

HERMANN'S COLLECTION OF CEYLON PLANTS IN THE RIJKSHERBARIUM (NATIONAL HERBARIUM) AT LEYDEN

by

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(Leyden).

Among the old plant collections in book-form, in the Leyden National Herbarium, there are two large volumes, containing a number of well preserved Ceylon plants. These plants are said to have been collected by PAUL HERMANN in the latter half of the 17th century.

PAUL HERMANN¹⁾, afterwards Professor of Botany at the University of Leyden, resided in Ceylon as an "Ordinary and First Physician" of the Dutch East Indian Company during the years 1672—1679. Several particularities on his life and on the collections made by him, are to be found in LINNAEUS's *Flora Zeylanica* (6), in TRIMEN's paper entitled "Hermann's Ceylon Herbarium and Linnaeus's *Flora Zeylanica*" (8), in BOULGER's study on the history of Ceylon botany (2) and in ARDAGH's note on HERMANN's herbarium (1). During his residence in Ceylon HERMANN collected the herbarium, which is now in the possession of the Department of Botany of the British Museum of Natural History, London. The history of this herbarium has been described in TRIMEN's paper (8). This was not the only collection he made, for on page 131 of TRIMEN's paper we find that "Besides the herbarium under consideration, Hermann formed another whilst in Ceylon, which he sent to "J. Commelin at Amsterdam. It was from this collection (combined with "that made by J. Hartog, which was sent from Ceylon to Voss, Curator "of the Amsterdam Gardens) that J. Burman, Commelin's successor, com-"piled his '*Thesaurus Zeylanicus*'." On page 132 TRIMEN mentions still other collections: "Hermann also sent specimens to other botanists of "the time, especially to Gronovius" (the latter fact must be incorrect, for as BOULGER (2) rightly states GRONOVIVUS was only five years old at HERMANN's death in 1695). These "other botanists" may have been

¹⁾ Born at Halle, Saxony, 1646; † at Leyden, 1695.

BREYNE and PLUKENET (see ARDAGH's note [1]). It is possible that one of the "sets" came in some way into the possession of the Leyden University and is now in the Leyden Herbarium. However, there is also a possibility that, after HERMANN's death in 1695, a part of his plants were left at Leyden.

Though it is still uncertain how the collection came into the possession of the Leyden Herbarium, we can say that its identity has now been cleared up.

It was known by tradition that the herbarium was made by HERMANN, but certainty in this matter did not exist. Through the kindness of Prof. C. E. B. BREMEKAMP, the present author was able to compare a photograph of a sheet of the HERMANN Herbarium at London with a sheet of the Leyden collection. The handwriting on both sheets is exactly the same. For a comparison of the handwritings see *Fig. 1*, representing *Pavetta indica* in the British Museum and *Fig. 2*, representing the same species in Leyden.

Moreover, it is noteworthy that in the herbarium of VAN ROYEN¹⁾, inserted in the general collection at Leyden, we find several sheets with references to HERMANN's herbarium, all in VAN ROYEN's handwriting. Thus VAN ROYEN must have been of the opinion that the collection was really made by HERMANN.

At my request Mr J. RAMSBOTTOM, Keeper of the Department of Botany, British Museum of Natural History, London had the kindness to give me many a valuable information on the collection of HERMANN, preserved in London. For his help I wish to express here my best thanks. I was anxious to know if perhaps the volumes in Leyden had formed with those at London a complete series of the same form and shape. This, however, has not been the case. Mr RAMSBOTTOM, in his letter, described the 5 London volumes as follows: "The volumes are bound in old parchment with plain backs. Volumes 1—4 (plants) are marked in ink "Herbarii Vivi Indico-Ceylonici" "Tom I" etc.; volume 5 marked in ink "Herbarium Indico-Ceylonicum". The volumes are rectangular; plant volumes $19\frac{3}{4} \times 14\frac{1}{2}$ inches; drawings $22 \times 14\frac{3}{4}$ ".

The two Leyden volumes differ from the London ones in various ways, which may be clear from the following description: The books are bound in brown leather with black spots; the back of each volume shows eight thick ribs and above and below a thinner one. Between the two

¹⁾ ADRIAAN VAN ROYEN, Professor of Botany at the University of Leyden from 1732—1754.



Fig. 1.

Pavetta indica L. in the Herbarium of HERMANN
at the British Museum (Natural History), London.

