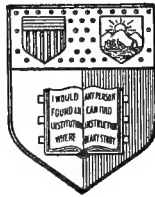


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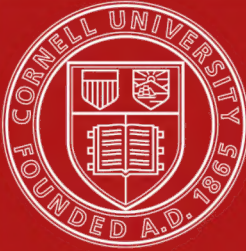
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THE FLORA OF THE DUTCH
WEST INDIAN ISLANDS ST. EUSTATIUS,
SABA AND ST. MARTIN.

BY

I. BOLDINGH.

LEIDEN
LATE E. J. BRILL LTD.
Publishers and Printers
1909



**THE FLORA OF THE DUTCH WEST
INDIAN ISLANDS.**

**I. The Flora of St. Eustatius, Saba and
St. Martin.**

**THE FLORA OF THE DUTCH
WEST INDIAN ISLANDS.**

FIRST VOLUME

St. Eustatius, Saba and St. Martin

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PREFACE.

Mrs. J. van Grol-Meyers, wife to Mr. G. J. van Grol, administrator of the Dutch West Indian Island St. Eustatius, sent to the „Koloniaal Museum in Haarlem” a nice collection of dried plants collected in St. Eustatius in the years 1904—1906.

She also gave such a collection to the Herbarium of the Botanical Laboratory of the University of Utrecht.

The latter collection of about 350 numbers gave rise to a renewed investigation to the Flora of the Dutch West Indian Islands. I am glad to say that the collection made by Mrs. J. van Grol-Meyers is a very good one. The name of Mr. van Grol himself is well known to the student of the Melocacti of the Dutch West Indian Islands, and the work Mrs. van Grol did now, proved to be a great help for the study of the Flora of the Dutch West Indies Prof. Dr. F. A. F. C. Went, Director of the Botanical Laboratory and Garden of the University of Utrecht kindly intrusted to me the determination of the collection of the above mentioned West Indian Plants, and in 1905 he proposed to me to make a voyage to the three Dutch West Indian Islands St. Eustatius, Saba and St. Martin in order to get acquainted with the vegetation there and to get a collection of the plants from the three Islands.

I wish to express my thanks to „De Maatschappij ter Bevordering van het Natuurkundig Onderzoek der Nederlandsche Koloniën („Society for promoting Scientific Investigation in the Dutch Colonies”), De Koninklijke Akademie van Wetenschappen (Korthalsfonds) te Amsterdam, the „Commissie van het F. W. van Eedenfonds in Haarlem” and the „Directie van het Provinciaal Utrechtsch Genootschap van Kunsten en Wetenschappen” (Provincial Utrecht Society of Art and Science), who subsidized and so made it possible for me to undertake the above mentioned investigations.

Most of all I am indebted to the kindness of Prof. F. A. F. C. Went who, after having taken the initiative for my study of the

newnam Pub. Co. S. 220, #7
Botany, @ 3/11/08

Flora of the Dutch West Indies, has helped me so energetically by his personal advice as well as by his influence with the above mentioned Societies.

I am glad to have an opportunity now to express my thanks to all those who have helped me in any way in promoting my studies. As to the Dutch Antilles I thankfully mention the Governor of Curaçao Jhr. J. O. de Jong van Beek en Donk and the administrators of St. Eustatius, G. J. van Grol, and T. G. Groebe, the administrator of Saba H. J. Beaujon, the administrator of St. Martin A. J. C. Brouwer and the maire of the French Part of St. Martin D. Beauprethuy.

Moreover: in St. Eustatius: Mrs. J. van Grol-Meyers, Mr. J. Morgan Griffith, Rev. P. Delgueur, Mr. J. G. C. Every, Messr. Hill and Mr. Hassel; in Saba: Dr. A. C. W. Lionarons, Rev. Mulder and Mr. T. Holms; in St. Martin: Mr. J. A. Gravestein, Mr. L. A. van Romond, Mr. A. A. van Romondt, Mr. D. J. van Romondt, Mr. W. E. van Romondt, Mr. W. Netherwood and Mr. F. Morales.

During my voyage to the West Indies I experienced much friendly help from Sir Daniel Morris, Mr. J. R. Bovell, R. P. Duss, Mr. Stephens and Mr. Shepherd.

I also highly appreciate the assistance I got in Holland where I was informed with the greatest loyalty by Mr. L. A. Bakhuis, Dr. J. Boeke, Dr. M. Greshoff, Dr. G. A. F. Molengraaff, Dr. J. Valckenier Suringar and Dr. C. E. A. Wichmann.

According to the wishes of the „Commissie van het F. W. van Eedenfonds” I paid much attention to the cultivated plants too; in a former publication: *Lijst van Planten die door de bewoners van de drie Nederlandsche Antillen, St. Eustatius, Saba en St. Martin als geneeskrachtig worden beschouwd* (Bull. Kolon. Mus. Haarlem n. 38 (2907) p. 93—112), I wrote on the use made of certain plants and in this Flora now I have enumerated all the cultivated plants I met with and which I was able to determine. I also feel very much indebted to the following Directors of „s Rijks Herbarium” at Leiden viz: Dr. J. M. Janse, Dr. J. P. Lotsy and Dr. J. W. C. Goethart, who greatly facilitated by their kind assistance my working there on the collection of Dr. F. W. R. Suringar.

But most of all I kindly thank Prof. I Urban for his assistance when I was working in the magnificent Herbarium Krug et Urban in the Königl. Bot. Garten und Museum Steglitz-Dahlem (Berlin.).

Although the time I could be there was only very short, my visit

however has been of great use to me owing to the kind assistance of Prof. Urban in looking after doubtful determinations and undetermined plants and in describing some new species. He has enabled me by his great knowledge to bring out the names of some plants that were collected without flowers or fruits.

I feel inclined to express my thanks to Mr. O. E. Schulz and Dr. F. Niedenzu for the determination of some plants and to Dr. H. Hallier, Dr. A. A. Pulle and Dr. S. H. Koorders for their advices. My best thanks also to Mr. S. Perrin who has helped me in looking after the English text of this Flora.

This Flora is divided in Three Parts; whereas the different Parts, Sections and Chapters need no further explanation a short account of the methods I followed in nomenclature, synonymy and distribution of plants is given here.

The enumeration of Families and Genera is very nearly given after the order of De Dalle Torre et Harms: *Genera siphonogamarum ad systema Englerianum Conscripta* (1908).

In a few cases I thought it better to follow:

Urban: *Symbolae Antillanae* vol. I, II, III, IV (fasc. 1 and 2), V, VI (fasc. 1) and Urban: *Additamenta ad Cognitionem Florae Indiae Occidentalis* 1892-97.

The names of the species used are mostly drawn from the two latter papers, Engler und Prantl.: *Die natürlichen Pflanzenfamilie* up to 1909, Engler: *Regnum Vegetabile* up to 1909, or from other monographs.

Whenever I could not find any name in the above mentioned publications I took the name I thought best after the International rules for Botanical Nomenclature chiefly of Vascular Plants. Wien 1905. (*Verh. Int. Bot. Congr.* 1805 Wien.).

Besides the names thus given I also mention the synonyms that are used in: Grisebach: *Flora of the British West Indian Islands*, Duss: *Flore phanérogamique des Antilles françaises*, Millspaugh: *Flora of the Island of St. Croix*, and Jackson: *Index Kewensis* up to 1909 and in a very few cases still another one.

I tried to get aim at the greatest completeness possible in giving the data about the names thus used, and I also mentioned the pages where the plants are given up in: Grisebach: *Flora of the*

British West Indian Islands, Duss: Flore phanérogamique des Antilles françaises, Millspaugh: Flore of the Island of St. Croix and in a few cases still some other work.

To every plant is added the name of the Dutch West Indian Leeward Island where it is found in this order: St. Eustatius, Saba, St. Martin; whenever I saw or collected it also on Anguilla this Island too is mentioned ¹⁾ and when the plant is also known from St. Croix this Island is named after Anguilla.

I have mentioned as much as I could find about the distribution of the plants in all parts of the world, and these data are taken from the following publications in this order:

Urban: Symbolae Antillanae Vol. I, II, III, IV (fasc. 1 and 2), V, VI (fasc. 1) and Additamenta ad Cognitionem Florae Indiae Occidentalis (1892—97), Engler: Regnum vegetabile up to April 1909, Engler und Prantl: Die Natürlichen Pflanzenfamilien up to 1909, newer Monographs and Jackson: Index Kewensis up to 1909.

For the abbreviated names see under Literature.

Prof. Urban was so kind as to allow me the use of the not yet published data from the Herbar Krug et Urban Berlin (Steglitz-Dahlem). A few data are from „s Rijksherbarium” at Leiden.

Whenever I could not find that a plant was known in other parts of the world besides the Antilles, then the names of all the Islands where it is found are enumerated.

The Systematic Part consists of the plants belonging to the collections of Suringar, van Grol-Meyers, Lionarons and Boldingh.

The numbers with B. added are from the collection Boldingh, marked G. are from the collection van Grol-Meyers when they belong to the collection in the Herbarium at Utrecht, marked H when they belong to the collection in the Koloniaal Museum at Haarlem; the numbers marked L. are from the collection Lionarons and the numbers where no initials are added are from the collection Suringar.

The numbers of the collections Suringar were not given by Suringar when he collected the plants (as Suringar did not put any number on the labels) but they are only the last ciphers of the long number that is fixed to the paper on which the plants are mounted in „s Rijks Herbarium” at Leiden.

As I am sure that when giving the name under which the plant

¹⁾ See Literature: Boldingh.

is mounted and these ciphers the plant is sufficiently indicated, I thought it better not to give the long numbers that are used in „'s Rijks Herbarium”.

The plants collected in the different Islands are thus given: collection Boldingh, collection Suringar, both in the order of the day of collecting, collections Van Grol-Meyers and collection Lionarons. Not all the vernacular names people told me are given here, but the names I have given in this Flora are used without any doubt. The heights where the plants were collected are given with the greatest accuracy possible.

Whenever a plant struck my attention although I did not think it necessary to collect it, I made some notes about it; these notes are also to be found in this Flora, printed with small type.

As to the flowering and fruiting time of the plants I did not think it necessary to mention with every plant whether I collected flowers on fruits as the greater part of the plants are collected with flowers, either by Suringar, Van Grol-Meyers or by myself.

I wish to draw the attention to the fact that I have tried to render this Flora of the Dutch West Indian Islands as complete as possible, both by what my own investigations have taught me and what I could find elsewhere.

Only the genus *Melocactus* has not been studied with the same care, as I was sure I could not add anything to the work done by Suringar on this head by the data I could bring together without giving too much time to it. So I refer to the studies of F. W. R. Suringar on *Melocactus* and those of J. Valckenier Suringar.

Botanical Laboratory of the University
in Utrecht.

— June 1909.

Additions and Corrections.

Page

- 13 Line 19 from top. *For* 1859 *read* 1889.
- 17 Line 9 from top. *After* Millspauch 437 *insert*, *Panicum lanatum* Rottb. in Act. litt. univ. Hafn. I (1778) 269.
- 47 Line 16 from bottom. *After* 81 *insert* 60a.
- 79 Line 4 from top. *For* **macrantha** *read*, **macracantha**.
- 100 Line 15 a from top. *Insert*, **St. Martin**: Tintamarre: n. 3376 B.
- 106 Line 16 from bottom. *After* (Symb.) *insert*, Baham. (Hitchc.).
- 119 Line 1 from top and line 8 from bottom. *For* 1885 *read* 1883.
- 164 Line 15 from top. *For* Antill., Cuba to French Islands. (Gris. Fl.) *read*: Jamaica, Hispaniola, Portorico, St. Thomas, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, Barbados. (Herb. Krug et Urban).
- 178 Line 11 from top. *For* Antill. (Gris. Fl.) *read*: St. Thomas, St. Jan, Guadeloupe, Desirade, Les Saintes, Marie-Galante, Dominica, Martinique, St. Vincent, Barbados. (Herb. Krug et Urban).
- 235 Line 9a from bottom. *Insert*, *J. W. W. Spencer*. Reconstruction of the Antillean Continent. Bull. Geol. Soc. Amer. 6. 1894 p. 103—146.

Map of St. Eustatius: Bengalen is to be put to the N. E. of the Quill.

Map of The Dutch W. I. Islands: *For* Barbada *read* Barbuda.

Map of Saba: *For* Marizot *read* Marigot.

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FIRST PART

SYSTEMATICAL

Pteridophyta:

Hymenophyllaceae.

Trichomanes Linn.

Trichomanes alatum Sw. in Schrad. Journ. 1800. II (1801) 77;
Gris. Fl. 654.

Saba: Mountain 800 M.: n. 2204 B., 2206 B., 1, 6.
Antill., Amer. austral. (Symb.).

Hymenophyllum Smith.

Hymenophyllum hirtellum Sw. Schrad. Journ. 1800, 2. 100;
Gris. Fl. 659.

Saba: Mountain 800 M.: n. 1814 B., 1815 B., 1816 B., 2201 B., 7.
Antill., Amer. centr., Mexico. (Christensen 1906.)

Cyatheaceae.

Cyathea J. E. Sm.

Cyathea arborea J. E. Sm. in Mém. Acad. Scienc. Turin V
(1790) 417; Gris. Fl. 704.

Saba: Mountain 600 M.: n. 1755 B.
Antill., Bras. (Symb.).

Cyathea serra Willd. Spec. Plant. V. I (1810) 491; Gris. Fl. 704.

St. Eustatius: Top of the Quill: n. 163, 164, 171, 172, 173,
174, 175.

I only saw two specimens of a Fern-tree in the Quill, in a very deep
gut and it was impossible for me to get a part of it; most probably it was
Cyathea serra.

Saba: Mountain near Windwardside 600 M.: n. 2170 B.; Ren-
dez-vous Mountain: n. 46.

Antill., Bras., Mexico. (Symb.).

Hemitelia R. Br.

Hemitelia horrida R. Br. Prodr. I (1810) 158; Gris. Fl. 706.

Saba: Mountain 800 M.: n. 2221 B., 2225 B., 165, 188 L., 189 L. Antill., Amer. austr. sept. (Symb.).

Alsophila R. Br.

Alsophila phalerata Mart. Ic. Cr. Bras (1834) 67 t. 30 f. I. t. 42.

Saba: Mountain 800 M.: n. 2220 B., 39, 40, 41, 42, 43, 44, 45, 170.

Amer. trop. (Christensen 1906.).

Polypodiaceae.**Dryopteris** Adans.

Dryopteris opposita Urb. in Symbolae Antillanae IV (1903) 14.

Aspidium conterminum Willd. Spec. Plant. V. J. (1810) 249; Gris. Fl. 691.

Nephrodium oppositum Diels in Engl.-Prantl. Nat. Pflanzenfam. I. 4 (1889) 172 (non Hook). (Symb.).

Saba: Gut near Bottom: n. 1434 B.; Top of the Mountain: n. 1798 B., 1808 B., 2151 B., 2195 B.; Mountain near Hellsgate: n. 2285a B.; Mountain: n. 182, 183, 184, 185; Rendez-vous Mountain: n. 186; Crespeen: n. 253 A; locality unknown: n. 1660a B., 220 L. Antill., Amer. cont. trop. (Symb.).

Dryopteris parasitica O. Ktze. Rev. Gen. Pl. 2 (1891) 811.

Aspidium molle Sw. Schrad. Journ. 1800². 34 (1801); Gris. Fl. 693; Millspaugh 468.

St. Eustatius: slope of the Quill 350 M.: n. 407 B.; inner slope of the Quill 350 M.: n. 463 B.; Quill: n. 116, 122; locality unknown: n. 258 H., 258a G., 276 G.; Bengalen: n. 16.

Saba: Gut near the Bottom: n. 1423a B., 1431a B.; Booby-hill: n. 1592a B.; Hellsgate to Sulphurmines: n. 1673 B.; Mountain: n. 1750a B., 1761a B.; Mountaintop: n. 1832 B.; Sulphurmines to Marypoint: n. 2063a B.; Mountain near Hellsgate: n. 2282a B.; Mountain: n. 224, 230, 234; Rendez-vous. 4—600 M.: n. 169; Jenkeygut: n. 15.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2644 B.; in an

orchard near Bellevue: n. 2832 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2895 B.; hill on the northern side of Cul de sac: n. 3007*a* B.; Milldrumhill 300—400 M.: n. 3182 B., 3183 B.; Mount Paradis 300—400 M.: n. 3239 B.; gut from Bethlehem to Cul de sac: n. 3413 B.; Centryhill: n. 76.

St. Croix ex Millspaugh.

Baham., Bermud., Antill., Amer. trop., Africa, Asia austro-orient., Australia, Nova Zeal. (Symb.).

Dryopteris reticulata Urb. Symbolae Antillanae IV (1903) 22.

Meniscium reticulatum Sw. in Schrad. Journ. 1800. II (1801) 10; Gris. Fl. 687.

Saba: Mountain 800 M.: n. 1822 B., 2215 B.

Amer. trop. (Christensen 1906).

Aspidium Sw.

Aspidium Plumierii Presl. Rel. Haenk. I (1830) 29.

Aspidium trifoliatum forma Gris. Flor. W. I. (1864) 695.

St. Eustatius: Quill: n. 123; Bengalen: n. 82; inner slope of the Quill: n. 437 B.

Saba: Mountain 800 M.: n. 2199 B., 1, 2; locality unknown: n. 212 L.

Portorico, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Tobago, Trinidad. (Symb.).

Aspidium trifoliatum Sw. in Schrad. Journ. 1800. II (1801) 303; Gris. Fl. 695 (p.p.). (Symb.).

Saba: Mountain 800 M.: n. 1823 B.; Mountain near Hellsgate 600 M.: n. 2286 B.; Crespeen-Rendez-vous 400 M.: n. 3, 4; Gainbygut: n. 227.

Antill., Amer. centr. and austr. (Symb.).

Polybotrya H. et B.

Polybotrya cervina Klfs. Enum. (1824) 55.

Olfersia cervina Kze. in Regensb. Flora VII. I (1824) 312; Gris. Fl. 678.

Saba: Mountain 800 M.: n. 1819 B., 1824 B., 1826 B., 2118*a* B., 2202 B., Mountain 6—800 M.: n. 70, 71, 72, 168, 202 L., 204 L.

Antill., Amer. cont. trop. (Symb.).

Nephrolepis Schott.

Nephrolepis exaltata Schott Gen. Fil. (1834) ad t. 3; Millspaugh 468.

Aspidium exaltatum Sw. in Schrad. Journ. 1800. II (1801) 32; Gris. Fl. 688.

St. Eustatius: Quill: n. 137; Top of the Quill: n. 138, 141, 142, 143, 144; Gilboohill: n. 1125 B.

Saba: Mountain 800 M.: n. 1802 B., 2194 B., 2197 B.; Mountain near Hellsgate 600 M.: n. 2285 B.; Mountain: n. 62, 63, 64, 65, 66, 67; locality unknown: n. 172 L.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. cont. trop., Afr. trop., Asia austro-orient., Polynes., Australia sept. (Symb.).

Diplazium Sw.

Diplazium semihastatum C. Christensen Index Filicum (1906) 239.

Asplenium bipartitum Spr. Syst. IV (1827) 85.

St. Eustatius: Top of the Quill: n. 100.

Cuba, Jamaica, Portorico. (Christensen 1906).

Diplazium striatum Presl. Tent. pterid. (1836) 114.

Asplenium striatum Linn. Spec. (1753) 1082; Gris. Fl. 686.

Saba: Mountain 800 M.: n. 1833 B., 2203 B., 181, 238, 239.

Antill., Amer. cont. trop. (Symb.).

Asplenium Linn.

Asplenium auritum Sw. in Schrad. Journ. 1800 II (1801) 52; Gris. Fl. 682.

W. I.: Suringar: n. 240.

Antill., Amer. cont. trop., Ins. afric. orient., India orient. (Symb.).

Asplenium cristatum Lam. Enc. 2. (1786) 310.

Asplenium rhizophorum Linn. γ *cicutarium* Sw.; Gris. Fl. 684.

St. Eustatius: Top of the Quill 400 M.: n. 332 B., 333 B.; inner slope of the Quill 350 M.: n. 419 B.; Bottom of the Quill 300 M.: n. 436 B., 451 B.; slope of the lower part of the Quill near Bengalen: n. 730 B.; Bengalen: n. 96, 97, 98; top of the Quill: n. 94; Quill: n. 106, 111, 112, 113, 114; locality unknown: n. 95.

Saba: Springbaygut: n. 2111 B.; Mount Paradis 300—400 M.: n. 3230 B.; Gainbygut: n. 6; Hellsgategut near Devilshand: n. 7; Mountain: n. 2, 3, 4, 8, 10.

Antill., Amer. cont. trop., Afr. trop. (Symb.).

Asplenium monanthes Linn. Mant. (1767) 130.

Saba: Marypointgut: n. 12.

Amer. trop., Ins. Hawaii, Africa and Antlant. Ins. (Christensen 1906).

Asplenium obtusifolium Linn. Spec. (1753) 1080; Gris. Fl. 681.

St. Eustatius: Bottom of the Quill 300 M.: n. 441 B., 467 B. Antill., Amer. cont. trop. (Symb.)

Asplenium pumilum Sw. Prodr. (1788) 129; Gris. Fl. 683.

Saba: Hellsgate to Marypoint: n. 2041 B.

St. Martin: Milldrumhill 300—400 M.: n. 3178 B., 3181 B.;
Mount Paradis 300—400 M.: n. 3213^a B.

Antill., from Mexico to Columbia. (Symb.).

Asplenium serratum Linn. Spec. (1753) 1079; Gris. Fl. 680.

St. Eustatius: slope of the Quill 350 M.: n. 387 B.; Bottom of
the Quill 300 M.: n. 444 B., 450 B.; Quill: n. 179; Top of the
Quill: n. 177, 178; locality unknown: n. 150.

Saba: locality unknown: n. 211 L.

Antill., Amer. centr. and austr., Ins. Societ. (Symb.).

Blechnum Linn.

Blechnum occidentale Linn. Syst. X ed. II (1759) 1322; Gris.
Fl. p. 673; Millspaugh 469.

St. Eustatius: slope of the Quill 350 M.: n. 385 B.; inner
slope of the Quill 350 M.: n. 1225 B.; Top of the Quill: n. 135;
slope of the Quill: n. 78, 79, 136.

Saba: Bottom 200 M.: n. 1449 B.; Hellsgate: n. 1689 B.;
Springbaygut: n. 2113 B.; 2114 B.; Mountain near Windward
side 600 M.: n. 2168 B., 2172 B.; Mountain: n. 35; Mountain
6—800 M.: n. 23, 233; Peperpot: n. 25, 26; Crespeen—Rendez-
vous 400 M.: n. 34; Gainbygut: n. 24.

St. Martin: Marigotroad near Marigot: n. 2803 B.; Mount
Paradis 300—400 M.: n. 3342 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Stenochlaena J. Sm.

Stenochlaena sorbifolia J. Sm. in Hook. Journ. of Bot. IV
(1842) 149; Gris. Fl. 674.

St. Eustatius: Bottom of the Quill 300 M.: n. 470 B., 453 B.,
Top of the Quill: n. 242^a B.; Quill: n. 130, 131, 132, 133; Boven:
n. 80; Bengalen: n. 81.

Saba: Top of the Mountain: n. 221; locality unknown: n. 181 L.

Antill., Amer. cont. trop., Afr. trop., Asia austro-orient., Ins.
Monsun., Polynes. (Symb.).

Hemionitis Linn.

Hemionitis palmata Linn. Spec. (1753) 1077; Gris. Fl. 678;
Millspaugh 469.

St. Martin: Nakedboyhill 50—200 M.: n. 2716 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2893 B.; Milldrumhill 200—300 M.: n. 3118 B.

St. Croix ex Millspaugh.

