PLATES

IN ILLUSTRATION OF

A HAND-BOOK

TO THE

FLORA OF CEYLON.

BY

HENRY TRIMEN, M.B. (LOND.), F.R.S.

PUBLISHED UNDER THE AUTHORITY OF THE GOVERNMENT OF CEYLON.

Plates I.—XXV.

LONDON:
DULAU AND CO., 37 SOHO SQUARE.
1893.
HAND-BOOK to the FLORA of CEYLON.

EXPLANATION OF THE PLATES.
(The sign ✗ indicates that the figure is more or less enlarged.)

PLATE I.
1. Acrotrema lyratum, Hk. f. A plant in flower. 2-8. A. uniflorum, Hk., var. bullatum, Hk. f. and Th. 2, bracts and pedicel. ✗ 3, flower with petals removed. ✗ 4, flower seen from above. ✗ 5, group of stamens. ✗ 6, carpels. ✗ 7, the same, opened. ✗ 8, ovules. ✗ (Vol. i. pp. 7 and 9.)

PLATE II.
Schumacheria angustifolia, Hk. f. and Th. Branch with flowers. 1, stamens and carpels. ✗ 2, group of stamens. ✗ 3, anther. ✗ 4, ovary with ovule. ✗ (Vol. i. p. 11.)

PLATE III.
Wormia triquetra, Redh. Twig with flowers. 1, buds. ✗ 2, stamen. ✗ 3, top of anther. ✗ 4, carpels. ✗ 5, transverse section of same. ✗ 6, vertical section of carpel. ✗ 7, ovule. ✗ 8, one ovule. ✗ 9, 10, fruit, with the persistent sepals opened out. ✗ 11, 12, ripe carpels opened, showing ripe and abortive seed. ✗ 13, seed. ✗ 14, section of the same. ✗ (Vol. i. p. 11.)

PLATE IV.
Limacia cuspidata, Hk. f. and Th. A.—Male plant in flower. ✗ 1, under, and 2, upper view of flower. ✗ 3, stamens. ✗ B.—Female plant in fruit. ✗ 4, ripe carpels. ✗ 5, endocarp. ✗ 6, section of the same showing seed. (Vol. i. p. 42.)

PLATE V.
Alsodela virgata, Hk. f. and Th. ✗ 1, branch in flower. ✗ 2, stipule. ✗ 3, flower. ✗ 4, the same opened. ✗ 5, sepal. ✗ 6, petal. ✗ 7, outer, and ✗ 8, inner view of stamens. ✗ 9, ovary. ✗ 10, ovule. ✗ 11, branch with fruit. ✗ 12, Capsule open. (Vol. i. p. 69.)

PLATE VI.
Erythrospermum phytolaccoides, Gardn. Branch in flower. ✗ 1, a flower. ✗ 2, petal. ✗ 3, stamen. ✗ 4, transverse section of ovary. ✗ 5 and 6, ripe fruit. ✗ 7, seed. ✗ 8, section of same. ✗ (Vol. i. p. 72.)

PLATE VII.
Aderia gardneri, Clos. ✗ 1, twig of male tree with flowers. ✗ 2, male flower. ✗ 3, stamen. ✗ 4, abortive pistil of male flower. ✗ 5, twig of female tree with flowers and fruit. ✗ 6, female flower. ✗ 7, The same, with pistil removed to show disk. ✗ 8, transverse section of ovary. ✗ 9, ripe fruit. ✗ 10, transverse section of same. (Vol. i. p. 74.)

PLATE VIII.
Trichadenia zeylanica, Thw. ✗ 1, twig of male tree with flowers. ✗ 2, bud. ✗ 3, male flower. ✗ 4, petal of same. ✗ 5, vertical section of petal. ✗ 6, stamens. ✗ 7, twig of female tree with flowers. ✗ 8, buds. ✗ 9, female flower. ✗ 10, pistil. ✗ 11, vertical, and ✗ 12, transverse section of ovary. ✗ 13, fruit. ✗ 14, same, with half of pericarp removed to show seed. (Vol. i. p. 75.)