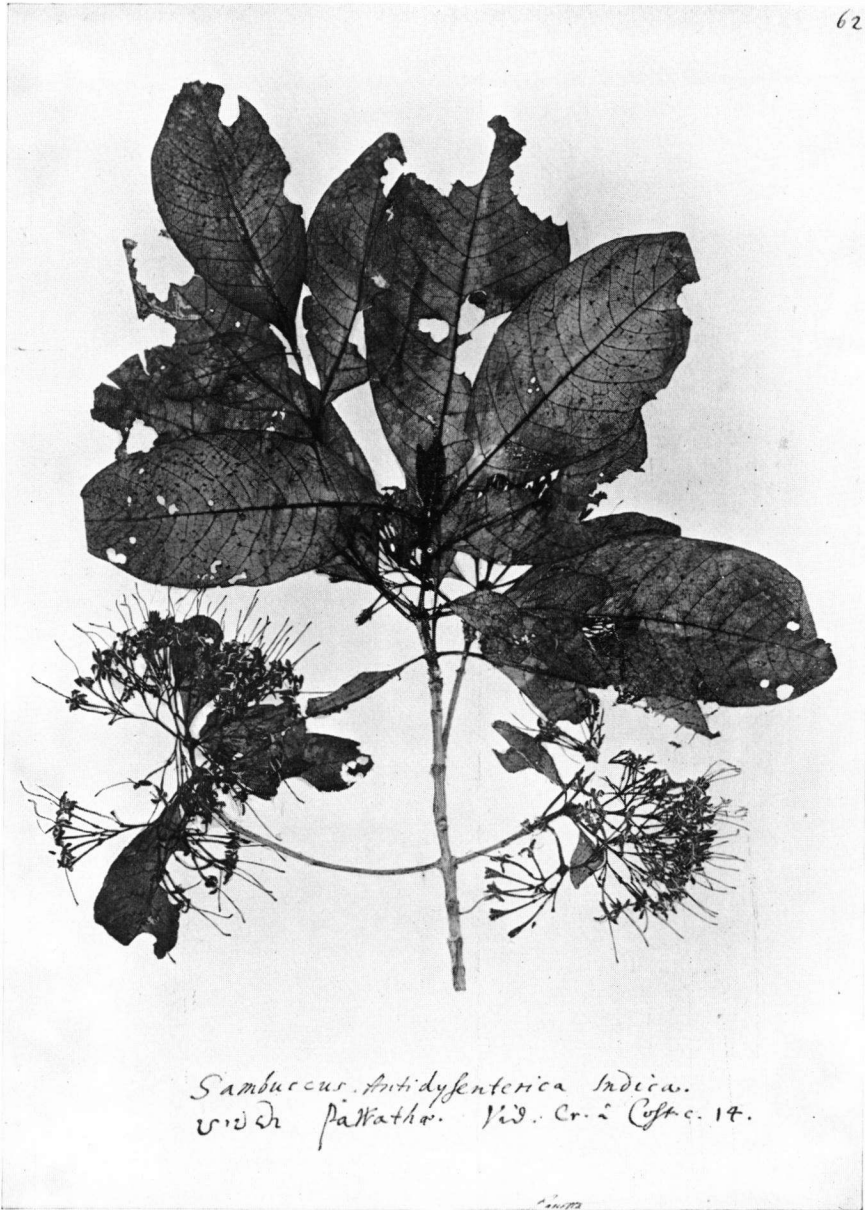


Fig. 2.

Pavetta indica L. in the Herbarium of HERMANN
at the National Herbarium, Leyden.

upper thick ribs the title is placed in golden characters on a darker ground: Herbar. vivus ceylonens. Vol. 1 and Vol. 2. The first volume contains 75 fol., numbered from 1 to 75, the second 82 fol., numbered from 76 to 157. In by far the greater part of the volumes, there is an unnumbered sheet between every two numbered ones. The sheets are 54 cm high and 31 cm broad and bear one or more dried plant specimens, glued on them. To each plant a name has been added, viz. a phrase name in Latin or a Singhalese name or both. The Singhalese names are mostly written both in Singhalese and in Roman characters.

The herbarium, which is, as has been said above, in a very good condition, appears to contain common species, wild in Ceylon or cultivated in that island.

As is generally known LINNAEUS based his *Flora Zeylanica* (6) on the herbarium of HERMANN, now extant in the British Museum. A number of the species described by LINNAEUS in that book and afterwards in the first edition of his *Species Plantarum* (7) are, however, not represented in the London collection. When preparing his *Flora Zeylanica*, LINNAEUS must have known these species only from the description given by HERMANN or from a drawing made by him.

TRIMEN'S list, in the paper mentioned above (8), exactly gives the species described by LINNAEUS, which are not in the herbarium, and those of which only a drawing could be found. Of these plants nine are represented in the Leyden collection. They are: fol. 5 *Ipomoea Quamoclit* L.; fol. 12 *Asparagus sarmentosus* L.; fol. 15 *Arundo Bambos* L. = *Bambusa arundinacea* WILLD.; fol. 21 *Crataeva Marmelos* L. = *Aegle Marmelos* (L.) CORR.; fol. 28 *Phyllanthus Niruri* L.; fol. 86 *Vitex Negundo* L.; fol. 92 *Osmunda zeylanica* L. = *Helminthostachys zeylanica* (L.) HOOK.; fol. 145 *Dioscorea pentaphylla* L. and fol. 146 *Malva tomentosa* L. = *Sida cordifolia* L.

Of these nine species, one, viz. *Asparagus sarmentosus* L. has been based in LINNAEUS'S *Species Plantarum* on the description and the drawing of HERMANN only. As the specimen of *Asparagus sarmentosus* L. in HERMANN'S herbarium at Leyden fully agrees with HERMANN'S description and figure in his *Horti academici Lugduno-Batavi catalogus* (4) it can be accepted as the type specimen (see below in the list under fol. 12).

List of the species in the Ceylon Herbarium of Hermann at Leyden. ¹⁾

Vol. 1.

