

## AN ANNOTATED CHECK-LIST OF THE VASCULAR PLANTS OF THE SOUTH CHINA SEA AND ITS SHORES

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**ABSTRACT.** - A check-list of the vascular plants commonly found growing in, or on the shores of, the South China Sea is presented. Each entry is annotated with a brief description of habit and habitat and an outline of its distribution in the South China Sea Region.

**KEY WORDS.** - Coastal Vegetation, Strand Flora, Littoral Zone, Rocky Shore, Sea-grass, Mangroves, Islands, Indochina, Malesia.

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Botanically, the open sea is dominated by the algae. The South China Sea is no exception, and only a relatively few species of vascular plants live submerged in seawater throughout their life. The vascular plants dominate both the land, and the ecotone between land and sea - the seashores. The shores of the South China Sea are extensive, running along the mainland of continental Asia from Fujian on the southern coast of China to the tip of the Malay Peninsula, and back across the north coasts of Borneo, Palawan, Luzon and the east coast of Taiwan. These coasts, and the open sea, are dotted with islands, adding greatly to the amount of vegetation under the direct influence of the South China Sea.

Here are found a wide range of vascular plants, which we have attempted to enumerate in this paper. The major problem we faced in compiling the list was in deciding which species to include. As one moves away from the sea onto the land, the diversity of plants increases and the species tend to be less restricted to coastal habitats, for instance, many weedy plants grow well at the top of beaches, above the high tide line, but they are not only found in such sites, and often are commoner on waste ground further inland. Distinguishing between coastal specialists and opportunists is not always easy, and some species with wide-ranging habitat preferences are still characteristic of certain coastal vegetation types e.g. *Tridax procumbens* is a very common herb of sandy shores, but is also common in lowland grassland throughout

the region. We have erred on the side of caution in the list, including species that are often associated with coastal vegetation, at least in parts of their range. To assist the reader in distinguishing the most important coastal elements we provide a series of tables listing the species we believe to characterize certain habitats.

### ***The check-list information***

The check-list includes the names we accept as correct for the vascular plants found naturally (native and naturalized) on the shores of, or in, the South China Sea. These are listed in the traditional order of fern-allies, ferns, gymnosperms and angiosperms (dicotyledons followed by monocotyledons). Within each major group, families are listed alphabetically, with species given in alphabetical order within each family. Important synonyms are given. A brief description emphasising life form and size and habitat notes follow. Finally an indication of distribution within the South China Sea region is included for each species. An abbreviated form of reference to major areas is employed as follows:

PM = Peninsular Malaysia (East Coast)

Sp = Singapore

Ri = Riou Province, Indonesia (including Anambas and Natuna Islands)

WK = West Kalimantan Province (Kalimantan Barat), Indonesia

Sk = Sarawak, Malaysia

Bn = Brunei (Negara Brunei Darussalam)

Sb = Sabah, Malaysia

Ph = Philippines (islands bordering the South China Sea)

Th = Thailand

Cm = Cambodia

Vt = Vietnam

Tw = Taiwan

Hn = Hainan

Gx = Guangxi

Gd = Guangdong

Fj = Fujian

Relatively few islands occur in the South China Sea far from its main shores. These are mostly tiny but politically highly significant. The largest islands occur in the Anambas and Natuna groups of Indonesia, but they are very poorly documented botanically, and records are here included in Riou Province. The Spratly Islands (referred to as the Nansha Islands in the Chinese literature), Paracel Islands (Xisha Is.) and Pratas Island (Tungsha or Dongsha Is.) are included as localities because recent publications (see bibliography) have made a significant number of records available.

In some cases it has proven difficult to localize exactly the distributions of species, and the following have been used:

Bo. = Borneo

MC = mainland China

The records are derived largely from published sources plus the personal knowledge of the authors.

**Sea-grasses**

The only vascular plants that can live perpetually submersed in saltwater are the sea-grasses, of which 15 species have been recorded from the South China Sea (Table 1). *Ruppia maritima* is an aquatic plant that can grow in brackish water, but not pure seawater. Sea-grasses generally grow in clear shallow water, and form an important marine habitat, sea-grass meadows, which are quite extensive in certain parts of the South China Sea.

Table 1. Sea-grasses of the South China Sea.

Species	Family
<i>Cymodocea rotundata</i> Ehrenb. & Hempr. ex Asch.	Cymodoceaceae
<i>Cymodocea serrulata</i> (R.Br.) Asch. & Magnus	Cymodoceaceae
<i>Enhalus acoroides</i> (L.f.) Royle	Hydrocharitaceae
<i>Halodule pinifolia</i> (Miki) Hartog	Cymodoceaceae
<i>Halodule uninervis</i> (Forssk.) Asch.	Cymodoceaceae
<i>Halophila beccarii</i> Asch.	Hydrocharitaceae
<i>Halophila decipiens</i> Ostenfeld	Hydrocharitaceae
<i>Halophila minor</i> (Zoll.) Hartog	Hydrocharitaceae
<i>Halophila ovalis</i> (R.Br.) Hook.f.	Hydrocharitaceae
<i>Halophila spinulosa</i> (R.Br.) Asch.	Hydrocharitaceae
<i>Posidonia australis</i> Hook.f.	Posidoniaceae
<i>Syringodium isoetifolium</i> (Asch.) Dandy	Cymodoceaceae
<i>Thalassia hemprichii</i> (Ehrenb.) Asch.	Hydrocharitaceae
<i>Thalassodendron ciliatum</i> (Forssk.) Hartog	Cymodoceaceae
<i>Zostera japonica</i> Asch. & Graebner	Zosteraceae

**Mangroves**

Mangrove forests occur on sheltered tropical and subtropical shores, frequently where the substrate is fine mud, though mangroves can occur on sand, or even on coral flats. The South China Sea, particularly in its tropical regions, is one of the world's richest places for mangrove diversity. A list of species characteristic of the mangroves and muddy shores of the South China Sea is given in Table 2.

Table 2. Characteristic species of the mangroves and muddy shores of the South China Sea. An asterisk indicates a subtropical/temperate element.

Species	Family
<i>Acanthus ebracteatus</i> Vahl	Acanthaceae
<i>Acanthus ilicifolius</i> L.	Acanthaceae
<i>Acanthus volubilis</i> Wall.	Acanthaceae
<i>Acrostichum aureum</i> L.	Pteridaceae
<i>Acrostichum speciosum</i> Willd.	Pteridaceae
<i>Aegiceras corniculatum</i> (L.) Blanco	Myrsinaceae
<i>Aegiceras floridum</i> Roem. & Schult.	Myrsinaceae
<i>Aganope heptaphylla</i> (L.) Polhill	Leguminosae
<i>Aglaodorum griffithii</i> (Schott) Schott	Araceae
* <i>Aster subulatus</i> Michx.	Compositae
<i>Avicennia alba</i> Blume	Avicenniaceae
<i>Avicennia marina</i> (Forssk.) Vierh.	Avicenniaceae

Table 2. – Continued

Species	Family
<i>Avicennia officinalis</i> L.	Avicenniaceae
<i>Avicennia rumphiana</i> Hallier f.	Avicenniaceae
* <i>Azima sarmentosa</i> (Blume) Benth. & Hook.f.	Salvadoraceae
<i>Barringtonia conoidea</i> Griff.	Lecythidaceae
<i>Barringtonia racemosa</i> (L.) Spreng.	Lecythidaceae
<i>Barringtonia reticulata</i> (Blume) Miq.	Lecythidaceae
<i>Brownlowia argentata</i> Kurz	Tiliaceae
<i>Brownlowia tersa</i> (L.) Kosterm.	Tiliaceae
<i>Bruguiera cylindrica</i> (L.) Blume	Rhizophoraceae
<i>Bruguiera gymnorrhiza</i> (L.) Savigny	Rhizophoraceae
<i>Bruguiera hainesii</i> C.G. Rogers	Rhizophoraceae
<i>Bruguiera parviflora</i> (Roxb.) Wight & Arn. ex Griff.	Rhizophoraceae
<i>Bruguiera sexangula</i> (Lour.) Poir.	Rhizophoraceae
<i>Bulbostylis barbata</i> (Rottb.) C.B. Clarke	Cyperaceae
<i>Bulbostylis puberula</i> (Poir.) C.B. Clarke	Cyperaceae
<i>Caesalpinia bonduc</i> (L.) Roxb.	Leguminosae
<i>Caesalpinia crista</i> L.	Leguminosae
<i>Calamus erinaceus</i> (Becc.) J. Dransf.	Palmae
<i>Camptostemon philippinense</i> (Vidal) Becc.	Bombacaceae
* <i>Carex scabrifolia</i> Steud.	Cyperaceae
<i>Cassine viburnifolia</i> (Juss.) Ding Hou	Celastraceae
<i>Cerbera odollam</i> Gaertn.	Apocynaceae
<i>Ceriops decandra</i> (Griff.) W. Theob.	Rhizophoraceae
<i>Ceriops tagal</i> (Pers.) C.B. Rob.	Rhizophoraceae
<i>Clerodendrum inerme</i> (L.) Gaertn.	Verbenaceae
<i>Crinum asiaticum</i> L.	Amaryllidaceae
<i>Cryptocoryne ciliata</i> (Roxb.) Schott	Araceae
<i>Cynometra ramiflora</i> L.	Leguminosae
<i>Cyperus javanicus</i> Houtt.	Cyperaceae
<i>Cyperus malaccensis</i> Lam.	Cyperaceae
* <i>Cyperus monophyllus</i> Vahl	Cyperaceae
<i>Dalbergia candanensis</i> (Dennst.) Prain	Leguminosae
<i>Derris trifoliata</i> Lour.	Leguminosae
<i>Dolichandrone spathacea</i> (L.f.) K.Schum.	Bignoniaceae
<i>Excoecaria agallocha</i> L.	Euphorbiaceae
<i>Fimbristylis cymosa</i> R.Br.	Cyperaceae
<i>Finlaysonia obovata</i> Wall.	Asclepiadaceae
<i>Gymnanthera oblonga</i> (Burm.f.) P.S. Green	Asclepiadaceae
<i>Halosarcia indica</i> (Willd.) Paul G. Wilson	Chenopodiaceae
<i>Heritiera littoralis</i> Dryand.	Sterculiaceae
<i>Hoya obtusifolia</i> Wight	Asclepiadaceae
<i>Inocarpus fagifer</i> (Parkinson) Fosberg	Leguminosae
<i>Intsia bijuga</i> (Colebr.) Kuntze	Leguminosae
<i>Kandelia candel</i> (L.) Druce	Rhizophoraceae
* <i>Limonium sinense</i> (Girard) Kuntze	Plumbaginaceae
<i>Lumnitzera littorea</i> (Jack) Voigt	Combretaceae
<i>Lumnitzera racemosa</i> Willd.	Combretaceae
<i>Melaleuca cajuputi</i> Powell	Myrtaceae
<i>Merope angulata</i> (Willd.) Swingle	Rutaceae
<i>Nypa fruticans</i> Wurm	Palmae
<i>Ochthocharis javanica</i> Blume	Melastomataceae
<i>Osbornia octodonta</i> F. Muell.	Myrtaceae

Table 2. – Continued

Species	Family
<i>Phoenix paludosa</i> Roxb.	Palmae
<i>Pluchea indica</i> (L.) Less.	Compositae
<i>Rhizophora apiculata</i> Blume	Rhizophoraceae
<i>Rhizophora mucronata</i> Lam.	Rhizophoraceae
<i>Rhizophora stylosa</i> Griff.	Rhizophoraceae
<i>Scirpodendron ghaeri</i> (Gaertn.) Merr.	Cyperaceae
<i>Scyphiphora hydrophyllacea</i> C.F. Gaertn.	Rubiaceae
<i>Sesuvium portulacastrum</i> (L.) L.	Aizoaceae
<i>Sonneratia alba</i> J.J.Sm.	Lythraceae
<i>Sonneratia caseolaris</i> (L.) Engl.	Lythraceae
<i>Sonneratia griffithii</i> Kurz	Lythraceae
<i>Sonneratia hainanensis</i> Ko et al.	Lythraceae
<i>Sonneratia ovata</i> Back.	Lythraceae
* <i>Suaeda maritima</i> (L.) Dum.	Chenopodiaceae
<i>Tricostularia undulata</i> (Thwaites) Kern	Cyperaceae
<i>Tristellateia australasiae</i> A. Rich.	Malpighiaceae
<i>Wollastonia biflora</i> (L.) DC.	Compositae
<i>Xylocarpus granatum</i> J. König	Meliaceae
<i>Xylocarpus moluccensis</i> (Lam.) M. Roem.	Meliaceae

### Sandy Shores

The flora of sandy shores has been studied in much less detail than the mangroves of the region. The characteristic community of creeping plants low on the shore is often referred to as the *pes-caprae* association; an allusion to *Ipomoea pes-caprae*, the pantropical seashore morning glory. Higher up on undisturbed beaches there are usually trees, including *Barringtonia asiatica* which lends its name to the Barringtonia formation. The important elements of the sandy shore flora of the South China Sea are listed in Table 3.

Table 3. Species characteristic of the sandy shores of the South China Sea. An asterisk indicates a subtropical/temperate element.

Species	Family
<i>Albizia retusa</i> Benth.	Leguminosae
<i>Ardisia elliptica</i> Thunb.	Myrsinaceae
* <i>Atriplex maximowicziana</i> Makino	Chenopodiaceae
* <i>Atriplex nummularia</i> Lindl.	Chenopodiaceae
* <i>Atriplex repens</i> Roth	Chenopodiaceae
<i>Barringtonia asiatica</i> (L.) Kurz	Lecythidaceae
<i>Caesalpinia bonduc</i> (L.) Roxb.	Leguminosae
<i>Caesalpinia crista</i> L.	Leguminosae
<i>Caesalpinia major</i> (Medik.) Dandy & Exell	Leguminosae
<i>Calophyllum inophyllum</i> L.	Guttiferae
* <i>Calystegia soldanella</i> (L.) R.Br.	Convolvulaceae
<i>Canavalia cathartica</i> Thouars	Leguminosae
* <i>Canavalia lineata</i> (Thunb.) DC.	Leguminosae
<i>Canavalia rosea</i> (Sw.) DC.	Leguminosae
* <i>Carex kobomugi</i> Ohwi	Cyperaceae

Table 3. – Continued

Species	Family
<i>Cassytha filiformis</i> L.	Lauraceae
<i>Casuarina equisetifolia</i> J.R. Forst. & G. Forst.	Casuarinaceae
<i>Cerbera manghas</i> L.	Apocynaceae
* <i>Chenopodium acuminatum</i> Willd. ssp. <i>virgatum</i> (Thunb.) Kitam.	Chenopodiaceae
<i>Cocos nucifera</i> L.	Palmae
<i>Colubrina asiatica</i> L. ex Brongn.	Rhamnaceae
<i>Cordia subcordata</i> Lam.	Boraginaceae
<i>Cyperus dubius</i> Rottb.	Cyperaceae
<i>Cyperus radians</i> Nees & Meyen	Cyperaceae
<i>Cyperus stoloniferus</i> Retz.	Cyperaceae
<i>Dendrolobium umbellatum</i> (L.) Benth.	Leguminosae
<i>Digitaria heterantha</i> (Hook.f.) Merr.	Gramineae
* <i>Diospyros maritima</i> Blume	Ebenaceae
<i>Eragrostis japonica</i> (Thunb.) Trin.	Gramineae
<i>Erythrina fusca</i> Lour.	Leguminosae
<i>Erythrina variegata</i> L.	Leguminosae
<i>Erythroxyllum cuneatum</i> (Miq.) Kurz	Erythroxyllaceae
<i>Eulalia ridleyi</i> (Hack.) A. Camus	Gramineae
<i>Euphorbia atoto</i> G. Forst.	Euphorbiaceae
<i>Evolvulus alsinoides</i> (L.) L.	Convolvulaceae
<i>Fimbristylis sericea</i> R.Br.	Cyperaceae
* <i>Glehnia littoralis</i> Schmidt ex Miq.	Umbelliferae
<i>Guettarda speciosa</i> L.	Rubiaceae
<i>Heliotropium marifolium</i> Retz.	Boraginaceae
<i>Hernandia nymphaeifolia</i> (Presl) Kubitzki	Hernandiaceae
<i>Heteropogon contortus</i> (L.) P. Beauv. ex Roem. & Schult.	Gramineae
<i>Hibiscus tiliaceus</i> L.	Malvaceae
<i>Ipomoea campanulata</i> L.	Convolvulaceae
<i>Ipomoea imperati</i> (Vahl) Griseb.	Convolvulaceae
<i>Ipomoea littoralis</i> Blume	Convolvulaceae
<i>Ipomoea marginata</i> (Desr.) Verdc.	Convolvulaceae
<i>Ipomoea pes-caprae</i> (L.) R.Br.	Convolvulaceae
<i>Ipomoea violacea</i> L.	Convolvulaceae
<i>Ischaemum muticum</i> L.	Gramineae
<i>Lepturus repens</i> (G. Forst.) R.Br.	Gramineae
<i>Limnocitrus littoralis</i> (Miq.) Swingle	Rutaceae
<i>Manilkara kauki</i> (L.) Dubard	Sapotaceae
<i>Melinis repens</i> (Willd.) Zizka	Gramineae
<i>Morinda citrifolia</i> L.	Rubiaceae
* <i>Myoporum bontioides</i> A. Gray	Myoporaceae
<i>Myristica guatterifolia</i> A. DC.	Myristicaceae
<i>Pandanus odoratissimus</i> L.f.	Pandanaceae
<i>Paspalum vaginatum</i> Sw.	Gramineae
<i>Peltophorum pterocarpum</i> (DC.) K. Heyne	Leguminosae
<i>Pentatropis pierrei</i> Costantin	Asclepiadaceae
<i>Pittosporum ferrugineum</i> Ait.	Pittosporaceae
* <i>Pittosporum tobira</i> Ait.	Pittosporaceae
<i>Pongamia pinnata</i> (L.) Pierre	Leguminosae
<i>Pouteria obovata</i> (R.Br.) Baehni	Sapotaceae
<i>Premna serratifolia</i> L.	Verbenaceae
<i>Remirea maritima</i> Aubl.	Cyperaceae
* <i>Scaevola hainanensis</i> Hance	Goodeniaceae

Table 3. – Continued

Species	Family
<i>Scaevola taccada</i> (Gaertn.) Roxb.	Goodeniaceae
<i>Smythea lanceata</i> (Tul.) Summerh.	Rhamnaceae
<i>Sophora tomentosa</i> L.	Leguminosae
<i>Spinifex littoreus</i> (Burm.f.) Merr.	Gramineae
<i>Sporobolus virginicus</i> (L.) Kunth	Gramineae
* <i>Suaeda nudiflora</i> (Willd.) Moq.	Chenopodiaceae
<i>Syzygium grande</i> (Wight) Walp.	Myrtaceae
<i>Tacca leontopetaloides</i> (L.) Kuntze	Taccaceae
<i>Terminalia catappa</i> L.	Combretaceae
* <i>Tetragonia tetragonioides</i> (Pall.) Kuntze	Aizoaceae
<i>Thespesia populnea</i> (L.) Sol. ex Corrêa	Malvaceae
<i>Thuarea involuta</i> (G. Forst.) R.Br. ex Roem. & Schult.	Gramineae
<i>Tournefortia sarmentosa</i> Lam.	Boraginaceae
* <i>Trianthemum portulacastrum</i> L.	Aizoaceae
* <i>Tribulus cistoides</i> L.	Zygophyllaceae
* <i>Tribulus terrestris</i> L.	Zygophyllaceae
<i>Tridax procumbens</i> L.	Compositae
<i>Vigna marina</i> (Burm.) Merr.	Leguminosae
<i>Vitex trifolia</i> L.	Verbenaceae
<i>Xantolis maritima</i> (Pierre) P. Royen	Sapotaceae
<i>Ximenia americana</i> L.	Olacaceae
<i>Zoysia matrella</i> (L.) Merr.	Gramineae

### Rocky Shores and Cliffs

Little, if any, definitive research has been done on the vegetation of the rocky shores of the South China Sea. We tentatively list a few common species in Table 4. Undoubtedly there are others, but as there has been no detailed synthesis across the region we are reluctant to make any more concrete statements. There is clearly considerable scope for more research on the floristics and phytosociology of coastal vegetation in the region.