PLATE IX.
Adinandra lasiopetalala, Chois. ✗ 1, a twig with flowers. ✗ 2, stamens. ✗ 3, anthers. ✗ 4, pistil. ✗ 5, vertical, and ✗ 6, transverse section of ovary. ✗ 7, placenta with ovules. ✗ 8, ovules. ✗ 9, fruit with persistent sepals. ✗ 10, same with sep. removed. ✗ 11, transverse section of fruit. ✗ 12, seeds, one ✗ (Vol. i. p. 105.)

PLATE X.
Dipterocarpus zeylanicus, Thw. ✗ 1, a twig with flowers. ✗ 2, calyx. ✗ 3, stamens. ✗ 4, pistil. ✗ 5, vertical, and ✗ 6, transverse section of ovary. ✗ 7, ripe fruit in persistent calyx. ✗ 8, one of the smaller lobes of persistent calyx. ✗ 9, ripe fruit with the calyx removed. ✗ 10, vertical section of same. (Vol. i. p. 114.)

PLATE XI.
Doona congestiflora, Thw. Branch with flowers. ✗ 1, Stamens. ✗ 2, same, more enlarged. ✗ 3, vertical, and ✗ 4, transverse section of ovary. ✗ 5, ripe fruit. (Vol. i. p. 122.)
PLATE XII.
Scaphium racemosum, Trim. 1, a twig with flower-buds. 2, ripe fruit in enlarged sepals. 3, fruit with sep. removed. (Vol. i. p. 126.)

PLATE XIII.
Vatica obtusa, Trim. A twig with flowers. 1, calyx x 2, petal x 3, 4, 5, stamens x 6, fruit. 7, the same in germination. 8, a seedling. (Vol. i. p. 126.)

PLATE XIV.
Balanocarpus zeylanicus, Trim. A twig with flower-buds. 1, leaf from flowerless branch. 2 and 3, ripe fruit. 4, persistent sepals seen from beneath. 5, embryo. 6, larger, and 7, smaller cotyledon of embryo. 8 and 9, embryo showing the radicle and cotyledons. x (Vol. i. p. 130.)

PLATE XV.
Selmonoporus affinis, Thw. A branch with flowers. 1, stamen x 2, pistil x 3, transverse section of ovary. x 4, fruit with the seed germinating within it. 5, germinating embryo free from fruit 6-11, S. rigidus, Thw. 6, bud x 7, stamens in situ x 8, six stamens seen from within x 9, pistil x 10, vertical, and 11, transverse section of ovary. (Vol. i. p. 134.)

PLATE XVI.
Ancistrocladus Vahl, Arth. 1, portion of a branch with flowers. 2, a flower x 3, corolla and stamens x 4, calyx and pistil x 5, stamens x 6, a cluster of fruit. 7, vertical section through fruit. 8, seed x 9 and 10, section through seed, showing embryo x 11, embryo separated x 12, a seedling. 13, extremity of a young shoot. (Vol. i. p. 139.)

PLATE XVII.
Hibiscus angulosus, Mast. var. grandiflorus, Thw. 1, upper part of plant with flowers. 2, leaf from lower part of stem 3, calyx. 4, petal. 5, capsules and persistent bracteoles. 6, seed. (Vol. i. p. 156.)

PLATE XVIII.
Grewia populifolia, J. et. A. var. floribunda. Thw. 1, a branch with flowers. 2, inner, and 3, outer view of petals x 4, a branch with fruit. 5, transverse section of one half-fruit. 6 and 7, stones of fruit. 8, section of a stone. (Vol. i. p. 178.)

PLATE XIX.
Triumfetta glare, Rottl. 1, branch with flowers. 2, stem with leaves. 3, calyx x 4, sepal x 5, fruit. 6, transverse section of fruit x 7, hairs from under surface of leaf x. (Vol. i. p. 180.)

PLATE XX.
Eleocarpus serratus, L. 1, a branch with flowers. 2 and 3, flowers. 4, petal x 5, calyx and stamens x 6, pistil, disk and one stamen x 7, ripe fruit. 8, stone of fruit. 9, transverse section of same. (Vol. i. p. 184.)