Antill., from Mexico to Peru. (Symb.).

Neurogramme Lk.

Neurogramme calomelanos Diels in Engl.-Prantl Nat. Pflanzenfam. I. 4 (1899) 264.

Gymnogramme calomelanos Kaulf. Enum. Fil. (1824) 76; Gris. Fl. 679; Millspaugh 469.

St. Eustatius: in a garden in Oranjestad: n. 68 B.; top of the Quill 380 M.: n. 270 B., 314 B.; slope of the Quill 350 M.: n. 386 B.; slope of the Quill near Bengalen: n. 744 B.; in a garden near Glassbottle: n. 1208 B.; top of Pangahill: n. 128; seashore: n. 125; Boven: n. 126, 127, 129; Greatgut: n. 124; locality unknown: n. 140 G., 189 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1302 B.; 1367 B.; along the seashore near Forthbaylanding: n. 1649 B.; Saddle: n. 1659 B.; Mountain 800 M.: n. 1795 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2060 B., 2069 B.; Springbaygut: n. 2089 B.; seashore near Forthbaylanding: n. 2148 B.; Mountain near Windwardside 600 M.: n. 2167 B., 2179 B.; Ladderlanding: n. 232, 240; Greathill 200—400 M.: n. 18; Mountain: n. 167; Peperpot: n. 10; Crespeen-Rendez-vous: n. 17; locality unknown: n. 1473 B., 199 L.

I saw *Neurogramme calomelanos* also: near the Sulphurmines; Crespeenhill.

St. Martin: Milldrumhill 300—400 M.: n. 3177 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afr. trop., Samoa. (Symb.).

Cheilanthes Sw.

Cheilanthes microphylla Sw. Syn. Fil. (1806) 127; Gris. Fl. 667; Millspaugh 469.

St. Eustatius: along roads in Oranjestad: n. 943a B.; Cultuurvlakte; n. 118; Quill: n. 121; Oranjestad: n. 115.

Saba: between Bottom and Marypoint 100—200 M.: n. 1513 B.; seashore near Forthbaylanding: n. 1651 B.; Laddergut: n. 1996 B.; Bottom: n. 228.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Adiantum Linn.

Adiantum tenerum Sw. Prodr. (1788) 135; Gris. Fl. 666; Millspaugh 469. Maiden hair.

St. Eustatius: Mountain (dedit Mr. Falk): n. 104, 105, 106; Bengalen: n. 110; locality unknown: n. 109.

Saba: Paris 400 M.: n. 1373 B.; lower part of the Bottom Mountain 250 M.: n. 1412 B.; along roads between Bottom and Windwardside 200 M.: n. 1320 B.; Ladder: n. 229; Peperpot: n. 13; Greathill: n. 14, 15, 16; Gainbygut: n. 8.

St. Martin: along roads from Colebay to Simsonbay: n. 3247 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Pteris Linn.

Pteris biaurita Linn. Spec. (1753) 1076; Gris. Fl. 669.

Saba: Gut between Hellsgate and Masticgut 300—400 M.: n. 2066 B.; Springbaygut: n. 2112 B.; Mountain near Hellsgate 600 M.: n. 2283 B.; Peperpot: n. 30, 36, 37, 38; Gainbygut: n. 27, 28, 29.

Antill., Amer., Afr., Asia trop. (Symb.).

Lonchitis Linn.

Lonchitis hirsuta Linn. Spec. (1753) 1078.

Pteris laciniata Willd. Spec. Plant. V. I (1810) 397; Gris. Fl. 669.

Saba: Top of the Mountain 800 M.: n. 2218 B.

Antill., Americ. cont. trop. (Symb.).

Vittaria Sw.

Vittaria lineata Sw. in Schrad. Journ. 1800. II (1801) 72; Gris. Fl. 671.

St. Eustatius: Top of the Quill 400 M.: n. 335 B.; slope of the Quill 350 M.: n. 405 B.; top of the Quill: n. 157. 158.

Baham., Antill., Amer. cont. trop. untill Florida, Afr. trop. untill Cap, Asia austro-orient. untill Japon. (Symb.).

Heteropteris Fee.

cf. *Paltonium* Presl. (Christensen 1906).

Heteropteris lanceolata Fée ex Moore Ind. Fil. (1857) 343; Diels in Engl.-Prantl. Nat. Pflanzenfam. I. 4. (1899) 305 fig. 161 E.

Paltonium lanceolatum Pr. Epim. 156 (1849) 156. (Christensen 1906).

Taenitis lanceolata R. Br. Prodr. (1810) 154; Gris. Fl. 671; Millspaugh 469.

St. Eustatius: Top of the Quill 400 M.: n. 243 B., 316^a B.; slope of the Quill near Bengalen 250 M.: n. 698 B.

St. Martin: Mount Paradis 300—400 M.: n. 3231 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. centr. (Symb.).

Polypodium Linn.

Polypodium aureum Linn. Spec. (1753) 1087; Gris. Fl. 698; Millspaugh 469.

St. Eustatius: along roads in Oranjestad: n. 531 B.; slope of the Quill near Bengalen 250 M.: n. 698 B.

Saba: Windwardside—Hellsgate: n. 1661 B.; lower part of the Bottom Mountain 300 M.: n. 1441 B.; Windwardside: n. 1948 B.; Mountain near Hellsgate 600 M.: n. 2287 B.; Quarter: n. 236.

St. Martin: Mountain between Mont des Accords and Centry-hill 200—300 M.: n. 2903 B.; Milldrumhill 300—400 M.: n. 3134 B.; Mount Paradis 300—400 M.: n. 3223 B., 3233 B., 3235 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop. (Symb.).

Polypodium brasiliense Poir. Enc. 5. (1804) 525.

Polypodium nerüfolium Schkuhr Kr. Gew. I. 14. t. 15. (1806); Gris. Fl. 698.

St. Eustatius: Top of the Quill 400 M.: n. 291 B., 300 B., 321 B.; Top of the Quill 500 M.: n. 485 B., 83, 140; Quill: n. 134, 139.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1294 B.; Parishill 200—400 M.: n. 225, 226.

St. Martin: Milldrumhill 300—400 M.: n. 3144 B.

Amer. trop. (Christensen 1906.).

Polypodium crassifolium Linn. Spec. (1753) 1083; Gris. Fl. 703.

Saba: Mountain 800 M.: n. 2193 B.; 48, 49, 51; locality unknown: n. 61 L.

Antill., Amer. cont. trop. (Symb.).

Polypodium loriceum Linn. Spec. (1753) 1086; Gris. Fl. 698.

Saba: Mountain 800 M.: n. 2191 B., 232, 237.

Antill., Amer. cont. trop. (Symb.).

Polypodium lycopodioides Linn. Spec. (1753) 1082; Gris. Fl. 702. Bastard catclaw.

St. Eustatius: Top of the Quill 380 M.: n. 259 B., 266 B., 408 B.; slope of the Quill near Bengalen 200 M.: n. 692 B.; Signal-hill 200 M.: n. 1051 B.; Slope of the Quill: n. 151, 153; Quill: n. 145, 152; Bengalen: n. 146, 147; locality unknown: n. 179 G., 261 H.

Saba: Paris 400 M.: n. 1374 B., 54; between Bottom and Marypoint 100—200 M.: n. 1499 B.; Mountain 600 M.: n. 1743 B., 57; Windwardside: n. 1941 B.; Springbaygut: n. 2094 B.; Mountain near Hellsgate: n. 2282 B.; Peperpot: n. 55; Crespeen—Rendez-vous 400 M.: n. 60; locality unknown: n. 56, 49 L.

St. Martin: Nakedboyhill 200—260 M.: n. 2722 B., 2724 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2902 B.; Mount Paradis 300—400 M.: n. 3227 B., 3229 B.; Mount Paradis 200—300 M.: n. 3318 B.; Centryhill: n. 75.

Antill., Amer. cont. trop., Afr., Java, Ins. Sandw. (Symb.).

Polypodium phyllitidis Linn. Spec. (1753) 1083; Gris. Fl. 702; Millspaugh 470.

St. Eustatius: Top of the Quill 400 M.: n. 235 B., 320 B.; inner slope of the Quill 350 M.: n. 462 B.; Top of the Quill 500 M.: n. 484 B.; Slope of the Quill near Bengalen 250 M.: n. 704 B., 705 B.; Slope of the Quill: n. 159; Quill: n. 101, 160, 161; Bengalen: n. 162; locality unknown: n. 183 G., 257 H.

Saba: Windwardside—Hellsgate: n. 1667 B.; Springbaygut: n. 2109 B.; Mountain 400—800 M.: n. 52; Gainbygut: n. 47.

St. Martin: Milldrumhill 300—400 M.: n. 3138 B.; French frontier: n. 74.

St. Croix ex Millspaugh.

Baham., Antill., from Florida until Bras. (Symb.).

Polypodium piloselloides Linn. Spec. (1753) 1080; Gris. Fl. 701; Millspaugh 470.

Lepicystis piloselloides Diels in Engl.-Prantl. Nat. Pflanzenfam. I. 4 (1899) 323.

Saba: Boobyhill 300 M.: n. 1581 B.; Mountain 800 M.: n. 1804 B.; St. Giles: n. 1866 B.; Mountain near Windwardside 600 M.: n. 2171 B.; Crispeen-Rendez-vous 400 M.: n. 61, 235; Hellsgategut near Devilshand: n. 53.

St. Martin: Mount Paradis 300—400 M.: n. 3218 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Polypodium plumula H. B. Willd. Sp. V (1810) 178.

St. Eustatius: Top of the Quill 400 M.: n. 222 B., 237 B., 311 B.; slope of the Quill 350 M.: n. 406 B.; slope of the Quill near Bengalen 250 M.: n. 694 B.; slope of the Quill: n. 89, 90; Quill: n. 85, 86, 88; Top of the Quill: n. 37; Bengalen: n. 84.

Saba: Crispeen: n. 68.

Florida, Amer. trop. (Christensen 1906).

Polypodium serrulatum Mett. Fil. hort. Lips. (1856) 30.

Xiphopteris serrulata Kaulf. Enum. (1824) 85; Gris. Fl. 703.

Saba: Mountain 800 M.: n. 1834 B.

Antill., Amer. cont. trop., Afr., Ins. Sandw. (Symb.).

Polypodium squamatum Linn. spec. (1753) 1086.

Lepicystis squamata J. Sm. Brit. and For. Ferns (1866) 80.

St. Eustatius: slope of the Quill near Bengalen 50—200 M.: n. 643 B., 663 B.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1306 B.; Mountain 600 M.: n. 1771 B.; Laddergut 0—200 M.: n. 2021 B.; Paris: n. 32; Peperpot: n. 22; Mountain: n. 9; Gainbygut: n. 21; Laddergut: n. 31; Hellsgategut: n. 33.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2856 B.; Mount Paradis 300—400 M.: n. 3232 B.; French frontier: n. 77.

Antill., Amer. cont. from Mexico to Peru. (Symb.).

Polypodium trichomanoides Sw. Prodr. (1788) 131; Gris. Fl. 701.

Saba: Mountain 800 M.: n. 1817 B., 1835 B., 1837 B.

Antill., Amer. austr., Ascencion, Asia austro-orient. (Symb.).

Elaphoglossum Schott.

Elaphoglossum conforme Schott. Gen. ad. t. 14 (1834).

Acrostichum conforme Sw. Syn. 10 192 t. 1 f. 1 (1806); Gris. Fl. 677.

St. Eustatius: Top of the Quill 400 M.: n. 302 B., 327 B., 363 B., 384 B., 180; locality unknown: n. 1147a B.

Saba: Mountain 800 M.: n. 1820 B., 50.

Amer. trop. (Christensen 1906).

Elaphoglossum latifolium J. Sm. in Hook. Lond Journ. Bot. I (1842) 197.

Acrostichum latifolium Sw. Prodr. (1788) 128; Gris. Fl. 677.

Saba: Mountain 800 M.: n. 2208 B.

Antill., Amer. cont. trop. (Symb.).

Elaphoglossum petiolatum Urb. in Symbolae Antillanae V (1903) 61.

Acrostichum viscosum Vent. ap. Sw. Syn. Fil. (1806) 193; Gris. Fl. 676.

St. Eustatius: Top of the Quill: n. 192a B., 248a B.

Antill., Amer. cont. trop. until Argentina, Africa trop., Asia austro-orient., Ins. Monsun. (Symb.).

Gleicheniaceae.**Gleichenia** J. E. Smith.**Gleichenia bifida** Spreng. Syst. IV. I (1827) 27.*Mertensia furcata* Gris. Fl. W. I. (1861) 651 (non Spreng.). (Symb.).**Saba:** Mountain 800 M.: n. 2227 B., 69.

Antill., Amer. cont. trop. (Symb.).

Ophioglossaceae.**Ophioglossum** Linn.**Ophioglossum reticulatum** Linn. Spec. (1753) 1063; Gris. Fl. 649.**Saba:** Mountain 6—800 M.: n. 73.

Antill., Amer. cont. trop., Africa. (Symb.).

Lycopodiaceae.**Lycopodium** Linn.**Lycopodium taxifolium** Sw. Prodr. (1788) 138; Gris. Fl. 647.**St. Eustatius:** Top of the Quill: n. 479a B.**Saba:** Top of the Mountain: n. 2200a B., 27.

Antill., Amer. cont. from Mexico to Brasil. austr. (Symb.).

Lycopodium verticillatum Linn. fil. Suppl. (1781) 448; Gris. Fl. 647.**Saba:** Mountain 650 M.: n. 21, 26.

Antill., Amer. cont. trop., Afr. austr. et orient., Polynesia. (Symb.).

Psilotaceae.**Psilotum** Sw.**Psilotum nudum** Gris. Veg. Kar. (1857) 130.*Psilotum triquetrum* Sw. in Schrad. Journ. 1800. II (1801) 109; Gris. Fl. 648.**Saba:** Crespeen-Rendez-vous: n. 1761a B., 30.; Paris: n. 20; Greathill: n. 15; Mountain: n. 25.

Baham., Antill., Trop. countries of both hemisph. (Symb.).

Selaginellaceae.**Selaginella** Spring.**Selaginella flabellata** Spring Mon. Lyc. (1849); Gris. Fl. 646.**Saba:** Mountain: n. 1778a B., 22, 24, 29, 214 L.

Antill., Amer. merid. sept. (Pulle.)

Selaginella substipitata Spring. Mon. Lyc. (1849); Gris. Fl. 645.

Saba: Mountain 6- 800 M.: n. 1813*a* B., 2206*a* B., 2221*a* B., 2227*a* B., 23, 28.

Antill., Panama to Brasil. and Peru. (Gris. Fl.).

Gymnospermae.

6. Pinaceae.

45. *Juniperus* Linn.

Juniperus bermudiana Linn. Spec. (1753) 1039.

Cultivated [Bermudas, Barbados.] (Ind. Kew.).

Juniperus virginiana Linn. Spec. (1753) 1039.

Cultivated [Amer. septentr.] (Ind. Kew.).

Monocotyledoneae.

11. Potamogetonaceae.

60. *Cymodocea* C. H. König.

Cymodocea manatorum Aschers. in Sitzungsber. Ges. naturforsch. Freunde, Berlin (1868) 19; Duss 473; Millspaugh 470.

St. Martin: near Fort Amsterdam: n. 38; Simsonbay lagoon: n. 3260 B.

Suringar saw the *Cymodocea manatorum* also in Simsonbay lagoon.

St. Croix ex Millspaugh.

Bermud., Key West, Antill. (Symb.).

19. Gramineae.

102. *Zea* Linn.

Zea Mays Linn. Spec. (1753) 971.

Cultivated. [Amer. austr. Peru. ?] (Symb.).

111. *Saccharum* Linn.

Saccharum officinarum Linn. Spec. (1753) 54.

Cultivated. [Asia austro-orient. ?] (Symb.).

134. **Andropogon** Linn.

Andropogon bicornis Linn. Spec. (1753) 1046; Duss 530.

Anatherum bicorne Beauv. agrost. (1812) 15; Gris. Fl. 559.

Saba: Greathill: n. 214; between Bottom and Marypoint
300 M.: n. 1480a B.

Antill., Amer. cont. trop., Teneriffa. (Symb.).

Andropogon contortus Linn. Sp. (1753) 1045; Duss 528.

Andropogon secundus Willd. ex Nees. Agrost. Bras. (1829) 364.
Gris. Fl. 558.

St. Eustatius: Near Boven 200 M.: n. 1238 B., 1239 B.

Domingo, Haïti, Antigua, Guadeloupe. (Herb. Krug et Urban.).

Andropogon glomeratus Britton, Stern. et Poggenb. Prel. Cat.
(1888) 67.

Andropogon macrouros Michx. Flor. bor. amer. I (1803) 56.

Anatherum macrourum Gris. Flor. W. I. (1864) 559.

Saba: Mountain near Windwardside 600 M.: n. 2169 B.

Baham., Antill., Amer. centr. and sept. (Symb.).

Andropogon Schoenanthus Linn. Spec. (1753) 1046.

Cultivated. [Ind. orient., Afr. trop., Asia.] (Hackel 1859).
Lemon grass.

Andropogon sorghum Brot. Flor. lusit. I (1804) 88.

Cultivated. Creole corn, Guinea corn.

Andropogon zizanioides Urb. Symb. Ant. IV. (1903) 79.

Andropogon squarrosus Linn. fil. Suppl. (1781) 433; Duss 529.

Vetiveria arundinacea Griseb. Flor. W. I. (1864) 559.

St. Eustatius: locality unknown: n. 287 G.

Antill., Bras., from Ind. orient.? (Symb.).

140. **Antheophora** Schreb.

Antheophora hermaphroditica O. Ktze. Rev. II (1891) 759.

Antheophora elegans Schreb. Besch. Gräs. III (1810) 105 t. 44;
Gris. Fl. 556; Duss 527; Millspaugh 471.

St. Eustatius: Along roads in Oranjestad: n. 559 B., 1094 B.,
1107 B.

Saba: Along roads between Bottom and Windwardside 200 M.:
n. 1342 B.; Ladder: n. 376.

St. Martin: Guanabay: n. 2427 B.

St. Croix ex Millspaugh.

Antill., Curaçao, Aruba, Amer. cont. trop. (Symb.).

143. **Tragus** Hall.

Tragus racemosus Haller. Hist. Stirp. Helv. II (1768) 203.

Lappago aliena Spreng. Neue Entd. III (1822) 15; Gris. Fl. 557.

Nazia aliena Millsp. in Millspaugh 471.

St. Eustatius: Between Oranjestad and Fort de Wind on the top of the Cliff: n. 707 B.; Hill near Concordia: n. 946 B.; near White Wall: n. 1259 B.

Saba: St. Giles: n. 1870 B.

St. Martin: From Philipsburg to Guanabay: n. 2367 B.; Naked-boyhill 50—200 M.: n. 2676 B.; from Philipsburg to Point blanche: n. 3404 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Curaçao, Aruba, trop. and subtrop. countries of both hemisph. (Symb.).

161. **Paspalum** Linn.

Paspalum conjugatum Bergius in Act. helv. VII (1772) 129 t. 8; Gris. Fl. 541; Duss 591; Millspaugh 471. Crabgrass.

Saba: Between Bottom and Marypoint 100—200 M.: n. 1470 B.; Mountain 600 M.: n. 1776 B.; Gainbygut: n. 101.

St. Martin Mountain between Mont des Accords and Centry-hill 200—300 M.: n. 2907 B.; Mount Paradis 300—400 M.: n. 3242 B.

St. Croix ex Millspaugh.

Antill., trop. countries of both hemisph. (Symb.).

Paspalum fimbriatum H. B. K. Nov. Gen. I (1815) 93 t. 28; Gris. Fl. 542; Duss 511; Millspaugh 472.

St. Eustatius: Along roads in Oranjestad: n. 1109 B.; along roads near Glassbottle: n. 1213 B.; Slope of the Quill: n. 963.

Saba: Along roads between Bottom and Windwardside 200 M.: n. 1290 B.; between Bottom and Marypoint 100—200 M.: n. 1509 B.; along roads 200—300 M.: n. 1711 B.; Laddergut 0—200 M.: n. 2017 B.; Peperpot: n. 1018; Crespeen-Rendez-vous: n. 988.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. austr. (Symb.).

Paspalum hemisphaericum Poir. in Lam. Enc. V (1804) 31.

Paspalum panniculatum Willd. Spec. plant. I (1798) 331; (non Linn.) Gris. Fl. 543; Duss 512. (Symb.).

St. Eustatius: Along roads in Oranjestad: n. 553 B.; slope of the Quill 200 M.: n. 879 B.; slope of the Quill on the side of White Wall 200 M.: n. 1167 B.

Saba: Between Bottom and Marypoint 100—200 M.: n. 1525 B.; Laddergut: n. 2009 B.; pastureground on Middle Island: n. 2247.

St. Martin: near Mulletpond: n. 2763 B., 2782 B.; in pasture ground near Bellevue: n. 2827 B.; between Belvedere and Oysterpond: n. 3068 B.; Lowlands: n. 3281 B.

Anguilla Boldingh.

Antill., warmer parts of Amer. (Symb.).

165. **Isachne** Pr. Br.

Isachne arundinaceae Gris. Fl. W. I. (1864) 553; Duss 523.

Saba: Top of the Mountain: n. 2196 B.

Jamaica, Portorico, St. Kitts, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada. (Symb.).

Isachne rigens Trin. Gram. Panic. (1836) 252; Gris. Fl. 553; Duss 524.

Saba: Top of the Mountain 800 M.: n. 1386.

Antill., Venezuela. (Gris. Fl.).

166. **Panicum** Linn.

Panicum brevifolium Linn. Spec. (1753) 59; Gris. Fl. 552; Duss 522.

Saba: Lower part of the Bottom Mountain 300 M.: n. 1433 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2031 B.; Springbaygut: n. 2100 B., 2122 B.

Antill., Cuba and Mexico to Bras. (Gris. Fl.).

Panicum colonum Linn. Syst. X ed. II (1759) 870; Gris. Fl. 545; Duss 515; Millspaugh 472.

Saba: Middle Island: n. 1613 B., 1613a B.

St. Martin: Cul de Sac: n. 2614 B.; in pasture ground near Bellevue: n. 2841 B.; Centry hill: n. 606; Colebayhill: n. 207.

St. Croix ex Millspaugh.

Antill., Curaçao, trop. and warmer countries of both hemisph. (Symb.).

Panicum diffusum Sw. Prodr. (1788) 23; Duss 518.

St. Eustatius: Gut near Fort de Wind 50 M.: n. 839 B.

St. Martin: from Filipsburg to Guanabay: n. 2379 B.; Marigotroad: n. 2808 B.; in orchard near Bellevue: n. 2838 B.; Mountain between

Mont des Accords and Centry hill: n. 2864 B.; along roads from Colebayhill to Simsonsbay: n. 3015 B.; between Belvedere and Oysterpond: n. 3077 B.; Tintamarre: n. 3394 B.

Anguilla Boldingh.

St. Croix (Symb.)

Cuba, Jamaica, Hispaniola, St. Thomas, St. Jan, St. Barthélemy, Antigua, Guadeloupe, Martinique. (Symb.).

Panicum divaricatum Linn. Syst. X ed. II (1799) 871; Gris. Fl. 551; Duss 521; Millspaugh 472. Cane grass, wild cane.

St. Eustatius: Top of the Quill 400 M.: n. 238 B.; inner slope of the Quill 350 M.: n. 417 B.; slope of the Quill near Bengalen 150 M.: n. 676 B.; slope of the Quill near Bengalen 100 M.: n. 750 B.; seashore near White Wall: n. 850 B.; from Little Mountain to Venusbay: n. 990 B.; slope of the Quill: n. 584; Sugarloaf: n. 564 B.; Quill: n. 194 G., 234 H.

