<i>madagascariensis</i>	220.60.1	<i>pedicellata</i>	175.75.7a	<i>leptopoda</i>	48.35.7
<i>Tristania</i>		<i>pteropoda</i>	175.75.13b	<i>Vaccinium</i>	
<i>fruticosa</i>	143.11.1	<i>sclerophylla</i>	175.75.7b	<i>ardisiiflorum</i>	98.8.2b
<i>maingayi</i>	143.11.2	<i>trinervis</i>	175.75.13a	<i>bancanum</i>	98.8.2a/b
<i>merguensis</i>	143.11.2	<i>wrayi</i>	175.75.5	<i>breviflos</i>	98.8.2a
<i>obovata</i>	143.11.3	<i>Uncifera</i>		<i>decorum</i>	98.8.12b
<i>pontianensis</i>	143.11.4	<i>tenuicaulis</i>	233.145.1	<i>eburneum</i>	98.8.2b
<i>razakiana</i>	143.11.5			<i>erythrinum</i>	98.8.11
<i>spatulata</i>	143.11.3			<i>hasseltii</i>	98.8.7

<i>longibracteatum</i>	98.8.5	<i>Villarsia</i>		<i>trifolia</i>	203.3.4
<i>malaccense</i>	98.8.3	<i>aurantiaca</i>	136.1.1	<i>wrayi</i>	203.3.5/8.4
<i>perakense</i>	98.8.12b				
<i>pubicarpum</i>	98.8.3	<i>Villebrunea</i>		<i>Walsura</i>	
<i>wrayi</i>	98.8.2b	<i>rubescens</i>	199.7.1	<i>chrysogyne</i>	133.11.1
		<i>sylvatica</i>	199.7.1	<i>multijuga</i>	133.11.1
<i>Vallaris</i>				<i>neurodes</i>	133.16.1
<i>lancifolia</i>	49.29.1	<i>Viola</i>		<i>tenuifolia</i>	133.14.1
<i>maingayi</i>	49.16.3	<i>serpens</i>	201.2.1/4	<i>villosa</i>	180.10.2
<i>Vanda</i>		<i>Viscum</i>		<i>Wardenia</i>	
<i>hookeriana</i>	233.97.1	<i>dichotomum</i>	202.3.1	<i>simplex</i>	51.3.5
		<i>flexuosum</i>	202.3.1		
<i>Vandellia</i>		<i>nepalense</i>	202.3.1	<i>Wattakaka</i>	
<i>crustacea</i>	183.9.5	<i>orientale</i>	202.3.2	<i>volubilis</i>	54.8.1
<i>elata</i>	183.9.6				
<i>hirsuta</i>	183.9.13	<i>Vitex</i>		<i>Wedelia</i>	
<i>mollis</i>	183.9.7	<i>clarkeana</i>	200.13.2	<i>biflora</i>	78.37.1
<i>multiflora</i>	183.9.8	<i>coriacea</i>	200.13.1	<i>chinensis</i>	78.10.1
<i>pedunculata</i>	183.9.1	<i>heterophylla</i>	200.15.6	<i>trilobata</i>	78.10.2
<i>scabra</i>	183.9.3	<i>holophylla</i>	200.13.3		
		<i>peralata</i>	200.13.4	<i>Wendlandia</i>	
<i>Vangueria</i>		<i>pteropoda</i>	200.13.4	<i>paniculata</i>	175.77.1
<i>grisea</i>	175.43.1	<i>pubescens</i>	200.15.5	<i>Wikstroemia</i>	
				<i>candolleana</i>	193.7.3
<i>Vanilla</i>		<i>Vitis</i>		<i>viridiflora</i>	193.7.2
<i>montana</i>	233.144.1	<i>cantoniensis</i>	203.2.1		
		<i>cinnamomea</i>	203.1.3	<i>Willughbeia</i>	
<i>Vatica</i>		<i>compositifolia</i>	203.1.4	<i>coriacea</i>	49.30.2
<i>bancana</i>	92.9.21	<i>curtisii</i>	203.8.2	<i>dulcis</i>	49.30.2
<i>kelsallii</i>	92.9.15	<i>diffusa</i>	203.4.6	<i>firma</i>	49.30.2
<i>kunstleri</i>	92.9.21	<i>discolor</i>	203.4.3	<i>flavescens</i>	
<i>patula</i>	92.9.11	<i>elegans</i>	203.1.5	var. <i>rufescens</i>	49.31.1
<i>stipulata</i>	92.9.7	<i>floccosa</i>	203.1.6		
<i>wallichii</i>	92.9.15	<i>glaberrima</i>	203.4.5	<i>Wissadula</i>	
