

CHECKLIST OF PLANT SPECIES ON THE PEUCANG ISLAND
(UJUNG KULON NATURE RESERVE, WEST JAVA)

KUSWATA KARTAWINATA
Herbarium Bogoriense-LBN, Bogor
& A. APANDI
Institut Teknologi Bandung, Bandung

The Peucang Island is situated just off westernmost tip of West Java and is a portion of the Ujung Kulon Nature Reserve. It covers a total area of 450 hectares, comprising the level land and a ridge in the central portion with the highest point of about 30 m above sea level.

Geologically this island is composed of Tertiary materials and alluvial materials on southern and eastern coastal areas (Verbeek and Fennema 1896). From the southeastern shore towards the hills, there are three types of soil, i.e. the sandy regosols, the tuffaceous over sandy regosols and the latosolized tuffaceous regosols over podsolized grumusols (Soerianegara 1969).

The vegetation of this island has been described by Kartawinata (1965) and the Participants of BIOTROP Training Course in Forest Ecology (1972). Two major community types, which are not sharply demarcated, can be recognized, i.e.

- a. **Lowland community type which occurs on the flat portion of the island.** Species that can be considered characteristics to this community are *Ardisia humilis*, *Casearia flavovirens*, *Chisocheton pentandrum*, *Ficus variegata*, *Hernandiapeltata* and *Pterospermum javanicum*.
- b. **Upland community type** that occurs on the hilly portion of the island. Common species whose occurrence is restricted to this community and can be considered as characteristic species are *Arenga obtusifolia*, *Beilschmiedia javanica*, *Diospyros macrophylla*, *Galearia filiformis*, *Ganophyllum falcatum*, *Garcinia dulcis*, *Hydnocarpus heterophylla*, *Lagerstroemia ovalifolia*, *Semecarpus heterophylla*, *Trivalvaria macrophylla* and *Xanthophyllum excelsum*.

In addition, on the southwest corner of the island there is also a fresh water swamp forest whose species composition as yet has not been thoroughly investigated.

The following is a checklist of species occurring on the island. This is based on the herbarium specimens that have been collected mainly since 1958

and are now deposited at the Herbarium Bogoriense. In this list the families and species are arranged alphabetically. The nomenclature follows Backer and Bakhuizen van den Brink (1963 - 1968) and for ferns Backer and Posthumus (1939). Figures following the specific names refer to the tree numbers in the main transect that was used in the vegetation study.

ACANTHACEAE

Gendarussa vulgaris Nees

AMARYLLIDACEAE

Crinum asiaticum L.

ANACARDIACEAE

Buchanania arborescens (Bl.) Bl. - 5.

Dracontomelon puberulum Miq. - 161.

Mangifera longipes Griff.

Mangifera similis Bl. - 94.

Mangifera sp. - 169.

Semecarpus heterophylla Bl. - 111.

Spondias pinnata (L.f.) Kurz - 158.

ANNONACEAE

Artabotrys suaveolens Bl.

Desmos chinensis Lour.

Mitrepheora javanica Backer.

Oropehea beccarii Scheff.

Platymitra macrocarpa Boerl. - 173.

Polyalthia lateriflora (Bl.) King- 138, 182, 193.

Polyalthia sp. - 46, 146, 190.

Saccopetalum horsfieldii Benn.

Trivalvaria macrophylla (Bl.) Miq.

Uvaria concava T. & B.

Uvaria javanica Thumb.

Uvaria purpurea Bl.

APOCYNACEAE

Alstonia scholdris (L.) R. Br. - 47.

Anodendron paniculatum DC.

Cerbera manghas L. - 44.

Cerbera odollam Gaertn. - 234.

Ichnocarpus fntescens (L.) R. Br.

Kopsia arborea Bl.

Kopsia pnmiformis Rchb. f. & Zoll. ex Bakh. f.

- 52.