Saba: between Bottom and Marypoint 400 M.: n. 1484 B.; gut between Hellsgate and Masticgut: n. 2070 B.; Peperpot: n. 561, 589; Rendez-vous 400 M.: n. 593; locality unknown: n. 303 L.

St. Martin: Marigothill — Marigot 0—200 M.: n. 2645 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2896 B.; Mildrumhill: n. 3050 B.; near Bellevue: n. 3356a B.; Centryhill: n. 559; near the French frontier: n. 568, 586.

I saw *Panicum divaricatum* in St. Martin also on Mount Paradis 300—400 M., hills on the northern side of Cul de Sac and Nakedboyhill 100—200 M.

St. Croix ex Millspaugh.

Key Ins., Baham., Antill., Amer. cont. trop. (Symb.).

Panicum fuscum Sw. Prod. Veg. Ind. Occ. (1788) 23; Gris. Fl. 546; Duss 516; Millspaugh 472.

St. Eustatius: in deserted plantations at the seashore near Bengalen: n. 598 B.; slope of the lower part of the Quill near Bengalen: n. 724 B.; along roads in Oranjestad: n. 1095 B.; Cultuurvlakke: n. 610.

Saba: between Bottom and Marypoint 100—200 M.: n. 1543 B., 1562 B.; Boobyhill: 1583 B.; locality unknown: n. 147 bis L.

St. Martin: Nakedboyhill: n. 2699 B.; along roads near Bethlehem: n. 2935 B.

St. Croix ex Millspaugh.

Jamaica. (Ind. Kew.)

Panicum geminatum Forsk. Flor. aeg. arab. (1775) 18.

Panicum paspaloides Pers. Syn. I (1805) 81; Gris. Fl. 545; Duss 514; Millspaugh 473.

St. Martin: between Belvedere and Oysterpond: n. 3069 B.

Anguilla Boldingh.

St. Croix ex Millspaugh 473.

Florida, Bermud., Baham., Antill., Aruba, trop countries of both hemisp. (excl. Australia.) (Symb.).

Panicum insulare G. F. W. Mey. Prim. Esseq. (1818) 60.

Tricholaena insularis Gris. Flor. W. I. (1864) 557.

Panicum leucophaeum H. B. K. Nov. Gen. I (1815) 97; Duss 522.

Syntherisma insularis Millsp. in Millspaugh 437.

Long grass.

St. Eustatius: in a garden in Oranjestad: n. 67 B., 1063a B.; along roads in Oranjestad: n. 575 B., 1070 B., 1096 B.; slope of the lower part of the Quill near Bengalen: n. 723 B.; slope of the Quill 300 M.: n. 881 B.; along roads near English Quarter: n. 1000 B., 770; near Boven: n. 1251 B.; Cultuurvlakte: n. 771; Mountain near Bengalen: n. 772.

Saba: Boobyhill 300 M.: n. 1579 B.; Ladderigut 200 M.: n. 2003 B.; Ladder: n. 1195; Greathill: n. 1206; locality unknown: n. 294 L.

I saw *Panicum insulare* in great quantities also; Gut between Hellsgate and Masticgut; Crespeenhill; Flat point.

St. Martin: from Philipsburg to Guanabay: n. 2397 B.; lower part of the Milldrumhill: n. 3175 B.; Mount Paradis 300—400 M.: n. 3331 B.

I also saw *Panicum insulare*: Nakedboyhill; Marigothill—Marigot.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida austr., Baham., Amer. cont. from Texas to Patagonia. (Symb.).

Panicum maximum Jacq. Ic. pl. rar. I (1781) 2, t. 13; Gris. Fl. 549; Duss 519; Millspaugh 472. Guinea grass.

St. Eustatius: in a garden in Oranjestad: n. 1063 B.; slope of the Quill: n. 1404; Cultuurvlakte: n. 1402.

Saba: Boobyhill 300 M.: n. 1580 B.; Bottom: n. 1411; locality unknown: n. 240 L.

St. Martin: Top of the hills on the northern side of Cul de Sac: n. 2988 B.

I also saw *Panicum maximum*, and in great quantities: from Bethlehem to Cul de Sac, Top of Mount Paradis 400 M.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop., Afr. trop. and subtrop. (Symb.).

Panicum molle Sw. Prodr. (1788) 2; Gris. Fl. 547; Duss 518.*Panicum barbinode* Trin. in Millspaugh 472. Paragrass,**St. Eustatius**: Slope of the Quill near Glassbottle: n. 1201 B.

I did not collect this plant in Saba, but from my notes it appears that I saw the plant cultivated in Windwardside.

I do not remember that I saw this plant in St. Martin, but I believe that, as it is cultivated in St. Eustatius and Saba, I may not hold myself entitled to say that *Panicum molle* might not be found in St. Martin as well.

Anguilla Boldingh.**St. Croix** ex Millspaugh.

Baham., Antill., Curaçao, Amer. cont. trop. (Symb.).

Panicum prostratum Lam. Ill. I (1791) 171; Gris. Fl. 546; Duss 515; Millspaugh 473. Runninggrass.

St. Martin: Nakedboyhill 50—200 M.: n. 2698 B.; between Belvedere and Oysterpond: n. 3071 B.; Mount Paradis 150—400 M.: n. 3190 B., 200—300 M.: n. 3315 B.; lowerpart of Milldrumhill: n. 3165 M.: n. 3165 B.; Tintamarre: n. 3377 B., 3383 B.

Anguilla Boldingh.**St. Croix** ex Millspaugh.

Antill., Curaçao, trop. countries of both hemisph. (Symb.).

Panicum sanguinale Linn. Spec. (1753) 57; Duss 522.

Digitaria marginata Lk. Enum. I (1821) 102 et *Digitaria setigera* Roth. ap. R. et Sch. Syst. II (1817) 474?; Gris. Fl. 544.

Syntherisma sanguinale Dulac. Flor. Hautes-Pyrén. (1867) 77; Millspaugh 473. Haygrass.

St. Eustatius: along roads in Oranjestad: n. 530 B., 1097 B.; Bengalen: n. 614 B., 748 B.; slope of the Quill near Bengaleu 50 M.: n. 662 B.; slope of the Quill: n. 1860; locality unknown: n. 2600.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1326 B.; lower part of the Bottom Mountain 250 M.: n. 1430 B.; between Bottom and Marypoint 100—200 M.: n. 1560 B.; top of the Cliff near the seaside of Boobyhill: n. 1604 B.; Laddergut 0—200 M.: n. 2013 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2068 B.; locality unknown: n. 2603, 273 L.

St. Martin: from Philipsburg to Guanabay: n. 2363 B.; along the saltpond near Philipsburg: n. 2450 B.; from Philipsburg to Belvedere: n. 2599 B.; in pastureground near Bellevue: n. 2829 B.; top of the hills on the northern side of Cul de Sac 200—300 M.: n.

2987 B.; pastureground near Belvedere: n. 3051 B.; lower part of Milldrumhill: n. 3114 B.; Lowlands: n. 3289 B.; locality unknown: n. 2601.

I also saw *Panicum sanguinale* in Tintamarre.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., trop. countries of both hemisph. (Symb.).

167. *Ichnanthus* Beauv.

Ichnanthus pallens Munro ex Benth. Fl. Hongk. (1861) 414.

Panicum pallens Sw. Prod. Veg. Ind. Occ. (1788) 23; Gris. Fl. 550; Duss 520.

Saba: Top of the Mountain: n. 1794 B., 2213 B.; locality unknown: n. 206 L.

St. Martin: locality unknown: n. 3430^a B.

Antill., Guiana Gallica. (Herb. Krug et Urban.).

169. *Oplismenus* Beauv.

Oplismenus setarius R. et Sch. Syst. II (1817) 481; Duss 514.

Orthopogon setarius Spreng. Syst. I (1825) 306; Gris. Fl. 545. comp. Millspaugh 473. Running mountaingrass.

St. Eustatius: inner slope of the Quill 350 M.: n. 414 B.; Quill: n. 260 H., 274 G.

Saba: Lower part of the Bottom Mountain 250 M.: n. 1408 B.; Bottom 200 M.: n. 1453 B.; Boobyhill 350 M.: n. 1600 B.; Mountain near Windwardside 600 M.: n. 2182 B.; locality unknown: n. 53 L.

St. Martin: Marigothill—Marigoth 0—200 M.: n. 2643 B.

I also saw *Oplismenus setarius* near Bellevue under old *Mangifera* trees and on the hill between Mont des Accords and Centryhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. cont. trop, Asia trop. (Symb.).

171. *Setaria* Beauv.

Setaria glauca Beauv. Agrost. (1812) 51; Gris. Fl. 554; Duss 524.

Chaetochloa glauca (Linn.) Scribn. in U. St. Dep. of Agr. Div. of Agrost. Bull. n. 4 (1897) 39; Millspaugh 473.

St. Eustatius: in a garden in Oranjestad: n. 523 B.; along roads in Oranjestad: n. 1108 B.; slope of the Quill: n. 435.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1289 B., 1328 B.; Mountain 600 M.: n. 1772 B.; locality unknown: n. 133 L.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., trop. and temp. countries of both hemisph. (Symb.).

Setaria setosa Beauv. Agrost. (1812) 51; Gris Fl. 555; Duss 525.

Chaetochloa setosa (Sw.) Scribn. in U. S. Dep. Agr. Div. Agrost. Bull. 4 (1897) 37; Millspaugh 473.

St. Eustatius: Slope of Signalhill: n. 1054 B.; along roads in Oranjestad: n. 1130 B.; slope of Signalhill: n. 451; seashore: n. 386, 389; along roads in Oranjestad: n. 452; locality unknown: n. 278 G.

Saba: Top of the Cliff near the seaside of Boobyhill: n. 1608 B.; Mountain 800 M.: n. 1812 B.; Bottom: n. 1857 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2064 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2688 B., 2694 B.; between Belvedere and Oysterpond: n. 3070 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Setaria viridis Beauv. Agrost. (1812) 51; Gris. Fl. 554.

St. Martin: from Philipsburg to Guanabay: n. 2404 B.

Jamaica, Europa and Asia sept. (Gris. Fl.).

174. **Cenchrus** Linn.

Cenchrus tribuloides Linn. Spec. (1753) 1050; Gris. Fl. 556; Duss 526. Burrgrass.

St. Eustatius: Slope of the lower part of Signalhill: n. 109 B.; slope of the Quill near Bengalen 100 M.: n. 673 B.; Fort de Wind: n. 802 B.; along roads near Glassbottle: n. 863 B.; lower part of the hills near Concordia: n. 984 B.; along roads near Bengalen: n. 1191 B.; locality unknown: n. 249 G., 265 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1283 B.; between Bottom and Marypoint 100—200 M.: n. 1539 B., 1563 B.; along roads: n. 1710 B.; Ladder: n. 1372.

I also saw *Cenchrus tribuloides* in the gut between Hellsgate and Masticgut

St. Martin: from Philipsburg to Guanabay: n. 2402 B.; Colebay (coll. George): n. 2518 B.; near Mulletpond: n. 2758 B., 2775 B.; in pasture ground near Bellevue: n. 2830 B.; along roads near Bethlehem: n. 2932 B.; Tintamarre: n. 3385 B.

I also saw *Cenchrus tribuloides*: Top of Mount Paradis 400 M.; Naked-boyhill.

Anguilla Boldingh.

Bermud., Baham., Antill., Aruba, Bonaire, Amer. cont. trop. (Symb.).

175. **Pennisetum** L. Cl. Rich.

Pennisetum setosum Rich. in Pers. Syn. I (1805). 72; Gris. Fl. 555; Duss 525.

St. Eustatius: Slope of the Quill: n. 241.

Trop. countries of both hemisph. (Ind. Kew.).

186. **Pharus** Linn.

Pharus glaber H. B. K. Nov. Gen. I (1815) 196; Gris. Fl. 536; Duss 505; Millspaugh 474.

St. Eustatius: Top of the Quill 400 M.: n. 330 B.; inner slope of the Quill 350 M.: n. 413 B., 415 B., 1221 B.; Bottom of the Quill 300 M.: n. 908 B.; slope of the Quill: n. 1380; Quill: n. 1377, 1385, 1379; Bengalen: n. 1382; locality unknown: n. 1381; Quill: n. 225 G.

Saba: Boobyhill 300 M.: n. 1573 B.; 350 M.: n. 1613 B.; locality unknown: n. 34 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2858 B.

St. Croix ex Millspaugh.

Antill., Amer. austr. (Symb.).

208. **Aristida** Linn.

Aristida americana Linn. Syst. X ed. II (1759) 879; Gris. Fl. 534; Duss 503.

Bouteloua juncifolia Lag. Gen. et Spec. nov. (1816). 5.

Bouteloua litigosa Lag. Gen. et Spec. nov. (1816). 5. Millspaugh 475. Mulegrass.

St. Eustatius: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 784 B.; gut near Fort de Wind: n. 829 B.; slope of the Quill: n. 1043, 1055, 1079; near Sugarloaf: n. 1084; locality unknown: n. 215 H.

Saba: Paris 400 M.: n. 1372 B.; along the Forthgut 150—200 M.: n. 1631 B.; along the seashore near Forthbaylanding: n. 1648 B., 2147 B.

St. Martin: Lowlands: n. 3275 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, Aruba, Amer. cont. trop. (Symb.).

230. **Sporobolus** R. Br.

Sporobolus indicus R. Br. Prodr. I (1810) 170; Gris. Fl. 533; Duss 503; Millspaugh 474. Lizard grass.

Saba: Paris 400 M.: n. 1376 B.; between Bottom and Marypoint 100—200 M.: n. 1505 B.; Boobyhill 300 M.: n. 1618 B.; St. Johns 250 M.: n. 1730 B.; Windwardside: n. 1916 B.; Rendezvous 400 M.: n. 725.

St. Martin: Along roads from Marigot to Grande Case: n. 3356 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. sept., media, austro-occid., Afr., Australia. (Symb.).

Sporobolus virginicus Kth. Rév. Gram. I (1823) 67; Gris. Fl. 533; Duss 503; Millspaugh 474.

St. Eustatius: Seashore near Oranjestad: n. 12 B., 18 B.; seashore near English Quarter: n. 1008 B.; near Boven 200 M.: n. 1236 B.; near White Wall: n. 1261 B.; Concordiabay: n. 563; Turtlebay: n. 566; Pastureground on the slope of the Quill: n. 305; White Wall: n. 302, 315.

Saba: Ladderlanding: n. 562; Paris: n. 1376 B.; Laddergut 50 M.: n. 1975 B.

St. Martin: Along the Saltpond near Filipsburg: n. 2239 B., 2339a B., 2446 B., 2448 B.; Colebay (Coll. George): n. 2507 B.; Fort Willem: n. 2800 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2905 B.; in pastureground near Colebay: n. 3024 B.; between Belvedere and Oysterpond: n. 3067 B.; Lowlands: n. 3276 B.; Fort Amsterdam: n. 300.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Aruba, Amer. cont., Afr. trop., Australia, Ins. Pacif. (Symb.).

282. **Cynodon** Pers.

Cynodon dactylon Pers. Syn. I (1805) 85; Gris. Fl. 540; Duss 509; Millspaugh 474. Bahama grass.

St. Eustatius: Along roads in Oranjestad: n. 1061 B.; slope of the Quill near Glassbottle: n. 1200 B.

St. Martin: Pastureground near Belvedere: n. 3050 B.; pastureground between Bellevue and Oysterpond: n. 3084 B.; along roads from Grande Case to Marigot: n. 3093 B.

St. Croix ex Millspaugh.

This grass as I was told was introduced by Mr. Every from St. Martin

into *St. Eustatius*; in *St. Eustatius* it is cultivated on a very small scale, but in *St. Martin* I saw many pieces of pastureground that consisted chiefly of *Cynodon dactylon*.

Bermud., Baham., Antill., Curaçao, trop. and warmer countries of both hemisph. (Symb.).

288. *Chloris* Sw.

Chloris ciliata Sw. Prod. Veg. ind. occ. (1788) 25; Gris. Fl. 539; Duss 508; Millspaugh 474.

St. Martin: Mountain between Mont des Accords and Centry-hill 200—300 M.: n. 2877 B.

St. Croix ex Millspaugh.
Antill., Mexico. (Gris Fl.).

Chloris paraguayensis Steud. Gram. (1855) 204.

Chloris barbata Sw. Flor. I (1797) 200; Gris. Fl. 549; Duss 508.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1299 B.; along the seashore near Forthbaylanding: n. 1644 B.; along roads 200—300 M.: n. 1712 B.

St. Martin: Cul de Sac: n. 2617 B.; along roads in Prince-quarter: n. 2913 B.

St. Croix (Symb.).

Baham., Antill., trop. countries of both hemisp. (Symb.).

Chloris radiata Sw. Prodr. (1788) 26; Gris. Fl. 539; Duss 507; Millspaugh 475.

Saba: Mountain 600 M.: n. 1777 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop. (Symb.).

304. *Eleusine* Gärttn.

Eleusine indica Gärttn. Fruct. I (1788) 8; Gris. Fl. 540; Duss 508; Millspaugh 475. Dutch grass.

St. Eustatius: along roads in Oranjestad: n. 554 B.; in a garden near Glassbottle: n. 1211 B.; in a garden in Oranjestad: n. 1278 B.; Cultuurvlakte: n. 786; locality unknown: n. 264 G., 237 H.

Saba: lower part of the Bottom Mountain 250 M.: n. 1390 B.; Windwardside: n. 1890 B., 1917a B.; Laddergut 0—200 M.: n. 2014 B.; Bottom: n. 785; locality unknown: n. 23 L.

St. Martin: Colebay (Coll. George): n. 2521 B.; Marigothill—Marigot 0—200 M.: n. 2655 B.; in pastureground near Bellevue: n. 2823 B.; in pastureground between Belvedere and Oysterpond: n. 3086 B.

I also saw *Eleusine indica* in Tintamarre.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, trop. and warmer countries of both hemisph. (Symb.).

305. **Dactyloctenium** Willd.

Dactyloctenium aegyptium Willd. Enum. Hort. Berol. (1809) 1029; Gris. Fl. 540; Duss 508; Millspaugh 475.

Eleusine aegyptiaca Desf. Flor. Atl. I (1798) 85.

St. Eustatius: seashore near Oranjestad: n. 39 B.; White Wall: n. 820 B., 1260 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1514 B.; along the seashore near Forthbaylanding: n. 1647 B.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2656 B.; in pastureground near Colebay: n. 3023 B.; Centryhill: n. 654.

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, Aruba, trop. and warmer countries of both hemisph. (Symb.).

307. **Leptochloa** Beauv.

Leptochloa filiformis Beauv. Agrost. (1812) 71; Duss. 507.

Leptochloa mucronata Kth. Rév. Gram. I (1829) 91; Gris. Fl. 537; Millspaugh 475.

St. Martin: Boobyhill 300 M.: n. 1616 B.

St. Croix ex Millspaugh.

Bermud., Antill., Curaçao, Amer. sept., Nova Granata, Asia and Afr. trop. (Symb.).

Leptochloa virgata Beauv. Agrost. (1812) 71; Gris. Fl. 538; Duss 507; Millspaugh 475.

St. Eustatius: Lower part of the slope of the hills near Concordia: n. 940 B.; near Boven: n. 1250 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1530 B.; Mountain 1751 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2055 B.; Peperpot: n. 55.

St. Croix ex Millspaugh.

Antill., Amer. trop. cont. (Symb.).

310. **Pappophorum** Schreb.

Pappophorum alopecuroideum Vahl Symb. bot. III (1794) 10 t. 51; Gris. Fl. 537.

Pappophorum laguroideum Schrad. in Schult. Mant. II (1824) 342; Duss 506. Crab grass.

St. Eustatius: Between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 772 B.; seashore near White Wall: n. 856 B.; near Boven 200 M.: n. 1233 B.; near White Wall on the top of the Cliff: n. 1255 B.; Cliff: n. 1728; Concordiabay: n. 2236.

Saba: Laddergut 50 M.: n. 1974 B.; Ladder: n. 2231; at the seashore: n. 2137 B.

St. Martin: Tintamarre: n. 3386 B.

Trinidad, La Tinta, Bras. to Uruguay (Gris. Fl.).

341. *Eragrostis* Host.

Eragrostis ciliaris Lk. Hort-Berol I (1827) 192; Gris. Fl. 532; Duss 502; Millspaugh 475.

St. Eustatius: in a garden in Oranjestad: n. 69 B.; Bengalen: n. 615 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 794 B.; along roads in Oranjestad: n. 1073 B.; Cliff: n. 2144; slope of the Quill: n. 2131; Cultuurvlakte: n. 2145.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1362 B.; between Bottom and Marypoint 100—200 M.: n. 1561 B.; top of the Cliff near the seaside of Boobyhill: n. 1602 B.; Mountain 600 M.: n. 1746 B.; Ladder: n. 2080.

St. Martin: Colebay (Coll. George): n. 2511 B.; Nakedboyhill 50—200 M.: n. 2686 B.; in an orchard near Bellevue: n. 2847 B.; Top of the hills on the northern side of Cul de Sac 200—300 M.: n. 2986 B.; in a plantation of cotton near Belvedere: n. 3409 B.;

St. Croix ex Millspaugh.

Baham., Antill., Amer. trop., Afr. trop., Ind. orient. (Symb.).

Eragrostis pilosa Beauv. Agrost. (1812) 71; Gris. Fl. 532; Duss 502; Millspaugh 475.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1308 B.; Crispeen 400 M.: n. 1767 B.; Windwardside in 1891a B.;

St. Martin: Nakedboyhill 50—200 M.: n. 2678 B.; between Mount Vernon and Orientbay: n. 2942 B.; from Belvedere to Oysterpond: n. 3053 B.; lower part of the Milldrumhill: n. 3157 B.

St. Croix ex Millspaugh.

Antill., warmer countries of both hemisph. (Symb.).

Eragrostis tephrosanthos Schult. Syst. Mant. II (1824) 316.

Eragrostis poaeoides Gris. Fl. W. I. (1864) 532; (p. p.). (Symb.).

St. Martin: Fort Willem 0—50 M.: n. 2550 B.; near Oyster-pond: n. 3053 B.

Antill., Amer. austr. (Symb.).

385. **Festuca** Linn.

Festuca Myurus Linn. Spec. (1753) 74.

St. Eustatius: from Signalhill to Tumbledowndickbay: n. 129a B.; Signalhill: n. 982a B., 1040 B.; near Boven: n. 1237a B.

Europa, Amer. and Asia boreal. (Ind. Kew.).

20. **Cyperaceae.**

Juncellus C. B. Clarke.

c. f. 459 *Cyperus* Linn. sect. 2.

Juncellus laevigatus C. B. Clarke in Hook. f. Fl. Brit. Ind. VI (1893) 596.

Cyperus mucronatus Rottb. Descr. et Ic. (1773) p. 19 t. 8 fig. 4; Gris. Fl. 562.

St. Martin: near the saltponds of Philipsburg: n. 2444 B.

Antill., in almost all warmer countries of both hemisph. (Symb.).

459. **Cyperus** Linn.

Cyperus distans Linn. Fil. Suppl. (1781) 103; Gris. Fl. 565; Duss 540.

St. Eustatius: Slope of the Quill 200 M.: n. 23, 29.

Saba: Top of the Mountain: n. 1745a B.; Rendez-vous Mountain: n. 209.

Antill., warmer countries of both hemisph. (Symb.).

Cyperus elegans Linn. Spec. (1762) 68.

Cyperus viscosus Swartz Prod. (1788) 20; Gris. Fl. 563; Duss 537.

Cyperus confertus Gris. Fl. W. I. (1864) 563 pro magna parte, non Swartz. Millspaugh 476. (Symb.).

St. Eustatius: locality unknown: n. 266 H.