- Fol. 1, above. *Myrtus indica* odorata fruct. niveo dulci; L. Fl. Zeyl. n. 182; *Syzygium zeylanicum* (L.) DC. (Tr. VI, p. 115).
- Fol. 1, below. *Nux Kina* dicta; Kina; L. Fl. Zeyl. n. 202; *Calophyllum Calaba* L. (Tr. VI, p. 22).
- Fol. 2. *Phaseolus Salviae* folio rotundo indicus; L. Fl. Zeyl. n. 282; *Atylosia scarabaeoides* (L.) BENTH. (Tr. II, p. 79).
- Fol. 3, above. *Amaranthus indicus* perennis folio subrotundo; *Verbena Bonti* ²⁾, Karalhaebo; L. Fl. Zeyl. n. 105; *Achyranthes aspera* L. (Tr. III, p. 404).
- Fol. 3, below. *Urinaria indica* supina; *Pitta wakka*; L. Fl. Zeyl. n. 332; *Phyllanthus Urinaria* L. (Tr. IV, p. 21).
- Fol. 4. *Urtica cannabina zeylanica*; *Watukahambilija*; L. Fl. Zeyl. n. 336; *Fleurya interrupta* (L.) GAUDICH. (Tr. IV, p. 104).
- Fol. 5. *Quammoclit*; *Jasminum pennatum* C. B. ³⁾; *Bambu*; L. Fl. Zeyl. n. 77; *Ipomoea Quammoclit* L. (Tr. III, p. 215).
- Fol. 6, above. *Astragalus indicus* siliquis falcatis hirsutis; L. Fl. Zeyl. n. 299; *Tephrosia villosa* (L.) PERS. (Tr. II, p. 33).
- Fol. 6, below. *Genista* fol. lato obtuso et glabro; *Jakberija*; L. Fl. Zeyl. n. 276; *Crotalaria retusa* L. (Tr. II, p. 15).
- Fol. 7. *Grana paradisi* officinarum; *Alugha*; L. Fl. Zeyl. n. 448; *Languas chinense* KOENIG (Tr. VI, p. 282).
- Fol. 8. *Bokaera cum floribus*; *Ouratea zeylanica* (LAMK.) ALSTON (Tr. VI, p. 42).
- Fol. 9. *Bokaera c. florum rudimento*; the same species as fol. 8; specimens abnormal, with witches' brooms.
- Fol. 10, above. *Arbor laccam fundens*; *Kaappaethiia*; L. Fl. Zeyl. n. 344; *Croton lacciferus* L. (Tr. VI, p. 264).
- Fol. 10, below. *Bokaera*; the same as fol. 8.

¹⁾ To the name of each species has been added a reference to LINNAEUS's *Flora Zeylanica*, as far as the species is mentioned there. The modern names agree with those in TRIMEN's *Handbook to the Flora of Ceylon* (9) and the Supplement (10) to this by ALSTON (abbreviated: Tr.)

²⁾ BONTIUS, J. (1599—1631).

³⁾ BAUHIN, C. (1560—1624).

- Fol. 11. Arundo indica sarmentosa baccifera; Ghojiwael; L. Fl. Zeyl. n. 133; *Flagellaria indica* L. (Tr. IV, p. 317).
- Fol. 12, above. Palukaena Arbor; Palukaena; L. Fl. Zeyl. n. 224; *Uvaria zeylanica* L. (Tr. I, p. 20).
- Fol. 12, below. Asparagus indicus sylvestris spinosus; Hatawarija; L. Fl. Zeyl. n. 124; *Asparagus sarmentosus* L. (Tr. IV, p. 286).

This specimen doubtless belongs to the same species, as was described by HERMANN and also figured by him under the name *Asparagus aculeatus, maximus, sarmentosus, Zeylanicus* (4, p. 62 and 64, plate on p. 63). On this species LINNAEUS based n. 124 of his *Flora Zeylanica*, and in his *Species Plantarum* the species occurs under the name *Asparagus sarmentosus* L. (7, p. 314). Of *Asparagus sarmentosus* L., there is, according to TRIMEN (9, IV, p. 286), no specimen in HERMANN's Herbarium in the British Museum. It is plausible to indicate the specimen at Leyden as the type of this species. As stated by TRIMEN the species of LINNAEUS appears to be either *A. gonocladus* BAKER or a small-leaved *A. falcatus* L. The present author is inclined to consider it as the latter. *A. falcatus*, however, has page priority over *A. sarmentosus*, so that the latter name must be rejected.

- Fol. 13. Illa; L. Fl. Zeyl. n. 59; *Callicarpa lanata* L. (Tr. III, p. 350).
- Fol. 14. Nerium floribus amplis roseis plenis odoratum; L. Fl. Zeyl. n. 108; *Nerium Oleander* L. fl. pl. (not mentioned by TRIMEN).
- Fol. 15. Arundo indica arborea maxima cortice spinoso Tabaxir fundens, Mambu s. Bambu dicta; Arundo arbor B. Pin.¹⁾; Unaghas; L. Fl. Zeyl. n. 47; *Bambusa arundinacea* WILLD. (Tr. V, p. 313).
- Fol. 16. Caryophyllus aromaticus sylvestris; *Syzygium lanceolatum* (LAMK.) W. ET A. (Tr. VI, p. 115).
- Fol. 17. Maendija; L. Fl. Zeyl. n. 404; *Hunteria zeylanica* (RETZ.) GARDN. (Tr. VI, p. 190).

¹⁾ BAUHIN, C., Pinax theatri botanici, 1623.