- Ochrosia parviflora* Hensl.
Parsonsia cumingiana A.DC.
Parsonsia javanica Bl.
Rauvolfia reflexa T. & B.
Rauvolfia samarensis Merr. - 207.
Rauvolfia sp. - 25.
Rynchodia verrucosa (Bl.) Woods,
- AQUIFOLIACEAE**
Ilex cymosa Bl.
- ARACEAE**
Aglaonema simplex Bl.
- ARALIACEAE**
Schefflera elliptica (Bl.) Harms.
- ASCLEPIADACEAE**
Dischidia benghalensis Colebr.
 -- //oya sp.
Mandenia stenocentra Bakh. f.
Sarcolobus globosus Wall.
- BIGNONIACEAE**
Oroxylum indicum (L.) Vent. 217.
Radermachera gigantea (Bl.) Miq. - 4.
- BOMBACACEAE**
Bombax vaeletonii Hochr. - 87, 90.
- BORAGINACEAE**
Burmania championii Thw.
- BURSERACEAE**
Canarium denticulatum Bl. - 58, 223.
Canarium hirsutum Wild. - 284.
Canarium sp. - 245.
Santiria sp. - 81.
- CELASTRACEAE**
Euonymus javanicus Bl. - 271.
Lophopetalum sp. - 211.
Siphonodon celastrineus Griff. - 41, 65.
- CHLORANTHACEAE**
Chlaranthus elatior R. Br. ex. Link.
- COMBRETACEAE**
Lumnitzera littorea (Jack) Voigt
Terminalia catappa L. - 167.
Terminalia microcarpa Decne - 133, 162, 198.
Terminalia sp. - 235.
- COMPOSITAE**
Mikania cordata (Burm. f.) B.L. Robinson.
- CONNARACEAE**
Connarus monocarpus L. ssp. *malayensis* Leenh.
Connarus paniculatus Roxb.
Connarus semidecandrus Jack.
- CONVOLVULACEAE**
Ipomoea illustris (Clarke) Plain
Ipomoea pes-caprae (L.) R. Br.
- CORNACEAE**
Alangium longiflorum Merr.
Alangium salvifolium (L.f.) Wang ssp. *hexapetalum* Wang.
- CYCADACEAE**
Cycas rumphii Miq. - 258.
- CYPERACEAE**
Fimbristylis cymosa R. Br.
- DATISCAEAE**
Tetrameles nudiflora R. Br. ex. Benn.
- DILLENIACEAE**
Dillenia excelsa (Jack) Gilg.
Dillenia scandens (L.) Merr.
Dillenia sp.
- EBENACEAE**
Diospyros cauliflora Bl. - 59.
Diospyros eburnia Bakh.
Diospyros hermaphroditica (Zoll.) Bakh.
 - - 121, 248.
Diospyros maerophylla Bl. - 128.
Diospyros malabarica (Desr.) Kostel.
Diospyros maritima Bl.
Diospyros polyalthioides Korth. ex. Hiern. - 181.
Diospyros sp. - 191, 226.
- ELAEOCARPACEAE**
Elaeocarpus obtusus Bl. - 212.
Elaeocarpus sp.
Sloanea sp. - 73.
- ERYTHROXYLACEAE**
Erythroxylum qneatum (miq.) Kurtz.
- EUPHORBIACEAE**
Alchomea javanensis (Bl.) M.A.
Alchomea rugosa (Lour.) M.A. - 289.
Antidesma bunius (L.) Spreng. - 18, 155, 186.
Antidesma montanum Bl.
Aporosa aurita (Tull.) Miq. - 147.
Baccaurea javanica (Bl.) M.A.
Baccaurea sp. - 246.
Bischofia javanica Bl. - 8
Bridelia minutiflora Hook. f.
Cleidion javanicum Bl.
Cleidion spiciflorum (Burm. f.) Merr.
Croton argyratus Bl. - 106.
Drypetes longifolia (Bl.) Pax. & Hoffm.
Drypetes sp. - 36A, 149.
Excoecaria agallocha L.
Galearia filiformis (Bl.) Pax. - 143, 202.
Glochidion philippicum (Cav.) C.B. Robinson.
Glochidion rubrum Bl.
Glochidion sp. - 20.

- Koilodepas hantamense* Hassk.
Macaranga tanarius (L.) M.A.
Mallotus dispar (Bl.) M.A.
Mallotus floribundus (Bl.) M.A.
Mallotiis moritzianus M.A.
Mallotus tiliaefolius (Bl.) M.A. - 129.
Margaritaria indica (Dal.) G.L. Webster - 50,
 158, 209.
Suregada glomerulata (Bl.) Baill. - 40.
Trigonostemon ovatifolius J.J.S.

FLACOURTIACEAE

- Casearia flavovirens* Bl. - 175.
Casearia grewiaefolia Vent. - 15, 282.
Casearia hosei Merr. - 157.
Flacourtia rukam Z. & M. - 104.
Ryparosa javanica (Bl.) Kurz ex K. & V. - 69.
Scolopia spinosa (Roxb.) Warb. - 22, 113^ 283.

FLAGELLARIACEAE

- Flagellaria indica* L.

GNETACEAE

- Gnetum gnemon* L. - 36.
Gnetum cuspidatum Bl.

GOODENIACEAE

- Scaevola taccada* (Gaertn.) Roxb.