PLATE XXI.
Biphytum intermedium, Wight. 1, a branch with flowers. 2, leaflets. 3, leaflet x 4, capsule. 5, same, open. 6, seed in axil x 7, seed free from axil x. (Vol. i. p. 199.)

PLATE XXII.
Murraya Glenii, Thw. 1, a branch with flowers. 2, stamens. 3, pistil. 4, fruit. 5, same seen from above. 6, transverse section of same. 7, seed. (Vol. i. p. 220.)

PLATE XXIII.
Cavarium brunnneum, Bedd. 1, branch of a female tree with flowers and fruit. 2, flower x 3, vertical section of same. x 4, same with pistil removed x 5, stamens x 6, vertical, and 7, transverse section of ovary x 8, ovule x 9, ripe fruit. 10, vertical, and 11, transverse section of fruit. 12, seed. 13, embryo. (Vol. i. p. 238.)

PLATE XXIV.
Pseudocarapa Champion, Hemsl. 1, a branch with flowers. 2, flower x 3, staminal-tube laid open x 4, anthers x 5, calyx and pistil x 6, vertical, and 7, transverse section of ovary x 8, nearly ripe fruit. 9, section of seed. 10, ripe fruit. 11, 12, seeds. (Vol. i. p. 248.)

PLATE XXV.
Gleirnea zeylanica, Hk. f. 1, Branch of a male tree with flowers. 2, a bud x 3, a flower. (Vol. i. p. 305.)
ACROTREMA LYRATUM, Huf
2-8 A uniflorum Hf, turkullatum
SCHUMACHEHIA ANGUSTIFOLIA, Hk. f. & Thw
ERYTHROSPERMUM PHYTOLACCOIDES, Gardn.
ADINANDRA LASIOPETALA, bois.
DIPTEROCARPUS ZEYLANICUS, Thw.
DOONA CONGESTIFLORA, Thur.
Vatica obscura Trun.
BALANOCARPUS ZEYLANICUS, Trin.
STELEOCOPORUS AFFINIS, Thun.
ELAOCARPUS SERRATUS L.
BIOPHYTUM INTERMEDIATE, Wight

W. DeAhris del R. Morgan fta.
PSEUDOCARAPA CHAMPIONII, Herrsl.
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Plates XXVI.—L.

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1894.
EXPLANATION OF THE PLATES.

(The sign x indicates that the figure is more or less enlarged.)

PLATE XXVI.

Crotalaria Walkeri, Arn. 1, branch with flower. 2, pods. 3, same opened to show seeds. (Vol. ii. p. 16.)

PLATE XXVII.

Tephrosia maxima, Pers. 1, branch with flowers. 2, pods. (Vol. ii. p. 32.)

PLATE XXVIII.

Desmodium jucundum, Thw. 1, branch with flowers. 2, same with fruit. (Vol. ii. p. 54.)

PLATE XXIX.

Derris oblonga, Benth. 1, branch with flowers. 2, a flower. x 3, standard. 4, wing. 5, keel petal. x 7, anthers. x 8, calyx and pistil. x 9, section of ovary. x 10, pods. (Vol. ii. p. 93.)

PLATE XXX.

Sophora zeylanica, Trim. 1, branch with flowers and young fruit. 2, flower. x 3, petals. x 4, stamens and pistil. x 5, ripe pod. 6, seeds. 7, leaflet. (Vol. ii. p. 96.)

PLATE XXXI.

Pericopsis Mooniana. Thw. 1, a flowering twig. 2, petals. 3, stamens and pistil. 4, pod. 5, seed. 6, section of seed. (Vol. ii. p. 97.)

PLATE XXXII.

Peltophorum ferrugineum, Benth. 1, a flowering twig. 2, pods. 3, a pod opened to show seeds. (Vol. ii. p. 101.)

PLATE XXXIII.

Cassia auriculata, L. 1, a branch with flowers. 2, a pair of leaflets. 3, a flower with petals removed. 4, ripe pod. 5, vertical section of same. 6, seeds. (Vol. ii. p. 106.)