- Fol. 18, above. Arbor Vespertilionum; Wawulae thijs; L. Fl. Zeyl. n. 157; *Caesalpinia Nuga* ARR. (Tr. II, p. 99).
- Fol. 18, below. Mentha ind. hirsuta odore camphor.; Ghonakolla; *Adenosma capitatum* BENTH. (Tr. III, p. 242).
- Fol. 19, above. Cistus indicus quinquenervius pulpif.; Bothijs; L. Fl. Zeyl. n. 171; *Melastoma malabathricum* L. (Tr. II, p. 199).
- Fol. 19, below. Arbor ferrea duritie zeylanica; Naghaha; *Mesua Thwaitesii* PLANCH. ET TRI. (Tr. I, p. 106).
- Fol. 20. Waelmaendijs; *Grewia columnaris* SM. (Tr. I, p. 174).
- Fol. 21. Mespilus indica trifolia spinosa, Marmelos dicta; Beli; L. Fl. Zeyl. n. 212; *Aegle Marmelos* (L.) CORR. (Tr. I, p. 229).
- Fol. 22. Cerasus Zeyl. Mortingos dicta; Damghas; L. Fl. Zeyl. n. 183; *Syzygium caryophyllatum* (L.) ALSTON (Tr. VI, p. 116).
- Fol. 23. Arbor Mussaenda dicta; L. Fl. Zeyl. n. 84; *Mussaenda frondosa* L. (Tr. II, p. 323).
- Fol. 24. Heliotropium scorpioides foliis Hormini; Fedagoso Markgr. et Pison.¹⁾; Aetsaethijs; L. Fl. Zeyl. n. 70; *Heliotropium indicum* L. (Tr. III, p. 200).
- Fol. 25. Cynocrambe indica tricocos; Kuppamenijs; L. Fl. Zeyl. n. 341; *Acalypha indica* L. (Tr. IV, p. 58).
- Fol. 26. Smilax indica spinosa zeylan.; Kabolossa; L. Fl. Zeyl. n. 364; *Smilax zeylanica* L. (Tr. IV, p. 283).
- Fol. 27. Arbor zeylanica fabifera, Kaelawael dicta; L. Fl. Zeyl. n. 164; *Derris heptaphylla* (L.) MERR. (Tr. VI, p. 87).
- Fol. 28, above. Urinaria indica erecta; Pitawakka; L. Fl. Zeyl. n. 331; *Phyllanthus Niruri* L. (Tr. IV, p. 23).
- Fol. 28, below. Welangha; L. Fl. Zeyl. n. 185; *Syzygium cumini* (L.) SKEELS (Tr. VI, p. 116).
- Fol. 29. Prunus indica fructu nigro olivae magnitudine jambolius dicto; Madan; the same as Fol. 28, below.
- Fol. 30. Juglans zeyl., Nawaghas dicta; L. Fl. Zeyl. n. 350; *Sterculia Balanghas* L. (Tr. I, p. 165).
- Fol. 31. Arbor zeyl. fructubus cuminum redolentibus; Ankaenda; L. Fl. Zeyl. n. 139; *Acronychia pedunculata* (L.) MIQ. (Tr. VI, p. 37).

¹⁾ GUILIELMI PISONIS de medicina brasiliensi libri IV, et GEORGHII MARCGRAVII historiae rerum naturalium Brasiliae libri VIII, Leyden and Amsterdam, 1648.

- Fol. 32. Kaekillakolla; L. Fl. Zeyl. n. 441; *Allophylus Cobbe* (L.) BL. (TR. I, p. 303).
- Fol. 33. *Mimosa non spinosa major zeylanica* Breyn. Cent. ¹⁾; L. Fl. Zeyl. n. 298; *Aeschynomene aspera* L. (TR. II, p. 39).
- Fol. 34, above. *Ghaeriaetha ghas*; L. Fl. Zeyl. n. 14; *Linociera zeylanica* (L.) GAMBLE (TR. VI, p. 189).
- Fol. 34, below. *Sambuccus zeylanica odorata*; Mindi; L. Fl. Zeyl. n. 416; *Premna serratifolia* L. (TR. III, p. 352).
- Fol. 35. *Hedisarum trifolium indicum majus erectum*; L. Fl. Zeyl. n. 294; *Desmodium heterocarpum* (L.) DC. (TR. II, p. 53).
- Fol. 36, above. *Atriplex indica flosculis tomentosis*; L. Fl. Zeyl. n. 104; *Aerva lanata* (L.) JUSS. (TR. III, p. 402).
- Fol. 36, below. *Dorycnium indicum repens*; Ratkohoba; L. Fl. Zeyl. n. 271; *Indigofera aspalathoides* VAHL (TR. II, p. 23).
- Fol. 37. *Vitex trifolia odorata sylvestris*; Walnika; L. Fl. Zeyl. n. 415; *Vitex pinnata* L. (TR. VI, p. 232).
- Fol. 38. *Arborescens Phaseolus monospermos*; Radaelijawael; L. Fl. Zeyl. n. 248; *Connarus monocarpus* L. (TR. II, p. 2).
- Fol. 39. *Arbor indica cujus folia cureumae vices praebent*, Koraka dicta; L. Fl. Zeyl. n. 136; *Memecylon capitellatum* L. (TR. II, p. 222).
- Fol. 40. *Althaea zeyl. folio alni*; *Corchorus aestuans* L. (TR. VI, p. 33).
- Fol. 41. *Poenia zeylanica superba, floribus fulgenti cocco splendentibus fimbriatis*; Nyaghala s. Niaenghala; L. Fl. Zeyl. n. 122; *Gloriosa superba* L. (TR. IV, p. 294).
- Fol. 42. *Amarantho adfinis indiae orientalis floribus glomeratis ocymoides folio*. Breyni. Cent. p. 110 ²⁾; L. Fl. Zeyl. n. 115; *Gomphrena globosa* L. (TRIMEN does not mention this species).
- Fol. 43. *Arbor leguminosa trifolia Kayan dicta*; L. Fl. Zeyl. n. 279; *Cajanus inodorus* MEDIC. (TR. VI, p. 84).
- Fol. 44. *Polygala indica frutescens indigo ferens*; L. Fl. Zeyl. n. 273; *Indigofera tinctoria* L. (TR. II, p. 26).