GRAMINEAE

- Axonopus compressus* (Sw.) Beauv.
Brachiaria lanceata Ohwi
Ghryssopogon aciculatus (Retz.) Trin.
Cynodon dactylon (L.) Pers.
Eragrotis tenella (L.) Beauv. ex R. & S.
Ischaemum muticum L.
Sporobolus diander (Retz.) Beauv.
Tiliurea involuta (G. Forst) R.Br. ex R. & S.

GUTIFERAE

- Calophyllum inphyttum* L. - 1
Calophyllum sp. - 10.
Cratoxylum formosum (Jack) Dyer - 35, 115,
 125.
Cratoxylum sumatranum (Jack) Bl.
Garcinia celebica L. - 84.
Garcinia parvifolia (Miq.) Miq.
Garcinia dulcis (Roxb.) Kurz - 19.
Garcinia sp. - 89, 254.

HERNANDIACEAE

- Hernandia peltata* Meissn.

HIPPOCRATEACEAE

- Hippocratea* sp.
Loeseneriella pauciflora (DC.) A.C. Smith
Salacia chinensis (L.) Ding Hou
Salacia sp.

HYDROCHAJUTACEAE

- Ottelia alismoides* (L.) Pers.

HYMENOPHYLLACEAE

- Hymenophyllum* sp.

ICACINACEAE:-

- Gomphandra* sp.
Nothapodytes montana Bl.
Stemonurus secundiflorus Bl. - 177

LAURACEAE

- Actinodaphne* sp.
Beilschmiedia gemmiflora (Bl.) Kosterm.
Beilschmiedia roxburghiana Ness - 154.
Cassytha filiformis L.
Cinnamomum timers Reinw. ex Bl. - 86.
Cryptocarya ferrea Bl. - 23.
Cryptocarya mentek Bl. ex Nees
Cryptocarya nitens K. & V. - 21, 31
Dehaasia caesia Bl. - 102.
Litsea glutinosa (Lour.) C.B. Rob.
Litsea velutina (Bl.) Boerl. - 199.
Litsea sp. - 139.
Nothaphoebe umbelliflora Bl. - 188.

LECYTHIDACEAE

- Barringtonia asiatica* Kurz.
Planchonia valida (Bl.) Bl. - 70.

LEGUMINOSAE

- Adenanthera microsperma* T. & B. - 215.
Canavalia cathartica Thon.
Cassia javanica L. - 114.
Cynometra ramiflora Lindl. - 256.
Dalbergia pinnata (Lour.) Prain.
Desmodium umbellatum (L.) D.C.
Entanda phaseoloides Merr.
Intsia bijuga (Colebr.) O.K. - 64
Parkia roxburghii G. Don.
Peltophorum pterocarpum (D.C.) Back. - 38.
Pongamia pinnata (L.) Pierre- 187.
Sophora tomentosa L.
Spatholobus ferrugineus (Zoll.) Bth.

LOGANIACEAE

- Fagraea ceilanica* Thunb.

LORANTHACEAE

- Dendrophthoe pentandra* (L.) Miq.

LYTHRACEAE

- Lagerstroemia flos-reginae* Retz,
Lagerstroemia ovalifolia T. & B. -39, 48, 206
Pemphis acidula J.R. & C. Forst.

MALPHIGIACEAE

- Hiptage benghalensis* (L.) Kurz.

MALVACEAE

- Hibiscus tiliaceus* L. -232.

Tjiespesia populnea (L.) Soland, ex Correa.

MELASTOMATACEAE

Memecylon edule Roxb. var. *ovatum* (J.E. Smith) Clarke - 150

MELIACEAE

- Aglaia arengtea* Bl. -11
Aglaia cauliflora' Kds. - 144
Aglaia elaeagnoides (A. Juss.) Bth. -251.
Aglaia elliptica Bl. - 99.
Aglaia heptandra K. & V. -98.
Aglaia latifolia Miq. var. *teysmanni* K. & V.
Aglaia odoratissima Bl. var. *pauciflora* K. & V.
Aglaia palembanica Miq. -74.
Aglaia sp. -7, 30, 79, 96, 108, 118, 240.
Amoora sp. -6
Chisocheton microcarpus K. & V. -213.
Chisocheton pentandrus (Blanco) Men. -13.
Dysoxylum caulostachyum Miq. 51.
Dysoxylum arborescens (Bl.) Miq. 141.
Dysoxylum sp. -103, 214.
Lansium domesticum Corr. -205.
Sandoricum koetjape (Burm. f.) Merr. -137
Toona sureni (Bl.) Merr. -75
Vavaea bantamensis (K. & V.) Kds. & Merr. -57.