PLATE XXXIV.

Adenanthera bicolor, Moon. 1, a twig with flowers. 2, a bud. x 3, a flower. x 4, a pod. 5, same after dehiscence, showing seeds. (Vol. ii. p. 120.)

PLATE XXXV.

Acacia planifrons, W. & A. 1, branch with flowers. 2, ripe pod. 3, a seed. (Vol. ii. p. 123.)

PLATE XXXVI.

Carallia calycina, Benth. 1, branch with flowers. 2, flower laid open. x 3, petal. x 4, anthers. x 5, vertical section of flower. x 6, vertical, and 7, transverse section of ovary. x 8, a fruit. (Vol. ii. p. 155.)

PLATE XXXVII.

Eugenia lucida, Law. 1, branch with flowers. 2, branch with fruit. 3, a fruit. 4, seeds. (Vol. ii. p. 180.)

PLATE XXXVIII.

Eugenia Fergusoni, Trim. 1, branch with flower-buds, 2, branch with flowers. 3, fruit. 4, a single fruit. 5, vertical section of same. (Vol. ii. p. 172.)
CROTALARIA WALKERI, Arn.
TEPHROSIA MAXIMA, Pers.
DESMODIUM JUCUNDUM, Thw.
DERRIS OBLONGA, Berth.
PELTOPHORUM FERRUGINEUM, Benth.
CASSIA AURICULATA L.
ADENANTHERA BICOLOR, Moen.
ACACIA PLANIFRONS, W&A.
EUGENIA LUCIDA Lam.
EUGENIA FERGUSONI, Trim.
MEDINILLA MACULATA, Gardn.
TRICHOSTANAPSE INTEGRIFOLIA, Thur.
CERASILOCARPUM ZEYLANICUM, Bl.
GYNOSTEMMA PEDATA, Bl.
HEPTAPEARUM EMARGINATUM, Seem.
MASTIXIA TETRANDRA, Clarke.
ALLÆOPHANIA DECIPiens. Thor.
HEDYOTIS LESSERTIANA, Arn.
DIPLOSPORA DALZELLI, Hk.f.
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Plates LI.—LXXV.

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EXPLANATION OF THE PLATES.
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PLATE I.

Knoxia platycarpa, Arn. 1, branch with flowers. 2, a flower. 3, calyx \( \times \) 4, corolla \( \times \) 5, same, opened \( \times \) 6, fruit. 7, separate carpels \( \times \) 8, columella of fruit \( \times \) 9, part of branch showing stipules. (Vol. ii. p. 341.)

PLATE II.

Ixora jucunda, Thw. 1, flowering branch. 2, upper part of corolla \( \times \) 3, calyx and pistil \( \times \) 4, vertical, and 5, transverse section of ovary \( \times \) 6, vertical section of fruit \( \times \) 7, embryo \( \times \) (Vol. ii. p. 348.)

PLATE III.

Coffea travancoricensis, W. & A. 1, branch with flowers. 2, flower with corolla removed, showing bracts \( \times \) 3, corolla opened \( \times \) 4, outer and inner view of anther \( \times \) 5, transverse, and 6, vertical section of ovary \( \times \) 7, fruit. 8, transverse section of same. 9, pyrenes of the fruit. 10, seed. (Vol. ii. p. 353.)

PLATE IV.

Psychotria bisulcata, W. & A. 1, flowering twig. 2, corolla, opened out \( \times \) 3, calyx and pistil \( \times \) 4, vertical, and 5, transverse section of ovary \( \times \) 6, fruit. 7, transverse, and 8, vertical section of same \( \times \) (Vol. ii. p. 362.)

PLATE V.

Lagenophora billardieri, Cass. 1, whole plant in flower and fruit. 2, flower-head \( \times \) 3, involucral bract \( \times \) 4, ray, and 5, disk-flower \( \times \) 6, pistil \( \times \) 7, fruit \( \times \) (Vol. iii. p. 16.)

PLATE VI.