Table 4. Species characteristic of the rocky coasts of the South China Sea. An asterisk indicates a subtropical/temperate element.

Species	Family
<i>Allophylus cobbe</i> (L.) Raeusch.	Sapindaceae
<i>Atalantia monophylla</i> (L.) DC.	Rutaceae
<i>Cycas edentata</i> de Laub.	Cycadaceae
<i>Diospyros ferrea</i> (Willd.) Bakh.	Ebenaceae
<i>Gyrocarpus americanus</i> Jacq.	Hernandiaceae
* <i>Limonium wrightii</i> (Hance) Kuntze	Plumbaginaceae
<i>Olea brachiata</i> (Lour.) Merr.	Oleaceae
<i>Pandanus dubius</i> Spreng.	Pandanaceae
<i>Pemphis acidula</i> J.R. Forst. & G. Forst.	Lythraceae
<i>Pisonia grandis</i> R. Br.	Nyctaginaceae
<i>Podocarpus polystachyus</i> R.Br. ex Endl.	Podocarpaceae
<i>Xylocarpus rumphii</i> (Kostel.) Mabb.	Meliaceae

**Small Island Specialists**

There is a small group of species (Table 5), members of which are rarely found on the mainland (or large islands such as Borneo or Palawan). They are restricted to small, often remote, islands, yet sometimes have very large ranges extending, in some cases, from the Indian to the Pacific Ocean. The reasons for having extensive, yet extremely sparse, distributions are a matter for speculation.

Table 5. Species largely restricted to small islands in the South China Sea region.

Species	Family
<i>Argusia argentea</i> (L.f.) Heine	Boraginaceae
<i>Pouteria linggensis</i> (Burck) Baehni	Sapotaceae
<i>Serianthes grandiflora</i> Benth.	Leguminosae
<i>Sida pusilla</i> Cav.	Malvaceae
<i>Soulamea amara</i> Lam.	Simaroubaceae
<i>Stenotaphrum micranthum</i> (Desv.) C.E. Hubb.	Gramineae
<i>Suriana maritima</i> L.	Surianaceae
<i>Triumfetta procumbens</i> G. Forst.	Tiliaceae

**THE CHECK-LIST**

**LYCOPODOPHYTA**

**LYCOPODIACEAE**

*Huperzia squarrosa* (G. Forst.) Trevis.  
*Lycopodium squarrosum* G.Forst.  
 epiphyte  
 on forest trees, including mangroves, to mid-altitudes  
 PM, Bo., Ph, Th.

**PSILOPHYTA**

**PSILOTACEAE**

*Psilotum complanatum* Sw.  
*Psilotum flaccidum* Wall.  
 epiphyte  
 on tree trunks in light shade, sometimes near the sea  
 all tropical areas.

*Psilotum nudum* (L.) P.Beauv.  
*Psilotum triquetrum* Sw.  
 often epiphytic  
 on mossy tree trunks to mid-altitudes, often coastal  
 all tropical areas.



FILICINOPHYTA

ADIANTACEAE

*Adiantum stenochlamys* Baker  
frequent on rocks near the sea  
PM, Bo., Th, Vt, Ph, MC.

*Cheilanthes tenuifolia* (Burm.f.) Sw.  
terrestrial  
common on banks and rocks in exposed places at low altitudes  
PM, Bo., Th, Ph.

ASPLENIACEAE

*Asplenium macrophyllum* Sw.  
on trees and rocks  
lowland and lower montane forest, including rocky shores  
PM, Bo., Th, Vt, Tw.

BLECHNACEAE

*Stenochlaena hainanensis* Ching & P.S. Chiu  
climber in mangrove  
Hn, Gd.

*Stenochlaena palustris* (Burm.f.) Bedd.  
climber at forest margins, often in back mangrove  
PM, Sp, Bo., Ph, Th, Hn.

DAVALLIACEAE

*Davallia denticulata* (Burm.f.) Mett. ex Kuhn  
common lowland epiphyte, up to 500 m  
PM, Bo., Th, Cm, Vt, Ph, Hn, Gd.

*Davallia heterophylla* J.Sm.  
*Humata heterophylla* (J.Sm.) Desv.  
usually on rocks near the sea  
PM, Bo., Th, Cm, Vt, Ph.

*Davallia parvula* Wall. ex Hook. & Grev.  
*Humata parvula* (Wall. ex Hook. & Grev.) Mett.  
epiphyte  
on old mangrove trees and inland to 800m  
PM, Sp, WK, Sk, Bn, Sb.

*Davallia pectinata* J.Sm.

*Humata pectinata* (J.Sm.) Desv.

on rocks and trees near the sea, limestone inland

PM, Sp, Ri, WK, Sk, Bn, Sb, Th, Cm, Ph, Tw.

*Davallia solida* (Forst.) Sw.

common on trees and rocks near the sea

up to 300 m

PM, Sp, Ri, WK, Sk, Bn, Sb, Th, Cm, Vt, Ph, Tw, Gx.

#### DENNSTAEDTIACEAE

*Lindsaea orbiculata* (Lam.) Mett. ex Kuhn var. *commixta* (Tagawa) K.U. Kramer

usually on rocks near the sea, sometimes inland to 500 m

PM, Th, Vt, Ph, Tw.

*Lindsaea orbiculata* (Lam.) Mett. ex Kuhn var. *orbiculata*

*Schizoloma orbiculatum* (Lam.) Kuhn

*Lindsaea orbiculata* (Lam.) Mett. ex Kuhn

usually on rocks near the sea, sometimes inland to 500 m.

Sk, Ph, Hn, Tw, Gd.

*Odontosoria biflora* (Kaulf.) C. Chr.

*Stenoloma biflorum* (Kaulf.) Ching

*Sphenomeris biflora* (Kaulf.) Tagawa

terrestrial

exposed places, often near the sea

Tw, Gx, Gd, Fj.

#### DRYOPTERIDACEAE

*Cyrtomium falcatum* (L.f.) C. Presl

terrestrial, to 25 cm tall

among rocks near the sea

Tw, Gd, Fj.

*Tectaria zeilanica* (Houtt.) Sledge

*Quercifilix zeilanica* (Houtt.) Copel.

terrestrial

earth banks and streamsides in shade

PM, Sb, Th, Vt, Tw.

HYMENOPHYLLACEAE

*Crepidomanes digitatum* (Sw.) K. Iwatsuki

*Trichomanes digitatum* Sw.

*Microtrichomanes digitatum* (Sw.) Copel.

on trees and rocks

montane forest, or on mangrove trees

PM, Bo., Th, Ph.

*Hymenophyllum serrulatum* (C. Presl) C.Chr.

on trees and rocks

montane forest, mangroves and swamp forest

PM, Sp, Bo., Th, Ph.

OLEANDRACEAE

*Nephrolepis acutifolia* (Desv.) H. Christ.

epiphyte

on old trees in the lowlands, often near the sea

PM, Sp, Th, Ph.

*Nephrolepis biserrata* (Sw.) Schott

terrestrial

very common lowland fern of open places

PM, Sp, Bo., Th, Vt, Ph, Hn, Tw, Gd, Paracel Is., Spratly Is.

POLYPODIACEAE

*Aglaomorpha acuminata* (Willd.) Hovenkamp

*Algaomorpha speciosa* (Blume) Roos

*Photinopteris speciosa* (Blume) C. Presl

epiphyte

mangroves, riverside trees and in forests to 1600 m

PM, Sk, Sb, Th, Vt.

*Drynaria quercifolia* (L.) J.Sm.

common old tree epiphyte

lowlands and hills to 1200 m

PM, Sp, Ri, Sk, Sb, Th, Cm, Vt, Ph.

*Drynaria sparsisora* (Desv.) T. Moore

epiphyte on exposed trees up to 35 m

lowlands and hills to 1400 m

PM, Sp, Ri, Sk, Sb, Th, Cm, Vt, Ph.

*Lecanopteris crustacea* Copel.

*Phymatodes crustacea* (Copel.) Holttum

ant-inhabited epiphyte

on tall trees in lowlands, sometimes coastal

PM, Sp, Bo., Th.

*Lecanopteris sinuosa* (Wall. ex Hook.) Copel.

*Phymatodes sinuosa* (Wall. ex Hook.) J.Sm.

*Myrmecopteris sinuosa* (Wall. ex Hook.) Pic.Serm.

epiphytic antplant

PM, Sp, Bo., Th, Cm, Vt, Ph.

*Microsorium scolopendrium* (Burm.f.) Copel.

*Phymatosorus scolopendria* (Burm.f.) Pic.Serm.

*Phymatodes scolopendria* (Burm.f.) Ching

old tree epiphyte

lowlands

PM, Sp, Bo., Th, Ph, Hn, Tw, Gd, Paracel Is.

*Pyrrosia lanceolata* (L.) Farwell

*Pyrrosia adnascens* (Sw.) Ching

common epiphyte

on trees and rocks, particularly near the sea

PM, Bo., Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Pyrrosia piloselloides* (L.) M.G. Price

*Drymoglossum piloselloides* (L.) C. Presl

common on exposed tree trunks and branches

lowlands and hills to 1000 m

PM, Sp, Bo., Th, Vt, Ph.

#### PTERIDACEAE

*Acrostichum aureum* L.

terrestrial to 4 m tall

mangroves and damp ground near the sea

PM, Sp, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Acrostichum speciosum* Willd.

terrestrial, usually less than 2 m tall

seaward parts of mangrove swamps

PM, Sp, Th, Hn, Gx, Gd.

*Pteris ensiformis* Burm.f.

terrestrial

partially shaded conditions in the lowlands and hills

PM, Sp, Bo., Th, Vt, Ph, Tw, Hn, Gd.

*Pteris vittata* L.

in open places and on walls at all altitudes

PM, Sp, Bo., Th, Vt, Ph, Tw, Hn, Gd.

SCHIZAEACEAE

*Lygodium circinnatum* (Burm.f.) Sw.

climber

lowland to montane forest at 1500 m

PM, Sp, Bo., Th, Ph.

*Lygodium flexuosum* (L.) Sw.

climber

common in secondary vegetation to 1000 m

PM, Sp, Bo., Th, Ph, Hn, Gd.

*Lygodium microphyllum* (Cav.) R.Br.

*Lygodium scandens* Sw.

climber

forest margins to 1300 m

PM, Sp, Bo., Th, Ph, Tw, Hn, Gd.

*Schizaea dichotoma* (L.) J. Sm.

terrestrial

on lightly-shaded sandy soils to 1000 m

PM, Sp, Bo., Th, Vt, Ph, Hn.

*Schizaea digitata* (L.) Sw.

terrestrial

drier sorts of plantation and forest

PM, Sp, Bo., Th, Vt, Ph, Tw, Hn.

CYCADOPHYTA

CYCADACEAE

*Cycas clivicola* K.D. Hill ssp. *clivicola*

cycad to 8 m tall

limestone cliffs, including sea coast and islands

Th.

*Cycas clivicola* K.D. Hill ssp. *lutea* K.D. Hill

cycad to 6 m tall

limestone outcrops including coastal cliffs

Th, Cm, Vt.

*Cycas edentata* de Laub.

*Cycas rumphii* auctt. plur. non Miq.

cycad to 7 m tall

rocky and sandy shores

PM, Sp, Bo., Ph, Th, Vt.

*Cycas elongata* (Leandri) D.Y. Yang  
*Cycas pectinata* Griff. var. *elongata* Leandri  
*Epicycas elongata* (Leandri) S.L. Yang  
cycad to 6 m tall  
mostly near the coast  
Vt.

*Cycas lindstromii* S.L. Yang et al.  
*Epicycas lindstromii* (S.L. Yang et al.) de Laub.  
trunkless cycad  
sandy places near the sea  
Vt.

*Cycas miquelii* Warb.  
*Epicycas miquelii* (Warb.) de Laub.  
cycad to 1 m tall  
on limestone, sometimes coastal  
Vt, MC.

## GNETOPHYTA

### GNETACEAE

*Gnetum gnemon* L. var. *gnemon*  
tree to 20 m tall  
rocky coasts and islands, widely cultivated  
PM, Sp, Ph.

## CONIFEROPHYTA

### PODOCARPACEAE

*Podocarpus costalis* Presl  
shrub or small tree  
among rocks near the sea  
Ph, Tw.

*Podocarpus polystachyus* R.Br. ex Endl.  
shrub or tree to 20 m tall  
coastal vegetation, sometimes inland  
PM, Sp, WK, Sk, Sb, Ph, Th.

MAGNOLIOPHYTA

MAGNOLIOPSIDA

ACANTHACEAE

*Acanthus ebracteatus* Vahl  
spreading shrub to 3 m tall  
mangroves, tidal mud  
PM, Sp, Bn, Th, Vt, Ph, Hn, Gx, Gd.

*Acanthus ilicifolius* L.  
spreading shrub to 1.5 m tall  
mangroves  
Mp, Sp, Bn, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Acanthus volubilis* Wall.  
trailing shrub  
tidal mud  
PM, Sp, Ph.

AIZOACEAE

*Sesuvium portulacastrum* (L.) L.  
creeping succulent herb  
on sandy or muddy beaches near the tide line  
PM, Sp, Vt, Ph, Tw, Hn, Gx, Gd, Fj, Spratly Is., Paracel Is., Pratas Is.

*Tetragonia tetragonioides* (Pall.) Kuntze  
fleshy decumbent herb to 60 cm long  
sandy shores  
Tw, Gd, Fj.

*Trianthemum portulacastrum* L.  
herb  
sandy beaches  
Tw, Hn, Spratly Is., Paracel Is., Pratas Is.

AMARANTHACEAE

*Philoxerus wrightii* Hook.f.  
herb to 7 cm tall  
mostly on seashores  
Tw.

*Trichurus monsoniae* (L.f.) C.C. Towns.  
herb to 90 cm tall  
dry sandy places  
Th, Cm.

ANACARDIACEAE

*Anacardium occidentale* L.

tree to 12m  
sandy places, usually near the sea, widely planted  
PM, Bn.  
Naturalized from tropical America.

*Bouea oppositifolia* (Roxb.) Meisn.

tree to 20 m tall  
sandy coastal forest and inland  
PM, Sp, Th, Cm, Vt, MC, WK, Sk, Bn, Sb

*Buchanania arborescens* (Blume) Blume

*Buchanania lucida* Blume

tree to 27 m tall  
common on sandy and rocky coasts and riverbanks, also inland  
PM, Sp, WK, Sk, Bn, Sb, Th, Vt, MC, Ph, Tw

*Buchanania insignis* Blume

tree to 25 m tall  
lowland forest including tidal swamps  
Bn, Sb, Ph.

*Gluta velutina* Blume

*Gluta coarctata* Hook.f.

large shrub or stilt-rooted tree to 20 m tall  
banks of tidal rivers  
PM, WK, Sk, Bn, Sb, Th, Vt.

*Semecarpus longifolius* Blume

*Semecarpus gigantifolia* Vidal

medium-sized tree  
lowland forest and seashores  
Ph, Tw.

*Semecarpus paucinervius* Merr.

tree to 20 m tall  
lowlands including seashores  
Sb, Ph.

ANCISTROCLADACEAE

*Ancistrocladus tectorius* (Lour.) Merr.

*Ancistrocladus pinangianus* Planch.

trailing shrub or liana  
sandy places, often near the sea  
PM, Sp, Ri, WK, Th, Vt, Hn.



APOCYNACEAE

*Alyxia reinwardtii* Blume var. *lucida* (Wall.) Markgr.

*Alyxia lucida* Wall.

slender climber

often coastal

PM, Sp, Bn.

*Catharanthus roseus* (L.) G. Don

*Lochnera rosea* (L.) Rchb. ex Endl.

herb

seashores and waste sandy places

PM, Sp, Bo., Paracel Is.

Naturalized from Madagascar.

*Cerbera manghas* L.

*Cerbera lactaria* Buch.-Ham. ex D. Dietr.

small tree

rocky and sandy coasts

PM, Sp, Sk, Th, Bn, Ph, Tw, Hn, Gx, Gd, Paracel Is.

*Cerbera odollam* Gaertn.

small tree

mangrove swamps and muddy coasts

PM, Sp, Sk, Th, Vt.

*Neisosperma oppositifolium* (Lam.) Fosberg & Sachet

*Ochrosia borbonica* auct. non Gmel.

*Ochrosia oppositifolia* (Lam.) K. Schum.

small tree to 10 m

on rocky and sandy shores

PM, Sp, Sk, Th, Ph, Spratly Is.

*Parsonsia alboflavescens* (Dennst.) Mabb.

*Parsonsia spiralis* Wall. ex G. Don

*Parsonsia helicandra* Hook. & Arn.

*Parsonsia laevigata* (Moon) Alston

vine

climbing on bushes, often near the sea

PM, Sp, Ri, WK, Sk, Bn, Sb, Th, Ph, Tw, MC.

*Trachelospermum gracilipes* Hook.f.

climber

coastal regions

Vt, Tw, MC.

ARALIACEAE

*Arthrophyllum diversifolium* Blume

*Arthrophyllum ovatifolium* Jungh. & de Vriese

*Arthrophyllum congestum* Ridl.

sparsely branched tree to 14 m tall

forest margins or secondary forest in lowlands and hills, frequently coastal

PM, Sp, Bo. (Bn).

*Gastonia serratifolia* (Miq.) Philipson

*Gastonia papuana* Miq.

tree to 20 m tall

on the shore or sea cliffs, also inland

PM, Sb, Ph.

*Schefflera elliptica* (Blume) Harms

*Schefflera odorata* (Blanco) Merr.

*Schefflera fukienensis* Merr.

climber or straggling shrub, often epiphytic

lowland and hill forest, also mangroves and on limestone

PM, Sp, Bn, Th, Vt, Ph, TW, MC.

*Schefflera lanceolata* Ridl.

climber

rocks near the sea, mangrove

PM, Sp.

*Schefflera littoralis* (Miq.) Harms

climber or straggling shrub

coastal and inland

Sk.

*Schefflera ridleii* (King) R. Vig. var. *ridleyi*

epiphytic shrub, occasionally epilithic

lowland and hill forest, also in mangroves

PM, Sp.

ASCLEPIADACEAE

*Asclepias curassavica* L.

herb to 1 m tall

open sandy spots

PM, Sp, Tw, Hn, Gx, Gd, Fj

Naturalized from tropical America.

*Calotropis gigantea* (L.) W.T. Aiton

shrub 1-5 m tall

open sandy places, often coastal

PM, Bn, Vt, Tw, Hn, Gx, Gd.

*Cynanchum atratum* Bunge  
herb 40-80 cm tall  
sandy places, sometimes near the sea  
Tw, Gx, Gd, Fj.