		<i>gracilis</i>	203.1.7	<i>zeylanica</i>	131.8.1
<i>Ventilago</i>		<i>harmandi</i>	203.1.1	<i>Wolffia</i>	
<i>velutina</i>	172.5.4a/b	<i>hastata</i>	203.4.4	<i>arrhiza</i>	227.3.1
		<i>japonica</i>	203.3.1		
<i>Vernonia</i>		<i>kunstleri</i>	203.8.8	<i>Wormia</i>	
<i>chinensis</i>	78.36.6	<i>lanceolarium</i>	203.8.8	<i>albiflos</i>	91.2.1
<i>javanica</i>	78.36.1	<i>lawsoni</i>	203.8.7	<i>oblonga</i>	91.2.2
<i>wallichii</i>	78.36.1	<i>macrostachya</i>	203.5.1	<i>parviflora</i>	91.2.10
<i>Vetiveria</i>		<i>martini</i>	203.1.8	<i>pulchella</i>	91.2.7
<i>odorata</i>	220.92.2	<i>mollissima</i>	203.3.2	<i>subsessilis</i>	91.2.9
		<i>novemfolia</i>	203.3.3	<i>suffruticosa</i>	91.2.9
<i>Viburnum</i>		<i>peduncularis</i>	203.8.10	<i>tomentella</i>	91.2.2
<i>longistamineum</i>	68.2.3a	<i>polystachya</i>	203.1.9/10/11		
<i>villosum</i>	68.2.3b	<i>pyrrhodasys</i>	203.4.8	<i>Wrightia</i>	
		<i>repens</i>	203.4.6	<i>javanica</i>	49.31.2b
<i>Vigna</i>		<i>rostrata</i>	203.4.7		
<i>parviflora</i>	122.80.4	<i>scortechinii</i>	203.8.12	<i>Xanthophyllum</i>	
<i>retusa</i>	122.80.3	<i>semicordata</i>	203.6.1	<i>affine</i>	165.5.9
				<i>curtisii</i>	165.5.24

<i>glaucum</i>	165.5.11	<i>Zehneria</i>	
<i>griffithii</i>	165.5.10a/b	<i>indica</i>	86.10.1
var. <i>angustifolium</i>	165.5.10a	<i>umbellata</i>	86.7.1
var. <i>curtisii</i>	165.5.24		
var. <i>griffithii</i>	165.5.10b	<i>Zeuxine</i>	
var. <i>montanum</i>	165.5.13	<i>abbreviata</i>	233.9.7
<i>hebecarpum</i>	103.9.4	<i>biloba</i>	233.69.2
<i>hookerianum</i>	165.5.24	<i>gracilis</i>	233.147.1
<i>kingii</i>	165.5.7	<i>sulcata</i>	233.147.9
<i>kunstleri</i>	165.5.24		
<i>maingayi</i>	165.5.8a/b	<i>Zingiber</i>	
<i>palembanicum</i>	165.5.8b	<i>chryseum</i>	248.18.7a
<i>puberulum</i>	165.5.25	<i>citrinum</i>	248.18.4
<i>scortechinii</i>	165.5.15	<i>griffithii</i>	
sp. A	165.5.12	var. <i>major</i>	248.18.7c
sp. B	165.5.16	<i>Zippelia</i>	
sp. C	165.5.14	<i>lappacea</i>	160.3.1
sp. E	165.5.4		
<i>verrucosum</i>	165.5.8a	<i>Zoysia</i>	
<i>wrayi</i>	165.5.22	<i>pungens</i>	220.93.1
<i>Xanthophytum</i>			
<i>capitatum</i>	175.78.2		
<i>Xerospermum</i>			
<i>echinulatum</i>	180.18.2		
<i>intermedium</i>	180.18.2		
<i>unijugum</i>	180.18.1		
<i>wallichii</i>	180.18.2		
<i>Xiphopteris</i>			
<i>hieronymusii</i>	17.7.2		
<i>Xylopi</i>			
<i>curtisii</i>	48.5.8		
<i>dicarpa</i>	48.1.6		
<i>olivacea</i>	48.5.2		
<i>oxyantha</i>	48.36.3b		
<i>pustulata</i>	48.36.6a		
<i>ridleyi</i>	48.5.6		
<i>scortechinii</i>	48.5.7		
<i>Xyris</i>			
<i>anceps</i>	247.1.3		
<i>malmei</i>	247.1.7		
<i>oreophila</i>	247.1.7		
<i>ridleyi</i>	247.1.1		
<i>Zanonia</i>			
<i>clarkei</i>	86.1.1		
<i>Zanthoxylum</i>			
<i>hirtellum</i>	176.18.3		
<i>limonella</i>	176.18.4		