St. Martin: along the saltpond near Philipsburg: n. 2447 B.; Cul de Sac—Marigothill 0—200 M.: n. 2625 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2906 B.

St. Croix ex Millspaugh.

Florida, Antill., Bonaire, Curaçao, Amer. centr., Argentina. (Symb.).

Cyperus rotundus Linn. Spec. (1762) 67; Gris. Fl. 564; Millspaugh 477. Nutgrass.

Cyperus purpureo-variegatus Boeck. Cyp. Novae. Heft 2 (1890) 37; Duss 539.

St. Eustatius: along roads in Oranjestad: n. 1074 B.; Cultuurvlakte: n. 35; locality unknown: n. 159 G.

Saba: Top of the Cliff near the seashore of Boobyhill: n. 1603 B.; Mountain 800 M.: n. 2186 B.

St. Martin: in pastureground near Bellevue: n. 2828 B.; along roads near Bethlehem: n. 2936 B.; in pastureground between Belvedere and Oysterpond: n. 3085 B..

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., warmer countries of both hemisph. (Symb.).

Mariscus Gärtn.

cf. 459. *Cyperus* Linn. sect. 6.

Mariscus brizaeus C. B. Clarke in Symbolae Antillanae II (1900) 52.

Cyperus bruneus Swartz Fl. Ind. Occ. I (1797) 116 partim. (Symb.); Duss 539. Bullgrass.

St. Eustatius: slope of the Quill near Bengalen 100 M.: n. 671 B., 699 B.; locality unknown: n. 115 G., 262 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1343 B.; near Flat Point: n. 2129 B.; Greathill: n. 46.

I also saw *Mariscus brizaeus*: Green Island.

St. Martin: near Mulletpond: n. 2786 B.; Tintamarre: n. 3369 B.

St. Croix ex Millspaugh.

Baham., Antill., Florida. (Symb.).

Mariscus capillaris Vahl Enum. II (1806) 372.

Cyperus capillaris (Sw.) Millspaugh 476.

Saba: along the Forthgut 150—200 M.: n. 1632 B.; Mountain 600 M.: n. 1738 B.; Springbaygut: n. 2097 B., 2101 B.

St. Martin: from Philipsburg to Guanabay: n. 2356 B.; along roads from Grande Case to Marigot: n. 3103 B.

Anguilla Boldingh.

St. Croix (Symb.).

Cuba, Jamaica, Hispaniola. (Symb.).

Mariscus flavus Vahl Enum. II (1806) 374.

Cyperus flavus Nees: in Linnaea XIX (1847) 698; Millspaugh 476.

Cyperus flavomarisiscus Gris. Fl. W. I. (1864) 567 partim; Duss 542. (Symb.).

Saba: Mountain 600 M.: n. 1749 B.

St. Croix ex Millspaugh.

Antill., from Mexico and Texas to Patagonia. (Symb.).

Torulinium Desv.

cf. 459. *Cyperus* sect. 5.

Torulinium confertum Desv. in Ham. Prodr. (1825) 15.

Cyperus ferax L. C. Rich. in Acta Soc. Hist. Nat. Paris I (1792) 106; Duss 541.

St. Eustatius: slope of the Quill: n. 43.

Saba: Mountain 600 M.: n. 1773 B.

Bermud., Baham., Antill., Aruba, in warmer countries of both hemisph. (Symb.).

462. **Kyllinga** Rottb.

Kyllinga brevifolia Rottb. Descr. et Ic. (1773) p. 13 t. 4 fig. 3; Gris. Fl. 568; Duss 543; Millspaugh 475.

Kyllinga monocephala Thunb. Fl. Japon. (1784) 35; Gris. Fl. 568.

St. Martin: Hill on the northern side of Cul de Sac: n. 2977 B.; Mount Paradis 200—400 M.: n. 3206 B.; Retreat: n. 42.

St. Croix ex Millspaugh.

Bermud., Antill., warmer countries of both hemisph. (Symb.).

469. **Heleocharis** R. Br.

Heleocharis capitata Boeck. in Vidensk. Meddel. Kjob. (1868—69) 159; Duss 545; Millspaugh 477.

Scirpus capitatus Linn. Spec. (1753) 48; Gris. Fl. 570 (partim.).

St. Martin: along the saltpond near Philipsburg: n. 2451 B.

St. Croix ex Millspaugh.

Bermud., Baham., warmer countries of both hemisph. (Symb.).

471. **Fimbristylis** Vahl.

Fimbristylis spathacea Roth. Nov. Pl. Sp. (1821) 24.

Scirpus obtusifolius Gris. Fl. W. I. (1864) 571.

St. Martin: Lowlands: n. 3298a B.

Antill., in trop. contries of both hemisph. (Symb.).

473. **Dichromena** Vahl.

Dichromena radicans Schlecht et Cham. in Linnaea VI (1831) 38.

Rhynchospora Persooniana Gris. Fl. W. I. (1864) 577.

Rhynchospora Humboldtiana Gris. Fl. W. I. (1864) 577 syn. excl. (Symb.).

Saba: between Bottom and Marypoint 300 M.: n. 1582 B.; Crespeen 400 M.: n. 1765 B.; Mountain 600 M.: n. 1775 B., 37.

Antill., Amer. centr. (Symb.).

489. **Cladium** Crantz.

Cladium restioides Benth. in Benth. et Hook. f. Gen. Pl. III (1883) 1066.

Machaerina restioides Vahl. Enum. II (1806) 238; Gris. Fl. 573.

Saba: Mountain 800 M.: n. 2210 B., 42, 208 L.

Cuba, Hispaniola, St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Vincent. (Symb.).

492. **Rhynchospora** Vahl.

Rhynchospora polyphylla Vahl. Enum. II (1806) 230; Gris. Fl. 575; Duss 551.

Saba: Mountain 600—800 M.: n. 1790 B., 49.

Antill., Amer. centr., Nova Granata, Venezuela. (Symb.).

515. **Scleria** Berg.

Scleria lithosperma Sw. Prod. (1788) 18; Duss 555; Millspaugh 477. Mountaingrass.

Scleria filiformis Sw. Prod. (1788) 19; Gris. Fl. 579.

St. Eustatius: Top of the Quill 400 M.: n. 277a B., 269 H.

St. Croix ex Millspaugh.

Baham., Antill., warmer countries of both hemisph. (Symb.).

Scleria pterota Presl. in Oken Isis XXI (1828) 268; Millspaugh 477.

Scleria pratensis Nees in Mart. Fl. Bras. II pars I (1843) 179 t. 23; Gris. Fl. 577; Duss 553.

Saba: lower part of the Bottom Mountain 300 M.: n. 1432 B.; Mountain 600 M.: n. 1747 B., 1750 B.; locality unknown: n. 51, 132 L., 184 L.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

21. **Palmae.**

528. **Phoenix** Linn.

Phoenix dactylifera Linn. Spec. (1753) 1188.

Cultivated [Afr. sept.] (Symb.).

536. **Thrinax** Linn. f.**Thrinax** spec.**St. Eustatius**: Gilboohill: n. 1120 α B.**Saba**: Windwardside—Bottom: n. 298 L.613. **Oreodoxa** Willd.**Oreodoxa caribaea** Damm. et Urb. in Urban Symbolae Antillanae. IV. (1903) 129.

Cultivated. [Portorico.] (Symb.).

631. **Euterpe** Mart.**Euterpe** spec. (prob. *Oenocarpus* Mart.).**Saba**: Mountain: n. 135, 136, 137.663. **Cocos** Linn.**Cocos nucifera** Linn. Spec. (1753) 1188.

Cultivated. [Amer. austr. sept. occid.?] (Symb.).

23. Araceae.689. **Anthurium** Schott.**Anthurium cordatum** G. Don. in Sweet. Hort. brit. ed. III (1839) 633. Monkeytail.**St. Eustatius**: Top of the Quill 400 M.: n. 182 B., 232 B., 234 B.; slope of the Quill 350 M.: n. 409 B.; slope of the Quill near Bengalen 250 M.: n. 697 B., 736 B.; slope of the Quill: n. 31, 33, 34, 35; locality unknown: 195 G.**Saba**: Mountain 600 M.: n. 1741 B.; Paris: n. 32; locality unknown: n. 287 L.**St. Martin**: Nakedboyhill 200—265 M.: n. 2720 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2857 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3415 B.; locality unknown: n. 36.**St. Croix** (Engler 1898).

Jamaica, St. Kitts, Martinique. (Engler 1898).

739. **Philodendron** Schott.**Philodendron dispar** Schott. Syn. Ar. (1856) 79; Gris. Fl. 510; Duss 479.

St. Eustatius: Top of the Quill 400 M.: n. 298 B.; slope of the Quill 350 M.: n. 389 B.; Quill: n. 913 B.; Bottom of the Quill 300 M.: n. 432 B., 468 B., 14, 29, 30; locality unknown: n. 220 G.

Saba: Windwardside—Hellsgate: n. 1674 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2034 B.

Guadeloupe, Martinique, St. Vincent. (Symb.).

Philodendron giganteum Schott Syn. Ar. (1856) 89; Duss 479.

St. Eustatius: I saw *Philodendron giganteum* on the top of the Quill.

Saba: Mountain: n. 2275a B.

Portorico, St. Kitts, Guadeloupe, Martinique, St. Vincent. (Symb.).

Philodendron oxycardium Schott Syn. Ar. (1856) 82 (vel. affin.).

St. Eustatius: Top of the Quill: n. 298 B., 394 B., 389 B.; inner slope of the Quill: n. 457 B.

Saba: Mountain: n. 2076a B.; gut near Devilshand: n. 2086 B. Antill., Guatemala. (Symb.).

755. **Colocasia** Schott.

Colocasia esculenta Schott Melet. I (1832) 18.

Cultivated. [India orient.] (Symb.).

758. **Xanthosoma** Schott.

Xanthosoma spec.

Cultivated.

24. Lemnaceae.

795. **Lemna** Linn.

Lemna paucicostata Hegelm. ex Engelm. in A. Gray Man. Bot. V ed. (Jan. 1868) 681; Duss 484.

Lemna minor Griseb. Fl. W. I. (1864) 512 (p. p.). (Symb.); Millspaugh 478.

St. Martin: Lowlands: n. 3285 B.; near Vineyard: n. 3350a B.

St. Croix ex Millspaugh.

Antill., Amer. cont., Afr., Asia austro-orient., Japon., Australia. (Symb.).

32. Bromeliaceae.

840. **Bromelia** Linn.

Bromelia pinguin Linn. Spec. (1753) 285; Gris. Fl. 591; Millspaugh 478. Pingwing.

St. Eustatius: along roads in Oranjestad: n. 103 G.

I saw *Bromelia pinguin* in gardens in Oranjestad.

Saba: Bottom: n. 2292 B.; Peperpot: n. 79, 80.

I also saw *Bromelia pinguin*: Crespeenhill.

St. Martin: along roads from Colebay to Simonsbay: n. 3250 B.

St. Croix ex Millspaugh.

Antill., Amer. cont., Venezuela. (Symb.); also cultivated.

851. **Ananas** Adans.

Ananas sativus Schult. f. in R. et Sch. Syst. VII (1830) 1283.

Cultivated. [Brasilia.] (Symb.).

860. **Wittmackia** Mez.

Wittmackia lingulata Mez. in Mart. Fl. Bras. III. 3. (1891) 274; Duss 570.

Aechmea lingulata Baker in Journ. Bot. XVII (1879) 164.

Saba: Greathill: n. 1377a B., Paris 300 M.: n. 82; Bottom: n. 85; locality unknown: n. 293 L.

St. Martin: Milldrumhill 300—400 M.: n. 3142 B.; Centryhill: n. 106.

St. Thomas, Virgin. Isl., Viequez, Crabben Isl., St. Lucia, Martinique, Guadeloupe, St. Vincent, Becquia, Antigua, Tobago, Trinidad. (Mez 1896).

878. **Pitcairnia** l'Hérit.

Pitcairnia angustifolia Redouté Liliac. II (1805) tab. 76; Gris. Fl. 594; Millspaugh 478. Klapper.

St. Eustatius: Top of the Quill 400 M.: n. 246 B., 304 B., 366 B., 383 B.; along roads in Oranjestad: n. 529 B.; near Maryglory 150 M.: n. 1134 B.; Quill: n. 89, 97; Bengalen: n. 113; Greatgut: n. 88.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1368 B; top of the Cliff near the seaside of Boobyhill: n. 1609 B.; Laddergut 0—200 M.: n. 1973 B.; Paris: n. 115; Wellgut: n. 104.

I also saw *Pitcairnia angustifolia*: near the Sulphurmines: Hellsgate to Marypoint.

St. Croix ex Millspaugh.

Portorico, Grenada, St. Thomas, Antigua, Dominica, St. Vincent, Martinique, Guadeloupe, St. Croix. (Mez 1896).

890. **Tillandsia** Linn.

Tillandsia excelsa Gris. Flor. W. I. (1864). 597.

Saba: Top of the Mountain: n. 2222 B.

Cuba, Jamaica. (Mez 1896).

Tillandsia fasciculata Sw. Prodr. (1788) 56; Gris. Fl. 595; Duss 572.

Saba: St. John's 250 M.: n. 1728 B.; Paris: n. 116; locality unknown: n. 21 L.

St. Martin: Milldrumhill 300—400 M.: n. 3145 B., Centryhill: n. 105.

Florida austral., Baham., Antill., Mexico, Amer. centr, and austro-sept. (Symb.).

Tillandsia recurvata Linn. Spec. (1762) 410; Gris. Fl. 598; Duss 574; Millspaugh 478. Old man's beard.

St. Eustatius: slope of the lower part of Signalhill: n. 108a B.; along roads in Oranjestad: 581 B.; Signalhill: n. 91, 96; locality unknown: n. 217 H.

Saba: along the Forthgut 150—200 M.: n. 1634 B.; Bottom: n. 93.

St. Martin: Princequarter (Coll. George.): n. 2486 B.: Cul de Sac: n. 2620 B.; Nakedboyhill 280 M.: n. 2736 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2937a B.; hills on the eastern side al Cul de Sac n. 3441 B.

I also saw *Tillandsia recurvata*: gut from Bethlehem to Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., warmer countries of Amer. (Symb.).

Tillandsia usneoides Linn. Spec. (1762) 411; Gris. Fl. 598; Duss 574; Millspaugh 478. Old man's beard.

St. Eustatius: locality unknown: n. 295 G.

I also saw *Tillandsia usneoides* near Boven.

Saba: along the Forthgut 150—200 M.: n. 1633 B.; Peperpot: n. 92, 94; Paris: n. 95.

St. Martin: Gut from Bethlehem to Cul de Sac 100—200 M.: n. 3416 B.; top of Centryhill: n. 107.

St. Croix ex Millspaugh.

Antill., warmer countries of Amer. (Symb.).

Tillandsia utriculata Linn. Spec. (1753) 286; Gris. Fl. 596; Duss 573; Millspaugh 478. Wild pine.

St. Eustatius: Top of Signalhill 225 M.: n. 1031 B.; Top of Pongo: n. 90; Top of the Quill: n. 99.

Saba: Slope of the Mountain near St. John's: n. 1735 B.; Paris 200 M.: n. 83, 84; Jenkygut: n. 114; locality unknown: n. 81.

St. Martin: Nakedboyhill 260 M.: n. 2729 B.

St. Croix ex Millspaugh.

Florida austral., Baham., Antill., Curaçao, Mexico, Venezuela, Guyana. (Symb.).

891. **Vriesea** Lindl.

Vriesea guadalupensis Mez in C. de Candolle Monogr. vol. IX (1896) 596. (vel affin.).

St. Eustatius: Top of the Quill: n. 245 B., 315 B.

Saba: Mountain near Windwardside: n. 2181 B.; St. John's: n. 86.

Guadeloupe. (Mez 1896).

892. **Catopsis** Griseb.

Catopsis nutans Griseb. Fl. W. I. (1864) 599; Duss 577.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 57 B.; rocky slope of the hills near Tumbledowndickbay: n. 152 B.; top of the Quill: n. 303 B., 100, 101.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1358 B.; Boobyhill 300 M.: n. 1622 B.; slope of the Mountain near St. John's: n. 1734 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2709 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2854 B.; Mount Paradis 300—400 M.: n. 3237 B.

Antill., Amer. centr. (Symb.).

33. **Commelinaceae.**

896. **Commelina** Linn.

Commelina virginica Linn. Spec. (1762) 62; Millspaugh 478.

Commelina elegans H. B. K. Nov. Gen. I (1815) 259; Gris. Fl. 525; Duss 498. Watergrass.

St. Eustatius: seashore near Tumbledowndickbay: n. 158 B.; along roads in Oranjestad: n. 565 B.; slope of the Quill near Bengalen 50—200 M.: n. 640 B., 653 B., 654 B.; Signalhill 150 M.: n. 1053 B.; Mountain near Bengalen: n. 262; Cultuurvlakte: n. 281; locality unknown: n. 2 H., 2 G.

I also saw *Commelina virginica* at the seashore near Oranjestad.

Saba: between Bottom and Marypoint 100—200 M.: n. 1471 B., 1531 B.; Mountain 400 M.: n. 1770 B.; Laddergut 0—200 M.: n. 2015 B.; Windwardside: n. 2318 B.; Peperpot: n. 284; Jenkeygut: n. 285; Bottom: n. 280; locality unknown: n. 15 L.

St. Martin: From Philipsburg to Guanabay: n. 2381 B.; Mountain between Mont des Accords and Centryhill 0—200 M.: n. 2853 B.; along roads from Colebay to Simsonsbay: n. 3249 B.; Mount Paradis 200—300 M.: n. 3307 B.; roads near Colebayhill: n. 264; John Ednyhill: n. 263.

I also saw *Commelina virginica* near Saline; near Bellevue; Nakedboyhill.

St. Croix ex Millspaugh.

Antill., Curaçao, warmer countries of Amer. cont. (Symb.).

911. *Tradescantia* Linn.

Tradescantia geniculata Jacq. Enum. (1760) 18; Gris. Fl. 523; Duss 495.

St. Martin: Milldrumhill 300—400 M.: n. 3141 B.; Mount Paradis 300—400 M.: n. 3222 B., 3346 B.; locality unknown: n. 3622 B.

Antill., Amer. cont. trop., from Mexico to Paraguay, Ins. Sandw. (Symb.).

912. *Callisia* Linn.

Callisia repens Linn. Spec. (1752) 62; Gris. Fl. 524; Duss 497; Millspaugh 479.

St. Eustatius: cultuurvlakte: n. 261.

Saba: between Bottom and Marypoint 100—200 M.: n. 1459a B.; Springbaygut: n. 2099 B.; Bottom: n. 273; locality unknown: n. 311 L.

St. Martin: from Philipsburg to Guanabay: n. 2380 B.; from Philipsburg to Belvedere: n. 2591 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 3000 B.

I also saw *Callisia repens*: on the hill between Mont des Accords and Centryhill; top of Mount Paradis 400 M.

St. Croix ex Millspaugh.

Antill., Mexico, Amer. centr., Venezuela, Peru, Bras. (Symb.).

916. *Rhoeo* Hance.

Rhoeo discolor Hance Misc. in Walp. Ann. III (1852—'53) 660. Cultivated. [Mexico, Antill.] (Symb.).

918. **Zebrina** Schnizl.

Zebrina pendula Schnizl. in Bot. Zeitg. VII (1849) 870; Millspaugh 479.

Saba: Lower part of the Bottom Mountain 250 M.: n. 1416 B.; along roads between Bottom and Windwardside 200 M.: n. 1335 B.; Windwardside n. 1936 B., 2314 B.; Crespeen—Rendez-vous: n. 282; Gainbygut: n. 283; locality unknown: n. 42 L.

St. Croix ex Millspaugh.

Antill., Mexico, Amer. centr. (Symb.).

38. **Liliaceae.**1026. **Aloe** Linn.

Aloe vera Linn. Spec. (1753) 320.

Aloe vulgaris Lam. Enc. I (1783) 86; Gris. Fl. 582; Duss 566; Millspaugh 479. Aloe.

St. Eustatius: locality unknown: n. 3589 B., 102 G.

I also saw *Aloe vera* on Signalhill.

St. Martin: I saw *Aloe vera*: along roads from Philipsburg to Naked-boyhill; along roads near Bethlehem; along roads near Belvedere.

Bermud., Antill., Indig. in mediterr. countries and Ins. Canar. (Symb.).

1049. **Allium** Linn.

Allium ascalonicum Linn. Amoen. Acad. IV (1759) 454.

Cultivated. [Everywhere cultivated.] (Ind. Kew.) Charlotten.

1103. **Yucca** Linn.

Yucca aloifolia Linn. Spec. (1753) 319; Gris. Fl. 582; Duss 557. Adam's needle. Spanish dagger.

St. Martin: Near Orientbay: n. 2922a B., 3358 B.

Cuba, Haiti, Jamaica, Tobago. (Herb. Krug et Urban.).

1110. **Sansevieria** Thunb.

Sansevieria guineensis Willd. Spec. Plant. II (1799) 159 Rhammi.

Cultivated. [Afr. trop.] (Symb.).

1151. **Smilax** Linn.

Smilax coriacea Spr. Syst. Veg. II (1825) 103.

Smilax havanensis Gris. Flor. W. I. (1864) 586 (pro parte) — non Jacq. (Symb.). White withe.

St. Eustatius: inner slope of the Quill 350 M.: n. 412 B. 1227; slope of the Quill near Bengalen 150 M.; n. 678 B., 735 B; locality unknown: n. 188 G., 263 H.

St. Croix. (Symb.)

Haiti, Domingo, Portorico. (Symb.).

Smilax guianensis Vitman Summa Plant. V (1791) 422.

Smilax macrophylla Willd. Spec. Plant. IV 2 (1806) 786; Gris. Fl. 586; Duss 560. Basket hoop.

St. Eustatius: Top of the Quill: n. 189 B.; Quill: n. 2022; Bengalen 150—200 M.: n. 2019.

Saba: Lower part of the Bottom Mountain 250 M.: n. 1423 B.; Hellsgate: n. 2023.

Antill., Guiana. (Symb.).

Smilax ilicifolia Kth. Enum. V (1850) 171.

Smilax havanensis Griseb. Flor. W. I. (1864) 586 (p. p. non L.) (Symb.); Millspaugh 479.

St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3013 B.; Lowlands: n. 3262 B., 3277 B.

St. Croix ex Millspaugh.

Cuba. (Symb.).

40. **Amaryllidaceae.**1181. **Zephyranthes** Herb.

Zephyranthes carinata Herb. in Bot. Mag. LII (1825) t. 2594.

Amaryllis carinata Spreng. Syst. Cur. post (1827) 132; Gris. Fl. 584; Duss 562. White snowdrop.

St. Eustatius: in a garden in Oranjestad; n. 42 H.

I also saw *Zephyranthes carinata*: slope of the Quill near Glassbottle.

Saba: Bottom: n. 3, 4, 5.

St. Martin: slope of Centryhill: n. 6.

Antill., Mexico. (Symb.). Also cultivated.

1189. **Crinum** Linn.

Crinum americanum Linn. Spec. (1753) 292.

Cultivated. [Amer. austr.] (Ind. Kew.).

1194. **Hymenocallis** Salisb.

Hymenocallis caribaea Herb. App. Bot. Reg. (1821) 14; Duss 559; Millspaugh 480.

Pancratium caribaeum Linn. Spec. (1753) 291; Gris. Fl. 583.
White lily.

St. Eustatius: Glassgut near Oranjestad: n. 51 B.; slope of the Quill near Bengalen 100 M.: n. 674 B.; near Maryglory 150 M.: n. 1148 B.; Oranjestad: n. 25; locality unknown: n. 298 H., 298a G.

Saba: Boobyhill: n. 1572 B.; along the Forthgut 150—200 M.: n. 1635 B.; Bottom: n. 26.