MF.NISPERMACEAE

Pycnarrhena cauliflora (Miers) Diels.
Tinomisium phytocrenoides Kurz.

MORACEAE

- Antiaris* cf. *toxicaria* (Pers.) Lesch - 148.
Artocarpus elasticus Reinw. ex Bl. -71.
Ficus altissima Bl.
Ficus annulata Bl. var. *valida*(Bl.) King.
Ficus callophylla Bl.
Ficus callosa Wild. -166.
Ficus deltoidea Jack.
Ficus hispida L.f.
Ficus magnoliaefolia Bl. -61
Ficus microcarpa L.f. -252.
Ficus inrolucrata Bl. -56.
Ficus pubinervis Bl. -2.
Ficus septica Burm. f. -60.
Ficus stupenda Miq.
Ficus superba Miq.
Ficus variegata Bl. -145..
Ficus virens W. Ait. var. *glabella* (Bl.) Corner -66.
Ficus sp. -26.
Parartocarpus sp. -160, 200.
Poikilospermum suaveolens (Bl.) Merr.
Strebhts asper Lour. -85

Streblus spinosus (Bl.) Corner.

MYRISTICACEAE

- Horsfieldia canarioides* Warb. -203.
Horsfieldia irya (Gaertn.) Warb.
Horsfieldia macrocoma Warb. -205, 241.
Knema cinerea (Poir.) Warb. var. *sumatrana* (Miq.) Sinclair -100.
Myristica guatterifolia DC. -14.
Myristica elliptica Wall. -196.
Myristica sp. -244.

MYRSINACEAE

- Ardisia humilis* Vahl. -16.
Ardisia javanica DC.
Ardisia lanceolata Roxb.

MYRTACEAE

- Acmena acuminatissima* (Bl.) Merr. & Perry -238.
Eugenia pseudosubtilis King.
Eugenia sp. -62, 112, 119, 120, 183, 204, 220.
Rhodamnia cinerea Jack.
Syzygium littorale (Bl.) Amsh.
Syzygium polyanthum (Wight) Walp.
Syzygium pyriformum (Bl.) DC. -9, 109.
Syzygium zollingerianum (Miq.) Amsh. -45, 269.

NAJADACEAE

Najas indica (Willd.) Cham.

NYCTAGINACEAE

Pisonia umbelliflora (J.R. & G.Forst.) Seem. -77, 275.

OLACACEAE

- Olax imbricata* Roxb.
Scorodacarpus borneensis Becc.
Strombosia javanica Bl. -107, 176.

OLEACEAE

- Linociera montana* (Bl.) DC.
Myxopyrum nervosum Bl.

ORCHIDACEAE

- Aerides odorata* Lour.
Bulbophyllum bahlianum Schl.
Calanthe pulchra (Bl.) Lindl.
Dendrobium conspicuum Bahk. f.
Dendrobium indivisum (Bl.) Miq.
Phalaenopsis sp.

OXALIDACEAE

Averrhoa bilimbi L. -37

PALMAE

- Areca catechu* L. -179.
Arenga obtusifolia Bl. ex Mart. -116.
Corypha utan Lamk.
Daemonoropa melanochaeta Bl.