*Cynanchum insularum* (Hance) Hemsl. var. *lineare* (Tsiang & Zhang) Tsiang & Zhang  
herb  
seaside grassland  
Hn, Gd.

*Dischidia albiflora* Griff.  
*Dischidia collyris* Wall.  
creeping epiphyte, leaves convex  
on trees near the sea  
PM, Bo., Th.

*Dischidia complex* Griff.  
slender creeping epiphyte, some leaves pitcher-like  
lowland forest  
PM, Sp, Bo.

*Dischidia major* (Vahl) Merr.  
*Dischidia rafflesiana* Wall.  
creeping epiphyte, some leaves pitcher-like  
lowland and hill forest, common near the sea  
PM, Sp, Bn, Th, Vt, Ph.

*Finlaysonia obovata* Wall.  
*Finlaysonia maritima* auct. non Backer & K. Heyne  
thin-stemmed climber  
back mangroves and banks of tidal rivers  
PM, Sp, Bo., Vt, Ph.

*Gymnanthera oblonga* (Burm.f.) P.S. Green  
*Gymnanthera nitida* R. Br.  
*Gymnanthera paludosa* (Blume) K. Schum.  
liana to 2 m long  
mangroves  
Sp, Bo., Th, Cm, Vt, Ph, Hn, Gd.

*Hoya coriacea* Blume  
*Hoya oclusa* Ridl.  
stout twining epiphyte  
forests from mangroves to hill tops, including limestone  
PM, Sp, Bo., Th.

*Hoya coronaria* Blume  
hairy twining epiphyte  
mangroves, lowland forest incl. quartzite and limestone ridges  
PM, Sp, Bn, Th.

*Hoya imperialis* Lindl.

shrubby climber  
mangrove and lowland forest  
PM, Sp, Bo.

*Hoya obtusifolia* Wight

stout-stemmed twining epiphyte  
mangroves  
PM, Sp, Bo., Th.

*Hoya verticillata* (Vahl) G. Don var. *verticillata*

*Hoya parasitica* Wall. ex Wight

*Hoya ridleyi* King & Gamble

climbing twining epiphyte  
often near the sea  
PM, Sp, Bo., Th, Vt.

*Pentatropis pierrei* Costantin

twining herb  
sandy shores  
Vt.

*Sarcostemma acidum* (Roxb.) Voigt

twining climber to 2 m long  
seashore thickets  
Th, Vt, Hn, Gd.

*Secamone elliptica* R.Br.

*Secamone micrantha* (Decne.) Decne.

slender liana  
open places near the sea  
PM, Sp, Cm, Vt, Tw, Hn, Gx, Gd.

*Tylophora flexuosa* R. Br.

*Tylophora tenuis* Blume

*Tylophora tenuissima* (Roxb. ex Schult.) Wight & Arn.

*Tylophora tetrapetala* (Dennst.) Suresh

slender twiner  
common along tidal rivers  
PM, Sp, Bo., Th, Vt, Tw, Hn, Gx, Gd.

*Tylophora indica* (Burm.f.) Merr.

*Tylophora asthmatica* (L.f.) Wight & Arn.

slender twiner  
sandy places near the sea or rivers  
PM, Sp.

AVICENNIACEAE

*Avicennia alba* Blume

tree to 21 m tall

muddy mangroves

PM, Sp, Sk, Bn, Sb, Th, Vt, Ph.

*Avicennia marina* (Forssk.) Vierh.

*Avicennia intermedia* Griff.

*Avicennia sphaerocarpa* Stapf ex Ridl.

tree to 12 m tall

mangrove

PM, Sp, Sk, Bn, Sb, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Avicennia officinalis* L.

tree to 18 m tall

mangrove, generally on landward fringe

PM, Sp, Sk, Sb, Th, Vt, Ph.

*Avicennia rumphiana* Hallier f.

*Avicennia lanata* Ridl.

tree to 30 m tall

sandier mangroves

PM, Sp, Ph.

BIGNONIACEAE

*Dolichandrone spathacea* (L.f.) K.Schum.

*Dolichandrone rheedei* (Spreng.) Seem.

tree to 24 m tall, usually smaller

mangroves and other muddy areas near the sea

PM, Sp, Sk, Sb, Bn, Th, Cm, Vt, Ph, Hn, Gd.

*Pajanelia longifolia* (Willd.) K. Schum.

tree to 15 m tall

river banks and coastal forest

PM, Ri, Th.

BOMBACACEAE

*Campostemon philippinense* (Vidal) Becc.

tree to 30 m tall

mangroves, sandy beaches

Ph, Bo.

BORAGINACEAE

*Argusia argentea* (L.f.) Heine

*Tournefortia argentea* L.f.

*Messerschmidia argentea* (L.f.) I.M. Johnst.

shrub to 3 m tall

sandy coasts of offshore islands

PM, Ph, Vt, Tw, Hn, Paracel Is., Spratly Is., Pratas Is.

*Carmona retusa* (Vahl) Masam.

*Cordia retusa* Vahl

*Carmona microphylla* (Lam.) G. Don

*Ehretia buxifolia* Roxb.

shrub to 3 m tall

sometimes coastal

PM, Th, Ph, Vt, Tw, Hn, Gd.

*Coldenia procumbens* L.

creeping herb to 40 cm tall

beaches, dry sandy ground

PM, Th, Cm, Vt, Ph, Tw, Hn.

*Cordia dichotoma* G. Forst.

*Cordia griffithii* C.B. Clarke

*Cordia obliqua* Willd.

*Cordia premnifolia* Ridl.

tree to 13 m tall, rarely climbing

lowland forest, back mangrove, on limestone

PM, Sp, Sb, Th, Cm, Vt, Tw, Hn, Gx, Gd, Fj.

*Cordia subcordata* Lam.

tree to 15 m tall

rocky and sandy sea shores

PM, Sb, Th, Ph, Vt, Hn, Spratly Is., Paracel Is., Pratas Is.

*Ehretia dichotoma* Blume

*Ehretia timorensis* auct. non Decne.

scrambling shrub or small tree to 16 m tall

lowland forest, often near the sea, also on limestone

PM, Sb, Vt.

*Ehretia resinosa* Hance

shrub or small tree

seashore

Ph, Tw, Spratly Islands.

*Heliotropium marifolium* Retz.

subshrub to 15 cm tall

dry sandy beaches

Th, Cm, Vt, Hn.

*Heliotropium strigosum* Willd.  
herb to 30 cm tall  
sandy places, often near the sea  
Th, Cm, Vt, Gd, Fj.

*Tournefortia sarmentosa* Lam.  
scandent shrub  
along seashore  
PM, Bo., Vt, Ph, Tw.

#### BURSERACEAE

*Canarium asperum* Benth.  
tree to 30 m tall  
rocky coasts and inland forests  
Sb, Ph.

*Canarium reniforme* Kochummen & Whitmore  
small tree to 20 m tall  
hill forest, often coastal  
PM.

*Garuga floribunda* Decne.  
tree to 12 m tall  
coastal forest  
PM, Sb, Ph.

#### CACTACEAE

*Opuntia monacantha* Haw.  
succulent prickly shrub to 2 m tall  
dry sandy places, usually near the sea  
PM.  
Naturalized from the New World.

*Opuntia stricta* (Haw.) Haw. var. *dillenii* (Ker Gawl.) L.D. Benson  
*Opuntia dillenii* (Ker-Gawl.) Haw.  
prickly succulent shrub  
rocky headlands  
Tw, Hn, Gx, Gd, Fj, Paracel Is.  
Naturalized from the New World.

#### CAPPARIDACEAE

*Capparis beneolens* Gagnep.  
shrub to 2 m tall  
often coastal  
Vt.

*Capparis floribunda* Wight

shrub

dry coastal places, often in coastal areas

Th, Ph, Tw.

*Capparis micracantha* DC. ssp. *micracantha*

shrub or small tree 26 m tall

lowland forest, sea shore

PM, Bo., Th, Vt, Ph, Hn, MC.

*Capparis spinosa* L. var. *mariana* (Jacq.) K. Schum.

prostrate shrub

dry sites, sometimes coastal

Ph.

*Maerua siamensis* (Kurz) Pax

*Niebuhrria siamensis* Kurz

shrub

sometimes coastal

Th, Vt.

#### CARYOPHYLLACEAE

*Polycarpaea arenaria* (Lour.) Gagnep.

herb to 40 cm tall

open sites at low altitudes, often near the sea

Cm, Vt.

*Polycarpaea corymbosa* (L.) Lam.

herb

sandy shores

Tw, Hn, Gx, Gd, Fj.

*Sagina maxima* A. Gray

small herb

mostly coastal

Tw, MC.

*Silene fortunei* Vis. var. *fortunei*

herb to 70 cm tall

pebbly places on shores and mountains

Tw, MC.

*Silene fortunei* Vis. var. *kiruninsularis* (Masam.) S.S. Ying

creeping herb

coasts

Tw



CASUARINACEAE

*Casuarina equisetifolia* J.R. Forst. & G. Forst.  
tree to 50 m tall  
sandy coasts, widely planted  
PM, Sp, WK, Sk, Bn, Sb, Ph, Th, MC, Paracel Is.

CELASTRACEAE

*Cassine viburnifolia* (Juss.) Ding Hou  
*Elaeodendron subrotundum* King  
shrub or small tree to 10 m tall  
near the sea, in mangroves  
PM, Sp, Sk, Bn, Sb, Th, Ph.

*Euonymus cochinchinensis* Pierre  
tree to 12 m tall  
coastal forest, and inland to 1200 m  
PM, Sb, Cm, Tw, Ph, Hn.

*Loeseneriella macrantha* (Korth.) A.C. Sm.  
*Hippocratea macrantha* Korth.  
liana  
lowland forest to 400 m, often near rivers, also in mangrove  
PM, Sp, Sk.

*Maytenus diversifolia* (A. Gray) Ding Hou  
spiny shrub  
mostly coastal  
Ph, Th, Vt, Hn, Tw, Fj.

*Maytenus emarginata* (Willd.) Ding Hou  
spiny shrub 2-4 m tall  
mangroves or sea shore  
PM, Sp, Sb, Tw.

CHENOPODIACEAE

*Atriplex maximowicziana* Makino  
low shrub  
sandy shores  
Tw, Fj.

*Atriplex nummularia* Lindl.  
shrub  
sandy shores  
Tw.

*Atriplex repens* Roth

shrub

sandy or muddy beaches

Hn, Gd.

*Chenopodium acuminatum* Willd. ssp. *virgatum* (Thunb.) Kitamura

herb to 60 cm

sandy shores

Ph, Tw, Vt, Hn, Gx, Gd, Fj, Paracel Is.

*Halosarcia indica* (Willd.) Paul G. Wilson

*Arthrocnemum indicum* (Wild.) Moq.

herb

muddy places near the sea

Vt, Hn, Gd.

*Suaeda maritima* (L.) Dum.

*Suaeda australis* (R.Br.) Moq.

subshrub

sandy and muddy beaches, saltmarshes

Th, Vt, Tw, Hn, Gx, Gd, Fj.

*Suaeda nudiflora* (Willd.) Moq.

herb

sandy shores

Tw, MC.

#### CHRYSOBALANACEAE

*Atuna racemosa* Rafin.

tree to 45 m tall

occasionally found in back mangrove

PM, Sp, WK, Sk, Bn, Ph

*Chrysobalanus icaco* L.

shrub to 5 m tall

coastal scrub

Sp

naturalized from tropical America.

*Licania splendens* (Korth.) Prance

tree to 25 m tall

lowland forest sometimes on seashores

Th, PM, WK, Sk, Bn, Sb, Ph.

*Maranthes corymbosa* Blume

*Parinarium griffithianum* Benth.

tree to 39 m tall

mostly coastal, but also in the mountains

PM, Sp, WK, Sk, Bn, Sb, Th, Ph.

COMBRETACEAE

*Combretum tetralophum* C.B. Clarke

*Combretum wrayi* King

scandent shrub or large liana  
mangroves and riverside forest

PM, Sp, Bo., Bn, Th, Vt.

*Lumnitzera littorea* (Jack) Voigt

*Lumnitzera coccinea* Wight & Arn.

red-flowered tree to 30 m with kneed pneumatophores  
back mangroves, sandy shores

PM, Sp, Ri, WK, Bn, Sb, Th, Cm, Vt, Ph, Hn.

*Lumnitzera racemosa* Willd.

white-flowered tree to 8 m tall without pneumatophores  
mangroves

PM, Sp, Ri, Bn, Th, Vt, Ph, Tw, Hn, Gx, Gd.

*Terminalia catappa* L.

pagoda tree 10-35 m tall

sandy and rocky shores, widely planted shade tree

PM, Sp, Bn, Bo., Ph, Tw, Hn, Gx, Gd, Spratly Is., Paracel Is., Pratas Is.

*Terminalia citrina* (Gaertn.) Roxb. ex Flem.

tree 20-30 m tall

lowland forest, often along the seashore

PM, Bo., Th, Vt, Ph.

COMPOSITAE

*Artemisia capillaris* Thunb.

much-branched shrublet 30-100 cm tall

seashores and along rivers

Ph, Tw, Gd.

*Artemisia fukudo* Makino

herb to 50 cm tall

near coasts

Tw.

*Aster subulatus* Michx.

herb to 1 m tall

salt marshes

Tw.

Naturalized from North America

*Calotis anamitica* (Kuntze) Merr.

*Calotis gaudichaudii* Gagnep.

herb coastal

Vt, Hn.

*Cirsium maritimum* Makino

herb to 60 cm tall

near seashores

Tw.

*Crossostephium chinense* (L.) Makino

herb

rocky shores and cliffs, forests in coastal areas

Tw, Gd.

*Epaltes divaricata* (L.) Cav.

*Poilania laggeroides* Gagnep.

spreading herb to 30 cm tall

dry grassy places, often coastal

Vt, Hn.

*Gynura elliptica* Y. Yabe & Hayata

herb to 35 cm tall

sea coast

Lanyu Island, Tw.

Endemic.

*Heteropappus hispidus* (Thunb.) Less. ssp. *oldhamii* (F.B. Forbes & Hemsl.) Kitam.

erect herb to 100 cm tall

coastal forests

northern Tw.

Endemic subspecies.

*Ixeris japonica* (Burm.f.) Nakai ssp. *litoralis* Kitam.

creeping herb

sandy places near the sea

Tw.

*Ixeris repens* (L.) A. Gray

creeping herb

sandy beaches

Tw, Vt, Gx, Gd, Fj.

*Launaea sarmentosa* (Willd.) Sch. Bip. ex Kuntze

*Launaea pinnatifida* Cass.

herb

sandy beaches

Vt, Hn, Gx, Gd, Paracel Is.

*Pluchea indica* (L.) Less.

shrub to 1.5 m tall

common in tidal swamps

PM, Sp, Th, Vt, Tw, Hn, Gd.

*Porophyllum ruderale* (Jacq.) Cass.

erect herb

open sandy waste ground

Sp.

Naturalized from tropical America.

*Sphagneticola calendulacea* (L.) Pruski

*Wedelia chinensis* (Osbeck) Merr.

*Complaya chinensis* (Osbeck) Strother

*Thelechitonia chinensis* (Osbeck) H. Rob. & Cuatrec.

creeping herb

damp places near the sea

PM, Ph, Tw, Vt, MC.

*Spilanthes anactina* F. Muell.

*Spilanthes urens* auct. non Jacq.

creeping herb to 40 cm tall

PM, Bn.

*Taraxacum formosanum* Kitam.

rosette-forming herb

grassy places and sandy shores

Tw.

*Tridax procumbens* L.

creeping herb

waste ground, frequent at the back of beaches

PM, Sp, Bo., Th, Ph, Tw, Hn, Gd, Spratly Is., Paracel Is., Pratas Is.

Naturalized from tropical America.

*Vernonia maritima* Merr.

herb

coasts

Ph, Tw.

*Wedelia prostrata* (Hook. & Arn.) Hemsl.

long-creeping herb

sea shores

Tw, Vt, Hn, Gx, Gd, Fj.

*Wollastonia biflora* (L.) DC.

*Wedelia biflora* (L.) DC.

scrambling herb

common in tidal mud

PM, Sp, Ph, Tw, Hn, Gx, Gd, Spratly Is., Paracel Is., Pratas Is.

*Xanthium strumarium* L. var. *japonicum* (Widder) Hara  
herb to 90 cm tall  
riverbanks and seashores  
Tw, Hn, Gd.

CONVOLVULACEAE

*Calystegia soldanella* (L.) R.Br.  
herbaceous creeper to 1 m long  
sandy shores, coastal dunes  
Tw, Fj.

*Evolvulus alsinoides* (L.) L.  
prostrate or erect herb  
sandy shores, dry open places  
PM, Sp, Ri, Ph, Tw, Hn, Paracel Is.

*Ipomoea campanulata* L.  
*Ipomoea illustris* (C.B. Clarke) Prain  
slightly woody twining vine  
climbing on sea shore vegetation  
PM, Sp, Bo., Th, Vt, Ph.

*Ipomoea imperati* (Vahl) Griseb.  
*Ipomoea stolonifera* (Cirillo) J.F. Gmel., *nom. illegit.*  
*Ipomoea carnosia* R.Br.  
trailing herb to 5 m long  
sand dunes and beaches  
PM, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Ipomoea indica* (Burm.) Merr.  
twining herb  
coastal habitats and inland forests  
PM, Ph, Tw, Gd., Paracel Is.

*Ipomoea littoralis* Blume  
*Ipomoea gracilis* auctt. plur., non R.Br.  
creeping herb, sometimes climbing  
sandy shores  
PM, Sp, Bn, Bo., Th, Cm, Vt, Ph, Tw, Spratly Is.

*Ipomoea marginata* (Desr.) Verdc.  
*Ipomoea sagittaeifolia* Burm.f.  
*Ipomoea maxima* auctt. plur., non (L.f.) Don ex Sweet  
*Ipomoea sepiaria* Koenig ex Roxb., *nom. illegit.*  
twining or prostrate vine to 2.5 m long  
usually near the sea  
PM, Sp, Th, Vt, Tw, Hn.

*Ipomoea pes-caprae* (L.) R.Br.

trailing herb to 30 m long

sandy seashores

PM, Sp, Sk, Bn, Sb, Th, Cm, Vt, Ph, Tw, Hn, Gd, Gx, Fj, Paracel Is., Spratly Is., Pratas Is.

*Ipomoea pes-tigridis* L.

twining or creeping vine

sandy waste places

PM, Sp, Bo., Th, Cm, Vt, Ph, Tw, Hn, Gx, Gd, Paracel Is.

*Ipomoea polymorpha* Roem. & Schult.

erect or decumbent herb to 60 cm long

grasslands or sandy places near the sea

Cm, Vt, Ph, Tw, Hn.

*Ipomoea triloba* L.

twining or creeping vine

sandy areas and waste places

PM, Sp, Bo, Gd, Ph.

Naturalized from tropical America.

*Ipomoea violacea* L.

*Ipomoea tuba* (Schltl.) G. Don

*Ipomoea macrantha* Roem. & Schult.

woody twining vine

sea shores

Sp, Bo., Th, Ph, Tw, Hn, Gd, Spratly Is., Paracel Is., Pratas Is.

*Stictocardia tiliifolia* (Desr.) Hallier f.

large liana

open places, often near the sea

Bo., Th, Vt, Ph, Tw, Hn.

*Xenostegia tridentata* (L.) D.F. Austin & Staples

*Merremia tridentata* (L.) Hallier f.