St. Martin: Guanabay: n. 2429 B.; Mountain between Mont des Accords and Centryhill 0—200 M.: n. 2851 B.

St. Croix ex Millspaugh.

Florida, Baham., Antill. (Symb.). Also cultivated.

1196. **Eucharis** Planch.

Eucharis grandiflora Planch. et Linden in Fl. des Serres. Sér. I (IX) (1853—1854) 255.

Cultivated. [New Granada.] (Ind. Kew.)

Eucharis lily.

1208. **Hippeastrum** Herb.

Hippeastrum puniceum Urb. in Symb. Antill. IV. (1903) 151.

Amaryllis equestris Ait. Hort. Kew. I (1789) 417; Gris. Fl. 584.

Hippeastrum equestre Herb. App. Bot. Reg. (1821) 31; Duss 561; Millspaugh 480.

St. Eustatius: Little Mountain: n. 15; locality unknown: n. 23.

Saba: Peperpot: n. 14; Bottom: n. 24.

St. Croix ex Millspaugh.

Antill., Amer. trop. (Symb.). Also cultivated.

1222. **Fourcroya** Vent.

Fourcroya gigantea Vent. in Bul. Soc. Philom. I (1793) 65; Gris. Fl. 582; Duss 558. Karata, Pita.

St. Eustatius: along roads in Oranjestad: n. 101 G.

I also saw *Fourcroya gigantea*: on the top of the Cliff near Gallowsbay; Bergje; slope of Signalhill.

St. Martin: along roads near Belvedere: n. 3359 B.
Antigua, French Islands to Bras. (Gris. Fl.).

1230. **Hypoxis** Linn.

Hypoxis decumbens Linn. Syst. X ed. II (1759) 986; Gris. Fl. 585; Duss 562. (procumbens errore).

Saba: Mountain 600—800 M.: n. 1785 B., 1796 B., 2191 B.;
Mountain near Windwardside 600 M.: n. 2161 B.; Jenckygut: n. 2.
Antill., Amer. cont. trop. (Symb.).

43. Dioscoreaceae.

1252. **Dioscorea** Linn.

Dioscorea alata Linn. Spec. (1753) 1033; Gris. Fl. 587. Yams.

St. Eustatius: locality unknown: n. 245 H.

Saba: Mountain near Windwardside: n. 2157 B.

Antill. Patria veris. Asia austro-orient. (Symb.). Also cultivated.

Dioscorea trifida Linn. f. Suppl. (1781) 427; Gris. Fl. 587.

Saba: Top of the Mountain 800 M.: n. 1789 B.; Mountain near Windwardside: n. 2155 B.

Antill., Patria Amer.-austral. (Symb.).

44. Iridaceae.

1285. **Belamcanda** Adans.

Belamcanda punctata Moench. Meth. Suppl. (1794) 214.

Cultivated. [China.] (Ind. Kew.).

1292. **Eleutherine** Herb.

Eleutherine plicata Herb. in Bot. Reg. (1843) t. 57. Red root.

Cultivated. [India occid.] (Ind. Kew.).

45. Musaceae.

1318. **Musa** Linn.

Musa paradisiaca Linn. Spec. (1753) 1043.

Musa sapientium Linn. Syst. X ed. II (1759) 1303.

Cultivated. [India orient.] (Symb.).

1321. **Heliconia** Linn.

Heliconia Bihai Linn. Mant. II (1771) 211; Gris. Fl. 600; Duss 579. Wild banana.

St. Eustatius: Bottom of the Quill 300 M.: n. 449 B.; Quill: n. 1077 B., 295, 223 G.

Saba: Mountain 800 M.: n. 2223 B.
Antill., Amer. cont. trop. (Symb.).

46. Zingiberaceae.1357. **Costus** Linn.

Costus speciosus Sm. in Trans. Linn. Soc. I (1791) 249. Shell-plant.

Cultivated. [Ins. Malay.] (Schumann 1904.).

47. Cannaceae.1363. **Canna** Linn.

Canna indica Linn. Spec. (1753) 1. Cannon, Indian shot.
Cultivated. [Cosmop. trop.] (Ind. Kew.).

48. Marantaceae.1370. **Maranta** Linn.

Maranta arundinacea Linn. Spec. (1753). 2. Arrowroot.
Cultivated. [Baham., Antill., Amer. cont. trop.] (Symb.).

50. Orchidaceae.1490. **Spiranthes** L. Cl. Rich.

Spiranthes elata L. Cl. Rich. Orch. Eur. Adn. (1818) 37; Gris. Fl. 641.

St. Martin: Centryhill: n. 72.
Antill., Amer. austr. (Symb.).

1493. **Stenorrhynchus** L. Cl. Rich.

Stenorrhynchus orchoides L. Cl. Rich. Orch. Eur. (1817) 37; Gris. Fl. 642.

Stenorrhynchus lanceolatus L. Cl. Rich. l. c.; Gris. Fl. 642.

St. Eustatius: Top of the Quill 400 M.: n. 229a B.
Baham., Antill., Amer. cont. trop. (Symb.).

1498. **Physurus** L. Cl. Rich.

Physurus hirtellus Lindl. Gen. and Spec. Orch. (1840) 501; Gris. Fl. 642; Duss 606.

St. Eustatius: Top of the Quill: n. 65, 66.

Cuba, Jamaica, Portorico, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Trinidad. (Symb.).

Physurus plantagineus Lindl. Gen. and Sp. Orch. (1840) 503; Gris. Fl. 643; Duss 605.

St. Eustatius: Top of the Quill 400 M.: n. 229 B.

Saba: Mountain near Hellsgate: n. 2284a B.; Mountain 600—800 M.: n. 1, 2, 3, 4, 67, 68, 69, 176 L.

Cuba, Jamaica, Portorico, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Trinidad. (Symb.).

1527. **Prescottia** Lindl.

Prescottia stachyoides Lindl. in Bot. Reg. (1834) sub t. 1915; Gris. Fl. 639; Duss 603.

St. Eustatius: Top of the Quill: n. 71.

Antill., Amer. centr., Bras. (Symb.).

1553. **Microstylis** Nutt.

Microstylis spicata Lindl. Gen. and Sp. Orch. (1830) 19; Gris. Fl. 612; Duss 590.

Saba: Top of the Mountain 6—800 M.: n. 1828 B., 2224 B., 2228 B.

Cuba, Jamaica, Hispaniola, Martinique. (Symb.).

1565. **Polystachya** Hook.

Polystachya luteola Hook. Exot. Flor. (1825) tab 103; Gris. Fl. 628; Duss 597.

St. Eustatius: Quill: n. 70.

Baham., Antill., Amer. trop. (Symb.).

1614. **Epidendrum** Linn.

Epidendrum anceps Jacq. Sel. (1763) 224 t. 138.

Epidendrum fuscatum Sm. Spic. bot. (1791) 21 t. 23; Gris. Fl. 617; Duss 591.

St. Eustatius: Top of the Quill 400 M.: n. 250 B., 381 B.; top of the Quill: n. 92, 93, 95; Quill: n. 96; locality unknown: n. 94.

Saba: Windwardside—Hellsgate: n. 1666 B.; Crispeen 400 M.:

n. 1763 B.; Mountain 800 M.: n. 1818 B.; Springbaygut: n. 2090 B., 2108 B.; Mountain 600 M.: n. 117; Mountain 800 M.: n. 97; Mastiegut: n. 119; Wellridge: n. 118.

St. Martin: Milldrumhill 300—400 M.: n. 3149 B.
Antill., Amer. cont. trop. (Symb.).

Epidendrum ciliare Linn. Syst. X ed. (1759) 1246; Gris. Fl. 615; Duss 590; Millspaugh 481.

St. Eustatius: Slope of the Quill near Bengalen: p. 715 B.; top Panga hill: n. 101; top of the Quill: n. 102; Boven: n. 103; locality unknown: n. 281 G., 268 H., 308 G.

Saba: between Bottom and Marypoint 250 M.: n. 1554 B.; Boobyhill 300 M.; n. 1597 B.; Crispeen 400 M.: n. 1727 B.; Paris 2—400 M.: n. 80, 99; Greathill 2—400 M.: n. 81; Rendez-vous 400 M.: n. 100; Hellsgate: n. 98; locality unknown: n. 165 L.

St. Martin: Nakedboyhill 200—260 M.: n. 2727 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2897 B.; Milldrumhill 300—400 M.: n. 3154 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3421 B.; Centryhill: n. 104, 105; French frontier: n. 106.

St. Croix ex Millspaugh.

Antill., Amer. austr-sept. and centr. (Symb.).

Epidendrum difforme Jacq. Enum. (1760) 29; Duss 592.

Epidendrum umbellatum Sw. Prodr. (1788) 121; Gris. Fl. 618.

St. Eustatius: Top of the Quill 400 M.: n. 241 B., 107, 108.
Antill., Amer. trop. (Symb.).

Epidendrum globosum Jacq. Enum. (1760) 29; Gris. Fl. 619; Duss 594.

St. Eustatius: Top of the Quill: n. 83.

Saba: Mountain 800 M.: n. 1827 B.; Mountain near Windwardside 600 M.: n. 2177 B.; Mountain: n. 82; Rendez-vous 400 M.: n. 84.

Antill., Amer. cont. trop. (Symb.).

Epidendrum papilionaceum Vahl in West St. Croix (1793) 303.

St. Eustatius: Signalhill: n. 110 B.; Boven: n. 112; locality unknown: n. 280a G.

Saba: Forthbay 30 M.: n. 5.

St. Martin: near Mulletpond: n. 2784 B.; Lowlands: n. 3254 B., 3278 B.

Baham., Antill. (Symb.).

Epidendrum strobiliferum Reichb. f. in Nederl. Kruidk. Archief. IV. (1859) 333; Gris. Fl. 618; Duss 592.

Saba: Rendez-vous 400 M.: n. 109.

St. Croix ex Millspaugh.

Jamaica, Trinidad, Guiana. (Gris. Fl.).

1619. **Brassavola** R. Br.

Brassavola cucullata R. Br. in Ait. Hort. Kew. ed. II V. (1813) 216; Gris. Fl. 620; Duss 594.

St. Eustatius: Lower part of the slope of the hills near Concordia: n. 941 B.; Boven: n. 90.

Saba: Greathill 2—400 M.: n. 91; Masticgut: n. 110.

St. Martin: Milldrumhill 300—400 M.: n. 3139 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3419 B.; Centryhill: n. 111.

Antill., Mexico to Venezuela. (Gris. Fl.).

Brassavola rigida (comb. nov.).

Tetramicra rigida Lindl. Gen. et Sp. Orch. (1831) 119; Gris. Fl. 622.

St. Eustatius: Gut near Fort de Wind 50 M.: n. 825 B.; Little Mountain n. 75; Greatgut: n. 73, 74, 78; locality unknown: n. 76, 77, 51 H.

Ind. occid. (Ind. Kew.).

1733. **Ornithidium** Salisb.

Ornithidium coccineum Salisb. in Trans. Hort. Soc. I (1812) 293; Gris. Fl. 626; Duss 596.

Saba: Mountain 800 M.: n. 1801 B.

Antill., Venezuela. (Symb.).

1779. **Oncidium** Sw.

Oncidium Spec. veris: 1)

St. Eustatius: Signalhill 200 M.: n. 134*** B., 1049 B***; near White Wall: n. 849*** B.; Signalhill—Red Cliff: n. 56*, 58*, 60*; slope of Signalhill: n. 61***; Signalhill: n. 57*; Red Cliff: n. 62*; White Wall: n. 63*; Grandgut: n. 64*; locality unknown: n. 50*** H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1469*** B., 2039*** B.; Laddergut: n. 53***; Peperpot: n. 54**; Paris: n. 55**.

St. Martin: Nakedboyhill 280 M.: n. 2733*** B.; Centryhill: n. 52**; Princequarter: n. 51**, 59; road near Oysterpond: n. 50**.

Antill. (Symb.).

1) *) *Oncidium variegatum* Sw. in Act. Holm. XXI (1800) 240.

***) *Oncidium sylvestre* Lindl. in Ann. and Mag. Nat. Hist. III Ser. I (1858) 332.

****) *Oncidium tetrapetalum* W. (L.) Gris. Fl. 631.

Dicotyledoneae.

51. Casuarinaceae.

1855. **Casuarina** Linn.

Casuarina equisetifolia Linn. Amoen. IV (1759) 143. Casuarine.
Cultivated. [Afr. occid., Australia, Ins. Pacif. and Malay.]. (Symb.).

53. Piperaceae.

1862. **Piper** Linn.

Piper dilatatum L. Cl. Rich. in Act. Soc. Hist. nat. Par. (1792) 105.

Artanthe Bredemeyeri Griseb. Flor. W. Ind. (1859) 170.

Piper Bredemeyeri Jacq. Eclog. (1811—44) 125 f. 84; Millspaugh 481.

St. Eustatius: Inner slope of the Quill 350 M.: n. 416 B., 424 B. top of the Quill 500 M.: n. 491 B., slope of the Quill near Bengalen 200 M.: n. 706; Quill 2566, 2560, 2501; locality unknown: n. 174 G.

Saba: Lower part of the Bottom Mountain 300 M.: n. 1439 B.; Bottom 200 M.: n. 1451 B.; Laddergut 0—200 M.: n. 1964 B.; gut between Masticgut and Hellsgate 300—400 M.: n. 2061; Crespeen—Rendez-vous 400 M.: n. 2511; Hellsgategut: n. 2569.

St. Martin: Hills on the northern side of Cul de Sac 100—200 M.: n. 2981 B.; Mount Paradis 300—400 M.: n. 3219 B.

St. Croix ex Millspaugh.

Antill., Mexico, Costarica, Panama, Columbia, Venezuela, Bras. (Symb.).

Piper marginatum Jacq. Ic. rar. II (1786) 2 t. 215.

Shillera caudata Kunth in Linnaea XIII (1839) 716; Gris. Fl. 170.

Saba: locality unknown: n. 159 L.

Antill., Panama, Surinam., Guiana gallica, Venezuela, Bras., Peru. (Symb.).

Piper medium Jacq. Ic. rar. I (1781) 2 t. 8.

Piper ceanothifolium Kunth. in H. B. K. Nov. Gen. I (1815) 26; Duss 177.

Enckea Sieberi Gris. Flor. W. I. (1859) 177 (p. p.) (Symb.).

St. Eustatius: Quill: n. 459 B.

Antill., Amer. cont. (Symb.).

Piper peltatum Linn. Spec. (1753) 30.*Heckeria peltata* Kunth in Linnaea XIII (1839) 565.*Pothomorphe peltata* Miq. Comm. phyt. (1838) 37; Gris. Fl. 169; Duss 175; Millspaugh 481.**Saba**: Mountain 500 M.: n. 899; Gainbygut: n. 888, 889, 895. Antill., Amer. cont. centr. and austral. (Symb.).**Piper reticulatum** Linn. Spec. (1753) 29.*Enckea smilacifolia* Griseb. Flor. W. Ind. (1859) 169. (excl. syn. Willd.) (Symb.).*Piper smilacifolium* C. DC. Prodr. XVI, 1 (1869.) 245; Duss 175; — non H. B. K. (Symb.). Wild cane.**St. Eustatius**: Inner slope of the Quill 350 M.: n. 423 B., 459 B.; Bottom of the Quill 300 M.: n. 911 B.; Quill: n. 78 H.; 2553, 2527, 925, 2529, 922, 926, 939.**Saba**: Boobyhill 300 M.: n. 1617 B.; Springbaygut: n. 2083 B., 2106 B., locality unknown: n. 159 L.

Guadeloupe, Martinique, St. Vincent, Trinidad. (Symb.).

1866. **Peperomia** Ruiz. et Pav.**Peperomia acuminata** C. DC. in Symb. Antill. III (1902) 242.*Peperomia glabella* Griseb. Flor. W. Ind. (1859) 165. (Symb.).*Peperomia glabella* var. *nigropunctata* Duss Fl. phan. (1897) 172. (Symb.).**St. Eustatius**: Top of the Quill 400 M.: n. 178 B., 317 B., near Maryglory 150 M.: n. 1160 B.; Missionhouse road: n. 551.**Saba**: Greathill 400 M.: n. 1382 B.; Paris n. 315, 321; John Ednyhill: n. 302; locality unknown: n. 103 L, 171 L.**St. Martin**: Nakedboyhill: n. 2725 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2898 B.

Antill., Columbia, Guiana. (Symb.).

Peperomia emarginella C. DC. Prodr. XVI. 1 (1869) 437.*Peperomia exilis* Griseb. Flor. W. Ind. (1859) 164. (Symb.); Duss 170.**Saba**: Mountain 800 M.: n. 1813 B; Mountain 6—800 M.: n. 19.

Cuba, Jamaica, Hispaniola, Portorico, St. Kitts, Guadeloupe, Martinique, St. Vincent, Trinidad. (Symb.).

Peperomia glabella A. Dietr. Sp. I (1831) 156; Gris. Fl. 165 p. p. (Symb.). Orchidspur lane.

St. Eustatius: Top of the Quill 400 M.: n. 180 B., 334 B.; slope of the Quill near Bengalen 150 M.: n. 679 B.; locality unknown: n. 1023 B., 193 G.; Quill: n. 646, 593, 620, 633, 1054; Boven: n. 1053.

Saba: Along roads between Bottom and Windwardside 200 M.: n. 1352 B.; Gainbygut: n. 1445a B.; Boobyhill 350 M.: n. 1612 B.; along the Forthgut 150—200 M.: n. 1625 B.; Crispeen 400 M.: n. 1723 B.; Springbaygut: n. 2105 B., 2110 B.; Windwardside: n. 2321 B.; Peperpot: n. 1052.

St. Martin: Mountain between Mont des Accords and Centry hill 200—300 M.: n. 2886 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3008 B., Milldrumhill 300—400 M.: n. 3135 B.; Mount Paradis 150—400 M.: n. 3192 B., 3196 B., 3340 B.

I also saw *Peperomia glabella* on Nakedboyhill 100—200 M.

Antill., Costarica, Amer-austr. (Symb.).

Peperomia hernandifolia A. Dietr. Sp. I (1831) 157; Duss 172.

Saba: Mountain 800 M.: n. 1808 B.; Mountain 6—800 M.: n. 634, 140; locality unknown: n. 174 L.

Antill., Costarica, Venezuela. (Symb.).

Peperomia Langsdorffii Miq. Syst. (1843) 116.

St. Eustatius: Top of the Quill 380 M.: n. 278 B.; lower parts of the hills near Concordia: n. 974 B.

St. Martin: Nakedboyhill 200—265 M.: n. 2717 B., along roads near Colebayhill: n. 3041 B.; gut from Bethlehem to Cul de Sac 0—100 M.: n. 3414 B.; Milldrumhill 100—200 M.: n. 3117 B.; Colebayhill: n. 141.

St. Croix. (Symb.).

Haiti, St. Domingo, Portorico, St. Thomas, St. Jan, Tortola, Antigua. (Symb.).

Peperomia obtusifolia A. Dietr. Sp. I (1831) 154; Duss 173.

Peperomia magnoliaefolia A. Dietr. Sp. I (1831) 153; Duss 173. (Symb.).

St. Eustatius: Top of the Quill 400 M.: n. 242 B., 353 B.; Quill: n. 277, 293, 279, 278, 291, locality unknown: n. 290.

Saba: Mountain 600 M.: n. 1757 B.; Springbaygut: n. 2102 B.; Milldrumhill 300—400 M.: n. 3146 B.

St. Croix. (Symb.).

Antill., Amer. cont. trop., (Florida, Mexico, Venezuela.) (Symb.).

Peperomia petiolaris C. DC. in Seem. Journ. of Bot. IV (1866) 138. Wall purslane.

St. Eustatius: In a garden in Oranjestad: n. 63 B.; at the seashore near Tumbledowndickbay: n. 155 B.; on walls in Oranjestad: n. 69 G.

Saba: Along roads between Bottom and Windwardside 200 M.: n. 1341 B.; lower part of the Bottom Mountain 250 M.: n. 1410 B.; Windwardside: n. 1893 B.; Bottom: n. 2245 B.; locality unknown: n. 39 L.

Cuba, Paraguay. (Symb.).

Peperomia scandens R. et Pav. Fl. Per I (1798) 32 t. 51 fig b. *Peperomia repens* Kth. in H. B. K. Nov. gen. I (1815) 65; Gris. Fl. (1859) 165. (Symb.).

St. Eustatius: Bottom of the Quill 300 M.: n. 434 B.

Antill., Amer. cont. austral. (Symb.).

Peperomia urocarpa Fisch. et Mey. Ind. Sem. Hort. Petrop. IV (1837) 42.

Saba: Mountain 800 M.: n. 1825 B., 594, 647.

Antill., Amer. cont. trop. (Symb.).

81. Batidaceae.

2362. **Batis** Linn.

Batis maritima Linn. Syst. X ed. II (1759) 1380; Gris. Fl. 61; Duss 92; Millspaugh 486. Wild banana.

St. Martin: near Filipsburg: n. 2338 B.; road near Fort Amsterdam: n. 47.

I also saw *Batis maritima*: near Simonsbayvillage; Oysterpond; Green Key.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida, Baham., Antill., Amer. cont. trop. orient., Californ., Ins. Sandw. (Symb.).

63. Ulmaceae.

1898. **Celtis** Linn.

Celtis Iguanacea Sarg. Silva VII (1895) 64.

Celtis aculeata Sw. Prodr. (1788) 53; Gris. Fl. 149; Duss 152; Millspaugh 482. S n a k y.

St. Eustatius: Top of the Quill 400 M.: n. 219 B.; Bottom of the Quill 300 M.: n. 895 B.; top of Signalhill 225 M.: n. 1029 B.; Red Cliff—Tumbledowndickbay: n. 229.

Saba: Bottom—Marypoint 300 M.: n. 1476 B.; Windwardside: n. 1950 B.; Springbaygut: n. 2116 B.

St. Martin: from Philipsburg to Guanabay: n. 2389 B., 2399 B.; from Philipsburg to Belvedere: n. 2572 B.; Nakedboyhill 50—200 M.: n. 2680 B.; between Belvedere and Oysterpond: n. 3079 B.; Mount Paradis 100—200 M.: n. 3293 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

1902. **Trema** Lour.

Trema Lamarckianum Bl. in Mus. Bot. Lugd. Bat. II (ca 1853) 58.

Sponia Lamarckiana Dene. in Nouv. Ann. Mus. Paris III (1834) 498; Gris. Fl. 150; Duss 153.

St. Eustatius: Gilboohill 150 M.: n. 1123 B.

Saba: Hellsgate—Marypoint: n. 2040 B.
Bermud., Baham., Antill. (Symb.).

Trema micranthum Bl. in Mus. Bot. Lugd. Bat. II (ca 1853) 58; Millspaugh 482 (?).

Sponia micrantha Dene. in Nouv. Ann. Mus. Paris III (1834) 498; Gris. Fl. 150; Duss 152.

St. Eustatius: Top of the Quill 400 M.: n. 186 B., 308 B.

Saba: Gainbygut: n. 292, 293; Laddergut: n. 130, 294.

St. Croix ex Millspaugh.

Florida austr., Antill., Amer. cont. trop. (Symb.).

64. Moraceae.

1931. **Dorstenia** Linn.

Dorstenia contrajerva Linn. Spec. (1753) 121; Gris. Fl. 154; Duss 159.

St. Martin: Mount Paradis 300—400 M.: n. 3344 B.

Antill., from Mexico to Peru. (Symb.).

1946. **Artocarpus** Linn.

Artocarpus incisa Linn. f. Suppl. (1781) 411.

Artocarpus communis Forst. Char. Gen. (1776) 100. Bread fruit tree.

Cultivated. [Ins. Pacif.] (Symb.).