Blumea angustifolia, Thw. 1, a cluster of plants in flower and fruit. 2, section of flower-head \( \times \) 3, disk, and 4, ray-flowers \( \times \) 5, anther \( \times \) 6, achene \( \times \) (Vol. iii. p. 23.)

PLATE VII.

Anaphalis pelliculata, Trim. 1, 2, branch with flower-heads. 3, leaf \( \times \) 4, the same with the outer pellicle removed. 5, a flower-head \( \times \) 6, involucral bracts \( \times \) 7, disk-flower \( \times \) (Vol. iii. p. 28.)

PLATE VIII.

Gynura zeylanica, Trim. 1, a plant in flower. 2, lower and 3, upper, leaf \( \times \) 4, achene \( \times \) 5, same \( \times \) (Vol. iii. p. 44.)

PLATE IX.

Bassia nerifolia, Moon. 1, twig with flowers. 2, calyx \( \times \) 3, corolla, opened \( \times \) 4, stamens \( \times \) 5, transverse section of ovary \( \times \) 6, fruit. 7, seed. (Vol. iii. p. 80.)

PLATE X.

Ochrosia borbonica, Gmel. 1, branchlet with flowers. 2, calyx \( \times \) 3, corolla, opened \( \times \) 4, stamen \( \times \) 5, pistil \( \times \) 6, vertical, and 7, transverse section of ovary \( \times \) 8, fruit. 9, ripe carpel after maceration showing fibrous-spongy texture. 10, section of ripe carpel. 11, seed. 12, section of same. (Vol. iii. p. 129.)

PLATE XI.

Wrightia flavido-rosea, Trim. 1, twig with flowers. 2, 3, flowers. 4, stamens \( \times \) 5, pistil \( \times \) 6, fruit. 7, seed. (Vol. iii. p. 136.)
PLATE LXII.
Tylophora flava. Trim. 1, branch with flowers. 2, column and coronal processes from above. x 5, the same from the side. x 4, a single coronal process. x (Vol. iii. p. 159.)

PLATE LXIII.
Ceropegia parviflora, Trim. 1, part of plant, with flowers. 2, base of corolla, opened. x 3, column. x 4, fruit. 5, seed. (Vol. iii. p. 167.)

PLATE LXIV.
Gaertnera ternifolia, Thw. 1, branch with flowers 2, a flower. x 3, corolla, opened. x 4, stamens. x 5, calyx and pistil. x 6, vertical, and 7, transverse section of ovary. x 8, section of seed. x (Vol. iii. p. 178.)

PLATE LXV.
Crawfurdia japonica, S. & Z, var. Championi, Gardn. 1, Stem with flowers. 2, calyx opened, showing pistil. 3, corolla, opened. 4, stamens. x 5, fruits. 6, transverse section of same. 7, seeds. x 8, section of same. x (Vol. iii. p. 187.)

PLATE LXVI.
Ipomea jucunda, Thw. 1, part of stem with flowers. 2, calyx, base of corolla and stamens. 3, insertion of stamens. 4, pistil. 5, ripe capsules. 6, seed. (Vol. iii. p. 214.)

PLATE LXVII.
Solanum Leve, Dun. 1, top of plant with flowers. 2, 3, ripe berries. 4, calyx, seen from beneath. (Vol. iii. p. 231.)

PLATE LXVIII.
Centranthera procumbens, Benth. 1, plants in flower. 2, calyx. 3, corolla, opened. 4, capsule. (Vol. iii. p. 258.)

PLATE LXIX.
Christisonia Thwaitesi, Trim. 1, plant in flower. 2, flower. 3, corolla, opened. 4, pair of stamens. 5, pistil. x 6, transverse section of ovary. x (Vol. iii. p. 265.)

PLATE LXX.
Strobilanthes Nockii, Trim. 1, summit of plant in flower. 2, bract and bractlets. 3, calyx. 4, capsule, surrounded with calyx and bracts. 5, capsule. 6, valves of same. 7, seeds. (Vol. iii. p. 301.)

PLATE LXXI.
Barleria Arnottiana, Nees, var. glabra, Trim. 1, branch with flowers. 2, sepals and pistil. 3, insertion of stamens. x 4, vertical, and 5, transverse section of ovary. x (Vol. iii. p. 321.)