*Merremia hastata* (Desr.) Hallier f.

twining vine to 2 m long

open grassy places, often near the sea

PM, Sp, Ri, Sk, Sb, Th, Cm, Vt, Ph, Tw, Hn, Gx, Gd.

#### CRASSULACEAE

*Kalanchoe pinnata* (Lam.) Pers.

*Bryophyllum calycinum* Salisb.

herb 30-200 cm tall

open dry places to 1000 m, including rocky shores

PM, Sp, Bo., Ph.

Naturalized from tropical Africa.

*Sedum formosanum* N.E. Br.

*Sedum alfredi* auct. non Hance

fleshy herb to 15 cm tall

seashores

Tw, Ph, MC.

#### CRUCIFERAE

*Coronopus integrifolius* (DC.) Spreng.

herb

grassland near the sea

Tw, Gd.

*Lepidium virginicum* L.

herb to 80 cm

waste ground, mostly coastal

Tw.

Naturalized from North America

*Raphanus sativus* L.

herb to 80 cm tall

coastal regions

Tw.

#### EBENACEAE

*Diospyros ferrea* (Willd.) Bakh.

*Maba buxifolia* Pers.

tree to 12 m tall

sandy and rocky shores, also on limestone

PM, Sp, Th, Tw.

*Diospyros maritima* Blume

tree to 15 m tall

along the seashore

Vt, Ph, Tw.

#### EPACRIDACEAE

*Styphelia abnormis* (Sond.) J.J. Sm.

shrub or small tree

rocky or sandy beaches or similar substrates inland

Sb.

*Styphelia malayana* (Jack) Spreng.

shrub or small tree

sandy or rocky shores or mountain tops

PM, Sp, Ri, Sk, Bn, Sb, Th, Vt.



ERICACEAE

*Rhododendron brookeanum* H. Low ex Lindl. var. *brookeanum*  
epiphyte or terrestrial shrub to 2 m tall  
in mangrove or on coastal rocks, extending inland to montane forest  
Bo., Bn.

*Rhododendron longiflorum* Lindl. var. *longiflorum*  
shrub, sometimes epiphytic  
on mangrove trees or coastal rocks, also inland  
PM, Bo., Bn.

*Vaccinium bracteatum* Thunb.  
*Vaccinium malaccense* Wight  
*Vaccinium pubicarpum* Ridl.  
shrub or small tree to 6 m tall  
sandy seashores and mountains  
PM, Sp, Ri, Th, Vt, Hn, Gd.

*Vaccinium littoreum* Miq.  
*Vaccinium hasseltii* Miq.  
shrub, often epiphytic  
sandy shores, rocky ridges, montane forest  
PM, Sp.

*Vaccinium wrightii* A. Gray var. *wrightii*  
small evergreen tree  
mostly coastal  
Tw.

ERYTHROXYLACEAE

*Erythroxylum cuneatum* (Miq.) Kurz  
*Erythroxylum burmanicum* Griff.  
tree to 30 m tall  
lowland and hill forest, common near the sea  
PM, Sp, Ri, Sb, Th, Vt, Ph.

EUPHORBIACEAE

*Acalypha lanceolata* Willd.  
herb to 1 m tall  
waste places and sandy shores  
PM, Sk, Ph, Hn, Paracel Is., Spratly Is.

*Acalypha suirenbiensis* Yamam.

subshrub

coastal

Tw.

Endemic

*Austrobuxus nitidus* Miq. var. *nitidus*

*Longetia malayana* (Benth.) Pax & K. Hoffm.

tree to 27 m tall

lowland forest, coastal forest, swamps, mountains

PM, Sp, WK, Sk, Bn, Sb.

*Bridelia parvifolia* Kuntze

*Bridelia poilanei* Gagnep.

small tree

sand dunes

Vt.

*Chaetocarpus castanocarpus* (Roxb.) Thwaites

shrub or tree

sometimes on sandy sites near the sea

PM, Sk, Bn, Sb, Th, Cm, Vt.

*Drypetes formosana* (Kaneh. & Sasaki ex Shimada) Kaneh.

*Liodendron formosanum* (Kaneh. & Sasaki ex Shimada) Keng

small tree

forests near the sea

Tw.

*Drypetes littoralis* (C.B. Rob.) Merr.

small tree

coastal, sometimes also inland

Sb, Ph, Tw.

*Euphorbia atoto* G. Forst.

*Chamaesyce atoto* (G. Forst.) Croizat

succulent herb to 60 cm tall

sandy seashores

PM, Sp, Sb, Ph, Tw, Hn, Gd, Fj, Spratly Is., Paracel Is., Pratas Is.

*Euphorbia bifida* Hook. & Arn.

*Euphorbia vachellii* Hook. & Arn.

*Euphorbia serrulata* (non Thuill.) Reinw. ex Blume

herb

sandy shores and waste ground

Tw, Hn, Gx, Gd, Fj.

*Euphorbia cyathophora* Murr.  
*Euphorbia heterophylla* auct. non L.  
herb  
sea shores, waste ground  
MP, Bo., Tw, MC, Paracel Is.  
Naturalized from tropical America.

*Euphorbia hirta* L.  
*Chamaesyce hirta* (L.) Millsp.  
herb  
waste places including seashores  
PM, Sp, Tw, Hn, Gx, Gd, Paracel Is., Pratas Is.

*Euphorbia hsinchuensis* (Lin & Chaw) C.Y. Wu & J.S. Ma  
*Chamaesyce hsinchuensis* Lin & Chaw  
prostrate herb  
sandy beaches and riversides  
Tw  
Endemic.

*Euphorbia makinoi* Hayata  
*Chamaesyce makinoi* (Hayata) Hara  
herb  
sandy shores and waste ground  
Ph, Tw, MC.

*Euphorbia sparmannii* Boiss.  
*Chamaesyce sparmannii* (Boiss.) Hurusawa  
herb  
coral beaches  
Tw.

*Euphorbia taihsiensis* (Chaw & Koutrik) Oudejans  
*Chamaesyce taihsiensis* Chaw & Koutrik  
prostrate herb  
coral reefs and on cement  
Tw  
Endemic

*Euphorbia thymifolia* L.  
*Chamaesyce thymifolia* (L.) Millsp.  
prostrate herb  
cultivation, waste ground, sea shores  
Tw, Spratly Is., Paracel Is.

*Excoecaria agallocha* L.  
small tree  
mangrove swamps and rocky shores  
PM, Sp, Sk, Bn, Sb, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Excoecaria kawakamii* Hayata

shrub

Tw.

Endemic to Lanyu and Lutaο islands.

*Glochidion littorale* Blume var. *littorale*

shrub

coasts

PM, WK, Sk, Bn, Sb, Th, Vt, Ph.

*Glochidion mindoreense* C.B. Rob.

shrub or small tree

on rocks, often near the sea

Sb, Ph.

*Glochidion perakense* (Müll.Arg.) Airy Shaw

*Glochidion glaberrimum* Ridl.

shrub or small tree to 6 m tall

mainly coastal swampy places

PM, Sp.

*Jatropha curcas* L.

shrub

sandy places including beaches

Hn, Gd, Paracel Is.

Naturalized.

*Margaritaria indica* (Dalzell) Airy Shaw

small tree

sometimes coastal

PM, Sk, Sb, Th, Ph, Tw, Gx.

*Mallotus repandus* (Willd.) Müll.Arg.

large climbing shrub

often along seashores

Ph, Tw.

*Mallotus tiliifolius* (Blume) Müll.Arg.

*Mallotus papillaris* (Blanco) Müll.Arg.

shrub or small tree to 7.5 m

often coastal

MP, Sk, Bn, Sb, Th, Ph, Tw, Hn.

*Micrococca mercurialis* (L.) Benth.

annual herb to 30 cm tall

open sandy places near the coast

PM, Sp.

*Microstachys chamaelea* (L.) Müll.Arg.  
*Sebastiania chamaelea* (L.) Müll.Arg.  
herb to 90 cm tall  
open sandy places near the sea  
PM, Sp, Sk, Bn, Sb, Hn, Gd, Paracel Is.

*Sauropus bacciformis* (L.) Airy Shaw  
*Agyneia bacciformis* L.  
*Synostemon bacciformis* (L.) G.L. Webster  
bushy herb  
saline soils, usually near the sea  
PM, Sp, Ph, Bn, Sb, Tw, Hn, Gd, Gx, Fj.

*Stillingia lineata* (Lam.) Müll.Arg. ssp. *pacifica* (Müll.Arg.) Steenis  
shrub or small tree to 10 m tall  
coastal forest  
Ph.

*Suregada aequorea* (Hance) Seem.  
*Gelonium aequoreum* Hance  
small tree  
seashores  
Tw.

*Suregada multiflora* (Juss.) Baill. var. *multiflora*  
*Gelonium bifarium* Roxb.  
*Gelonium glomerulatum* Hassk.  
*Gelonium multiflorum* Juss.  
*Gelonium tenuifolium* Ridl.  
shrub or small tree to 12 m tall  
rocky and sandy shores, also inland in rocky places to 750 m  
PM, Sp, Sk, Sb, Ph.

#### FLACOURTIACEAE

*Hemiscolopia trimera* (Boerl.) Slooten  
tree to 10 m tall  
coastal forest and inland  
PM, Vt.

*Homalium dasyanthum* (Turcz.) Warb.  
*Homalium griffithianum* Kurz  
tree to 30 m tall  
near the coast, including limestone areas  
PM, Th, Vt.

*Scolopia macrophylla* (Wight & Arn.) Clos  
*Scolopia rhinantha* (Benn. & Br.) Clos  
spiny tree to 9 m tall  
lowlands, usually coastal  
PM, Bo., Th, Cm.

*Scolopia oldhamii* Hance

small tree

common on the coast, also inland

Ph, Tw, MC.

#### GOODENIACEAE

*Goodenia pilosa* (R.Br.) Carolin

*Calogyne pilosa* R.Br.

*Calogyne pilosa* ssp. *chinensis* (Benth.) H.S. Kiu

herb to 23 cm tall

rice fields, waste ground, grasslands near the sea

Ph, Vt, Hn, Gx, Gd, Fj.

*Scaevola hainanensis* Hance

shrub

coastal

Vt, Tw, Hn, Gd, Fj, Paracel Is.

*Scaevola taccada* (Gaertn.) Roxb.

*Scaevola sericea* Vahl

*Scaevola koenigii* Vahl

large succulent shrub

sandy shores

PM, Sp, Ri, WK, Sk, Bn, Sb, Th, Ph, Hn, Gd, Spratly Is., Paracel Is., Pratas Is.

#### GUTTIFERAE

*Calophyllum inophyllum* L.

tree to 25 m tall

rocky and sandy shores

PM, Sp, Bn, Vt, Tw, Hn, Gd, Spratly Is., Paracel Is., Pratas Is.

*Garcinia celebica* L.

*Garcinia hombroniana* Pierre

tree to 30 m tall

most frequently near the sea

PM, Sp, Bn.

*Garcinia subelliptica* Merr.

small tree to 18 m tall

in thickets along the shore

Ph, Tw.

*Mammea odorata* (Rafin.) Kosterm.

small tree

sandy seashores

PM, Ph.

*Mammea siamensis* (Miq.) T. Anders.  
*Ochrocarpos siamensis* (Miq.) T. Anders.  
tree to 15 m tall  
coastal  
Th, Cm.

#### HERNANDIACEAE

*Gyrocarpus americanus* Jacq.  
*Gyrocarpus jacquinii* Gaertn.  
small tree 3-30 m tall  
rocky shores, also inland  
Ph, Vt.

*Hernandia nymphaeifolia* (Presl) Kubitzki  
*Hernandia peltata* Meissn.  
*Hernandia sonora* auct. non. L  
tree to 18 m tall  
coastal and offshore islands  
PM, Bo., Th, Cm, Vt, Ph, Tw, Hn, Spratly Is.

#### ICACINACEAE

*Gonocaryum calleryanum* (Baill.) Becc.  
treelet or tree to 12 m tall  
found on coral rocks  
Ph, Tw.

*Gonocaryum macrophyllum* (Blume) Sleumer  
shrub or small tree to 6 m tall  
coastal forest  
Bo., Bn.

*Merrilliodendron megacarpum* (Hemsl.) Sleumer  
tree to 15 m tall  
generally coastal  
once from Palawan, Ph.

#### LABIATAE

*Ajuga pygmaea* A. Gray  
tiny stoloniferous herb  
shores  
Tw.

*Leucas chinensis* (Retz.) R. Br.  
herb  
sandy beaches  
Tw, Hn.

LAURACEAE

*Beilschmiedia tonkinensis* (Lecomte) Ridl.

tree to 15 m tall  
lowland forest, often coastal  
PM.

*Cassytha filiformis* L.

leafless twining parasitic vine  
common on sandy coasts  
PM, Sp, Bn, Tw, Gd, Hn, Spratly Is., Paracel Is., Pratas Is.

LECYTHIDACEAE

*Barringtonia asiatica* (L.) Kurz

*Barringtonia speciosa* J.R. Forst. & G. Forst.  
tree to 20 m tall or more  
sandy shores  
PM, Sp, Bn, Th, Cm, Vt, Ph, Tw, Hn, Spratly Is.

*Barringtonia conoidea* Griff.

sparsely branching shrub or small tree to 4 m tall  
tidal estuaries  
PM, WK, Bn, Sk.

*Barringtonia racemosa* (L.) Spreng.

shrub or tree to 20 m tall  
periodically flooded forest, back mangroves  
PM, Bo., Bn, Th, Ph, Tw, Gd, Hn

*Barringtonia reticulata* (Blume) Miq.

*Barringtonia sumatrana* Miq.  
shrub or small tree to 10 m tall  
sandy shores and tidal creeks  
PM, Sp.

LEGUMINOSAE

*Abrus precatorius* L.

vine  
hedges and thickets often near the sea  
PM, Bo., Th, Cm, Vt, Ph, Tw, Hn, Gx, Gd.

*Adenanthera marina* I.C. Nielsen

shrub to 3 m tall  
sandy beaches  
PM.  
Endemic.



*Adenanthera pavonina* L.

tree 25-40 m tall

lowland forest, usually near the sea

often planted

PM, Sk, Bn, Sb, Th, Cm, Vt.

*Aganope heptaphylla* (L.) Polhill

*Derris sinuata* Benth. ex Thwaites

*Derris heptaphylla* (L.) Merr.

scandent shrub

tidal riverbanks, coastal areas

PM, Bn, Th, MC.

*Albizia retusa* Benth. ssp. *retusa*

*Albizia littoralis* Teijsm. & Binn.

tree to 25 m tall

sandy beaches on offshore islands

PM, Sp, Sk, Sb, Ph, Th.

*Albizia saponaria* (Lour.) Blume ex Miq.

tree to 15 m tall

secondary forest near the sea and also inland

Ph.

*Caesalpinia bonduc* (L.) Roxb.

*Caesalpinia bonducella* (L.) Fleming, *nom. illeg.*

prickly liana to 15 m tall

often coastal but also found inland

PM, Sp, Th, Cm, Vt, Tw, Hn, Gx, Gd, Spratly Is., Pratas Is.

*Caesalpinia crista* L.

*Caesalpinia nuga* (L.) Ait.

prickly liana to 15 m tall

sandy beaches, back mangrove and on limestone

PM, Sp, Th, Cm, Vt, Ph, Tw, Hn, Gx, Gd, Parcel Is.

*Caesalpinia godfroyana* Kuntze

climbing shrub

sometimes coastal

Th, Cm, Vt.

*Caesalpinia major* (Medik.) Dandy & Exell

liana

coasts

Bn, Th, Cm, Vt, Gd, Gx, Fj, Spratly Is.

*Caesalpinia minax* Hance

liana

sandy beaches and inland

Th, Vt, Tw, Gx, Gd, Fj, Parcel Is.

*Cajanus scarabaeoides* (L.) Thouars

*Atylosia scarabaeoides* (L.) Benth.

slender twining vine

sandy shores, waste ground

Th, Cm, Vt, Ph, Tw, Hn, Gx, Gd, Fj., Paracel Is.

*Canavalia cathartica* Thouars

*Canavalia microcarpa* (DC.) Piper

*Canavalia turgida* Grah. ex A. Gray

creeping and climbing vine

thickets near the sea

PM, Sp, Th, Cm, Vt, Tw, Hn, Gd, Spratly Is.

*Canavalia lineata* (Thunb.) DC.

prostrate twiner

seashores

Cm, Vt, Tw, Gx, Gd, Fj.

*Canavalia rosea* (Sw.) DC.

*Canavalia obtusifolia* (Lam.) DC.

*Canavalia maritima* (Aubl.) Thouars

trailing vine

sandy shores

PM, Sp, Bo., Bn, Th, Cm, Vt, Tw, Hn, Gx, Gd, Fj, Spratly Is., Paracel Is., Pratas Is.

*Christia constricta* (Schindl.) T.C. Chen

*Lourea constricta* Schindl.

shrub

open places, sometimes coastal

Vt, Hn, Gd.

*Crotalaria alata* Buch.-Ham. ex G. Don

*Crotalaria bialata* Schrank.

subshrub to 60 cm tall

waste places, sandy beaches

PM, Sp, Th, Cm, Vt, Hn, Gx, Gd, Fj.

*Crotalaria laburnifolia* L.

shrub to 120 cm tall

seashores, waste places

Th.

*Crotalaria pallida* Aiton

*Crotalaria saltiana* (non Andr.) Prain ex King

*Crotalaria mucronata* Desv.

shrub to 100 cm tall

waste places

PM, Sp, Bn, Th, Cm, Vt, Gx, Gd, Fj, Paracel Is.

Naturalized from Africa.

*Crotalaria retusa* L.

shrub to 120 cm tall  
seashores, waste places  
PM, Th, Cm, Vt, Hn, Gd.

*Crotalaria uncinella* Lam.

procumbent herb or subshrub  
sandy shores  
PM, Th, Vt, Tw, MC.

*Cynometra iripa* Kostel.

*Cynometra ramiflora* L. var. *mimosoides* Baker  
shrub or small tree to 8 m tall  
mainly coastal, but sometimes inland  
PM, Th, Ph.

*Cynometra mirabilis* Meeuwen

tree 10-20 m tall  
near the seashore or along rivers  
Ph, Sb.

*Cynometra ramiflora* L.

bushy-crowned tree to 25 m tall  
riverbanks and swamps, especially near the coast  
PM, Bo., Th, Ph.

*Dalbergia candenatensis* (Dennst.) Prain

*Dalbergia torta* Grah. ex A. Gray  
scandent shrub or liana  
coastal scrub and mangroves  
PM, Bn, Th, Vt, Ph, MC.

*Dendrolobium umbellatum* (L.) Benth.

*Desmodium umbellatum* (L.) DC.  
shrub 2-3 m tall  
muddy and sandy shores  
PM, Th, Vt, Tw, MC.

*Derris scandens* (Roxb.) Benth.

large high-climbing liana  
lowland forest often near the sea  
PM, Sp, Th, Cm, Vt, MC.

*Derris trifoliata* Lour.

*Derris uliginosa* (Roxb. ex Willd.) Benth.  
slender liana  
mangrove swamps  
PM, Sp, Bn, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Desmodium rubrum* (Lour.) DC.

small shrub to 1 m tall  
coastal dunes, waste ground  
Cm, Vt, Hn, Gd.

*Entada phaseoloides* (L.) Merr.

large woody climber  
riversides, back mangroves and inland  
Bo., Ph, Vt, MC, Paracel Is.

*Entada rheedei* Spreng.