¹⁾ BREYNE, J., *Exoticarum aliarumque minus cognitarum plantarum Centuria prima*, etc., 1678.

²⁾ See fol. 33, note.

- Fol. 45. *Hyssopus zeylan. serratifol.*; *Geniospermum tenuiflorum* (L.) MERR. (TR. VI, p. 234).
- Fol. 46. *Acacia indica flosculis spicatis*; Andara; L. FL. Zeyl. n. 215; *Dichrostachys cinerea* (L.) W. ET A. (TR. II, p. 121).
- Fol. 47. *Prunus zeyl. spicata* Weralu dicta; L. FL. Zeyl. n. 206; *Elaeocarpus serratus* L. (TR. I, p. 184).
- Fol. 48. Banwaela; Ex arboris hujus ramis flexibil. et obsequor. conficiunt indi funiculos; L. FL. Zeyl. n. 436; *Coscinium fenestratum* (GAERTN.) COLEBR. (TR. I, p. 41).
- Fol. 49. Arbor Welakangha dicta. Zeyl.; L. FL. Zeyl. n. 250; *Pterospermum canescens* ROXB. (TR. VI, p. 32).
- Fol. 50. *Apocynum Zeyl. erectum* fl. albo caryophyllaceo; Idda; L. FL. Zeyl. n. 109; *Ervatamia divaricata* (L.) ALSTON (TR. VI, p. 191).
- Fol. 51. *Tithymalus chamaesices* foliis ind. fl. incarnat.; Kiriwaenna; L. FL. Zeyl. n. 504; *Euphorbia hypericifolia* L. (TR. IV, p. 7).
- Fol. 52. *Cerasus umbellato* flore holoserico zeylan.; Ratambala; L. FL. Zeyl. n. 54; *Ixora coccinea* L. (TR. II, p. 348).
- Fol. 53. *Pisum vesicarium* fructu nigro alba macula notato zeylan.; Penala; L. FL. Zeyl. n. 142; *Cardiospermum Halicacabum* L. (TR. I, p. 299).
- Fol. 54. Folium Arboris Aramanagha dicta; L. FL. Zeyl. n. 443; *Filicium decipiens* (W. ET A.) THW. (TR. I, p. 240).
- Fol. 55. *Althaea carpinifolio* incano flosculis minimis conglomeratim dispositis; L. FL. Zeyl. n. 244; *Waltheria indica* L. (TR. I, p. 171).
- Fol. 56. *Marrubium zeylanicum* odoratum; Jakwanassa; L. FL. Zeyl. n. 24; *Anisomeles indica* (L.) O. KTZE (TR. VI, p. 236).
- Fol. 57, above. *Colutaea marina* incana; L. FL. Zeyl. n. 163; *Sophora tomentosa* L. (TR. II, p. 95).
- Fol. 57, below. *Hedisarum trifol. minus* et erectum; L. FL. Zeyl. n. 296; *Desmodium biarticulatum* (L.) BENTH. (TR. II, p. 48).
- Fol. 58. Arbor Waelmaendija dicta; L. FL. Zeyl. n. 439; *Hippocratea indica* WILLD. (TR. I, p. 276).
- Fol. 59. *Amaranthus spicatus* perennis zeyl.; Amar. Siculus Boconi in plant. Sicul.; L. FL. Zeyl. n. 103; *Pupalia atropurpurea* Moq. (TR. III, p. 399).

- Fol. 60. Hedisarum trifolium minimum longius radicatam; Undupijali; L. Fl. Zeyl. n. 297; *Desmodium triflorum* (L.) DC. (Tr. II, p. 54).
- Fol. 61. Jawula; L. Fl. Zeyl. n. 128; *Burmannia disticha* L. (Tr. IV, p. 130).
- Fol. 62. Sambuccus Antidysenterica indica; Pawathae; vid. Cr. a. Cost.¹⁾ c. 14; L. Fl. Zeyl. n. 56; *Pavetta indica* L. (Tr. II, p. 349). See fig. 2.
- Fol. 63. Cacalia indica odorata; Pupula; L. Fl. Zeyl. n. 306; *Vernonia zeylanica* (L.) LESS. (Tr. III, p. 10).
- Fol. 64. Kohukirilla; L. Fl. Zeyl. n. 207; *Grewia Microcos* L. (Tr. I, p. 177).
- Fol. 65. Zizyphus zeyl. floseulis ac foliis aversa parte argenteis; L. Fl. Zeyl. n. 58; *Elaeagnus latifolia* L. (Tr. III, p. 461).
- Fol. 66, above. Grossularia indica minor alba; Aembilla; L. Fl. Zeyl. n. 357, p. p.; *Antidesma Alexiteria* L. (Tr. VI, p. 262).
- Fol. 66, below. Anthirrhinum indicum minimum repens; L. Fl. Zeyl. n. 317; *Hybanthus enneaspermus* (L.) F. MUELL. (Tr. VI, p. 13).
- Fol. 67. Mala Goensia fructu octangulari pomi vulgaris magnitudine. C. Bauh.²⁾. Carambolas Lusit.; Kamarangha; L. Fl. Zeyl. n. 178; *Averrhoa Carambola* L. (Tr. I, p. 200).
- Fol. 68. Filix ind. arborea, Pothae dicta; L. Fl. Zeyl. n. 329; *Pothos scandens* L. (Tr. IV, p. 364).
- Fol. 69. Grossularia zeyl. major; Aembilla; L. Fl. Zeyl. n. 403; *Embelia Ribes* BURM.F. (Tr. III, p. 69).
- Fol. 70. Eryngium zeyl. antifebrile; L. Fl. Zeyl. n. 233; *Barleria Prionitis* L. (Tr. III, p. 318).
- Fol. 71. Billingingbing. Vid. Bont.³⁾; L. Fl. Zeyl. n. 177; *Averrhoa Bilimbi* L. (Tr. I, p. 200).
- Fol. 72. Arbor indica in longissimis lobis fabas seu pisa lupini forma et magnitudine, coccinei coloris ferens; Mandathija; L. Fl. Zeyl. n. 160; *Adenanthera pavonina* L. L. (Tr. II, p. 120).