1961. **Ficus** Linn.

Ficus Krugiana Warb. in Urb. Symb. Antill. III (1903) 487.

Ficus laurifolia Duss Fl. Ant. franç. (1897) 153. (haud Lam.). (Symb.).

St. Eustatius: Top of the Quill 400 M.: n. 207 B.; bottom of the Quill 300 M.: n. 907 B.

Saba: Bottom: n. 1875 B.

Guadeloupe, Dominica, Martinique, St. Vincent. (Symb.).

Ficus omphallophora Warb. in Urb. Symb. Antill. III (1903) 466.

Ficus pertusa Gris. (haud L. f.) Flor. W. I. (1859) 152 (p. p.); Duss 155.

Ficus pallida Gris. (haud Vahl) Fl. W. I. (1859) 151 (p. p.); (Symb.).

Saba: Top of the Mountain 800 M.: n. 1827a B.

St. Eustatius, St. Kitts, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada. (Symb.).

Ficus populnea Willd. Sp. Pl. IV (1806) 1141; Gris. Fl. 151; Millspaugh 483.

Ficus laevigata Vahl. Enum. II (1805) 183; Gris. Fl. 151; Millspaugh 483.

St. Eustatius: Slope of the lower part of Signalhill: n. 103 B.; top of the Quill: n. 207 B., 371 B., 378 B.; along roads in Oranjestad: n. 914 B.; along roads near Concordia: n. 1091 B.; near Boven 200 M.: n. 1247 B.; Quill: n. 732, 846, 883; top of the Quill: n. 135, 733; Cliff: n. 738, 788.

Saba: Bottom: n. 2233 B.; from Windwardside to Hellsgate: n. 1681 B.

St. Martin: in a garden in Philipsburg: n. 2552 B.; from Philipsburg to Belvedere: n. 2577 B.; Marigotroad near Marigot: n. 2820 B.; Lowlands: n. 3284 B.; Mount Paradis 100—200 M.: n. 3297 B.; 300—400 M.: n. 3324 B.; Mary's Fancy: n. 705; Centryhill: n. 888; Prince quarter: n. 838.

St. Croix ex Millspaugh.

Baham., Antill. (Symb.).

Ficus Urbaniana Warb. in Urb. Symb. Antill. III (1903) 459.

St. Eustatius; Bottom of the Quill 300 M.: n. 897 B.; Boven: n. 2331, 2371; Quill: n. 2322; locality unknown: n. 2395.

Saba: Gut between Hellsgate and Masticgut 300—400 M.: n. 2026 B.; Springbaygut: n. 2080 B.

St. Martin: Point Blanche (coll. George): n. 2495 B.; Mount Paradis 150—400 M.: n. 3200 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3423 B.; John Ednyhill: n. 2347.

St. Croix. (Symb.).

Guadeloupe, Martinique, St. Vincent. (Symb.).

1971. **Cecropia** Linn.

Cecropia peltata Linn. Syst. X. ed. II (1759) 1286; Gris. Fl. 153; Millspaugh 498. Wild papaw.

St. Eustatius: Quill: n. 254 B.; Bottom of the Quill 300 M.: n. 904 B., 955 B., 105 H.; Quill: n. 243, 219.

Saba: Mountain near Windwardside 600 M.: n. 2158 B. locality unknown: n. 192 L.

St. Croix ex Millspaugh.

Antill., Venezuela, Guiana. (Symb.).

65. Urticaceae.

1978. **Urera** Gaudich.

Urera caracasana Gris. Flor. W. I. (1859) 154; Duss 161.

Urera alceaefolia Gaudich. in Freyc. Voy. (1826) 479.

St. Eustatius: Bottom of the Quill 300 M.: n. 438 B., 903 B., 909 B., 130 H., 222 G.

Saba: Mountain 6—800 M.: n. 1949; Hellsgategut: n. 1950; locality unknown: n. 194 L.

Antill., Amer. cont. trop. (Symb.).

1982. **Fleurya** Gaudich.

Fleurya aestuans Gaudich. in Freyc. Voy. (1826) 497; Gris. Fl. 154; Duss 160; Millspaugh 483. Stinging nettle.

St. Eustatius: Glassgut near Oranjestad: n. 47 B.; along roads in Oranjestad: n. 1079 B.; Oranjestad: n. 2832; locality unknown n. 135 G.

Saba: near the Sulphurmines: n. 1703 B.; locality unknown: n. 154 L.

I also saw *Fleurya aestuans*: Windwardside.

St. Martin: Milldrumhill in plantations 300 M.: n. 3132 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop., Afr. trop., Ind. Sundan. (Symb.).

1984. **Pilea** Lindl.

Pilea microphylla Liebm. in Vidensk. Selsk. Skr. Kopenh. V. Ser. Vol. II (1851) 286; Gris. Fl. 155; Duss 161.

Adicea microphylla O. Ktze. Rev. II (1891) 622; Millspaugh 483.

Pilea muscosa Lindl. Coll. Bot. (1821.) t. 4. Lace plant.

St. Eustatius: Signalhill 200 M.: n. 137 B.; near Maryglory 150 M.: n. 1156 B.; in a garden in Oranjestad: n. 1269 B.; Cultuurvlakte: n. 1059; Signalhill: n. 1037; Boven: n. 1058; locality unknown: n. 150 G., 301 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1330 B.; slope of the Mountain near St. Johns 250 M.: n. 1733 B.; Windwardside: n. 1900 B.; Laddergut 0—200 M.: n. 2020 B.; between Hellsgate and Masticgut: n. 2072 B.; Mountain near Windwardside 600 M.: n. 2173 B.; Ladder: n. 1038; Greathill: n. 1039; Crespeen-Rendez-vous 400 M.: n. 1026; locality unknown: n. 142 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2900 B.; Mount Paradis 300—400 M.: n. 3235a B.

St. Croix ex Millspaugh.

Florida austr., Bermud., Baham., Antill., Amer. cont. trop. (Symb.).

Pilea obtusata Liebm. in Vidensk. Selsk. Skr. Kopenh. V Ser. Vol. II (1851) 300.

Pilea pubescens Gris. Flor. W. I. (1859) 159 (non Liebm.); (Symb.).

Saba: Top of the Mountain 800 M.: n. 1783a B., 1786a B., 2218a B.

Portorico, Montserrat, Martinique. (Symb.).

Pilea parietaria Bl. Mus. Bot. Lugd. Bat. II (1856) 48; Gris. Fl. 156.

Pilea ciliaris Wedd. in Ann. Sc. nat. III Sér. XVIII (1852) 209; Gris. Fl. 156.

Saba: Top of the Mountain 800 M.: n. 1800 B.

Antill., Guatemala, Venezuela. (Symb.).

Pilea semidentata Wedd. in Ann. Sc. nat. III Sér. XVIII (1852) 215; Gris. Fl. 157.

Pilea elegans Wedd. in Ann. Sc. nat. III Sér. XVIII (1852) 215; Gris. Fl. 157.

St. Eustatius: Top of the Quill 400 M.: n. 175 B., 340 B., 351 B., 368 B.; slope of the Quill near Bengalen 150 M.: n. 685 B.; Quill: n. 244, 1102, 192 G., 273 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1338 B.; from Marypoint to Bottom: n. 2063 B.; Gainbygut: n. 1190.

Hispaniola, Portorico, St. Thomas, Guadeloupe, Dominica, Martinique. (Symb.).

1990. **Boehmeria** Jacq.

Boehmeria ramiflora Jacq. Enum. Pl. carib. (1760) 31; Gris. Fl. 160; Duss 163.

St. Eustatius: Bottom of the Quill 300 M.: n. 447 B.; Bengalen: n. 1152, 1172, 1202, 1222, 1242; Quill: n. 1192, 1225, 1233.

Saba: Mountain 800 M.: n. 2219 B.

Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Barbados. (Herb. Krug et Urban.).

2009. **Rousselia** Gaudich.

Rousselia humilis Urb. in Symb. Antill. V (1905) 205.

Rousselia lappulacea Gaudich. in Bot. Freyc. Voy. (1826) 503; Gris. Fl. 160.

Saba: from Hellsgate to the Sulphurmines: n. 1669a B. Baham., Antill. (Symb.).

67. Loranthaceae.

2089. **Phoradendron** Nutt.

Phoradendron trinervium Gris Flor. W. I. (1860) 314; Duss 328.

St. Eustatius: Signalhill 200 M.: n. 135 B., 1048 B.; slope of the Quill near Bengalen 100 M.: n. 672 B.; gut near Fort de Wind 50 M.: n. 843 B.; Cultuurvlakte: n. 26; Red Cliff: n. 14; White Wall: n. 13; locality unknown: n. 209 G.

Saba: Paris 400 M.: n. 1371 B.; Saddle: n. 1660 B.; Paris 2—400 M.: n. 27.

St. Martin: Mountain between Mont des Accords and Centry-hill 200—300 M.: n. 2888 B.; hills on the eastern side of Cul de Sac: n. 3443 B.

Antill., Costarica. (Symb.).

72. Olacaceae.

2129. **Schoepfia** Schreb.

Schoepfia Schreberi J. F. Gmel. Syst. (1791). 376.

St. Eustatius: Top of the Quill 400 M.: n. 201 B., 364 B., 375 B., 377 B.; inner slope of the Quill 350 M.: n. 1226 B.

Saba: Bottom 200 M.: n. 1447 B.; Springbaygut: n. 2085 B., 2125 B.; Wellgut: n. 31.

Antill., Mexico? San Salvador? Venezuela. (Symb.).

74. Aristolochiaceae.

2174. **Aristolochia** Linn.

Aristolochia odoratissima Linn. Spec. (1763) 1362.

Cultivated. [Jamaica.] (Ind. Kew.).

Aristolochia trilobata Linn. Spec. (1753) 960; Gris. Fl. 299; Duss 314; Millspaugh 484.

St. Martin: Mount Paradis 300—400 M.: n. 3337 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. cent. and austr. trop. (Symb.).

77. Polygonaceae.

2209. **Coccoloba** Linn.

Coccoloba diversifolia Jacq. Enum. Syst. (1760) 19; Millspaugh 484.

Coccoloba punctata Gris. (non L.) Flor. W. I. (1859) 163.

Coccoloba barbadensis Jacq. Enum. Syst. (1760) 37; Duss 166.

Coccoloba diversifolia Gris. (non Jacq.) pr. p. Flor. W. I. (1859) 163 (Symb.). Red wood.

St. Eustatius: Top of the Quill 400 M.: n. 179 B., 210 B., 312 B.; slope of the Quill on the side of White Wall 200 M.: n. 1172 B.; Boven: n. 37; Little Mountain—Red Cliff: n. 36, 38, 156; top of the Quill: n. 28; Gilboohill: n. 25.

Saba: lower part of the Bottom Mountain 250 M.: n. 1418 B.; Windwardside—Hellsgate: n. 1665 B.; St. Giles: n. 1860 B.; Mountain near Windwardside 600 M.: n. 2175 B.; Paris—Greathill: n. 29, 30, 31; Peperpot: n. 24; locality unknown: n. 340 L.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao. (Symb.).

Coccoloba Krugii Lindau Mon. Cocc. (1892) 145.

St. Martin: near Mulletpond: n. 2756 B.

Anguilla Boldingh.

Baham., Portorico, Barbuda. (Symb.).

Coccoloba nivea Jacq. Enum. Syst. (1760) 19; Gris. Fl. 163; Millspaugh 484.

Coccoloba excoriata Linn. Spec. (1762) 524; Duss 168. Sugarygrape.

St. Eustatius: Quill: n. 142; from Signalhill to Venusbay: n. 964 B.

Saba: Boobyhill 300 M.: n. 1582 B.; Windwardside—Hells-gate: n. 1688 B.; Springbaygut: n. 2087 B.; Windwardside: n. 2316 B.; Bottom: n. 187, 188, 189; locality unknown: n. 101 L.

St. Martin: from Filipsburg to Belvedere: n. 2579 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2961a B.; top of the hill at the northern side of Cul de Sac 200—300 M.: n. 2993 B.; Mount Paradis 300—400 M.: n. 3228 B., 3319 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3420 B.; John Ednyhill: n. 3.

I also saw *Coccoloba nivea*: along roads near Grande Case.

St. Croix ex Millspaugh.

Jamaica, Hispaniola, Portorico, St. Thomas, St. Barthélemy, Antigua, Guadeloupe, Martinique, Barbados (cult), Grenada, Tobago, Trinidad. (Symb.).

Coccoloba obtusifolia Jacq. Enum. Syst. 19.

Coccoloba punctata Griseb. (non L.) pr. p. Flor. W. I. (1859) 163.

Coccoloba punctata Griseb. γ *microstachya* in Flor. W. I. (1859) 163; (Symb.).

Saba: Boobyhill: n. 1569 B., 1571 B.

Baham., Antill. (Symb.).

Coccoloba uvifera Jacq. Enum. Syst. 19; Gris. Fl. 161; Duss 165; Millspaugh 484. Sea grape.

St. Eustatius: Seashore near Oranjestad: n. 17 B.; top of the Quill 400 M.: n. 263 B.; slope of the lower part of the Quill near Bengalen: n. 717 B.; along roads in Oranjestad: n. 1057 B.; near White Wall: n. 1257 B.; Concordiabay: n. 183; Venusbay: 185; locality unknown: n. 120 H., 198 G.

I also saw *Coccoloba uvifera*: slope of the Quill on the side of White Wall.

Saba: Paris 400 M.: n. 1370 B.; Bottom: n. 1988 B.; Ladder: n. 186; locality unknown: n. 360 L.

I also saw *Coccoloba uvifera*: Green Island.

St. Martin: Guanabay: n. 2432 B.; at the seashore near Simonsbay village: n. 3032 B.

I also saw *Coccoloba uvifera* in Lowlands; Marigothill to Marigot.

St. Croix ex Millspaugh.

Bermud., Florida, Baham., Antill., Mexico, Amer. centr., Venezuela, Guiana. (Symb.).

2205. **Antigonon** Endl.

Antigonon cinerascens Mart. et Gal. in Bull. Ac. Brux. X. 14. Cultivated. [from Mexico to Guatemala.] (Symb.).

Antigonon leptopus Hook. et Arn. Bot. Beech. (1841) 308 t. 69; Gris. Fl. 164; Duss 612. Coralita.

St. Eustatius: in a garden in Oranjestad: n. 1071 B., 18 H., 21 G.

Saba: Windwardside: n. 1931 B.; Bottom: n. 2242 B.; locality unknown: n. 46 L., 299 L.

St. Martin: near Bethlehem: n. 2670 B.

Jamaica. (Gris. Fl.) Cultivated and escaped.

78. Chenopodiaceae.

2223. **Chenopodium** Linn.

Chenopodium ambrosioides Linn. Spec. (1753) 219; Gris. Fl. 60; Duss 51; Millspaugh 485. Worm bush.

St. Eustatius: along roads in Oranjestad: n. 938 B.; in a garden in Oranjestad: n. 1085 B.; locality unknown: n. 5 G., 5 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1921 B., 1301 B.; Bottom: n. 1846 B.; Laddergut 0—200 M.: n. 1955 B.; seashore near Forthbaylanding: n. 2149 B.; Paris: n. 223; Bottom: n. 224; locality unknown: n. 235 L.

St. Martin: along roads from Marigot to Grande Case: n. 3355 B.

St. Croix ex Millspaugh.

Trop. and warmer countries of both hemisph. (Symb.).

Chenopodium murale Linn. Spec. (1753) 219; Gris. Fl. 60; Duss 51; Millspaugh 485. Sprain bush.

St. Eustatius: along roads in Oranjestad: n. 578 B.; locality unknown: n. 9 G., 9 H.; seashore: n. 244; Village: n. 243.

St. Martin: from Philipsburg to Guanabay: n. 2344a B.

St. Croix ex Millspaugh.

Baham., Antill., indig. in the Old world. (Symb.).

2257. **Salicornia** Linn.

Salicornia herbacea Linn. Spec. (1762) 5.

St. Martin: near Mulletpond: n. 2749 B.

Anguilla Boldingh.

Amer. sept., Europa, Afr., Asia. (Symb.).

79. Amarantaceae.2292. **Celosia** Linn.**Celosia argentea** Linn. Spec. (1753) 205.

Cultivated. [Antill., Amer., Afr., Asia trop.] (Symb.).

Celosia nitida Vahl Symb. II (1791) 44; Gris. Fl. 62; Duss 53; Millspaugh 485.**St. Martin**: near Bethlehem: n. 2666 B.; Marigotroad: n. 2803a B.

Florida austral., Antill., Mexico, Calif. peninsula, Amer. centr. (Symb.).

2299. **Amarantus** Linn.**Amarantus gracilis** Desf. Tabl. I ed. (1804) 43.*Euxcolus caudatus* Moq. in DC. Prodr. XIII. II (1849) 247; Gris. Fl. 68; Millspaugh 486.*Amarantus caudatus* Linn. Spec. (1753) 990.**St. Eustatius**: in a garden: n. 547.**St. Martin.** (Symb.).**St. Croix** ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, trop. countries of both hemisph. (Symb.).

Amarantus paniculatus Linn. Spec. (1762) 1406. Princeplum. Cultivated. [Baham., Guiana., trop. countries of both hemisph.] (Gris. Fl.).**Amarantus polygonoides** Linn. Pl. Jam. Pugil. II. (1759) 27; Millspaugh 486.*Amblogyne polygonoides* Raf. Fl. Tellur. III (1836) 42; Gris. Fl. 68; Duss 58. White polly.**St. Eustatius**: near Maryglory 150 M.: n. 1135 B.; locality unknown: n. 19 G.**Saba**: Bottom: n. 559.**St. Martin**: from Philipsburg to Guanabay: n. 2406 B.; in an orchard near Bellevue: n. 2839 B.; between Mount Vernon and Orientbay: n. 2931 B., 3360 B.; Tintamarre: n. 3384a B., 3393 B.; near Philipsburg: n. 595.**St. Croix** ex Millspaugh.

Florida, Key, Baham., Antill., Aruba, Curaçao. (Symb.).

Amarantus spinosus Linn. Spec. (1753) 991; Gris. Fl. 68; Duss 58; Millspaugh 486.**St. Eustatius**: along roads in Oranjestad: n. 1066 B.; locality unknown: n. 18 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1323 B.; Bottom 200 M.: n. 1454 B.; Windwardside: n. 1918 B., 2327a B.; Bottom: n. 568, 569; locality unknown: n. 252 L.

St. Martin: Mount Paradis 100—200 M.: n. 3295 B.

St. Croix ex Millspaugh.

Bermud., Baham., Amer. cont., Afr. trop., Asia trop. to Japon. and N. Guinea. (Symb.).

Amarantus tristis Linn. Spec. (1753) 989; Gris. Fl. 69; Duss 59; Millspaugh 486. Calaloe.

Amarantus gangeticus Linn. Syst. ed. X. (1759) 1268.

St. Eustatius: in a garden in Oranjestad: n. 84 B.; along roads in Oranjestad: n. 551 B.; Cultuurvlakte: n. 576; in a garden: n. 575; locality unknown: n. 16 H., 17 G.

Saba: between Bottom and Marypoint 100—200 M.: n. 1462 B.; Windwardside: n. 1919 B.; Rendez-vous 400 M.: n. 580; Bottom: n. 577.; locality unknown: n. 33 L.

St. Martin: between Mont Chambord and the Saline: n. 2923 B.; lower part of the Milldrumhill: n. 3163 B.; Marigotroad: n. 552.

St. Croix ex Millspaugh.

Antill., Chile. (Symb.).

2328. **Achyranthes** Linn.

Achyranthes obtusifolia Lam. Enc. I (1783) 545.

Achyranthes aspera Linn. var. *obtusifolia* Gris. Flor. W. I. (1860) 220; Millspaugh 485. Man better man.

St. Eustatius: in a garden in Oranjestad: n. 82 B.; along roads in Oranjestad: n. 1067 B.; lower part of the Quill: n. 515; Cliff at the seashore: n. 514; English quarter: n. 513; along roads in Oranjestad: n. 560 B.; locality unknown: n. 40a B., 93 G., 176 H.

I also saw *Achyranthes obtusifolia* on the seashore near Oranjestad; slope of the Cliff.

Saba: Windwardside—Hellsgate: n. 1671 B.; Windwardside: n. 1885 B.; locality unknown: n. 254 L.

I also saw *Achyranthes obtusifolia*: Laddergut.

St. Martin: from Filipsburg to Belvedere: n. 2583 B.; Marigotroad: n. 516.

I also saw *Achyranthes obtusifolia* in Cul de Sac; Marigot—Marigot; in pastureground near Bellevue.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Afr., Asia-trop., Ins-Paul. (Symb.).

2335. **Alternanthera** Forsk.**Alternanthera crucis** Comb. Nov.

Telanthera crucis Moq. in DC. Prod. XIII. II. (1849.) 362; Gris. Fl. 67.

St. Martin: Pointe Blanche: n. 3407 B.

St. Croix. (Herb. Krug et Urban.).

Alternanthera repens O. Ktze Rev. II (1891) 540.

Alternanthera achyrantha R. Br. Prodr. I (1810) 417; Gris. Fl. 67; Duss 57; Millspaugh 485.

St. Eustatius: in a garden in Oranjestad: n. 83 B.; Cultuurvlakte: n. 522; in a garden: n. 521; locality unknown: n. 520.

Saba: between Bottom and Marypoint 100—200 M.: n. 1458 B.; Windwardside: n. 1892 B., 1897 B.; Bottom: n. 524, 525.

St. Martin: along roads from Colebay to Simonsbay: n. 3246 B.; from Philipsburg to Point Blanche: n. 3407 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3421 B.; Colebayhill: n. 523.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont., Ins. Canar., Hispania. (Symb.).

2338. **Gomphrena** Linn.**Gomphrena globosa** Linn. Spec. (1753) 224. Bachelor's button.

Cultivated. [Indig. Asia orient. et austr. from Ins. Sundaic. to Nova Guinea.]. (Symb.).

2339. **Iresine** Linn.

Iresine elatior L. Cl. Rich. ap. Willd. Spec. IV (1806) 766; Gris. Fl. 64; Duss 55; Millspaugh 485. White snow plant.

St. Eustatius: Cultuurvlakte: n. 591; road near Sugarloaf: n. 594; locality unknown: n. 1118 B.

Saba: Peperpot: n. 592.

St. Martin: Colebayhill: n. 593; from Philipsburg to Guanabay: n. 2396 B.; Nakedboyhill 100 M.: n. 2692 B.

St. Croix ex Millspaugh.

Antill., Venezuela, Nova Granata. (Symb.).

Iresine paniculata O. Ktze. Rev. II (1891) 542.

Iresine celosioides Linn. spec. (1763) 1456; Gris. Fl. 64; Duss 55.

St. Eustatius: from Signalhill to Tumbledowndickbay 200 M.: n. 125 B.; deserted plantations near Tumbledowndickbay: n. 151 B.; near Maryglory 150 M.: n. 1164 B.; slope of the Quill: n. 585; Boven: n. 586.

Saba: Bottom: n. 1455 B.; Boobyhill 300 M.: n. 1577 B.; Hellsgate: n. 1693 B.; Ladder: n. 590; Greathill 2—400 M.: n. 589; Rendez-vous: n. 588; locality unknown: n. 146 L.

St. Martin: Marigotroad near Marigot: n. 2817 B.; lower part of the Milldrimhill: n. 3176 B.; Centryhill: n. 587.

Baham., Antill., Amer. cont. from Un. Stat. to Argentina. (Symb.).

Philoxerus R. Br.

cf. 2339. *Iresine* Linn. sect. 1.

Philoxerus vermicularis R. Br. Prodr. I (1810) 410; Gris. Fl. 65; Duss 56.