PLATE LXXII.
Premna purpurascens, Thw. 1, twig with flowers. 2, flower. x 3, corolla, opened. x 4, stamens. x 5, calyx and pistil. x 6, vertical, and 7, transverse section of ovary. (Vol. iii. p. 351.)

PLATE LXXIII.
Glossocarya scandens, Trim. 1, branch with flowers. 2, flower. 3, vertical section of corolla. 4, transverse section of ovary. x 5, fruit. 6, 7, valves of fruit with seeds. 8, seed. (Vol. iii. p. 362.)

PLATE LXXIV.
Coleus elongatus, Trim. 1, upper part of plant with flowers. 2, calyx. x 3, corolla. x 4, the same opened. x 6, a stamen. x 7, leafy shoot. (Vol. iii. p. 375.)

PLATE LXXV.
Anisochilus paniculatus, Benth. 1, upper part of plant in flower. 2, side, and 3, front view of flower. x (Vol. iii. p. 377.)
KNOXIA PLATYCARPA, Arn.
COFFEA TRAVANCORENSIS, W & A.
PSYCHOTRIA BISULCATA, W&A.
LAGENOPHORA BILLARDIERI, Cass.
BLUME A AUGUSTIFOLIA, Thou.
ANAPHALIS PELLICULATA, Trim.
BASSIA NERIIFOLIA. Moon.
OCHROSIA BORBONICA, Gmel.
WRIGHTIA FLAVIDO-ROSEA, Trin.
TYLOPHORA FLAVA, Trim.
CÆRTENERA TERNIFOLIA, Thw.
CRAWFURDIA JAPONICA, S & Z. Var. CHAMPIONII, Gard.
SOLANUM LÊVE, Duf.
CENTRANTHERA PROCUMBENS, Benth.
CHRISTISONIA THWAITESII, Trim.
STROBILANTHES (ENDOPOGON) NOCKII, Trin.
BARLERIA ARNOTTIANA, Nees. VAR. GLABRA, Trön.
PREMNA PURPURASCENS Plum.
GLOSSOCARYA SCANDENS, Trun.
COLEUS ELONGATUS, Trim.
ANISOCCHILUS PANICULATUS, Benth.
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SIR J. D. HOOKER, G.C.S.I., C.B., F.R.S.

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PLATES LXXVI.—C.

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EXPLANATION OF THE PLATES.
(The sign × indicates that the figure is more or less enlarged.)

PLATE LXXVI.

PLATE LXXVII.

PLATE LXXVIII.

PLATE LXXIX.

PLATE LXXX.
Notothixos floccosus, Oliv. 1, flowering branch. 2, leaf and flower. 3, seed. (Vol. iii. p. 473.)

PLATE LXXXI.

PLATE LXXXII.

PLATE LXXXIII.

PLATE LXXXIV.
Dimorphocalyx glabellus, Thun. 1, flowering branch of fem. plant. 2, male flower. * 3, the same, with part of calyx and petals removed. 4, fem. flower. * 5, the same, with portion of calyx removed. * 6, vertical section of ovary and disk. * 7, transverse section of ovary. * 8, fruits. 9, vertical section of ripe carpel and seed. * 10, embryo. * (Vol. iv. p. 54.)

PLATE LXXXV.

PLATE LXXXVI.
PODOSTEMON (MAVCELIA) METZGERICIDES Trim.
PIPER THWAITESII, Cas. D.C.
HELCICIA ZEILANICA, Gardn.
NOTOTHIXOS FLOCCOSUS Oliv.
BALANOPHORA THWAITESII, Eichh.
DIMORPHOCALYX GLABELLUS. Thw.
ADENOCHLÆNA ZEYLANICA; Thw.
Cœlogynæ Odoratissima Lindl.
CYMBIDIUM ENSIFOLIUM, sw. var. HEMMATODES Trim.
VANILLA MOONII Thw.
Dioscorea Spicata Roth.
CYPERUS BULBOSUS, Vahl.
ORYZA GRANULATA, Nees & Arn.