*Entada schefferi* Ridl.  
huge woody climber reaching lengths of 120 m  
lowland forest to 400 m, often near the sea  
PM, Bo., Th, Cm, Vt, Ph, MC.

*Erythrina fusca* Lour.

*Erythrina atrosanguinea* Ridl.  
*Erythrina ovalifolia* Roxb.  
tree to 25 m tall  
lowland forest, often coastal  
PM, Th, Cm, Vt, Ph.

*Erythrina variegata* L.

*Erythrina indica* Lam.  
*Erythrina rostrata* Ridl.  
*Erythrina orientalis* (L.) Murr.  
tree to 15 m tall  
rare in the wild on sandy beaches, widely cultivated  
PM, Bo., Bn, Th, Cm, Vt, Ph, Tw, Gx, Gd, Fj, Spratly Is., Paracel Is., Pratas Is.

*Glycine dolichocarpa* Tateishi & Ohashi

twining or prostrate herb  
wasteland, open places near the sea  
Tw.

*Glycine tabacina* (Labill.) Benth.

*Glycine clandestina auct. non* Wendl.  
scandent herb  
open grasslands near the sea  
Tw, Gd, Fj.

*Indigofera hirsuta* L.

shrub to 1.5 m tall  
sandy seashores  
PM, Th, Cm, Vt, Hn, Gx, Gd, Fj, Paracel Is.

*Indigofera linnaei* Ali

*Indigofera enneaphylla* L.  
herb  
sandy beaches  
Th, Vt, Hn, Paracel Is.

*Indigofera litoralis* Chun & T. Chen

herb  
sandy shores  
Hn.

*Indigofera nummulariifolia* (L.) Alston

herb  
sandy shores  
Th, Cm, Vt, Hn, Paracel Is.

*Indigofera zollingeriana* Miq.

shrub or small tree  
sandy beaches  
PM, Sp, Th, Vt, Ph, Tw, MC.

*Inocarpus fagifer* (Parkinson) Fosberg

small, multi-stemmed tree  
brackish swamp forest  
PM, Bo.

*Intsia bijuga* (Colebr.) Kuntze

*Afzelia bijuga* (Colebr.) A. Gray  
*Afzelia retusa* Kurz  
tree to 25 m tall  
coasts and tidal reaches of rivers  
PM, Sp, Bn, Th, Cm, Vt, Ph.

*Lespedeza daurica* (Maxim.) Schindl.

shrub to 80 cm tall  
seashores  
Tw, MC.

*Macroptilium lathyroides* (L.) Urb.

*Phaseolus semierectus* L.  
shrub or climber  
waste ground, often near the sea  
Sp, Tw, Gd, Fj.  
Naturalized from tropical America.

*Melilotus indicus* (L.) All.

herb to 50 cm tall  
seashores  
Th, Tw, MC.

*Melilotus suaveolens* Ledeb.

herb 50-90 cm tall  
seashores  
Vt, Tw, MC.

*Mucuna gigantea* (Willd.) DC.

large sprawling climber  
thickets, often near the sea  
PM, Sp, Th, Vt, Tw, Hn.

*Ormosia bancana* (Miq.) Merr.

*Ormosia parvifolia* Baker  
tree to 20 m tall  
lowland forest, often near rivers or the sea  
PM, Sp, Bn.

*Peltophorum pterocarpum* (DC.) K. Heyne

*Peltophorum ferrugineum* (Decne.) Benth.  
tree to 20 m tall  
rocky and sandy shores, widely planted inland  
PM, Sp, Bn, Th, Cm, Vt, Gd.

*Pongamia pinnata* (L.) Pierre var. *pinnata*

*Pongamia glabra* Vent. var. *typica*  
small tree sometimes to 20 m tall  
sandy and rocky shores  
PM, Sp, Bn, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Pterocarpus indicus* Willd.

tree to 30 m tall  
coastal, along tidal rivers, extensively planted  
PM, Bn, Th, Cm, Vt.

*Rhynchosia minima* (L.) DC.

twiner  
sometimes coastal  
Th, Vt, Tw, Paracel Is.

*Rothia indica* (L.) Druce

*Rothia trifoliata* (Roth) Pers.  
herb to 20 cm tall  
sandy shores and fields  
Vt.

*Serianthes grandiflora* Benth.

*Serianthes dilmyi* Fosberg  
tree to 35 m tall, usually smaller  
mostly on sea shores, commoner on offshore islands  
PM, Sp, Sb, Th, Ph.

*Sesbania bispinosa* (Jacq.) Spreng. ex Steud

herb  
sometimes coastal  
Th, Cm, Vt., Paracel Is.

*Sesbania chamalea*

herb

sometimes coastal

Hn, Gd, Paracel Is.

*Sindora siamensis* Miq. var. *maritima* (Pierre) K. Larsen & S. Larsen

*Sindora maritima* Pierre

tree to 15 m tall

beach forest

Th, Cm, Vt.

*Sindora siamensis* Miq. var. *siamensis*

tree to 15 m tall

beach forest, also inland

PM, Th, Cm, Vt.

*Sophora tomentosa* L.

silvery shrub to 5 m tall

sea shores

PM, Sp, Bo., Ph, Th, Cm, Vt, Tw, Hn, Gd, Spratly Is., Paracel Is., Pratas Is.

*Tephrosia luzoniensis* Vogel

*Tephrosia dichotoma* auct. non Desv.

herb

sometimes coastal

Ph, Paracel Is.

*Vigna marina* (Burm.) Merr.

*Vigna retusa* Walp.

trailing or twining vine

common on sandy shores

PM, Sp, Th, Vt, Tw, Gd, Spratly Is., Paracel Is., Pratas Is.

*Vigna minima* (Roxb.) Ohwi & Ohashi

slender twining herb

grasslands near the sea

Th, Vt, Ph, Tw, Hn.

*Wallaceodendron celebicum* Koord.

tree to 45 m tall

lowland forest inland and near the sea

Ph

#### LOGANIACEAE

*Fagraea acuminatissima* Merr.

*Fagraea obovata* auct. non Wall.

epiphytic climber or shrub

rocky coasts and inland forests of lowland and hills

PM, Ri, Bo.

LORANTHACEAE

*Macrosolen retusus* (Jack) Miq.  
*Elytranthe retusa* (Jack) G. Don  
stout shrubby mistletoe to 60 cm tall  
often on low trees near the sea  
PM, Sp.

LYTHRACEAE

*Pemphis acidula* J.R. Forst. & G. Forst.  
shrub to 8 m tall  
rocky and sandy shores  
PM, Sp, Sk, Sb, Th, Vt, Ph, Tw, Hn, Paracel Is.

*Sonneratia alba* J.J.Sm.  
*Sonneratia griffithii* auct. non Kurz  
tree to 30 m tall  
mangroves  
PM, Sp, WK, Sk, Bn, Sb, Th, Vt, Ph, Hn.

*Sonneratia caseolaris* (L.) Engl.  
*Sonneratia acida* L.f.  
tree to 15 m tall  
mangroves, tidal river banks  
PM, Sp, WK, Sk, Bn, Sb, Th, Cm, Vt, Ph, Hn.

*Sonneratia griffithii* Kurz  
tree to 20 m tall  
mangroves  
very rare, a few locations.  
Th, PM.

*Sonneratia hainanensis* W.C. Ko et al.  
tree  
mangrove  
Hn.  
Endemic.

*Sonneratia ovata* Back.  
*Sonneratia alba* auct. non J.J.Sm.  
tree to 8 m tall  
mangroves, tidal creeks  
PM, Ri, WK, Sk, Bn, Th, Cm, Vt, Hn.



MALPIGHIACEAE

*Hiptage corymbifera* Arènes

shrub to 5 m tall

coastal

Vt.

*Ryssopteris timoriensis* (DC.) Juss.

liana to 10 m long

coastal regions

Ph, Tw.

*Tristellateia australasiae* A. Rich.

slender liana to 10 m long

back mangroves, also widely cultivated

PM, Sp, Bo., Th, Vt, Ph, Tw.

MALVACEAE

*Hibiscus tiliaceus* L.

tree to 30 m tall

sea shores, rocky coasts and river banks

PM, Sp, Ri, WK, Sk, Bn, Sb, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Sida chinensis* Retz.

shrub

frequent on sandy beaches

Tw, Hn, Gd, Paracel Is.

*Sida cordifolia* L.

herb to 1 m tall

sandy open places, often coastal

PM, Sp, Ph, Th, Tw, Hn, Gd, Paracel Is.

*Sida pusilla* Cav.

*Sida parvifolia* DC.

shrub

sandy beaches

Ph (Babuyan Is.), Spratly Is., Paracel Is.

*Thespesia populnea* (L.) Sol. ex Corrêa

tree to 15 m tall

sandy and rocky shores

PM, Sp, Sk, Sb, Th, Vt, Ph, Tw, Hn, Gx, Gd, Paracel Is.

MELASTOMATACEAE

*Memecylon caeruleum* Jack  
shrub or small tree to 12 m tall  
lowlands near the sea  
PM, Sp.

*Memecylon edule* Roxb. var. *edule*  
tree to 12 m tall  
lowland forest, often near the sea  
PM, Sp, Bo.

*Memecylon edule* Roxb. var. *ovatum* (Sm.) C.B. Clarke  
*Memecylon laxiflorum* Wall. ex Ridl.  
tree to 18 m tall  
open places, often near the sea, also on limestone  
PM, Sp, Bo.

*Ochthocharis javanica* Blume  
shrub to 2 m tall  
mangroves and other tidal areas  
PM, Sp, Bo., Th, Ph.

*Plethiandra sessiliflora* (Cogn.) Ridl.  
epiphytic shrub to 1 m tall  
mangroves or on limestone  
PM, Sp.

MELIACEAE

*Aglaia cucullata* (Roxb.) Pellegr.  
*Amoora cucullata* Roxb.  
tree to 30 m tall  
tidal rivers, back mangrove, lowland forest  
PM, Sp, Bo., Bn, Th, Vt.

*Aglaia elaeagnoidea* (A. Juss.) Benth.  
*Aglaia formosana* (Hayata ex Matsumura & Hayata) Hayata  
medium-sized tree  
thickets along the seashore, also inland to 1000 m  
Sk, Th, Cm, Vt, Ph, Tw.

*Chisocheton erythrocarpus* Hiern  
tree to 25 m tall  
lowland forest, often near the sea  
PM, Sp, Bo.

*Sandoricum beccarianum* Baill.

*Sandoricum emarginatum* Hiern

tree to 35 m tall

lowland forest, sometimes near the sea

PM, Sp.

*Xylocarpus granatum* J. König

*Carapa moluccensis* auct. non Lam.

tree to 15 m tall

mangroves

PM, Sp, Sk, Bn, Sb, Th, Vt, Ph, Hn.

*Xylocarpus moluccensis* (Lam.) M. Roem.

*Carapa obovata* auct. non Blume

tree to 18 m tall

mangroves

PM, Sp, Sk, Sb, Vt, Ph.

*Xylocarpus rumphii* (Kostel.) Mabb.

tree to 12 m tall

rocky headlands

PM, Sp, Ph.

#### MENISPERMACEAE

*Cocculus orbiculatus* (L.) DC.

*Cocculus ovalifolius* (Vahl ex Pers.) DC.

*Cocculus elegans* (Ridl.) Ridl.

slender liana

sandy shores

PM, Ph, Tw, Gd.

#### MORACEAE

*Ficus callosa* Willd.

tree to 33 m tall

lowland forest, often near the sea

PM, Bo., Th, Ph.

*Ficus consociata* Blume var. *murtoni* King

strangler

lowland forests and seashores

PM, Ri, Bo., Th.

*Ficus cucurbitina* King

scrambler

usually near the sea

PM, Sb, Ph, WK.

*Ficus deltoidea* Jack

*Ficus diversifolia* Blume var. *deltoidea* (Jack) Ridl.

shrub to 2 m tall, sometimes epiphytic

seashores to mountain tops

PM, Bo., Ri, Sk, Sb, Th.

*Ficus globosa* Blume

scrambler

sea coasts to mountains

PM, Ri, Bo., Th.

*Ficus kurzii* King

scrambler

rocks near the sea

PM, Th.

*Ficus microcarpa* L.f. var. *crassifolia* (Shieh) Liao

erect or scandent shrub

on coastal limestone rocks

Ph, Tw.

*Ficus microcarpa* L.f. var. *microcarpa*

scrambling shrub or tree

common on coastal rocks

PM, Sp, Bo., Ph, Th, MC, Spratly Is., Pratas Is.

*Ficus pedunculosa* Miq. var. *mearnsii* (Merr.) Corner

scandent shrub

coastal rocks

Ph, Tw.

*Ficus superba* Miq.

big tree

rocky coasts

PM, Ri, Th.

*Ficus tinctoria* G. Forst.

big tree with many aerial roots

lowlands, often on rocky coasts

PM, Bo., Ph, Th, Tw, Hn.

Represented by several subspecies.

*Ficus vaccinioides* Hemsl. & King

creeping shrub

on coastal rocks or inland

Tw, MC.

MYOPORACEAE

*Myoporum bontioides* A. Gray  
small evergreen shrub to 1.5 m tall  
seashores  
Tw, Hn, Gx, Gd, Fj, Paracel Is.

MYRISTICACEAE

*Knema globularia* (Lam.) Warb.  
*Knema missionis* (Wall. ex King) Warb.  
tree about 10 m tall  
usually coastal  
PM, Sp.

*Myristica guatteriifolia* A. DC.  
tree to 20 m tall  
beach forest  
PM, Sk, Ph, Vt.

MYRSINACEAE

*Aegiceras corniculatum* (L.) Blanco  
*Aegiceras majus* Gaertn.  
small tree to 5 m tall  
tidal mud, river estuaries  
PM, Sp, Bn, Th, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Aegiceras floridum* Roem. & Schult.  
small tree  
mangrove  
?Bo., Vt, Ph.

*Ardisia elliptica* Thunb.  
*Ardisia littoralis* Andr.  
shrub to 3 m tall  
tidal areas, sea shores  
PM, Sp, Bo., Th, Tw.

*Rapanea porteriana* Wall. ex A. DC.  
*Myrsine avenis* (Blume) DC.  
*Myrsine porteriana* Wall. ex A. DC.  
*Myrsine umbellulata* (Wall.) DC.  
shrub or small tree to 10 m tall  
coasts, lowlands, hills and mountains to 1700 m  
PM, Sp, Th.

MYRTACEAE

*Melaleuca cajuputi* Powell  
*Melaleuca leucadendron* L. *sensu lato*  
shrub or tree to 24 m tall  
swampy ground near the sea  
PM, Sk, Th, Vt.

*Osbornia octodonta* F. Muell.  
small tree  
mangrove fringes  
Bo., Vt, Ph.

*Psidium guajava* L.  
small tree  
common on waste ground, often near the sea  
widespread  
Naturalized from tropical America.

*Syzygium campanulatum* Korth.  
*Eugenia myrtifolia* (non Salisb.) Roxb.  
*Eugenia oleina* Wight *nom. nud.*  
small tree  
coastal  
PM, Sp, Bo., Ph.

*Syzygium grande* (Wight) Walp.  
*Eugenia grandis* Wight  
tree to 30 m tall  
sandy and rocky coasts, also widely planted  
PM, Sp, Bo., Th.

*Syzygium gratum* (Wight) S.N. Mitra  
*Eugenia grata* Wight  
*Eugenia spicata auct. non* Lam.  
small tree  
often coastal  
PM, Th, Ph.

*Syzygium helferi* (Duthie) P. Chantaranonthai & J. Parn.  
*Eugenia helferi* Duthie  
tree to 18 m tall  
rocky forest, often near the sea  
PM, Bn, Th.

*Syzygium leucoxyllum* Korth.  
*Eugenia leucoxyllum* (Korth.) Miq.  
*Eugenia verecunda* Duthie  
tree to 15 m tall  
sea coasts and tidal rivers  
PM, Sp.

*Syzygium oblatum* (Roxb.) Wall. ex A.M. Cowan & J.M. Cowan var. *oblatum*  
*Eugenia oblata* Roxb.  
*Eugenia limnaea* Ridl.  
*Eugenia laxiuscula* Ridl.  
*Eugenia brantiana* M.R. Hend.  
shrub or tree to 24 m tall  
lowland forest, mostly near the sea  
PM, Bo., Th, Vt.

*Syzygium pycnanthum* Merr. & L.M. Perry  
*Eugenia densiflora* (Blume) Miq.  
tree to 21 m tall  
lowland forests, seashores  
PM, Sp, Sk, Bo., Th.

*Syzygium subdecussatum* (Wall. ex Duthie) I.M. Turner var. *subdecussatum*  
*Eugenia subdecussata* Duthie  
tree to 30 m tall  
lowland forest and rocky shores  
PM, Sp, Sk.

*Syzygium syzygioides* (Miq.) Merr. & L.M. Perry  
*Eugenia syzygioides* (Miq.) M.R. Hend.  
*Eugenia cymosa* auct. non Lam.  
*Eugenia pseudosyzygioides* M.R. Hend.  
tree to 30 m tall  
lowlands, often near sandy coasts  
PM, Sp, Bo., Th, Vt.

*Syzygium zeylanicum* (L.) DC.  
*Eugenia zeylanica* (non Willd.) Wight  
*Eugenia spicata* Lam.  
*Eugenia longicaudata* Ridl.  
shrub or tree to 18 m tall  
sea shores and river banks, rarely in the mountains  
PM, Sp, Bo., Th, Vt, Gx, Gd.

*Tristaniopsis merguensis* (Griff.) Peter G. Wilson & J.T. Waterh.  
*Tristania merguensis* Griff.  
*Tristania subauriculata* King  
*Tristania maingayi* Duthie  
tree to 21 m tall  
rocky coasts to mountains  
PM, Sp, Bo. (Bn).

#### NYCTAGINACEAE

*Boerhavia diffusa* L.  
*Boerhavia crispa* Heyne  
creeping or erect herb to 1 m tall  
dry sandy open places, often coastal  
PM, Sp, Bo., Cm, Vt, Ph, Tw, Hn, Gx, Gd, Spratly Is., Paracel Is., Pratas Is.

*Pisonia aculeata* L.

thorny scrambling liana reaching to 20 m  
seashores and inland  
PM, Sb, Cm, Vt, Ph, Tw, Hn, Gd.

*Pisonia grandis* R.Br.

shrub or tree to 30 m tall  
coastal  
PM, Sb, Ph, Hn, Spratly Is., Paracel Is., Pratas Is.

*Pisonia umbellifera* (J.R. Forst.) Seem.

shrub or tree to 28 m tall  
forest, often coastal  
PM, Bo., Ph, Tw, Vt, Hn

OCHNACEAE

*Campylospermum serratum* (Gaertn.) Bittrich & M.C.E. Amaral

*Gomphia microphylla* Ridl.

*Gomphia sumatrana* Jack

*Gomphia oblongifolia* Ridl.

*Gomphia serrata* (Gaertn.) Kanis

*Ouratia serrata* (Gaertn.) Robson

*Ouratia striata* (Tiegh.) Lecomte

tree to 25 m tall

lowland and hill forest to 1000 m, common near the sea

PM, Sp, Sk, Bn, Sb, Th, Vt, Ph, Hn.

*Ochna integerrima* (Lour.) Merr.

*Ochna grandis* Ridl.

shrub or small tree to 12 m tall

sandy beaches, swampy places, also inland to 1200 m

Th, Cm, Vt, Hn.

OLACACEAE

*Olax scandens* Roxb.

shrub

dry rocky places, frequently near the sea

PM, Th, Vt.