Lithophila vermiculata Uline in Field Col. Mus. Bot. II (1900) 39; Millspaugh. 485.

St. Martin: Oysterpond: n. 9; locality unknown: n. 2523 B.

St. Croix ex Millspaugh.

Florida austr., Key ins., Baham., Antill., Amer. cont. trop., Afr. occid. (Symb.).

Lithophila Sw.

Lithophila muscoides Sw. Prod. Veg. Ind. Occ. (1788) 14; Gris. Fl. 66; Duss 56; Millspaugh 485.

Alternanthera muscoides Benth et Hook. f. Gen. III (1880) 39.

St. Eustatius: Seashore near Oranjestad: n. 20 B.; deserted plantations near Tumbledowndickbay: n. 167 B.; Concordiabay: n. 534; seashore: n. 533, 586a B.; Cliff near Fort Amsterdam: n. 532; locality unknown: n. 408a B.

Saba: along the seashore near Forthbaylanding: n. 1645 B.; Laddergut: n. 1977 B.; seashore near Flat Point: n. 2136 B.; Ladder: n. 530, 531.

St. Martin: from Philipsburg to Guanabay: n. 2376 B.; along the saltpond near Philipsburg: n. 2449 B.; Green Key: n. 3368 B.; Philipsburg—Fort Amsterdam: n. 536; Guanabay: n. 535.

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, Aruba. (Symb.).

80. Nyctaginaceae.2347. **Mirabilis** Linn.

Mirabilis Jalapa Linn. Spec. (1753) 177; Gris. Fl. 69; Duss 59; Millspaugh 486. Four o'clock.

St. Eustatius: in a garden in Oranjestad: n. 1253 B., 88, 153 H., 154 H., 239 G., 240 G., 247 G.

Saba: Lowerpart of the Bottom Mountain 250 M.: n. 1417 B.; Peperpot: n. 34, 87; Bottom: n. 33; locality unknown: n. 112 L.

St. Martin. (Symb.).

Anguilla Boldingh.

St. Croix ex Millspaugh.

. Baham., Antill., Amer. cont. trop. (Symb.). Cultivated and escaped.

2349. **Boerhaavea** Linn.

Boerhaavea erecta Linn. Spec. (1753) 3; Gris. Fl. 69; Duss 60; Millspaugh 486.

St. Eustatius: Oranjestad: n. 25, 26, 27; locality unknown: n. 601 B., 86 G., 223 H., 223 G.

St. Martin: from Philipsburg to Guanabay: n. 2405 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. cont. (Symb.).

Boerhaavea hirsuta Willd. Phytogr. (1794) 1; Gris. Fl. 69; Duss 60. Potta potta, Hog meat.

Boerhavia repens Linn. Spec. (1753) 3.

St. Eustatius: Seashore near Oranjestad: n. 40 B.; in a garden in Oranjestad: n. 85 B.; Cultuurvlakte: n. 20, 21; locality unknown: n. 87 G., 175 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1508 B; Laddergut 200 M.: n. 1995 B., 22.

St. Martin; along roads from Grande Case to Marigot: n. 3098 B.

St. Croix (Symb.).

Antill., Amer. sept. and centr. (Symb.).

Boerhaavea paniculata L. Cl. Rich. in Act. Hist. Nat. Par. I (1792) 105; Gris. Fl. 69; Duss 60; Millspaugh 487.

St. Eustatius: in a garden in Oranjestad: n. 524 B.; Bengalen: n. 632 B.; along roads near Glassbottle: n. 872 B.; Fairplay: n. 61; Oranjestad: n. 3; locality unknown: n. 1011 B., 1019 B., 62, 64.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1347 B.; along roads 200 M.: n. 1384 B.; between Bottom and

Marypoint 100--200 M.: n. 1534 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2056 B.; locality unknown: n. 31 L.

St. Martin: Fort Willem 0—50 M.: n. 2537 B.; Fort Amsterdam: n. 39; road to Guanabay: n. 4; locality unknown: n. 2305 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. centr. and Austral. (Symb.).

Boerhaavea scandens Linn. Spec. (1753) 3; Gris. Fl. 69.

St. Martin: Colebay (Coll. George): n. 2516 B.; near Fort Amsterdam: n. 10.

Anguilla Boldingh.

Baham., Antill., Curaçao, Amer. cont. from Arizona to Peru. (Symb.).

2354. **Pisonia** Linn.

Pisonia aculeata Linn. Spec. (1753) 1026; Gris. Fl. 70; Duss 61; Millspaugh 487. Cockspur.

St. Eustatius: from Little Mountains to Venusbay: n. 957 B.; along roads near Oranjestad: n. 1002 B.; slope of the hills near Concordiabay: n. 89; Venusbay: n. 35.

Saba: lower part of the Bottom Mountain 300 M.: n. 1425 B.; Boobyhill: n. 1610 α B.; Rendez-vous: n. 90; Quarter 300 M.: n. 36; locality unknown: n. 148 L.

I also saw *Pisonia aculeata*: Springbaygut; Flat Point.

St. Martin: Princequarter (Coll. George): n. 2467 B.; from Philipsburg to Belvedere: n. 2556 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2873 B.; Colebayhill: n. 32.

I also saw *Pisonia aculeata* in: Lower part of Milldrumhill; Mount Paradis; along roads near Nakedboylhill.

St. Croix ex Millspaugh.

Florida austral., Baham., Antill., trop. contr. of both hemisph. (excl. Afr. cont.) (Symb.).

Pisonia fragrans Dumont Cours. Bot. Cult. II ed. vol. VII (1814) 114.

Pisonia obtusata Sw. Flor. III (1806) 1960 (non Jacq. 1798); Gris. Fl. 71 (p. p.) (Symb.); Duss 62.

Pisonia inermis Gris. Flor. W. I. (1859) 7 (p. p., non Jacq.) (Symb.); Millspaugh 487. Black Loblolly tree.

St. Eustatius: along the road from Oranjestad to White Wall: n. 4 B.; top of the Quill 400 M.: n. 337 B.; 450 M.: n. 357 B.,

362 B.; inner slope of the Quill 350 M.: 425 B; top of the Quill 500 M.: n. 478 B., 489 B.; slope of the Quill near Bengalen: n. 707 B.; 200 M.: n. 738 B.; from Signalhill to Venus bay: n. 959*a* B; near Boven 200 M.: n. 1236*a* B.; Cultuurvlakte—Pango: n. 9; Cultuurvlakte: n. 20; locality unknown: n. 180 G., 17.

Saba: Marypoint: n. 37.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2649 B.; Nakedboyhill 50—200 M.: n. 2704 B.; lower part of the hills between Mount Chambord and Mount Vernon: n. 2918 B., 2921 B.; between Mount Vernon and Orientbay: n. 2927 B.; along roads from Grande Case to Marigot: n. 3091 B.; Milldrumhill 300—400 M.: n. 3186 B.; Mount Paradis 200—300 M.: n. 3312 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3418 B.; near Fort Amsterdam: n. 1; John Ednyhill: n. 23.

I also saw *Pisonia fragrans* on the hill between Mont des Accords and Centryhill; near Saline.

St. Croix ex Millspaugh.

Florida austr., Antill., Amer. centr., Columbia, Guiana. (Symb.).

Pisonia subcordata Sw. Prodr. (1788) 60; Gris. Fl. 70; Duss 61; Millspaugh 487. M a p p o o.

St. Eustatius: Seashore near Oranjestad: n. 25 B.: Top of the Quill 400 M.: n. 185 B., 370 B.; in deserted plantations at the seashore near Bengalen: n. 596 B.; slope of the lower part of the Quill near Bengalen: n. 714 B.; locality unknown: n. 181 G., 322 H.

I also saw *Pisonia subcordata*: in Signalhill 200 M.; top of the Cliff between Oranjestad and White Wall; gut near Fort de Wind; Tumbledown-dickbay—Venusbay; Bergje.

Saba: Between Bottom and Marypoint 350 M.: n. 1498 B.

I also saw *Pisonia subcordata*: Forthbaygut; Tentgut; Saddle; Crispeenhill; Bottom—Windwardside; Gilesgut; Springbaygut; Flatpoint.

St. Martin: from Filipsburg to Guanabay: n. 2373 B.; Prince quarter (Coll. George.): n. 2471 B.

I also saw *Pisonia subcordata*: along roads near Bethlehem; along roads from Filipsburg to Nakedboyhill; Marigothill—Marigot; Nakedboyhill; Fort Willem; hills on the northern side of Cul de Sac; along roads from Filipsburg to Simonsbay; along roads near Grande Case; Vallée des Pères; lower part of Milldrumhill; Mount Paradis 300—400 M.; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Barthélemy, St. Kitts, Antigua, Guadeloupe, Désirade, Martinique. (Symb.).

83. Phytolaccaceae.

2370. **Rivina** Linn.

Rivina humilis Linn. Spec. (1753) 121; Millspaugh 486.

Rivina laevis Linn. Mant. I (1767) 41; Gris. Fl. 59; Duss 49. J u m b y p e p p e r.

St. Eustatius: In a deserted plantation near Tumbledown Dickbay: n. 170 B.; Bengalen: n. 611 B., 636 B.; slope of the Quill near Bengalen 50—200 M.: n. 646 B.; along roads in Oranjestad: n. 939 B.; Village: n. 176; locality unknown: n. 161 G., 211 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1339 B.; along roads 200—300 M.: n. 1713 B.; Ladder gut 200 M.: n. 1993 B.; Peperpot: n. 173; Bottom: n. 174, 175; locality unknown: n. 32 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2904 B.; along roads in Cul de Sac: n. 2997 B.

I also saw *Rivina humilis* in Mount Paradis 100—200 M.; gut from Bethlehem to Cul de Sac.

St. Croix ex Millspaugh.

Florida austr., Baham., Antill., Amer. cont. trop. et subtrop. (Symb.).

Villamilla R. et P.

cf. 2370. *Rivina* Linn. Sect. 2.

Villamilla octandra Hook f. in Benth. et Hook. Gen. Plant III (1880) 81; Millspaugh 486.

Rivina octandra Linn. Cent. plant. II (1756) 9; Gris. Fl. 59; Duss 50. White hoop.

St. Eustatius: deserted plantations near Tumbledown Dickbay: n. 169 B.; slope of the hills near Concordiabay: n. 191, 192, 194; Red Cliff—Tumbledown Dickbay: n. 193; locality unknown: n. 323 H.

Saba: Top of the Cliff near the seaside of Boobyhill: n. 1610 B.; Hellsgate: n. 1698 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2053 B.; Crispeen Rendez-vous: n. 127; Hellsgate n. 177, 178, 179; locality unknown: n. 236 L.

St. Martin: Cul de Sac along roads: n. 2966 B.; Centryhill: n. 126; French frontier: n. 190.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

2371. **Petiveria** Linn.

Petiveria alliacea Linn. Spec. (1753) 342; Gris. Fl. 59; Duss 50; Millspaugh 486.

St. Eustatius: near Tumbledown Dickbay: n. 139 B.; locality unknown: n. 238 H., 260 G.

Saba: Windwardside: n. 1591 B.; Laddergut: n. 2001 B.; Peperpot: n. 152, 153; Rendez-vous 400 M.: n. 151; Bottom: n. 150; locality unknown: n. 72 L., 328 L.

St. Martin: Marigothill: n. 2615 B.; gut from Bethlehem to Cul de Sac: n. 3422 B.

St. Croix ex Millspaugh.

Florida austr., Antill., Amer. cont. trop. (Symb.).

2372. **Microtea** Sw.

Microtea debilis Sw. Prod. Veg. Ind. Occ. (1788). 53; Gris. Fl. 59; Duss 49; Millspaugh 486.

St. Eustatius: in a garden in Oranjestad: n. 89 B.; along roads in Oranjestad: n. 569 B., 1036 B.; Oranjestad: n. 195; locality unknown: n. 43 G., 22.

St. Martin: From Philipsburg to Belvedere: n. 2588 B.

St. Croix ex Millspaugh.

Antill., Panama to Peru, Bras. equat. and Guiana. (Gris. Fl.).

2380. **Phytolacca** Linn.

Phytolacca icosandra Linn. Syst. X. ed. II (1759) 1040; Gris. Fl. 58; Duss 49.

Saba: Mountain 800 M.: n. 2214 B.; locality unknown: n. 169 L., 175 L., 209 L.

St. Martin: Mount Paradis 300—400 M.: n. 3211 B.

Baham., Antill., Amer. cont. trop. (Symb.).

84. **Aizoaceae.**2387. **Mollugo** Linn.

Mollugo verticillata Linn. Spec. (1753) 89; Gris. Fl. p. 56.

St. Eustatius: along roads in Oranjestad: n. 1098 B.; slope of the Quill near Bengalen: n. 196.

Antill., Amer. cont. (Symb.).

2394. **Sesuvium** Linn.

Sesuvium portulacastrum Linn. Syst. X. ed. II (1759) 1058; Gris. Fl. 57; Duss 47; Millspaugh 487.

St. Eustatius: Seashore near Bengalen: n. 585 B.; near White Wall: n. 851 B., 855 B.; near Maryglory 150 M.: n. 1162 B.; seashore near Turtlebay: n. 93, 94.

Saba: near the Sulphurmines: n. 1703*a* B.; seashore near Laddergut: n. 2132 B.

St. Martin: near Filipsburg: n. 2336*a* B.; near Mulletpond: n. 2763*a* B.; Tintamarre: n. 3389 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Curaçao, trop. and subtr. countries of both hemisph. (Symb.).

2395. *Trianthema* Linn.

Trianthema portulacastrum Linn. Spec. (1753) 223.

Trianthema monogynum Linn. Mant. I (1767) 69; Gris. Fl. 58; Duss 48; Millspaugh 487.

St. Eustatius: in a garden in Oranjestad: n. 1058*a* B., 104, 90 G.

St. Martin: Nakedboyhill: n. 2707*a* B.; road near Simonsbay: n. 3247*a* B.; Colebayhill: n. 103.

St. Croix ex Millspaugh.

Key, Antill., Curaçao, Amer. cont. trop., Afr., and Asia trop. (Symb.).

85. Portulacaceae.

2406. *Talinum* Adans.

Talinum paniculatum Gärtn. Fruct. II (1791) 219 t. 128.

Talinum patens Willd. Spec. II (1800) 863 (var *z*) (Symb.); Gris. Fl. 57; Duss 46; Millspaugh 487.

Saba: Laddergut 0—200 M.: n. 1952 B.; Peperpot: n. 40; locality unknown: n. 124 L.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Talinum triangulare Willd. Spec. II (1800) 862; Gris. Fl. 56; Duss 46; Millspaugh 487.

St. Eustatius: Bengalen: n. 612 B.; along roads in Oranjestad: n. 1132 B.; near Boven 200 M.: n. 1241 B.; locality unknown: n. 63 G.

Saba: near the Sulphurmines: n. 1701 B.; Mountain 400 M.: n. 1768 B.; Bottom: n. 2232 B.; locality unknown: n. 256 L.

St. Martin: from Filipsburg to Belvedere: n. 2569 B.; from Belvedere to Oysterpond: n. 3044 B.; Prince quarter: n. 42; Cul de Sac: n. 41; locality unknown: n. 3613 B.

St. Croix ex Millspaugh.
Antill., Amer. austr. (Symb.).

2421. **Portulaca** Linn.

Portulaca halimoides Linn. Spec. (1762) 639; Gris. Fl. 57; Duss 47; Millspaugh 488. Silk cotton purslane.

St. Eustatius: in a garden in Oranjestad: n. 86 B.; along roads in Oranjestad: n. 549 B, 1080 B.; seashore near White Wall: n. 853 B.; old Fort: n. 67; White Wall: n. 66; locality unknown: n. 339 H.

St. Martin: Colebay (coll. George): n. 2522 B.; between Mount Vernon and Orientbay: n. 2943 B.; Green Key: n. 3362 B.; Fort Amsterdam: n. 57; Guanabay: n. 58.

Anguilla Boldingh.

St. Croix ex Millspaugh.
Antill., Mexico. (Symb.).

Portulaca oleracea Linn. Spec. (1753) 445; Gris. Fl. 57; Duss 46; Millspaugh 487.

St. Eustatius: Seashore near Oranjestad: n. 41 B.; in a garden in Oranjestad: n. 88 B., 521 B.; Bengalen: n. 635 B.; slope of the lower part of the Quill near Bengalen: n. 722 B.; seashore near Venusbay: n. 966 B.; near Boven: n. 200 M.; seashore: n. 72, 73; locality unknown: n. 28 G., 29 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1329 B.; Windwardside—Hellsgate: n. 1664 B.; near Flat Point: n. 2130 B.; Windwardside: n. 2320 B.; locality unknown: n. 80 L.

St. Martin: from Filipsburg to Guanabay: n. 2413 B.; along roads near Prince quarter: n. 2912 B.; between Mount Vernon and Orientbay: n. 2940 B.; from Belvedere to Oysterpond: n. 3052 B.; Tintamarre: n. 3387 B.; locality unknown: n. 68.

I also saw *Portulaca oleracea*: in pastureground near Belvedere; Naked-boyhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., trop. and warmer countries of both hemisph. (Symb.).

Portulaca pilosa Linn. Spec. (1753) 445; Gris. Fl. 57; Duss 47; Millspaugh 487.

Saba: along roads 200 M.: n. 1383 B.; Bottom: n. 2264 B., 2299 B.

St. Martin: I also saw *Portulaca pilosa*: along roads near Bethlehem.

St. Croix ex Millspaugh.

Florida, Antill., Mexico. (Symb.). Also cultivated.

Portulaca poliosperma Urb. in *Symbolae Antillanae* IV (1905) 232.

St. Martin: Lowlands: n. 3286a B.

Portorico. (Symb.).

Portulaca quadrifida Linn. Mant. I (1767) 73.

St. Eustatius: along roads in Oranjestad: n. 559 B.; locality unknown: n. 1022 B.

St. Martin: along roads from Bethlehem to Mont Chambord: n. 2917 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2917 B.; Marigotroad: n. 79.

Trop. countries of the Old world. (Ind. Kew.).

86. Basellaceae.

2427. **Boussingaultia** H. B. K.

Boussingaultia baselloides H. B. K. Nov. Gen. et Spec. VII (1825) 196 t. 645.

Cultivated. [Amer. trop.] (E. & P.).

87. Caryophyllaceae.

2452. **Drymaria** Willd.

Drymaria cordata Willd. ap. R. et Sch. Syst. V (1819) 406; Gris. Fl. 56; Duss 45; Millspaugh 468. White snow.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1287 B.; Windwardside—Hellsgate: n. 1670 B.; Windwardside: n. 2306 B.; Bottom: n. 200; Peperpot: n. 198; Crispeen—Rendezvous 400 M.: n. 199.

I also saw *Drymaria cordata*: Laddergut.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afr. and Asia trop. (Symb.).

88. Nymphaeaceae.

2513. **Nymphaea** Linn.

Nymphaea spec.

Cultivated.

94. Menispermaceae.2574. **Cissampelos** Linn.

Cissampelos Pareira Linn. Spec. (1753) 1031; Gris. Fl. 10; Duss 7; Millspaugh 488.

St. Eustatius: along roads in Oranjestad: n. 574 B.; slope of the Quill near Bengalen 100 M.: n. 667 B.; slope of the lower part of the Quill near Bengalen: n. 710 B.; seashore near White Wall: n. 848 B.; slope of the Quill: n. 55, 56; locality unknown: n. 218 H.

Saba: near the Sulphurmines: n. 1702 B.

St. Martin: Mountain between Mont des Accords and Centry-hill 200—300 M.: n. 2885 B.; Mount Paradis 150—400 M.: n. 3191 B.; locality unknown: n. 3620 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afr., Asia trop. (Symb.).

2622. **Hyperbaena** Miens.

Hyperbaena domingensis Benth. in Journ. Linn. Soc. V. Suppl. II (1861) 50.

Cocculus domingensis DC. Syst. I (1818) 528; Gris. Fl. 10; Duss 7.

Pachygone domingensis Eichl. in Flora XLVII (1864) 394.

St. Eustatius: Bottom of the Quill 300 M.: n. 426 B., 891 B., 896 B.; top of the Quill 500 M.: n. 486 B.; slope of the lower part of the Quill near Bengalen: n. 708 B.; seashore: n. 57; Quill; n. 58, 73.

Saba: Springbaygut: n. 2092 B.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, Guadeloupe, Dominica, Martinique. (Symb.).

98. Anonaceae.2729. **Anona** Linn.

Anona montana Macf. Flor. Jam. I (1837) 7; Gris Fl. 4.

St. Eustatius: near Bengalen: n. 1188a B., locality unknown: n. 274 H.; slope of Signalhill: n. 21.

Saba: along the Forthgut n. 1638 B.; Ladder: n. 20.

Antill., Guiana. (Symb.).

Anona muricata Linn. Spec. (1753) 536; Gris. Fl. 4; Duss 2; Millspaugh 488. Sour sap.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 54 B.; along the lower part of Signalhill: n. 121 B.; lower part of the slope of the Quill near Bengalen: n. 745 B.; along roads in Oranjestad: n. 1279 B.; locality unknown: n. 89 H., 173 G.

I also saw *Anona muricata* on the slope of the Quill on the side of White Wall.

Saba: lower part of the Bottom Mountain 300 M.: n. 1438 B.; Bottom: n. 1844 B.; Springbaygut: n. 2078 B.; Marypoint: n. 22; locality unknown: n. 3 L.

I also saw *Anona muricata*: between Bottom and Marypoint; Fortbaygut; Gilesgut.

St. Martin: Prince quarter (coll. George): n. 2463 B.; from Philipsburg to Belvedere: n. 2593 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2880 B.; lower part of Mount Paradis: n. 3354 B.

I also saw *Anona muricata*: Marigothill—Marigot; Nakedboyhill; hill on the northern side of Cul de Sac; from Belvedere to Oysterpond; one of the islands in Simonsbaylagoon; Top of Mount Paradis 400 M.

St. Croix ex Millspaugh.

Antill.; cult. in Amer. trop. Asia trop. and Afr. occ. (Symb.). Also cultivated.

Anona reticulata Linn. Spec. (1757) 537; Gris. Fl. 5; Duss 4; Millspaugh 488. Custard apple.

St. Eustatius: Slope of the Quill 350 M.: n. 1219 B.

Saba: Boobyhill 300 M.: n. 1632 α B.; Bottom: n. 1842 B.

I also saw *Anona reticulata*: Laddergut.

St. Croix ex Millspaugh.

Antill.; cult. in Amer., Afr. and Asia trop. (Symb.).

Also cultivated.

Anona squamosa Linn. Spec. (1753) 537; Gris. Fl. 5; Duss 3; Millspaugh 488.

St. Eustatius: in a garden in Oranjestad: n. 525 B.; in deserted plantations at the seashore near Bengalen: n. 595 B.; locality unknown: n. 88 H., 91 G.

I also saw *Anona squamosa* in Signalhill.

Saba: Bottom: n. 1848 B., 2256 B.

I also saw *Anona squamosa*: Laddergut, Forthbaygut.

St. Martin: from Philipsburg to Guanabay: n. 2347 B.; Mountain between Mont des Accords and Centryhill: n. 2869 B.; from Belvedere to Oysterpond: n. 3049 B.; Mount Paradis 200—300 M.: n. 3309 B.

I also saw *Anona squamosa*: along roads from Philipsburg to Nakedboy-hill; Margothill—Marigot; near Bellevue; lower part of Milldrumhill; Vallée des Pères; one of the islands in Simonsbaylagoon.

St. Croix ex Millspaugh.

Antill.; cult. in Amer. cont. trop., Afr., Asia trop. (Symb.).

Also cultivated.

102. Lauraceae.

2783. *Persea* Gärtn.

Persea americana Mill. Gard. Dict. VIII ed. (1768).