¹⁾ AOSTA, C. (.....—1580).

²⁾ See fol. 15, note.

³⁾ See fol. 3, note.

- Fol. 73, above. Ram. Tamarindi; L. Fl. Zeyl. n. 33; *Tamarindus indica* L. (TR. II, p. 114).
- Fol. 73, below. Cytisus Zeyl. glaber siliquis bullatis; Laburnum zeylan. etc. Breyn. prodr. p. 40; L. Fl. Zeyl. n. 278; *Crotalaria laburnifolia* L. (TR. II, p. 19).
- Fol. 74. Koroswael; L. Fl. Zeyl. n. 205; *Tetracera scandens* (L.) MERR. (TR. VI, p. 3).
- Fol. 75. Ligni colubrini primum et laudatissimum genus. Garc. ab Ort.¹⁾; Ekawerija; L. Fl. Zeyl. n. 398; *Rauwolfia serpentina* (L.) BENTH. (TR. III, p. 126).
- Vol. 2.
- Fol. 76, above. Grana Tiglia officin.; Sajapala; L. Fl. Zeyl. n. 343; *Croton Tiglium* L. (TR. IV, p. 49).
- Fol. 76, below. Ilanda; Mespilus ind. rotundifol. spinosa; L. Fl. Zeyl. n. 89; *Zizyphus Jujuba* (L.) LAMK. (TR. I, p. 280).
- Fol. 77, above. Cerasus zeylanica racemosa; L. Fl. Zeyl. n. 409; *Symplocos spicata* ROXB. (TR. III, p. 104).
- Fol. 77, below. Hullunajikolla; *Rungia parviflora* NEES vel aff. (TR. III, p. 342).
- Fol. 78. Waldamini; Trifolium indicum arborescens siliquis depressis articulatis; L. Fl. Zeyl. n. 293; *Desmodium umbellatum* (L.) DC. (TR. II, p. 47).
- Fol. 79. Cinamomum sylvestre myrrhae odore & sapore; Nikadawula; L. Fl. Zeyl. n. 146, p. p.; *Neolitsea involucrata* (LAMK.) ALSTON (TR. VI, p. 248).
- Fol. 80. missing.
- Fol. 81. Dematha; Prunus zeylanica fructu flavo; L. Fl. Zeyl. n. 230; *Gmelina asiatica* L. (TR. III, p. 355).
- Fol. 82. Cinamomum zeylanicum; Kurundu; L. Fl. Zeyl. n. 145; *Cinnamomum zeylanicum* BL. (TR. III, p. 440).
- Fol. 83. Phaseolus orthocaulis Column.²⁾; Maemungh; *Phaseolus aureus* ROXB. (TR. VI, p. 81).
- Fol. 84, above. Kokorilla; L. Fl. Zeyl. n. 207; *Grewia Microcos* L. (TR. I, p. 177); leaves with galls.
- Fol. 84, below. Ophioglossum arboreum zeylanicum; *Cyclophorus spissus* (BORY) DESV.

¹⁾ GARCIA AB HORTO.²⁾ COLUMNA, F. (± 1567—1650).

- Fol. 85. Herba mimosa zeylanica siliquis angustis glabris; L. Fl. Zeyl. n. 154; *Cassia mimosoides* L. (Tr. II, p. 110).
- Fol. 86. Nika; *Vitex trifolia odorata hortensis indica*; L. Fl. Zeyl. n. 414; *Vitex Negundo* L. (Tr. III, p. 357).
- Fol. 87, above. *Waeraella ghas*; *Arbuscula zeylanica pannosa*; L. Fl. Zeyl. n. 141; *Dodonaea viscosa* L. (Tr. I, p. 312).
- Fol. 87, below. *Ophioglossum arboreum zeylan.*; the same species as fol. 84, below.
- Fol. 88.¹⁾ Keladi. Ambon; *Lotus Aegyptia Alpini*; *Colocasia esculenta* (L.) SCHOTT (Tr. VI, p. 295).
- Fol. 89. *Arbuscula indica* ex cujus ligno conficiuntur carbones pro pulvere pyrio; L. Fl. Zeyl. n. 369; *Trema orientalis* (L.) BL. (Tr. IV, p. 82).
- Fol. 90.¹⁾ *Amarantho adfinis Breyni*. Cent. 2 (?)²⁾; Flos globularius Rumph.; L. Fl. Zeyl. n. 115; *Gomphrena globosa* L.; cf. fol. 42.
- Fol. 91. *Persicaria zeylanica*; *Polygonum barbatum* L. (Tr. III, p. 412).
- Fol. 92.¹⁾ *Ophioglossum laciniatum* Rumph.; L. Fl. Zeyl. n. 373; *Helminthostachys zeylanica* (L.) HOOK.
- Fol. 93. Betele Aquaticum; L. Fl. Zeyl. n. 30; *Piper longum* L. (Tr. III, p. 424).
- Fol. 94.¹⁾ Herba sentiens Rumph.; Nintikumba Zeylan.; L. Fl. Zeyl. n. 180; *Biophytum sensitivum* (L.) DC. (Tr. I, p. 197).
- Fol. 95. *Prunus zeylanica racemosa*; Waeralu; L. Fl. Zeyl. n. 206; *Elaeocarpus serratus* L. (Tr. I, p. 184); cf. fol. 47.
- Fol. 96. Flos pavoninus; Monarakudimbija; Monarapahuru; Fula pavaõ (?); L. Fl. Zeyl. n. 159; *Caesalpinia pulcherrima* (L.) Sw. (Tr. II, p. 99).
- Fol. 97. *Cinamonum zeylanicum cum rudimentis fructum*; L. Fl. Zeyl. n. 145; *Cinnamomum zeylanicum* BL. (Tr. III, p. 440).