*Ximenia americana* L.

sprawling shrub or small tree to 10 m tall

sandy shores

PM, Sp, Sk, Sb, Hn.



OLEACEAE

*Olea brachiata* (Lour.) Merr.  
*Olea maritima* Wall. ex Don  
tree to 10 m tall  
rocky shores  
PM, Ri, Sk, Bn, Sb, Th, Cm, Hn, Gd.

ONAGRACEAE

*Oenothera littoralis* Schlecht.  
herb  
sandy beaches  
Gd, Fj.

OPILIACEAE

*Cansjera rheedei* J.F. Gmel.  
*Cansjera zizypholia* Griff.  
liana or shrub to 5 m tall  
often in coastal vegetation  
PM, Sp, Sk, Bn, Sb, Ph, Hn, Gx, Gd.

*Champereia manillana* (Blume) Merr.  
*Champereia griffithii* Planch. ex Kurz  
shrub or small tree to 10 m tall  
lowland forest, sometimes coastal  
PM, Sp, Ri, Sb, Th, Ph, Tw.

*Opilia amentacea* Roxb.  
woody climber or erect shrub  
in dry forest, often on the seashore  
Sb, Ph, Th, Vt.

PAPAVERACEAE

*Argemone mexicana* L.  
erect herb  
coastal areas, dry sandy places  
Ph, Tw, Gd.  
Naturalized from the Caribbean

*Corydalis decumbens* (Thunb.) Pers.  
tuberous herb  
waste places near the coast  
Tw, MC.

PASSIFLORACEAE

*Passiflora foetida* L.

slender hairy vine

waste places - common on beaches

throughout

Naturalized from tropical America

PIPERACEAE

*Piper arboricola* C. DC.

creeper

lowland thickets often near the sea

Tw, Hn.

*Piper retrofractum* Vahl

*Piper officinarum* C. DC.

scandent shrub

coastal scrub

PM.

PITTOSPORACEAE

*Pittosporum ferrugineum* Ait.

shrub or tree to 15 m tall

common near rocky or sandy shores, also inland on mountains

PM, Sp, Sk, Sb, Ph.

*Pittosporum moluccanum* (Lam.) Miq.

shrub or small tree

occurs near the sea, but mostly inland

Ph, Tw.

*Pittosporum pentandrum* (Blanco) Merr.

small tree

sea shores and secondary growth

Ph, Tw, Hn.

*Pittosporum tobira* Ait.

evergreen shrub

coastal, rocks

Tw, Gx, Gd, Fj.

PLUMBAGINACEAE

*Limonium sinense* (Girard) Kuntze  
herb 15-60 cm tall  
sandy shores and salt marshes  
Vt, Tw, Hn, Gd, Fj.

*Limonium wrightii* (Hance) Kuntze  
shrubby plant  
among rocks on the seashore  
Tw.

POLYGALACEAE

*Salomonina ciliata* (L.) DC.  
*Salomonina oblongifolia* DC.  
herb to 25 cm tall  
open sandy places, sand dunes  
Sk, Bn, Sb, Ph, Th, Vt, Tw, Hn, Gx, Gd.

POLYGONACEAE

*Rumex maritimus* L.  
herb to 55 cm tall  
wasteground and seashores  
Tw, Hn, Gx, Gd, Fj.

PORTULACACEAE

*Portulaca oleracea* L.  
succulent herb  
waste places, sandy shores, often cultivated  
PM, Bo., Ph, Cm, Vt, Spratly Is., Paracel Is., Pratas Is.

*Portulaca pilosa* L.  
succulent herb  
dry waste places including beaches  
Tw, Hn, Gx, Gd, Fj, Paracel Is.

PRIMULACEAE

*Anagallis arvensis* L.  
prostrate herb 10-30 cm long  
coastal and inland grassland  
Tw, Gd, Fj.

*Androsace umbellata* (Lour.) Merr.

rosette-forming herb  
grassy places, often near the sea  
Vt, Ph, Tw, Hn, Gx, Fj, Gd.

*Lysimachia formosana* Honda

herb  
grassy places near the sea  
Tw.

*Lysimachia mauritiana* Lam.

herb to 50 cm tall  
coastal coral rocks and beaches, also inland  
Ph, Tw, Gd, Fj.

#### RHAMNACEAE

*Colubrina asiatica* L. ex Brongn.

shrub to 3 m tall  
sandy and rocky shores  
PM, Sk, Sb, Ph, Tw, Hn, Gd, Gx, Spratly Is., Pratas Is.

*Smythea lanceata* (Tul.) Summerh.

*Smythea pacifica* Seem.

liana  
seashores  
PM.

#### RHIZOPHORACEAE

*Bruguiera cylindrica* (L.) Blume

*Bruguiera caryophylloides* Blume

tree to 23 m tall  
muddy mangroves  
PM, Sp, Sk, Bn, Sb, Th, Vt, Ph, Hn, Gd.

*Bruguiera gymnorhiza* (L.) Savigny

tree to 36 m tall  
mangroves, usually to the landward fringe  
PM, Sp, WK, Sk, Bn, Sb, Th, Cm, Vt, Ph, Tw, Hn, Gx, Gd, Fj.

*Bruguiera hainesii* C.G. Rogers

tree to 33 m tall  
inland edge of mangrove  
Th.

*Bruguiera parviflora* (Roxb.) Wight & Arn. ex Griff.

tree to 24 m tall

inner side of mangrove forests

PM, Sp, Sb, Sk, Th, Vt, Ph.

*Bruguiera sexangula* (Lour.) Poir.

*Bruguiera eriopetala* Wight & Arn. ex Arn.

tree to 33 m tall

mangroves, usually to the landward fringe

PM, Sp, WK, Sk, Bn, Sb, Th, Cm, Vt, Ph, Hn, Gd.

*Ceriops decandra* (Griff.) W. Theob.

small tree to 15 m tall

mangrove

PM, WK, Sk, Sb, Th, Cm, Vt, Ph.

*Ceriops tagal* (Pers.) C.B. Rob.

*Ceriops candolliana* Arn.

tree to 15 m tall

mangrove

PM, Sp, WK, Sk, Bn, Sb, Cm, Vt, Tw, Hn, Gx, Gd.

*Kandelia candel* (L.) Druce

*Kandelia rheedei* Wight & Arn.

shrub or small tree to 7 m tall

banks of tidal rivers

PM, Sp, WK, Sk, Bn, Sb, Th, Vt, Tw, Hn, Gx, Gd, Fj.

*Rhizophora apiculata* Blume

*Rhizophora conjugata* auct. non L.

stilt-rooted tree to 30 m tall

mangrove gregarious on soft estuarine mud

PM, Sp, WK, Sk, Bn, Sb, Th, Cm, Vt, Ph, Tw, Hn, Gd.

*Rhizophora mucronata* Lam.

stilt-rooted tree to 30 m tall

gregarious mangrove of muddy or sandy shores

PM, Sp, WK, Sk, Bn, Sb, Th, Cm, Vt, Ph, Tw.

*Rhizophora stylosa* Griff.

stilt-rooted tree to 10 m tall

sandy and rocky shores

PM, Sp, Ri, Sb, Cm, Vt, Ph, Tw, Hn, Gx, Gd.

## ROSACEAE

*Eriobotrya bengalensis* (Roxb.) Hook.f.

shrub or large tree to 27 m tall

offshore islands, limestone hills and mountains

PM.

*Osteomeles anthyllidifolia* Lindl. var. *subrotunda* (C. Koch) Masam.

small shrub

Tw (Lanyu Island), ?MC.

*Rosa bracteata* Wendl. var. *scabricaulis* Lindl. ex Koidz.

erect or scandent shrub

seashores and sandy hills

Tw, MC.

## RUBIACEAE

*Canthium cochinchinensis* Pierre ex Pit.

shrub or small tree

open areas and rocky places near the sea

PM.

*Gardenia florida* L.

shrub

back mangrove

Vt.

*Guettarda speciosa* L.

tree to 10 m tall

sea shores

PM, Sp, Th, Tw, Hn, Gd, Spratly Is., Paracel Is., Pratas Is.

*Hedyotis strigulosa* Bartl. var. *parvifolia* (Hook. & Arn.) Yamazaki

*Hedyotis coreana* auct. non Lév.

herb 8-15 cm tall

seacoasts

Ph, Tw.

*Hedyotis herbacea* L.

*Oldenlandia heynei* (R.Br. ex Wight & Arn.) G. Don

*Oldenlandia herbacea* (L.) Roxb.

bushy herb to 60 cm tall

open sandy places, often near the sea

PM.

*Hedyotis pachycarpa* Ridl.

herb to 30 cm tall

damp forest near the sea

PM.

*Hedyotis racemosa* Lam.

herb 15-30 cm tall

grassy places near the sea

Tw.

*Hydnophytum formicarum* Jack  
large tuberous myrmecophytic epiphyte  
forest near the sea, also in the mountains  
PM, Sp, Bo.

*Hymenodictyon orixense* (Roxb.) Mabb.  
*Hymenodictyon excelsum* (Roxb.) Wall. ex DC.  
tree to 12 m tall  
lowland forest  
PM.

*Morinda citrifolia* L.  
tree to 9 m tall  
lowland forests and rocky coasts, often cultivated  
PM, Sp, Tw, Hn, Spratly Is., Paracel Is., Pratas Is.

*Morinda umbellata* L.  
climber  
sea shores to mountains  
PM, Sp, Ph, Tw, Hn, Gd.

*Myrmecodia tuberosa* Jack  
spiny ant-inhabited tuberous epiphyte  
lowland forest, usually near the sea  
PM, Sp, Bo.

*Oxyceros hoaensis* (Pierre ex Pitard) Tirveng.  
*Randia hoaensis* Pierre ex Pitard  
shrub  
back mangrove  
Vt.

*Oxyceros longiflora* (Lam.) T. Yamaz.  
*Randia longiflora* Lam.  
very thorny scrambling shrub  
common along rivers and near the sea  
PM, Sp.

*Prismatomeris tetrandra* (Roxb.) K. Schum. ssp. *malayana* (Ridl.) J.T. Johanss.  
*Prismatomeris malayana* Ridl.  
shrub to 3 m tall  
rocky shores, lowland forest, limestone  
PM, Ri.

*Psychotria maingayi* Hook.f.  
slender climber  
lowland forest, often near the sea  
PM.

*Scyphiphora hydrophyllacea* C.F. Gaertn.  
tree to 6 m tall, sometimes with stilt roots  
sea shores and mangrove swamps  
PM, Sp, Bn, Th, Vt, Ph, Hn.

*Spermacoce articularis* L.f.  
*Borreria articularis* (L.f.) F.N. Will.  
*Borreria hispida* auct. non (L.) K. Schum.  
rough wiry herb  
sandy waste ground, common near the sea  
PM, Sp, Tw, Hn, Gd, Paracel Is.

*Timonius compressicaulis* (Miq.) Boerl.  
*Timonius finlaysonianus* Hook.f.  
shrub or small tree to 7 m tall  
sandy and rocky shores  
PM, Sp.

*Wendlandia ternifolia* Cowan  
shrub to 5 m tall  
rocky coasts  
PM.

#### RUTACEAE

*Atalantia monophylla* (L.) DC.  
spiny shrub to 6 m tall  
rocky and sandy coasts, dry open places  
PM, Sp.

*Glycosmis mauritiana* (Lam.) Tanaka var. *mauritiana*  
*Glycosmis rupestris* Ridl.  
shrub  
usually on limestone, but also coastal  
PM.

*Limnocitrus littoralis* (Miq.) Swingle  
*Pleiospermium littorale* (Miq.) Tanaka  
shrub to 2 m tall  
brackish swamps and beaches  
Vt.

*Merope angulata* (Willd.) Swingle  
*Merope longispina* Hook.f.  
spiny shrub or small tree  
mangrove swamps  
PM, Sp, Sk, Sb.



*Severinia buxifolia* (Poir.) Tenore

small shrub  
seashores  
Ph, Tw, MC.

*Severinia disticha* (Blanco) Swingle

shrub or tree to 10 m tall  
beach forest  
Sb, Ph.

*Severinia paniculata* (Warb.) Swingle

shrub or small tree  
beach forest  
Sb, Ph.

*Toddalia asiatica* (L.) Lam.

scandent shrub  
secondary forest and waste ground near the sea  
Ph, Tw, Hn, Gd.

#### SALVADORACEAE

*Azima sarmentosa* (Blume) Benth. & Hook.f.

shrub  
muddy beaches  
Hn.

#### SANTALACEAE

*Dendrotrophe buxifolia* (Blume) Miq. var. *buxifolia*

*Henslowia buxifolia* Blume  
yellowish hemiparasitic shrubby twiner  
dry open forest often near the sea  
PM, Sp, Ri, Bo., Th, Cm, Vt.

#### SAPINDACEAE

*Allophylus cobbe* (L.) Raeusch. including vars. *glaber* Corner, *limosus* Corner, *marinus* Corner, *velutinus* Corner and *villosus* Corner

*Allophylus fulvinervis* (Blume) Blume

*Allophylus glaber* Roxb., *nom. illeg.*

*Allophylus ternatus* Lour.

*Allophylus villosus* (Roxb.) Blume

*Allophylus scandens* Ridl.

shrub or small tree to 15 m tall  
lowland forests, often coastal on sandy beaches and rocky shores  
PM, Sp, WK, Sk, Bn, Sb, Ph, Th.

*Alectryon glaber* (Blume) Radlk.  
shrub or small tree  
forest margins and coastal vegetation  
Sb, Ph.

*Cardiospermum halicacabum* L.  
trailing or climbing vine  
cultivated ground, waste places near the sea  
PM, Sk, Sb, Tw, Hn, Gd, Paracel Is.

*Dodonaea viscosa* Jacq.  
shrub or small tree to 6 m tall  
sandy shores, also inland  
PM, Sk, Sb, Vt, Tw, Hn, Gx, Gd, Fj.

*Ganophyllum falcatum* Blume  
tree to 24 m tall  
forest, sometimes coastal  
PM, Sk, Ph, Tw.

*Lepisanthes rubiginosa* (Roxb.) Leenh.  
*Erioglossum edule* (Blume) Blume  
*Lepisanthes hirta* Ridl.  
tree to 10 m tall  
inland and coastal forest, widely cultivated  
PM.

*Mischocarpus sundaicus* Blume  
*Mischocarpus lessertianus* Ridl.  
tree to 6 m tall  
sandy or swampy coastal forest, also inland  
PM, Sk, Sb, Hn, Gd.

## SAPOTACEAE

*Manilkara kauki* (L.) Dubard  
*Mimusops kauki* L.  
tree to 23 m tall  
rocky shores  
PM, Th, Vt.

*Mimusops elengi* L.  
tree to 15 m tall  
rocky headlands, widely planted  
PM, Ri, Bo., Th, Ph.

*Palaquium formosanum* Hayata  
tree to 20 m tall  
tidal forests  
Ph, Tw.

*Pouteria linggensis* (Burck) Baehni  
*Chrysophyllum curtisii* King & Gamble  
*Sideroxylon littorale* Ridl.  
*Planchonella linggensis* (Burck) Pierre  
tree to 20 m tall  
rocky coasts and hill forest  
PM, Sp, Sk, Ph.

*Pouteria obovata* (R.Br.) Baehni  
*Sideroxylon ferrugineum* Hook. & Arn.  
*Planchonella obovata* (R.Br.) Pierre  
tree to 25 m tall  
rocky and sandy shores, also on limestone  
PM, Sp, Sk, Bn, Sb, Th, Vt, Ph, Tw, Hn.

*Xantolis maritima* (Pierre) P. Royen  
spiny shrub or small tree to 8 m tall  
sandy beaches  
Vt.

#### SIMAROUBACEAE

*Quassia indica* (Gaertn.) Noot.  
*Samadera indica* Gaertn.  
tree to 20 m tall  
tidal swamps  
PM, Sp, Sk, Bn, Sb, Vt, Ph.

*Soulamea amara* Lam.  
shrub or small tree to 5 m tall  
sandy beaches and behind coral reefs  
WK, Sk, Sb.

#### STERCULIACEAE

*Heritiera littoralis* Dryand.  
small bushy tree to 15 m tall  
sea shores, mangrove swamps  
PM, Sp, Bn, Th, Vt, Ph, Tw, Hn, Gd.

*Sterculia foetida* L.  
tree to 30 m tall  
lowland forest, often near the sea  
PM, Sp, Sb, Ph.

*Waltheria arenaria* Ridl.  
wiry creeper  
sandy places near the sea  
PM.

*Waltheria indica* L.

shrub to 1 m tall

sea shores

PM, Sp.

#### SURIANACEAE

*Suriana maritima* L.

shrub to 3 m tall

sandy beaches, mostly on small islands

Ph, Paracel Is., Pratas Is.

#### THYMELAEACEAE

*Gonystylus brunnescens* Airy Shaw

tree to 36 m tall

lowland forest, often near the sea

PM.

*Linostoma pauciflorum* Griff.

liana to 30 m long

lowland forest margins, often near the sea

PM, Sp, Bo., Th.

#### THEACEAE

*Eurya emarginata* (Thunb.) Makino

shrub or small tree

on rocks near the sea

Tw, Fj.

#### TILIACEAE

*Brownlowia argentata* Kurz

*Brownlowia riedelii* Hemsl.

shrub or small tree to 18 m tall

mangroves, tidal channels

PM, Sp, WK, Bn, Sb.

*Brownlowia tersa* (L.) Kosterm.

*Brownlowia lanceolata* Benth.

shrub to 5 m tall

mangrove

PM, Sp, WK, Sk, Bn, Th, Ph.

*Colona serratifolia* Cav.  
*Columbia serratifolia* (Cav.) DC.  
small tree to 15 m tall  
near the sea  
PM.

*Grewia piscatorum* Hance  
shrub to 3 m tall  
seashores and inland  
Tw, Hn, Fj.

*Triumfetta grandidens* Hance  
prostrate shrublet  
sandy shores  
PM, Hn, Gd, Paracel Is.

*Triumfetta procumbens* G. Forst.  
herb  
sandy beaches  
Spratly Is., Paracel Is., Pratas Is.

*Triumfetta repens* (Blume) Merr. & Rolfe  
*Triumfetta subpalmata* Sol. ex Hemsl.  
prostrate shrub  
sandy shores and waste places  
PM, Bo., Th, Cm, Vt, Ph.

#### UMBELLIFERAE

*Glehnia littoralis* Schmidt ex Miq.  
low herb  
along the seashore  
Tw, Hn, Gd, Gx, Fj.

*Peucedenum japonicum* Thunb.  
herb  
coastal  
Tw, Fj.

#### VERBENACEAE

*Callicarpa kotoensis* Hayata  
small shrub  
near the coast  
Tw.

*Clerodendrum inerme* (L.) Gaertn.

scandent shrub

sandy and muddy shores

PM, Sp, Sk, Sb, Th, Vt, Ph, Tw, Gx, Gd, Fj, Paracel Is., Pratas Is.

*Gmelina elliptica* Sm.

*Gmelina villosa* Roxb.

thorny scrambling shrub to 8 m tall

open country near the sea

PM, Bo., Ph.

*Phyla nodiflora* (L.) Greene

*Lippia nodiflora* (L.) Michx.

creeping herb

sandy places near the sea, waste ground

PM, Sp, Bo., Th, Ph, Tw, Hn, Spratly Is., Paracel Is.

*Premna serratifolia* L.

*Premna littoralis* King & Gamble

*Premna angustior* (C.B. Clarke) Ridl.