- Licuala spinosa* Thunb.
Oncosperma tigillaria (Jack) Ridl.
- PANDANACEAE**
Pandanus tectorius Sol. ex Park.
- PITTIOSPORACEAE**
Pittosporum ferrugineum W. Ait.
- POLYGALACEAE**
Xanthophyllum excelsum (Bl.) Miq. -76.
Xanthophyllum sp. -91, 208, 221.
- POLYPODIACEAE**
Adiantum philippense L.
Antrophyum reticulatum Kaulf.
Asplenium adiantoides C. Chr.
Davalia denticulata Mett.
Davalia solida Sw.
Humata pectinata Desv.
Pyrosia adnaceus Farw.
Pyrosia stigmosa (Sw.) Desv.
Stenochlaena palustris Bedd.
Vittaria elongata Sw.
- RHIZOPHORACEAE**
Bruguiera gymnorrhiza (L.) Lamk. -228.
Camilla brachiata (Lour.) Men. -83.
CaraWw sp. -130.
- ROSACEAE**
Parinari corymbosum (Bl.) Miq. -92, 184.
Parinari sumatranum (Jack) Bth. -153.
- RUBIACEAE**
Anthocephalus chinensis (Lamk.) Rich. & Walp. -159.
Canthium dicoccum (Gaertn.) T. & B. -156, 239.
Guettarda speciosa L. -170.
Hydnophytium sp.
Hymenodactylon excelsum (Roxb.) Wall.
Hypobathrum frutescens Bl. -29, 101
Hypobathrum microcarpum (Bl.) Bakh. f. -189.
Ixora grandifolia Z. & M.
Ixora paludosa (Bl.) Kurz.
Ixora umbellata Val.
Lerchea longicauda L.
Nauclea coadunata J.E. Smith
Neonauclea calycina (Bartl ex DC.) Merr. -88.
Neonauclea sp. -164.
- RUTACEAE**
Glycosmis cochinchinensis Pierre ex Engl.
Glycosmis elongata Bakh. f.
Glycosmis pentaphylla (Retz.) Corr.
Luvunga sarmentosa (Bl.) Swingle -123.
- Zanthoxylum rhetza* (Roxb.) DC.
- SAPINDACEAE**
Allophyllus cobbe (L.) Raeusch.
Allophyllus sp.
Aphania montana Bl. -28, 185.
Ganophyllum falcatum Bl.
Harpulia cupanoides Roxb.
Pometia pinnata J.R. & G. Forst. -247.
- SAPOTACEAE**
Madhuca macrophylla (Hassk.) H.J. Lam -68, 140, 224.
Madhuca sp. -178.
Planchonella duclitan (Blanco) Bakh. f. -55.
Planchonella obovata (R. Br.) Pierre -257).
Planchonella sp. -49.
- SIMARUBACEAE**
Ailanthus integrifolia Lamk.
Picrasma javanica Bl. -53.
- SMILACACEAE**
Smilax sp.
- STERCULIACEAE**
Firmiana malayana Kosterm. -54.
Heritiera javanica (Bl.) Kosterm.
Heritiera littoralis Dryand ex W. Ait. -243.
Heritiera percoriacea Kosterm.
Kleinhovia hospita L. -165.
Pterocymbium tinctorium (Blanco) Merr. var. *javanicum* (R. Br.) Kosterm. -80.
Pterospermum acerifolium Willd.
Pterospermum diversifolium Bl. -24.
Pterospermum javanicum Jungh. -12.
Pterygota horsfieldii (R. Br.) Kosterm. -72.
Sterculia foetida L. -233.
Sterculia cordata Bl. -142.
Sterculia macrophylla Vent. -78, 151.
Sterculia urceolata J.E. Smith -32, 127, 276.
- SYMPLOCACEAE**
Symplocos brandissi K. & V. -126.
- THYMELAEACEAE**
Gonystylus macrophyllus (Miq.) Airy Shaw.
- ULMACEAE**
Celtis sp. -97.
- VERBENACEAE**
<Clerodendrum sp. -197.
Premna obtusifolia R. Br.
Vitex glabrata R. Br. -17, 42.
Vitex negundo L.
Vitex trifolia L. -192
Vitex quinata (Lour.) F.N. Will.
- VIOLACEAE**
Rinorea lanceolata (Wall.) O. Kuntze.

VITACEAE

- Cissus discolor* Bl.
Leea aequata L.
Leea indica (Burm. f.) Merr.
Leea sambucina (L.) Willd.
Cayratia trifolia (L.) Domin.

REFERENCES.

- BACKER, C.A. & POSTHUMUS, O. (1939). *Varenflora voor Java*. 'sLands Plantentuin, Bogor.
- BACKER, C.A. & BAKHUIZEN VAN DEN BRINK Jr., R.C. (1963 - 1968). *Flora of Java* 1-3. Noordhoff, Groningen.
- PARTICIPANTS OF BIOTROP TRAINING COURSE IN FOREST ECOLOGY. (1972). *Quantitative vegetational study of a tropical rainforest in the Peucang Island, Ujung Kulon Nature Reserve. Technical Report - Doc. Tr. F./72/041, BIOTROP, Bogor.*
- KARTAWINATA, E. K. (1965). Notes on the vegetation of the Peucang Island (S.W. Java). *Proc. Symp. Ecol. Res. Humid Trop. Veg. Kuchings 1963*. UNESCO, Paris, pp : 26 - 28.
- SOENARKO, SOEJATMI. (1971). Rumput-rumput di Pulau Peutjang (Udjung Kulon). *Berita Biologi* (3) : 8- 11.
- SOERIANEGARA, I. (1968 - 1969). Soils of Peutjang Island, Southwest Java. *Geoderma* 2 : 298 - 308.
- VERBEEK, R.D.M. & FENNEMA, R. (1896). *Description geologique de Java et Madoura* 2.