¹⁾ The specimens on fol. 88, 90, 92 and 94 make the impression to have been added afterwards. Unnumbered leaves are missing here. The numbers 90, 92 and 94 show references to RUMPHIUS, as far as I can judge, in HERMANN's handwriting. The data for these references HERMANN must have received in some way from RUMPHIUS himself, for the first volume of RUMPHIUS's Herbarium Amboinense appeared not until the year 1741, and HERMANN died in 1695.

²⁾ See fol. 33, note.

- Fol. 98. *Cinamomum malabaricum* s. *Cassia* lign. cum rudimentis fructuum; the same.
- Fol. 99. *Cinamomum zeylan. acutiss. c. rudimentis fructuum*; the same.
- Fol. 100. *Cinamomum zeylanicum c. floribus*; the same.
- Fol. 101. *Cinamomum zeylan. acutum c. rudimentis fructuum*; the same.
- Fol. 102. *Cinamomum malabaricum* s. *Cassia c. floribus*; the same.
- Fol. 103. *Cinamomum zeylanicum acut. c. floribus*; the same.
- Fol. 104. *Cinamomum zeylanicum acutissimum c. floribus*; the same.
- Fol. 105. *Cinamomum sylv. inodorum c. floribus*; the same.
- Fol. 106. *Cinamomum zeylan. fl. qs. in umbella dispositis*; the same.
- Fol. 107. *Cinamomum montanum zeylanicum minus acutum*; the same.
- Fol. 108. *Gentiana cistiflore annua*; L. Fl. Zeyl. n. 90; *Exacum trinerve* (L.) DRUCE (Tr. VI, p. 197).
- Fol. 109. *Erysimum siliquosum triphyllum repens*; L. Fl. Zeyl. n. 285; *Rothia indica* (L.) DRUCE (Tr. VI, p. 67).
- Fol. 110. *Absus Alpini*; L. Fl. Zeyl. n. 153; *Cassia Absus* L. (Tr. II, p. 109).
- Fol. 111. *Grossularia zeylanica dicoecos*; *Grewia tiliaefolia* VAHL (Tr. I, p. 175).
- Fol. 112. *Absus Alpini*; the same species as fol. 110.
- Fol. 113. *Bughaethijawael*; *Costum indicum redolens arbor. odore Irid. florent.*; L. Fl. Zeyl. n. 249, p. p.; *Hugonia Mystax* L. (Tr. I, p. 189).
- Fol. 114. *Flos pavoninus*; the same species as fol. 96.
- Fol. 115. *Urtica indica tricocos*; *Kahambilija*; L. Fl. Zeyl. n. 340; *Tragia involucrata* L. (Tr. VI, p. 265).
- Fol. 116. *Flos pavoninus*; the same species as fol. 96.
- Fol. 117. *Fol. Flor. pavonin.*; the same species as fol. 96.
- Fol. 118, above. *Flos jambu*; L. Fl. Zeyl. n. 188; *Syzygium Jambos* (L.) ALSTON (Tr. VI, p. 115).
- Fol. 118, below. *Aswaenna*; L. Fl. Zeyl. n. 62; *Spermacoce hispida* L. (Tr. II, p. 371).