*Premna integrifolia* L. *nom. illeg.*

*Premna obtusifolia* R.Br.

*Premna corymbosa* Rottl. & Willd.

sea shore creeper or small shrub, also inland

PM, Sp, Bo., Tw, Gx, Gd, Spratly Is., Paracel Is.

*Vitex negundo* L.

shrub

usually near the coast, also cultivated

PM, Ph.

*Vitex rotundifolia* L.f.

*Vitex trifolia* L. var. *simplicifolia* Cham.

prostrate shrub to 2.5 m tall

sandy shores

PM, Ph, Bo., Th, Vt, Tw, Hn, Gx, Gd, Fj, Paracel Is.

## ZYGOPHYLLACEAE

*Tribulus cistoides* L.

decumbent herb

sandy beaches and coastal dunes

Ph, Hn, Spratly Is., Paracel Is., Pratas Is.

*Tribulus terrestris* L.

creeping herb to 1 m long

sandy shores

Vt, Tw, Hn, Gx, Gd, Fj, Paracel Is.

LILIOPSIDA

AMARYLLIDACEAE

*Crinum asiaticum* L.

*Crinum northianum* Baker

*Crinum deflexum* auct. non Ker Gawl.

herb to 2 m tall

sandy places, coastal and riverine forest

PM, Sp, Bn, Sk, Th, Cm, Vt, Ph, Tw, Hn, Gd, Pratas Is.

*Proiophys amboinensis* (L.) Herb.

*Eurycles sylvestris* Salisb. ex Schult.

bulbous herb to 30 cm tall

sandy and rocky places near the sea

PM, Th, Ph.

ARACEAE

*Aglaodorum griffithii* (Schott) Schott

*Aglaonema griffithii* Schott

creeping herb to 40 cm tall

in tidal swamps, often among nypah palms

PM, Sp, Bo., Vt.

*Cryptocoryne ciliata* (Roxb.) Schott

aquatic herb

back mangrove and on tidal mud

PM, Sp, Sk, Vt.

*Lasia spinosa* (L.) Thwaites

prickly herb

swampy forest, including those under slightly brackish conditions

PM, Sk, Bn, Sb, Vt.

ASPARAGACEAE

*Asparagus cochinchinensis* (Lour.) Merr.

erect, procumbent or climbing herb

coastal limestone, also inland

Vt, Ph, Tw, MC.

COMMELINACEAE

*Commelina attenuata* Koen. ex Vahl

tufted creeping herb

sandy shores

Sp.

*Commelina auriculata* Blume

herb

seashores, riverbanks and roadsides

Tw.

#### COLCHICACEAE

*Gloriosa superba* L.

herbaceous climber to 2 m tall

sandy beaches and dunes, waste ground inland

Th, Vt (garden escape elsewhere).

#### CYMODOCEACEAE

*Cymodocea rotundata* Ehrenb. & Hempr. ex Asch.

sea-grass

PM, Sp, Ri, Sb, Th, Ph, Hn.

*Cymodocea serrulata* (R.Br.) Asch. & Magnus

sea-grass

PM, Sp, Sb, Ph.

*Halodule pinifolia* (Miki) Hartog

sea-grass

PM, Sp, Sb, Th, Vt, Tw, Hn.

*Halodule uninervis* (Forssk.) Asch.

sea-grass

PM, Sp, Sb, Vt, Ph, Tw, Hn., Pratas Is.

*Syringodium isoetifolium* (Asch.) Dandy

sea-grass on muddy bottoms

PM, Sp, Sb, Vt, Ph, Gd, Pratas Is.

*Thalassodendron ciliatum* (Forssk.) Hartog

sea-grass to 45 cm tall

shallow water

Ph.

#### CYPERACEAE

*Bolboschoenus planiculmis* (F. Schmidt) T. Koyama

stoloniferous herb

brackish wetlands

Tw.



*Bulbostylis barbata* (Rottb.) C.B. Clarke  
herb  
sea shore  
PM, Sp, Bo., Bn, Ph, Th, Vt, Tw, Hn, Gd.

*Bulbostylis puberula* (Poir.) C.B. Clarke  
herb  
sea shore  
PM, Sp, Ri, Bn, Bo., Th.

*Carex brownii* Tuckerm.  
tufted herb to 70 cm tall  
open damp places  
Tw.

*Carex kobomugi* Ohwi  
creeping herb to 1 m long  
sand dunes  
Tw.

*Carex makinoensis* Franch.  
densely tufted herb to 80 cm tall  
open grasslands including those near the sea  
Tw.

*Carex metallica* Lév.  
tufted herb 30-70 cm tall  
grasslands near the sea  
Tw.

*Carex pumila* Thunb.  
tufted, stoloniferous herb  
sandy places near the sea  
Tw, Gd.

*Carex scabrifolia* Steud.  
short-creeping herb to 50 cm tall  
tidal estuaries and lagoons  
Tw.

*Carex wahuensis* C.A. Mey. ssp. *robusta* (Franch. & Sav.) T. Koyama  
tufted herb 20-80 cm tall  
sandy and rocky shores  
Tw.

*Cladium jamaicense* Crantz ssp. *chinense* (Nees ex Hook. & Arn.) T. Koyama  
*Cladium mariscus* (L.) Pohl ssp. *jamaicense* (Crantz) Kük.  
herb 1-3 m tall  
wet places near the coast, also on mountains  
Tw.

*Cyperus compactus* Retz.

*Mariscus microcephalus* Presl

*Mariscus compactus* (Retz.) Bold.

herb usually about 50 cm tall

swamps and other wet places up to 500 m

common near rivers and the sea

PM, Sp, Bo., Bn, Th, Ph, Tw, MC.

*Cyperus dubius* Rottb.

*Mariscus dregeanus* Kunth

*Mariscus dubius* (Rottb.) Kük.

small herb up to 50 cm

sandy beaches, also inland

PM, Sp, Ri, Th, Ph, MC.

*Cyperus javanicus* Houtt.

*Mariscus albescens* Gaudich.

*Mariscus javanicus* [non Kuntze] (Houtt.) Merr. & F.P. Metcalf

herb to about 70 cm tall

mangrove, sea shore, occasionally inland

PM, Bo., Bn, Th, Ph, Tw, Hn, Gd, Spratly Is., Paracel Is.

*Cyperus malaccensis* Lam.

herb to nearly 200 cm

mostly on tidal mud

PM, Bo., Th, Vt, Ph, Hn, Gd.

*Cyperus monophyllus* Vahl

*Cyperus malaccensis* var. *brevifolius* Boeck.

herb to 1.5 m tall

on muddy beaches

Hn, Gx, Gd, Fj.

*Cyperus procerus* Rottb.

*Pycreus puncticulatus* auct. non Nees

herb to about 125 cm tall

open damp or wet places, often near the sea

PM, Th, Vt, Gd.

*Cyperus radians* Nees & Meyen.

herb about 30 cm tall when flowering

sea shores

PM, Bo., Bn, Th, Vt, Tw, MC.

*Cyperus stoloniferus* Retz.

creeping herb to 50 cm tall

sandy shores and tidal mud

PM, Sp, Bo., Th, Ph, Tw, Hn, Fj, Gd, Paracel Is.

*Eleocharis geniculata* (L.) Roem. & Schult.

tufted herb to 30 cm tall

sometimes coastal

PM, Bo., Th, Ph, Tw, Gd.

*Fimbristylis argentea* (Rottb.) Vahl

small tufted herb to 10 cm

damp hollows near the sea

PM, Th, Cm, Vt.

*Fimbristylis cymosa* R.Br.

*Fimbristylis spathacea* Roth

densely tufted herb to 50 cm

on muddy, sandy or rocky shores

PM, Bo., Bn, Th, Ph, Tw, Hn, Gx, Gd, Fj, Spratly Is., Paracel Is.

*Fimbristylis ferruginea* (L.) Vahl

*Fimbristylis polytrichoides* auct. non R.Br.

tufted herb to 80 cm

muddy wet places near the sea

PM, Bo., Bn, Th, Ph, Hn, Gd, Fj, Paracel Is.

*Fimbristylis ovata* (Burm.f.) Kern

tufted herb to 40 cm tall

open grassland and sandy shores

Bo., Ph, Tw, Hn, Gx, Gd, Fj.

*Fimbristylis polytrichoides* (Retz.) R.Br.

herb to 30 cm tall

open wet places, usually near the sea

PM, Th, Ph.

*Fimbristylis sericea* R.Br.

herb to 30 cm tall

sandy shores

PM, Sk, Th, Vt, Tw, Hn, Gd, Fj.

*Fimbristylis sieboldii* Miq. ssp. *sieboldii*

herb to 40 cm tall

seacoasts

Th, Tw.

*Fimbristylis sieboldii* Miq. ssp. *anpinensis* (Hayata) T. Koyama

herb to 65 cm tall

seacoasts

Tw.

*Kyllinga brevifolia* Rottb.

*Cyperus brevifolius* (Rottb.) Hassk.

herb to 40 cm tall

damp grassy places to 1500 m, common near the sea

PM, Sp, Bo., Th, Ph, Tw, Hn, Gx, Gd, Paracel Is.

*Pycnus polystachyos* (Rottb.) Beauv.

*Cyperus polystachyos* Rottb.

herb to about 60 cm

damp open places to 1800 m, frequent near the sea

PM, Bo., Bn, Th, Ph, Tw, Hn, Gd, Fj, Paracel Is.

*Remirea maritima* Aubl.

*Cyperus pedunculatus* (R.Br.) Kern

*Mariscus pedunculatus* (R.Br.) T. Koyama

creeping herb to 15 cm tall

sandy beaches

PM, Sp, Bo., Th, Ph, Tw, Hn, Gd.

*Rhynchospora rugosa* (Vahl) Gale

*Rhynchospora glauca* Vahl var. *chinensis* C.B. Clarke

densely tufted herb to 75 cm tall

sandy places near the sea or mountain tops

PM, Ri, Bo., Bn, Th, Ph, Gd.

*Schoenus apogon* Roem. & Schult.

slender herb 20-40 cm tall

open wet grasslands near the sea

Tw.

*Scirpodendron ghaeri* (Gaertn.) Merr.

*Scirpodendron costatum* (Thwaites) Kurz

pandan-like plant

tidal swamps and along rivers

PM, Sk, Bn, Sb, Th, Ph.

#### DRACAENACEAE

*Dracaena breviflora* Ridl.

nearly stemless shrub

tidal mud

PM.

#### ERIOCAULACEAE

*Eriocaulon poilanei* Moldenke

stemless herb to 5 cm tall

grassy places near the sea

Vt.

FLAGELLARIACEAE

*Flagellaria indica* L.

climber 2-15 m long

common in damp forest near the sea, but also inland to 1500 m

PM, Sp, Bo., Ph, Th, Cm, Vt, Tw, Hn, Gd.

GRAMINEAE

*Acroceras munroanum* (Balansa) Henrard

*Acroceras ridleyi* (Hack. ex Ridl.) Stapf ex Ridl.

stoloniferous herb to 50 cm tall

coastal sands, moist shady places

PM, Bo., Th, Ph.

*Arundo formosana* Hack.

bamboo-like grass

mostly growing hanging on cliffs

Tw.

*Bothriochloa kwashotensis* (Hayata) Ohwi

*Capillipedium kwashotensis* (Hayata) C. Hsu

densely tufted herb

coastal regions

Tw, Ph.

*Chrysopogon aciculatus* (Retz.) Trin.

spreading herb

sandy places, common near the sea

PM, Sp, Bo., Th, Ph, Tw, Hn.

*Chrysopogon fulvus* (Spreng.) Chiov.

tufted herb

dry open places, in Malaysia restricted to island bird colonies

PM, Th.

*Chrysopogon orientalis* (Desv.) A. Camus

*Chrysopogon wightianus* (Nees ex Steud.) Thwaites

creeping herb to 80 cm tall

on limestone or coastal sand

PM, Th, Vt.

*Digitaria bicornis* (Lam.) Roem. & Schult.

tufted herb to 60 cm tall

waste places to 2000 m, sandy beaches and dunes

PM, Bo., Ph.

*Digitaria fuscescens* (Presl) Henr.  
mat-forming herb  
sandy places including beaches and dunes  
PM, Bo., Ph.

*Digitaria henryi* Rendle  
slender prostrate herb  
inland and common near the sea  
Vt, Tw, MC, Pratas Is.

*Digitaria heterantha* (Hook.f.) Merr.  
*Digitaria barbata* auct. non Willd.  
*Digitaria dispar* Henrard  
creeping herb to 80 cm tall  
locally common on sandy beaches  
PM, Sb, Th, Vt, Ph, Tw, Gx, Gd, Spratly Is.

*Digitaria marianensis* Merr.  
spreading herb to 60 cm tall  
grassy places including beaches  
Ph.

*Digitaria mollicoma* (Kunth) Henrard  
mat-forming herb to 50 cm tall  
open sites in the lowlands, sometimes coastal  
Sp, Bo., Ph, Tw.

*Eragrostis japonica* (Thunb.) Trin.  
*Eragrostis interrupta* auct. non (R.Br.) P. Beauv.  
herb 60-120 cm tall  
sand bars and beaches  
PM, Bo., Th, Vt, Ph, Tw, MC.

*Eriachne triseta* Nees ex Steud.  
*Massia triseta* (Nees ex Steud.) Balansa  
tufted herb to 80 cm tall  
dry sandy places, often near the sea  
PM, Sp, Bo., Th, Ph.

*Eriochloa procera* (Retz.) C.E. Hubb.  
*Eriochloa annulata* (Flüggé) Kunth  
herb 60-150 cm tall  
waste ground, especially near the sea  
PM, Sp, Bo., Th, Ph, Vt, Tw, Hn, MC, Paracel Is.

*Eulalia ridleyi* (Hack.) A. Camus  
creeping herb to 45 cm tall  
coastal sand dunes  
PM.

*Heteropholis cochinchinensis* (Lour.) Clayton var. *chenii* (C. Hsu) Sosef & de Koning  
*Thaumastochloa chenii* C. Hsu  
herb 15-30 cm tall  
beaches  
endemic to southernmost Tw

*Heteropogon contortus* (L.) P. Beauv. ex Roem. & Schult.  
tufted herb 25-100 cm tall  
sandy coasts and inland  
PM, Sp, Bo., Th, Vt, Ph, Tw, Hn, MC, Paracel Is.

*Imperata conferta* (J. Presl) Ohwi  
*Imperata exaltata* auct. non Brongn.  
rhizomatous herb to 200 cm tall  
open places usually near the sea  
PM, Sp, Bo., Ph.

*Imperata cylindrica* (L.) P. Beauv. var. *major* (Nees) C.E. Hubb. ex C.E. Hubb. & R.E. Vaughn  
*Imperata arundinacea* Cirillo  
rhizomatous herb about 100 cm tall  
frequent colonizer of bare ground in lowlands and mountains, common near the sea  
PM, Sp, Bo., Th, Ph, Tw, Paracel Is., Pratas Is.

*Ischaemum aureum* (Hook. & Arn.) Hack.  
herb 20-30 cm tall  
coastal regions  
Tw.

*Ischaemum muticum* L.  
long-creeping herb 15-40 cm tall, often turf-forming  
common particularly near the sea  
PM, Sp, Bo., Ph, Th, Tw.

*Ischaemum setaceum* Honda  
herb  
coastal  
Tw.

*Lepturus repens* (G. Forst.) R.Br.  
creeping herb to 50 cm tall  
coastal sands  
PM, Sp, Bo., Ph, Tw, Paracel Is., Pratas Is.

*Melinis repens* (Willd.) Zizka  
*Rhynchelytrum repens* (Willd.) C.E. Hubb.  
*Tricholaena rosea* Nees  
herb to 70 cm tall  
sandy places, waste ground, common near the sea  
PM, Sp, Bo., Ph, Tw, Gd, Paracel Is.  
Naturalized from tropical Africa.

*Mnesithea geminata* (Hack.) Ridl.

tufted herb to 60 cm tall

coastal areas

PM, Th.

*Myriostachya wightiana* (Nees ex Steud.) Hook.f.

densely tufted herb to 3 m tall

on estuarine or coastal mud

MP, Th, Vt.

*Panicum repens* L.

creeping herb to 90 cm tall

open places including sandy and muddy shores

MP, Sp, Ri, Sk, Sb, Ph, Th, Vt, Tw, Hn, Gx, Gd, Fj, Spratly Is., Paracel Is., Pratas Is.

*Paspalum vaginatum* Sw.

*Paspalum distichum* auct. non L.

stoloniferous herb 25-50 cm tall

open places near the sea, rare inland

PM, Sp, Ri, Sk, Bn, Sb, Th, Ph, Tw, Hn, Paracel Is., Pratas Is.

*Perotis indica* (L.) Kuntze

*Perotis latifolia* Aiton

tufted herb to 75 cm tall

sandy ground near the sea

PM, Bo., Th, Vt, Ph, Tw, Hn, Gd, Paracel Is.

*Perotis rara* R. Br.

herb to 40 cm tall

sandy places including beaches

Vt, Tw, MC.

*Schizachyrium sanguineum* (Retz.) Alston

*Schizachyrium semiberbe* Nees

tufted herb 50-120 cm tall

sandy places, inland and near the sea

PM, Sp, Bo., Th, Ph.

*Spartina alternifolia* Loisel.

tufted herb to 1.5 m tall

salt marshes and mudflats

Gd.

*Spinifex littoreus* (Burm.f.) Merr.

*Spinifex squarrosus* L.

stiff creeping bushy herb

sandy coasts

PM, Ph, Bo., Th, Ph, Tw, Hn, Gx, Gd, Fj.



*Sporobulus virginicus* (L.) Kunth

tufted herb to 50 cm tall

seashores

Sp, Sk, Ph, Tw, Hn, Gd, Fj, Paracel Is., Pratas Is.

*Stenotaphrum micranthum* (Desv.) C.E. Hubb.

*Stenotaphrum subulatum* Trin.

herb

top of sandy ?corraline beaches

Spratly Is., Paracel Is.

*Thuarea involuta* (G. Forst.) R.Br. ex Roem. & Schult.

*Thuarea sarmentosa* Pers.

creeping herb 5-10 cm tall

sea shores

PM, Sp, Bo., Th, Ph, Tw, Hn, Gd, Spratly Is., Paracel Is., Pratas Is.

*Zoysia matrella* (L.) Merr. var. *matrella*

*Zoysia pungens* Willd.

mat-forming herb to 35 cm tall

sandy shores above high tide line

PM, Sp, Bo., Ph, Th, Vt, Tw, Hn, Gx, Gd, Paracel Is.

*Zoysia matrella* var. *pacifica* Goudswaard

mat-forming herb to 35 cm tall

sandy shores above high tide line

Ph, Tw.

#### HYDROCHARITACEAE

*Enhalus acoroides* (L.f.) Royle

*Enhalus koenigii* Rich.

sea-grass

growing to depths of 4 m

PM, Sp, Ri, Sb, Th, Cm, Vt, Ph, Hn.

*Halophila beccarii* Asch.

sea-grass

only uncovered at extreme low tides

PM, Sp, Sk, Th, Vt, Ph, Tw, Hn, Gd.

*Halophila decipiens* Ostenfeld

sea-grass growing to depths of 85 m

Th, Sb.

*Halophila minor* (Zoll.) Hartog

*Halophila ovata* Gaud.

sea-grass

to depths of 2 m

PM, Sp, Ri, Sb, Th, Ph, Hn, Gd, Spratly Is.

*Halophila ovalis* (R.Br.) Hook.f.