- Fol. 119. Poghas; Arbor Diaboli, s. *Tilia zeylanica* foliis perpetuo mobilibus s. tremulis; L. Fl. Zeyl. n. 372; *Ficus religiosa* L. (Tr. IV, p. 90).
- Fol. 120. Azadarach floribus albis; L. Fl. Zeyl. n. 161; *Azadirachta indica* A. JUSS. (Tr. I, p. 244).
- Fol. 121. Cinamomum sylvestre myrrhae odore ac sapore; Nikadawula; the same species as fol. 79.
- Fol. 122. Flos Cassiae fistulae zeylanicae; L. Fl. Zeyl. n. 149; *Cassia Fistula* L. (Tr. II, p. 103).
- Fol. 123. Illa; L. Fl. Zeyl. n. 348; *Aleurites triloba* FORST. (Tr. IV, p. 46).
- Fol. 124. Kaukin Breyn.¹⁾; L. Fl. Zeyl. n. 138; *Mimusops Elengi* L. (Tr. III, p. 86).
- Fol. 125, above. Cinamomum sylvestre myrrhae od. & sap. c. flore; the same species as fol. 79.
- Fol. 125, below. Arbor zeylanica ex qua gummi gottae; Ghoraka; *Garcinia Cambogia* (GAERTN.) DESROUSS. (Tr. I, p. 95).
- Fol. 126, above, right. Arbuscula zeylan. ex cujus ligno carbones pro pulvere pyrio conficiuntur; *Leptadenia reticulata* W. ET A. (Tr. III, p. 164).
- Fol. 126, above, left. Myrtillus Arbor zeyl.; *Flueggea leucopyrus* WILLD. (Tr. IV, p. 33).
- Fol. 126, below. Kannaghoraka; L. Fl. Zeyl. n. 195; *Garcinia Morella* (GAERTN.) DESROUSS. (Tr. I, p. 96).
- Fol. 127. Ghoraka, ex qua gum. gott.; probably the same as the preceding.
- Fol. 128. Althaea zeylan. fol. betonic. flosculis conglobatim dispositis capsulis hirsutis; L. Fl. Zeyl. n. 246, 247; *Melochia corchorifolia* L. (Tr. I, p. 170).
- Fol. 129. Solanum spinosum indicum maximum incanum spinis ferruginis, pomo hirsuto piloso flavo; Elabathu; *Solanum ferox* L. (Tr. III, p. 233).
- Fol. 130. Arbor corallina zeylan.; Erabudu; *Erythrina fusca* LOUR. (Tr. VI, p. 80).
- Fol. 131. Jambu sylvestre flosc. minimis; L. Fl. Zeyl. n. 184; *Syzygium cordifolium* WALP. (Tr. VI, p. 118).
- Fol. 132, above. Phaseolus Arbor racemosa; *Pongamia pinnata* (L.) MERR. (Tr. VI, p. 87).

¹⁾ See fol. 33, note.

- Fol. 132, below. *Adhathoda* Malabar.; L. Fl. Zeyl. n. 16; *Adhathoda Vasica* NEES (TR. III, p. 338).
- Fol. 133. *Platanus zeylanica*; Haedawakka; L. Fl. Zeyl. n. 434; *Chaetocarpus castanocarpus* THW. (TR. IV, p. 74).
- Fol. 134, above, right. *Gnaphalium zeylan. minimum*; L. Fl. Zeyl. n. 420; *Epaltes divaricata* (L.) CASS. (TR. III, p. 24).
- Fol. 134, above, left. *Lignum stercorinum zeylan.*; L. Fl. Zeyl. n. 34; *Olaez zeylanica* L. (TR. I, p. 257).
- Fol. 134, below. *Tiliae folia Arbor floribus racemosis*; *Macaranga indica* WIGHT (TR. IV, p. 70).
- Fol. 135. *Tirasta Walu*; *Turbith vegetabile*; L. Fl. Zeyl. n. 74; *Ipomoea Turpethum* (L.) R. BR. (TR. III, p. 222).
- Fol. 136. *Aramanaghaha*; *Ancistrocladus hamatus* (VAHL) PRAIN (TR. VI, p. 27).
- Fol. 137. *Acacia zeylanica inodora*; ? L. Fl. Zeyl. n. 217; cf. *Acacia caesia* (L.) WILLD. (TR. VI, p. 98).
- Fol. 138, above. *Urtica hortensis inodora*; *Tragia Muelleriana* PAX ET K. HOFFM. (TR. VI, p. 266).
- Fol. 138, below. *Dicoccos Althaeae floribus*; *Macaranga digyna* (WIGHT) MUELL. ARG. (TR. IV, p. 71).
- Fol. 139. *Boromus*; L. Fl. Zeyl. n. 407; *Xanthophyllum geminiflorum* (DENNST.) ALSTON (TR. VI, p. 16).
- Fol. 140, above. *Kandulaessa*; *Ros folis indicus ramosus*; L. Fl. Zeyl. n. 121; *Drosera indica* L. (TR. II, p. 146).
- Fol. 140, below. *Balsamina foemina angustifolia*; L. Fl. Zeyl. n. 315; *Hydrocera triflora* (L.) W. ET A. (TR. VI, p. 36).
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- Fol. 142. *Vicia sylvestris tinctoria zeyl.*; *Tephrosia senticosa* PERS. (TR. VI, p. 74).
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- Fol. 145. *Waelangha*; L. Fl. Zeyl. n. 363; *Dioscorea pentaphylla* L. (TR. IV, p. 276).
- Fol. 146. *Althaea hirsutissima, abutiliflore & sem.*; L. Fl. Zeyl. n. 253 part and 255 (?); *Sida cordifolia* L. (TR. I, p. 143).

- Fol. 147. Carim curini Hort. Malab. tom. 2¹); L. Fl. Zeyl. n. 17; *Ecbolium viride* (FORSK.) ALSTON (TR. VI, p. 229).
- Fol. 148. Persicaria zeylan. non spicata; *Eclipta alba* HASSK. (TR. III, p. 37).
- Fol. 149. Grossularia zeylanica fructibus racematim dispositis albissimis; the same species as fol. 69.
- Fol. 150. Convolvulus elegans apocyni foliis; *Tylophora tenuissima* (ROXB.) WIGHT (TR. VI, p. 195).
- Fol. 151. Sesban Alpini; L. Fl. Zeyl. n. 298 β , part; *Sesbania aculeata* PERS. (TR. II, p. 34).
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- Fol. 154. Phaseolus zeylan. marin.; *Canavalia ensiformis* DC. (TR. II, p. 67).
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¹) RHEEDE TOT DRAAKESTEIN, H. A. VAN, Hortus indicus malabaricus etc., Amsterdam, 1678—1703, Vol. I—XII.

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