*Halophila ovata* auct. non Gaudich.

sea-grass

to at least 10 m underwater

PM, Sp, Ri, Sb, Th, Vt, Ph, Tw, Hn, Gd, Paracel Is., Pratas Is.

*Halophila spinulosa* (R.Br.) Asch.

sea-grass

down to 15 m

PM, Sp, Ri, Ph.

*Najas graminea* Del.

aquatic herb

sometimes in slightly brackish water

Ph, Tw, Hn, Paracel Is.

*Thalassia hemprichii* (Ehrenb.) Asch.

sea-grass

commonly on coral sand

PM, Sp, Ri, Sb, Th, Vt, Ph, Tw, Hn, Spratly Is., Pratas Is.

#### ORCHIDACEAE

*Acriopsis liliiflora* (J. König) Ormerod

*Acriopsis javanica* Reinw. ex Blume

epiphyte

sometimes in mangroves

MP, Sp, Bo., Th, Ph, Vt.

*Aerides odorata* Lour.

lowland epiphyte

common on trees near the sea

PM, Th, Vt, Ph.

*Arachnis flosaeris* (L.) Rchb.f.

*Arachnis moschifera* Blume

scrambler on limestone rocks, or mangrove epiphyte

PM, WK, Sb, Ph, Th.

*Arachnis hookeriana* (Rchb.f.) Rchb.f.

*Arachnis alba* (Ridl.) Schltr.

scrambler

in scrub near the seashore

PM, Sp, Ri, Sk, Bn, Sb, Cm, Vt.

*Arachnis maingayi* (Hook.f.) Schltr.

scandent herb

usually near the sea

PM, Sp, Ri, Sb.

*Bulbophyllum acuminatum* (Ridl.) Ridl.

*Bulbophyllum stenophyllum* Ridl.

creeping epiphyte

on old mangrove and riverside trees

PM, Sp, Bo.

*Bulbophyllum blumei* (Lindl.) J.J.Sm.

creeping epiphyte

on mangrove and riverside trees

PM, Sp, Bo., Ph.

*Bulbophyllum botryophorum* Ridl.

creeping epiphyte

on mangrove and riverside trees

PM, Sp, Bo.

*Bulbophyllum cheiri* Lindl.

*Bulbophyllum megalanthum* Griff.

epiphyte

on trees near the sea

PM, Bo., Ph.

*Bulbophyllum concinnum* Hook.f.

epiphyte

on mangrove and riverside trees

PM, Sp, Bo., Th, Vt.

*Bulbophyllum nigropurpureum* Carr

epiphyte

on mangrove and riverside trees

PM, Sp.

*Bulbophyllum purpurascens* Teijsm. & Binnend.

*Bulbophyllum rhizophoreti* Ridl.

epiphyte

sometimes on mangrove trees

MP, Bo., Th.

*Bulbophyllum restrepia* Ridl.

epiphyte

on old mangrove and riverside trees

PM, Sp.

*Bulbophyllum striatellum* Ridl.

epiphyte

old mangrove and riverside trees

PM, Sp, Bo.

*Bulbophyllum vaginatum* (Lindl.) Rchb.f.  
epiphyte  
mangroves and inland forests  
PM, Sp, Sk, Bn, Sb, Th.

*Bulbophyllum vermiculare* Hook.f.  
creeping epiphyte  
on lowland trees including mangroves  
PM, Sp, Bo., Ph.

*Bulbophyllum vesiculosum* J.J.Sm.  
*Bulbophyllum corneri* Carr  
epiphyte  
on old mangrove trees  
collected once from Chua Chu Kang, Sp.

*Cleisostoma halophilum* (Ridl.) Garay  
*Saccolabium halophilum* Ridl.  
*Ascochilus teres* Ridl.  
*Sarcanthus halophilus* (Ridl.) J.J.Sm.  
pendulous epiphyte about 30 cm long  
on lowland trees, often near the sea  
PM, Sp, Sk, Sb.

*Cleisostoma subulatum* Blume  
*Saccolabium secundum* (Griff.) Ridl.  
*Sarcanthus subulatus* (Blume) Rchb.f.  
epiphyte to 30 cm tall  
on lowland trees, often near the sea  
PM, Sk, Sb, Th, Cm, Ph.

*Cleisostoma williamsonii* (Rchb.f.) Garay  
*Saccolabium sacculatum* (Ridl.) Ridl.  
*Sarcanthus sacculatus* Ridl.  
epiphyte about 30 cm long  
Th, Vt, Sb.

*Coelogyne mayeriana* Rchb.f.  
epiphyte about 30 cm tall  
on old trees near the sea  
PM, Bo.

*Coelogyne rochussenii* de Vriese  
epiphyte about 30 cm tall  
lowland forest, sometimes in mangroves  
PM, WK, Sk, Bn, Sb, Th, Ph.

*Cymbidium bicolor* Lindl.  
*Cymbidium pubescens* Lindl.  
epiphyte  
on exposed trees often near the sea  
PM, Sp, Sk, Sb, Cm, Vt, Ph, MC.

*Cymbidium finlaysonianum* Lindl.  
epiphyte often forming large masses  
on exposed lowland trees or coastal rocks  
PM, Sp, Sk, Sb, Th, Cm, Vt, Ph.

*Dendrobium cruentum* Rchb.f.  
epiphyte  
sometimes near the coast  
Th (endemic).

*Dendrobium crumentatum* Sw.  
epiphyte  
common on trees in the open and near the sea  
MP, Sp, Bo., Th, Vt, MC.

*Dendrobium flexile* Ridl.  
epiphyte about 12 cm long  
on old mangrove and riverside trees  
PM, Sp, Sk, Th.

*Dendrobium helvolum* J.J. Sm.  
epiphyte  
mangroves  
WK.

*Dendrobium indivisum* (Blume) Miq. var. *indivisum*  
epiphyte  
inland and mangrove forest  
PM, Sp, Sk, Sb, Th, Ph.

*Dendrobium korthalsii* J.J. Sm.  
epiphyte  
mangroves  
WK, Sg Njerakut.

*Dendrobium pensile* Ridl.  
pendulous epiphyte to 120 cm long  
on old mangrove and riverside trees  
PM, Sp, Sb.

*Dendrobium secundum* (Blume) Lindl.  
epiphyte to 1 m long  
lowland epiphyte, often on exposed trees near the sea  
PM, Th, Cm, Vt, Ph.

*Dendrobium spegidoglossum* Rchb.f.  
*Dendrobium flavidulum* Ridl. ex Hook.f.  
epiphyte about 60 cm long  
on old mangrove trees  
PM, Sp, Ri, Sb, Th.

*Dendrobium spurium* (Blume) J.J.Sm.  
*Dendrobium euphlebioides* Rchb.f. ex Lindl.  
about 30 cm long  
on limestone rocks or old mangrove trees  
PM, Ph.

*Dendrobium subulatum* (Blume) Lindl.  
epiphyte  
sometimes on mangroves  
MP, Bo., Th.

*Dendrochilum longifolium* Rchb.f.  
*Platyclinis longifolia* (Rchb.f.) Hemsl.  
creeping epiphyte  
on old mangrove trees  
PM, Bo.

*Diplocaulobium longicolle* (Lindl.) Kraenzl  
*Dendrobium longicolle* Lindl.  
epiphyte, occasionally terrestrial, to 40 cm tall  
often on old mangrove trees  
PM, Bo.

*Dipodium paludosum* (Griff.) Rchb.f.  
tufted herb to 1 m tall  
open sandy places near the sea  
PM, Sp, Th, Cm, Vt, Ph.

*Eria bractescens* Lindl.  
epiphyte about 15 cm tall  
montane forest and lowland trees near rivers or the sea  
PM, Th, Cm, Vt, Ph.

*Eria javanica* (Sw.) Blume  
epiphyte  
lowland to montane forest, sometimes in mangroves  
PM, WK, Sk, Sb, Th, Ph.

*Eria longerepens* Ridl.  
long-creeping epiphyte to 30 cm tall  
on mangrove trees  
PM, Bo.

*Eria neglecta* Ridl.  
epiphyte to 30 cm tall  
often on mangrove or riverside trees  
PM, Ri, Bo., Th.

*Eria obliqua* (Lindl.) Lindl.  
tufted epiphyte to 10 cm tall  
on mangrove and riverside trees  
PM, Bo.

*Eria ornata* (Blume) Lindl.  
epiphyte or epilith  
sometimes on coastal rocks  
MP, Bo., Th, Ph.

*Eria pubescens* (Hook.) Steud.  
*Eria albidotomentosa* (Blume) Lindl.  
epiphyte or epilith  
sometimes on coastal rocks  
MP, Th, Vt, Hn.

*Eria pudica* Ridl.  
epiphyte about 15 cm tall  
on old mangrove and riverside trees  
PM, Sp, Sb.

*Eria pulchella* Lindl.  
epiphyte  
forests, sometimes on coastal rocks  
PM, Sp, Sk, Sb, Th.

*Eria triloba* Ridl.  
epiphyte  
mangroves and lowland forest  
Sk.

*Eulophia andamanensis* Rchb.f.  
*Eulophia keithii* Ridl.  
herb  
on rocks, sometimes coastal  
Th, Cm, Vt.

*Eulophia graminea* Lindl.  
weedy herb to 80 cm tall  
open places in the lowlands, including seashores  
PM, Sp, Sk, Bn, Th, Vt, Tw, MC.

*Flickingeria comata* (Blume) A.D. Hawkes  
*Desmotrichum criniferum* Lindl.  
*Dendrobium comatum* (Blume) Lindl.  
much-branched epiphyte to 60 cm tall  
lowland forests including mangroves  
PM, ?Ph.

*Flickingeria laciniosa* (Ridl.) A.D. Hawkes

*Desmotrichum lacinosum* (Ridl.) Kraenzl.

*Dendrobium lacinosum* Ridl.

epiphyte about 30 cm long

probably on mangroves

known only from type

P. Seletar, Sp.

*Flickingeria xantholeuca* (Rchb.f.) A.D. Hawkes

*Desmotrichum lonchophyllum* Hook.f.

*Desmotrichum pallidiflorum* (Ridl.) Ridl.

*Dendrobium xantholeucum* Rchb.f.

much-branched epiphyte 15-30 cm tall

lowland trees including mangroves

PM, Sp, Ri, Bo., Th.

*Grammatophyllum speciosum* Blume

enormous epiphyte

sometimes on mangrove trees

MP, Sp, Bo., Ph, Th.

*Liparis gibbosa* Finet

*Liparis disticha* auct. non (Thouars) Lindl.

creeping epiphyte to about 20 cm tall

lowland to montane forest at 1500 m, including mangroves

PM, Th, Vt.

*Luisia antennifera* Blume

erect epiphyte

coastal forest

PM, Sk, Th, Vt.

*Luisia zollingeri* Rchb.f.

tufted herb

sometimes on coastal rocks

Bo., Th, Vt.

*Microsaccus javensis* Blume

epiphyte to 15 cm long

on lowland trees including mangroves

PM.

*Microsaccus griffithii* (C.S.P. Parish & Rchb.f.) Seidenf.

*Microsaccus brevifolius* J.J.Sm.

epiphyte to 10 cm long

on mangrove and riverside trees, also on limestone

PM, Sp, Th, Vt, Ph.

*Oberonia ciliolata* Hook.f.

epiphyte to 20 cm tall

lowlands, including mangroves and limestone, and mountains

PM.



*Oberonia marina* J.B. Comber  
*Oberonia rhizophoreti* (non Schltr.) J.J.Sm.  
tiny epiphyte barely 5 cm tall  
on riverside trees  
PM.

*Paphiopedalum bullenianum* (Rchb.f.) Pfitzer  
epiphyte or growing on leaf litter  
mangroves and inland forests  
?PM, Sk.

*Pholidota imbricata* Hook.  
herb  
on limestone rocks, sometimes coastal  
Th, Vt, MC.

*Plocoglottis lowii* Rchb.f.  
*Plocoglottis porphyrophylla* Ridl.  
herb to 100 cm or more tall  
damp lowland forest, commoner near the sea  
PM, Bo., Th.

*Podochilus similis* Blume  
epiphyte  
mangroves  
Sk.

*Pomatocalpa latifolia* (Lindl.) J.J.Sm.  
*Saccolabium latifolium* (Lindl.) Schltr.  
*Saccolabium hortense* Ridl.  
epiphyte, sometimes long-stemmed  
lowlands, including mangroves  
PM, Sp, Sk, Sb, Ph, Th.

*Pteroceras pallidum* (Blume) Holttum  
*Sarcochilus caligaris* Ridl.  
small epiphyte to 10 cm tall  
coastal forest  
PM, Sp, WK, Th.

*Pteroceras unguiculatum* (Lindl.) H.A. Peders.  
*Sarcochilus unguiculatus* Lindl.  
*Sarcochilus pallidus* auct. non (Blume) Rchb.f.  
epiphyte about 30 cm tall  
mangroves, rocky seashores, inland forest  
PM, Sb.

*Renanthera elongata* (Blume) Lindl.  
long climbing epiphyte  
lowlands often on rocks near the sea  
PM, Sp, WK, Sk, Sb, Ph, Th.

*Renantherella histrionica* (Rchb.f.) Ridl. ssp. *histrionica*

*Renanthera histrionica* Rchb.f.

epiphyte to 60 cm long, often hanging  
on old mangroves or trees and rocks in the hills  
PM, Th.

*Renantherella histrionica* (Rchb.f.) Ridl. ssp. *auyongii* (Christenson) Senghas

epiphyte  
trees near the sea  
Sk.

*Schoenorchis secundiflora* (Ridl.) J.J.Sm.

*Saccolabium secundiflorum* Ridl.

small epiphyte to 10 cm tall  
on old riverside and mangrove trees  
PM, Bo., Th.

*Taeniophyllum obtusum* Blume

*Taeniophyllum serrula* Hook.f.

tiny leafless epiphyte with flat green roots, about 2 cm tall  
exposed lowland trees including mangroves  
PM, Sp, Sk, Sb, Th, Cm, Vt.

*Thelasis carinata* Blume

epiphyte to about 30 cm tall  
mangrove, lowland and hill forest  
PM, Sk, Sb, Ph, Th.

*Thelasis pygmaea* (Griff.) Blume

*Thelasis elongata* Blume

*Thelasis triptera* Rchb.f.

epiphyte to 25 cm tall  
on old riverside and mangrove trees or inland  
PM, Th, Vt, Ph, MC.

*Thrixspermum carinatifolium* (Ridl.) Schltr.

*Dendrocolla carinatifolia* (Ridl.) Ridl.

epiphyte about 20 cm long  
on trees near the sea  
PM.

*Trichoglottis bipunctata* (C.S.P. Parich & Rchb.f.) T. Tang & F.T. Wang

*Trichoglottis misera* (Ridl.) Holttum

epiphyte  
sometimes in the mangroves  
Th.

*Trichoglottis geminata* J.J. Sm.

climbing epiphyte or on rocks near the sea  
Sb, Ph.

*Vanda hastifera* Rchb.f. var. *hastifera*  
monopodial epiphyte  
forest including mangrove  
Sk, Sb.

*Vanda lamellata* Lindl.  
forest epiphyte  
often coastal  
Sb, Ph.

PALMAE

*Calamus burkillianus* Becc. ex Ridl.  
clustering rattan climbing to 20 m  
forming thickets near the sea  
PM.

*Calamus erinaceus* (Becc.) J. Dransf.  
*Calamus aquatilis* Ridl.  
robust thicket-forming rattan  
backs of mangrove swamps, coastal sand bars  
PM, Sp, Bo., Th, Ph.

*Cocos nucifera* L.  
large feather palm to 25 m tall  
sandy shores, widely planted  
throughout.

*Nypa fruticans* Wurm  
rhizomatous rosette feather palm to 6 m tall  
gregarious in tidal reaches of estuaries  
PM, Sp, Sk, Bn, Th, Vt, Ph, Hn.

*Oncosperma tigillarium* (Jack) Ridl.  
*Oncosperma filamentosum* Blume  
20 m-tall spiny feather palm growing in many-stemmed clumps  
common near the sea  
PM, Sp, Th, Ph.

*Phoenix paludosa* Roxb.  
clumping feather palm to 6 m tall  
inland edge of mangrove forests  
PM, Th, Vt.

PANDANACEAE

*Freycinetia formosana* Hemsl.

climber to 10 m tall

near the sea

Tw

*Pandanus affinis* Kurz

*Pandanus aurantiacus* Ridl.

shrub to 5 m tall

freshwater or brackish swamps

PM, Sp, Sk.

*Pandanus dubius* Spreng. var. *dubius*

erect stout-trunked plants

rocky and sandy shores

PM, Sb, Sk, Ph.

*Pandanus epiphyticus* Martelli

large shrub, often epiphytic

lowland forests along rivers, also on rocks near the sea

PM, Sk, Bn, Sb.

*Pandanus horizontalis* St John

shrub to 1.5 m tall

beaches

PM, Vt.

*Pandanus odoratissimus* L.f.

*Pandanus fascicularis* Lam.

*Pandanus tectorius* auctt. plur. non Parkinson ex Du Roi

*Pandanus tectorius* var. *sinensis* Warb.

large prop-rooted shrub

the common seashore pandan

PM, Sp, Sk, Sb, Th, Cm, Vt, Ph, Tw, Hn, Gd, Spratly Is., Paracel Is., Pratas Is.

*Pandanus polycephalus* Lam.

shrub

beaches

PM.

*Pandanus rostratus* Martelli

*Pandanus corneri* Kaneh.

stems to about 2 m

along streams near the sea

PM, Sp.

PHORMIACEAE

*Dianella ensifolia* (L.) DC.  
*Dianella parviflora* Ridl.  
tufted herb to 1 m tall  
sea shores and open forest to 3000 m  
PM, Sp, Bo., Th, Vt, Tw, Hn.

POSIDONIACEAE

*Posidonia australis* Hook.f.  
sea grass  
Hn.

POTAMOGETONACEAE

*Ruppia maritima* L.  
submerged herb  
brackish water  
Tw, Hn, Gx, Gd, Fj, Pratas Is.

RESTIONACEAE

*Leptocarpus disjunctus* Mast.  
rhizomatous sedge-like herb to 1 m tall  
sandy places, often near the sea  
PM, Th, Cm, Vt, Hn, Gx.

SMILACACEAE

*Heterosmilax borneensis* A. DC.  
*Heterosmilax indica* auct. non A. DC.  
slender vine to 3 m long  
thickets near the sea  
Sp.

STEMONACEAE

*Stemona curtisii* Hook.f.  
*Stemona tuberosa* auct. non Lour.  
vine to 3 m long  
thickets near the sea, sometimes on limestone  
PM.

TACCACEAE

*Tacca leontopetaloides* (L.) Kuntze  
*Tacca pinnatifida* J.R. Forst. & G. Forst.  
*Tacca chantrieri* auct. non André  
tuberous herb to nearly 2 m tall  
sandy places near the sea  
PM, Sp, Bo., Th, Tw.

ZANNICHELIAEAE

*Zannichelia palustris* L.  
submerged herb  
brackish and freshwater  
Tw.

ZINGIBERACEAE

*Alpinia aquatica* (Retz.) Roscoe  
*Alpinia melanocarpa* (Teijsm. & Binn.) Ridl.  
*Languas melanocarpa* (Teijsm. & Binn.) Burkill  
herb to 2 m tall  
locally common near the sea  
PM, Bo.

ZOSTERACEAE

*Zostera japonica* Asch. & Graebner  
sea-grass  
Vt, Tw, Gd.

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