Persea gratissima Gärtn. f. Fruct. III (1807) 222 tab. 221; Gris. Fl. 280. Duss 298.

Persea Persea Cock. in Bull. Torr. Bot. Club. XIX (1892) 95; Millspaugh 489. Pear tree, Avocado.

St. Eustatius: in deserted plantations near Tumbledown-dick-bay: n. 141 B., 146 B.; top of the Quill 400 M.: n. 223 B.; slope of the Quill near Bengalen 50—200 M.: n. 652 B.; in a garden near Glassbottle: n. 1210 B.; locality unknown: n. 112 H., 146 G.

Saba: Windwardside: n. 1928 B.; Mountain near Windward-side 600 M.: n. 2153 B.; locality unknown: n. 1565 B., 149 L.

I also saw *Persea americana* in Laddergut.

St. Martin: along roads near Anse des Pères: n. 3107 B.; Mount Paradis 150—400 M.: n. 3193 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham. Antill., trop. countries of both hemisph., Ind. in Mexico. (Symb.). Also cultivated.

2785. *Phoebe* Nees.

Phoebe elongata Nees. Syst. (1836) 116; Duss 298.

St. Eustatius: Quill: n. 256 α B., 410 B., 898 B.

Cuba, Hispaniola, Portorico, Guadeloupe, Martinique, St. Vincent, Grenada, Tobago, Trinidad. (Symb.).

2790. *Nectandra* Roland.

Nectandra coriacea Griseb. in Flor. W. I. (1860) 281; Duss 301.

Nectandra Wildenoviana Nees. Syst. (1836) 321. Sweet wood.

St. Eustatius: Top of the Quill 400 M.: n. 221 B., 256 B., 272 B., 288 B., 289 B.; slope of the Quill 350 M.: n. 410 B.; slope of the Quill near Bengalen 50—200 M.: n. 648 B., 680 B., 696 B., 728 B., 751 B.; Bottom of the Quill 300 M.: n. 893 B., 902 B.; lower part of the Hills near Concordia: n. 981 B.; Glassbottle 150 M.: n. 1114 B.; top of the Quill: n. 248; Cliff: n. 243; slope of the Quill: n. 247; Quill: n. 168 G., 116 H.; locality unknown: n. 244, 245.

Saba: Paris 2—400 M.: n. 242; Windwardside: n. 1947 B.

St. Martin: Mountain between Mount des Accords and Centry-hill 200—300 M.: n. 2855 B., 2898a B.; Milldrumhill 300—400 M.: n. 3125 B.; Mount Paradis 200—300 M.: n. 3306 B., 3320 B.; locality unknown: n. 3584 B.

St. Croix. (Symb.).

Florida, Baham., Antill., Yucatan. (Symb.).

Nectandra Krugii Mez in Jahrb. Bot. Gart. Berl. V (1889) 422.

Nectandra discolor Gris. Flor. W. I. (1860) 282 non Nees. (Symb.). Black sweet wood.

St. Eustatius: Top of the Quill 500 M.: n. 477 B., 487 B.; Quill: n. 1, 2, 3, 4, 16, 19, 20, 22; locality unknown: n. 17, 18, 23, 24, 25, 215, 246.

Saba: Boobyhill 300 M.: n. 1575 B.; Windwardside: n. 1946 B.; near Devilshand: n. 2074 B.; near Flat Point: n. 2140 B.

Portorico, Guadeloupe, Dominica. (Symb.).

104. Papaveraceae.

2852. *Argemone* Linn.

Argemone mexicana Linn. Spec. (1753) 508; Gris. Fl. 13; Duss 8; Millspaugh 489. Thistle.

St. Eustatius: Seashore near Oranjestad: n. 43 B.; Cultuur-vlakte: n. 124; locality unknown: n. 20 G., 17 H.

Saba: Bottom: n. 2271 B.; locality unknown: n. 155 L.

St. Martin: I saw this plant: near Filipsburg and in pastureground near Bellevue.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. cont. trop. and from there in trop. countries of the Old world. (Symb.).

105. Cruciferae.

2883. *Lepidium* Linn.

Lepidium virginicum Linn. Spéc. (1753) 645; Gris. Fl. 14; Duss 9; Millspaugh 489.

St. Eustatius: along roads near Glassbottle: n. 885 B.; slope of the Quill: n. 340.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1292 B., 1363 B.; Mountain near Windwardside 600 M.: n. 2164 B.; Ladder: n. 342.; Peperpot: n. 341; locality unknown: n. 123 L.

St. Martin: Mountain between Mont des Accords and Centry-hill 200—300 M.: n. 2901 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 3004 B.; Milldrumhill 200—300 M.: n. 3121 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. sept. from Canada to Texas. (Symb.).

2920. *Cakile* Juss.

Cakile lanceolata O. E. Schulz. in Urb. Symb. Antill. III (1903) 504.

Cakile aequalis L'Hérit ap. DC. Syst. II (1821) 430; Gris. Fl. 14; (Symb.); Duss 10; Millspaugh 489.

St. Eustatius: Turtlebay: n. 328.

Saba: between Hellsgate and Marypoint: n. 2044 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Columbia. (Symb.).

2949. *Brassica* Linn.

Brassica integrifolia O. E. Schulz in Urb. Symb. Antill. III (1903) 509.

Sinapis brassicata Gris. Flor. W. I. (1859) 14; Millspaugh 489.

Sinapis juncea Eichl. in Mart. Fl. Bras. XIII. 1. (1865) 306. (non L.). (Symb.); Duss 10. Mustard.

St. Eustatius: locality unknown: n. 141 H., 292 G.

Saba: Windwardside: n. 1884 B.; Rendez-vous 400 M.: n. 325, 326; locality unknown: n. 26 L.

St. Croix ex Millspaugh.

Antill.; Indig. in Asia austr. and orient. (Symb.).

107. **Capparidaceae.**3087. **Gynandropsis** DC.

Gynandropsis pentaphylla DC. Prodr. I (1824) 238.

Cleome pentaphylla Linn. Spec. (1763) 938; Gris. Fl. 15; Duss 11; Millspaugh 489. Massambý.

St. Eustatius: along roads in Oranjestad: n. 547 B., 933 B.; Cultuurvlakte: n. 205, 185; locality unknown: n. 29 H., 33 G.

Saba: Bottom: n. 1841 B.; locality unknown: n. 153 L.; Bottom: n. 186.

St. Martin: Colebayhill: n. 188; Prince quarter: n. 189.

I also saw *Gynandropsis pentaphylla*: Mount Paradis 100—200 M.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. calid.; Indig. in Afr. and Asia trop. (Symb.).

3090. **Polanisia** Raf.

Polanisia viscosa DC. Prod. I. (1824) 242.

Cleome graveolens Rafin. in Journ. phys. (1819) 98.

Cleome viscosa Linn. Spec. (1753) 672; Gris. Fl. 16; Duss 12.

Polanisia icosandra Wight et Arn. Prod. (1834) 22; Millspaugh 490. Wild massambý.

St. Eustatius: along roads in Oranjestad: n. 535 B.; locality unknown: n. 28 H., 32 G.

I also saw *Polanisia viscosa* along the seashore near Oranjestad.

Saba: lower part of the Bottom Mountain 250 M.: n. 1393 B.

St. Martin: from Philipsburg to Guanabay: n. 2401 B.; from Philipsburg to Belvedere: n. 2558 B.; Colebayhill: n. 190.

St. Croix ex Millspaugh.

Antill.; introduced from South. China and Senegamb. (Gris. Fl.).

3101. **Capparis** Linn.

Capparis Breynia Jacq. Sel. Amer. (1763) 161 t. 103; Duss 13.

Capparis amygdalina Lam. Enc. I (1783) 608; Gris. Fl. 17.

St. Eustatius: Gut near Fort de Wind 50 M.: n. 832 B.; from Little Mountain to Venusbay: n. 995 B.; along roads in Oranjestad: n. 1068 B.; slope of the Quill on the side of White Wall 200 M.: n. 1178 B.; Pangohill: n. 168; Little Mountain—Boven: n. 166, 167.

I also saw *Capparis Breynia* on Signalhill.

Saba: between Bottom and Marypoint: n. 1466 B.; Springbaygut: n. 2120 B.; Windwardside: n. 2319 B.

St. Martin: Prince quarter (coll. George.): n. 2460 B., 2481 B.; Nakedboyhill 50—200 M.: n. 2695 B., 200—265 M.: n. 2730 B., 2731 B.; Marigotroad near Marigot: n. 2815 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2889 B.; gut from Bethlehem to Cul de Sac: n. 3433 B.; near Fort Amsterdam: n. 143; behind Centryhill: n. 144.

I also saw *Capparis Breynia* on Mount Paradis 100—200 M.

St. Croix. (Symb.).

Antill., Amer. centr., Nova Granata, Venezuela. (Symb.).

Capparis coccolobifolia Mart. ap. Eichl. in Mart. Fl. bras. XIII. 1. (1865) 284.

Capparis cynophallophora var. *latifolia* Griseb. Flor. W. I. (1859) 18 (p.p.) (Symb.).

St. Eustatius: in deserted plantations near Tumbledowndickbay: n. 145 B.

St. Martin: Prince quarter (coll. George): n. 2478 B.; Milldrumhill 300—400 M.: n. 3147 B.; near Fort Amsterdam: n. 109; Centryhill: n. 129; Guanabay: n. 108; locality unknown: n. 3612 B.

St. Croix. (Symb.).

Antill., Curaçao, Venezuela. (Symb.).

Capparis cynophallophora Linn. Spec. (1762) 721; Gris. Fl. 18; Duss 13; Millspaugh 490. Mustard tree, Man of war bush.

St. Eustatius: Slope of the lower part of Signalhill: n. 118 B.; seashore near Oranjestad: n. 27 B.; slope of the Quill near Bengalen 200 M.: n. 691 B., 695 B., 734 B.; along roads in Oranjestad: n. 925 B.; from Little Mountain to Venusbay: n. 988 B.; Bengalen: n. 749 B.; near Maryglory 150 M.: n. 1145 B.; Seinpost: n. 124; Red Cliff: n. 125; Boven: n. 127; locality unknown: n. 46 H., 191 G.

I also saw *Capparis cynophallophora* on Signalhill; in a garden in Oranjestad.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1305 B.; along the Forthgut 150—200 M.: n. 1626 B.; along roads 200—300 M.: n. 1714 B.; slope of the Mountain near St. John's: n. 1736 B.; St. Giles: n. 1859 B.; Bottom: n. 1882 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2059 B.; Windwardside: n. 2310 B.; Great Hill: n. 202; Quarter: n. 128.

I also saw *Capparis cynophallophora* in Springbaygut.

St. Martin: Cul de Sac: n. 2606 B.; near Mulletpond: n. 2772 B.; hills on the eastern side of Cul de Sac: n. 3436 B.

I also saw *Capparis cynophallophora*: Cul de Sac; Marigothill—Marigot; Nakedboyhill 100—200 M.; near Saline; hills on the northern side of Cul de Sac; along roads from Filipsburg to Simonsbay; from Belvedere to Oysterpond; lower part of Milldrumhill; Mount Paradis 100—400 M.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida austral., Antill., Panama, Amer. austr. (Symb.).

Capparis frondosa Jacq. Enum. (1760) 24; Gris. Fl. 19; Duss 14; Millspaugh 490. Churchblossom.

St. Eustatius: in deserted plantations near Tumbledowndickbay: n. 140 B.; Bottom of the Quill 300 M.: n. 445 B.; slope of the Quill near Bengalen 50 M.: n. 655 B.; hills near Concordia: n. 967 B.; slope of Signalhill: n. 157; Cultuurvlakte: n. 158; near Seinpost: n. 159; Red Cliff: n. 160; Quill: n. 161, 162, 201; Waterrock: n. 162; locality unknown: n. 189 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1334 B.; lower part of the Bottom Mountain 300 M.: n. 1443 B.; Laddergut 200 M.: n. 2007 B.; Peperpot: n. 148, 163; Cresp.—Rendez-vous: n. 164; Marypointgut: n. 152.

I also saw *Capparis frondosa* in Forthbaygut and Springbaygut.

St. Martin: from Filipsburg to Guanabay: n. 2383 B.; Princequarter (coll. George): n. 2461 B., 2482 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2961 B.; from Belvedere to Oysterpond: n. 3058 B.; Centryhill: n. 145; John Ednyhill: n. 146.

I also saw *Capparis frondosa* along roads near Bethlehem; Mount Paradis 100—200 M.; lowerpart of Milldrumhill; Nakedboyhill.

St. Croix ex Millspaugh.

Antill., Amer. centr., Nova Granata, Venezuela. (Symb.).

Capparis jamaicensis Jacq. Enum. (1760) 23; Gris. Fl. 18; Duss 13; Millspaugh 490.

St. Eustatius: Slope of the Quill above White Wall 350 M.: n. 3 B.; slope of the lower part of Signalhill: n. 105 B.; top of the Quill 400 M.: n. 305 B.; top of the Quill 500 M.: n. 488 B., 494 B.; near Maryglory 150 M.: n. 1139 B.; near White Wall: n. 1256a B.; Boven: n. 133, 134, 135; Greatgut: n. 174.

Saba: Boobyhill 300 M.: n. 1621 B.; St. Giles: n. 1862 B.; Windwardside: n. 155; Wellridge: n. 179, 180; Bottom: n. 222; locality unknown: n. 48 L.

St. Martin: from Filipsburg to Guanabay: n. 2368 B., 2382 B., 2412 B., 2417 B.; Prince quarter (coll. George): n. 2466 B., 2476 B., 2480 B.; Fort Willem 0—50 M.: n. 2539 B.; Nakedboyhill 50—200 M.: n. 2712 B.; near Mulletpond: n. 2771 B.; near Fort Willem: n. 2797 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2960 B., 2965 B.; between Belvedere and Oysterpond: n. 3075 B., 3078 B.; Milldrumhill 300—400 M.: n. 3136 B. Centryhill: n. 178, 170; Oysterpond: n. 177; Prince quarter: n. 171; John Ednyhill: n. 175; road to Guanabay: n. 176.

I also saw *Capparis jamaicensis* along roads from Filipsburg to Simonsbay, in the Lowlands and near Saline.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida austral., Baham., Antill. (Symb.).

3104. *Morisonia* Linn.

Morisonia americana Linn. Spec. (1753) 503. Gris. Fl. 19; Duss 14; Millspaugh 490. Wild misple.

St. Eustatius: Slope of the lower part of Signalhill: n. 114 B.; from Little Mountain to Venusbay: n. 965 B.; Little Mountain: n. 195; Boven: n. 218; locality unknown: n. 217.

Saba: between Bottom and Marypoint 100—200 M.: n. 1556 B.; Cow pasture: n. 196.

St. Martin: Prince quarter (coll. George): n. 2483 B.; from Filipsburg to Belvedere: n. 2568 B.; Colebayhill: n. 219, 197.

St. Croix ex Millspaugh.

Antill., Nova Granata. (Gris. Fl.).

109. *Moringaceae*.

3128. *Moringa* Juss.

Moringa oleifera Lam. Enc. I (1783) 398.

Moringa pterygosperma Gärtn. Fruct. II (1791) 314 t. 147 f. 2; Gris. Fl. 16; Duss 12.

Moringa moringa Millsp. in Field. Col. Mus. Bot. I (1902) 490. Millspaugh 490. Moringo.

St. Eustatius: in a garden in Oranjestad: n. 66 B., 227 G.

Saba: Bottom: n. 1878 B.

St. Martin: from Filipsburg to Belvedere: n. 2576 B.

I also saw *Moringa oleifera* along roads from Filipsburg to Nakedboyhill.

St. Croix ex Millspaugh.

Baham., Antill., trop countries of both hemisph. (Symb.). Indig. in India orient. Also cultivated.

115. Crassulaceae.

3165. *Bryophyllum* Salisb.

Bryophyllum pinnatum S. Kurz. in Journ. As. Soc. Beng. XL. (1871) II 52; Millspaugh 490.

Bryophyllum calycinum Salisb. Parad. Lond. (1805) t. 3; Gris. Fl. 303; Duss 319. Leaf of live.

St. Eustatius: along the lower part of Signalhill: n. 120a B.; Cultuurvlakte: n. 335, 336, 287 H., 297 H.

Saba: Great Hill 400 M.: n. 1379 B.; top of the Cliff near the seaside of Boobyhill: n. 1607 B.; Peperpot: n. 337; locality unknown: n. 288 L.

I also saw *Bryophyllum pinnatum*: gut between Hellsgate and Mastiegut; Crispeenhill; Windwardside; Laddergut; Springbaygut.

St. Martin: I did not collect the plant on this island, but I saw it: along roads from Philipsburg to Nakedboyhill; Marigothill—Marigot; from Belvedere to Oysterpond; Mount Paradis 400 M.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., trop. and subtrop. countries of both hemisph. (Symb.).

126. Rosaceae.

3396. *Prunus* Linn.

Prunus myrtifolia Urb. in Symbolae Antillanae V (1904) 93.

Prunus sphaerocarpa Sw. Prodr. (1788) 80; Gris. Fl. 231.

St. Eustatius: Slope of the Quill 400 M.: n. 272a B. Antill., Brasilia. (Symb.).

3398. *Chrysobalanus* Linn.

Chrysobalanus icaco Linn. Spec. (1753) 513; Gris. Fl. 229; Duss 257; Millspaugh 490. Cocoa plum, Fat pork.

St. Eustatius: Top of the Quill 400 M.: n. 339 B.; slope of the Quill 300 M.: n. 880 B.; slope of the Quill 150 M.: n. 232, 247; slope of the Quill: n. 255, 256, 257, 258; Grandgut: n. 259; locality unknown: n. 254, 73 H., 155 H., 224 G., 246 G.

Saba: between Bottom and Marypoint 350 M.: n. 1491*a* B.; Mountain 600 M.: n. 1739 B.; Bottom: n. 2290 B.; Long peak: n. 249; locality unknown: n. 18 L., 335 L.

St. Martin: Colebay (coll. George): n. 2514 B.; seashore near Simonsbay: n. 3036 B.; Lowlands: n. 3273 B.

St. Croix ex Millspaugh.

Florida austral., Baham., Antill., Amer. austr., Afr. austr. (Symb.).

3403. **Hirtella** Linn.

Hirtella triandra Sw. Prodr. (1788) 51; Gris. Fl. 230; Duss 258. Hairy plum.

Saba: Mountain near Hellsgate 600 M.: n. 2277 B.

Antill., Amer. austr. (Symb.).

128. Leguminosae.

3436. **Inga** Willd.

Inga laurina Willd. Spec. IV. 2 (1806) 1018; Gris. Fl. 227; Duss 255; Millspaugh 491. Red wood.

St. Eustatius: Top of the Quill 400 M.: n. 183 B., 205 B., 380 B., 481 B., 483 B., 498 B., 863*a* B., 367 B., 395 B.; slope of the Quill near Bengalen: n. 726 B.; Kant: n. 312, 313, 314; locality unknown: n. 51, 100.

Saba: lower part of the Bottom Mountain 250 M.: n. 1421 B.; Boobyhill 300 M.: n. 1578 B.; Windwardside: n. 1611 B., 2142 B.; Peperpot: n. 79, 80.

St. Martin: Mount Paradis: n. 3214 B., 3226 B., 3327*a* B.

St. Croix ex Millspaugh.

Hispaniola, Portorico, St. Thomas, St. Jan, St. Kitts, Antigua, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, Barbados, Grenada, Trinidad. (Symb.).

3440. **Enterolobium** Mart.

Enterolobium Timbouwa Mart. Flora XX (1827) 128.

Cultivated. [Antill., Amer. austr.] (E. & P.).

3441. **Pithecolobium** Mart.

Pithecolobium unguis-cati Benth. in Hook. Lond. Journ. Bot. III (1844) 200; Gris. Fl. 226; Duss 254; Millspaugh 491. Crabwood.

St. Eustatius: Slope of the lower part of Signalhill: n. 106 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 768 B.; Signalhill 200 M.: n. 1035 B.; Cultuurvlakte: n. 1250; slope of the Quill: n. 1369; Boven: n. 1363; Gilboohill: n. 1379; road to English Quarter: n. 1372; locality unknown: n. 284 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1541 B.; gut between Hellsgate and Mastigut 300—400 M.: n. 2054 B.; Hellsgategut: n. 1361, 1370; pasture: n. 1368.

St. Martin: From Guanabay to Philipsburg: n. 2394 B.; from Philipsburg to Belvedere: n. 2569a B.; Nakedboyhill: n. 2681 B.; near Mulletpond: n. 2754 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 2971 B.

I also saw *Pithecolobium unguis-cati*: Marigothill—Marigot; from Belvedere to Oysterpond; along roads near Grande Case; Lowlands; Mount Paradis 300—400 M.; Tintamarre; gut from Bethlehem to Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida austr., Key Ins., Antill., Venezuela, Nova Granata. (Symb.).

3443. **Albizzia** Durazz.

Albizzia lebbek Benth. in Hook. Lond. Journ. Bot. III (1844) 87. Cultivated. [Baham., Antill., Curaçao, Asia austr. and orient., Afric. trop.] (Symb.).

3446. **Acacia** Willd.

Acacia Farnesiana Willd. Spec. IV. 2 (1806) 1083; Gris. Fl. 222; Duss 250; Millspaugh 491. Casha.

St. Eustatius: Red Cliff: n. 390.

Saba: between Bottom and Marypoint 100—200 M.: n. 1460 B.; St. Giles: n. 1864 B.; Paris 2—400 M.: n. 372; Bottom: n. 414.

St. Martin: from Guanabay to Philipsburg: n. 2434 B.; Fort Willem 0—50 M.: n. 2545 B.; near Mulletpond: n. 2778 B.; Green Key: n. 3365 B.; Philipsburg: n. 251; Fort Amsterdam: n. 386.

St. Croix ex Millspaugh.

Baham., Antill., warmer countries of both hemisph. (Symb.).

Acacia macrantha Humb. et Bonpl. ex Willd. Spec. Plant. IV (1805) 1080; Gris. Fl. 221; Duss 249. French casha, Creole casha, Spanish casha.

St. Eustatius: Seashore near Oranjestad: n. 15 B., 38 B.; top

of the Quill 400 M.: n. 216*a* B., 318 B.; along roads in Oranjestad: n. 543 B., 567 B.; Bengalen: n. 630 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 781 B.; near White Wall: n. 858 B.; near Zeelandia: n. 253; slope of the hills near Concordia: n. 260; top of Pangohill: n. 259; Seafeathersbay: n. 263; locality unknown: n. 36 H., 39 H., 50 G., 304 G.

St. Martin: Prince quarter (coll. George): n. 2454 B.; from Philipsburg to Belvedere: n. 2552*a* B.; between Belvedere and Oysterpond: n. 3076 B.; lower part of Mount Paradis: n. 3291 B.; Colebayhill: n. 49.

Antill., Mexico, Venezuela, Equador, Peru, Buenos Ayres, Galapagos. (Gris. Fl.).

Acacia riparia H. B. K. Nov. Gen. VI (1823) 276; Duss 248.

Acacia sarmentosa Gris. Kar. (1857) 64; (non Desv.) (Symb.); Gris. Fl. 221.

St. Eustatius: near Bengalen: n. 600*a* B.

St. Martin: Prince quarter (coll. George): n. 2455 B.; Naked-boyhill 200—265 M.: n. 2732 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2862 B.; Colebey—Centryhill: n. 787.

St. Croix ex Millspaugh.

Antill., Amer. austr. trop. (Symb.).

Acacia tortuosa Willd. Spec. Plant. IV (1805) 1083; Gris. Fl. 222; Millspaugh 491. Dutch casha.

St. Eustatius: in deserted plantations at the seashore near Bengalen: n. 583 B., 590 B., 600 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 780 B.; along roads near English Quarter: n. 1004 B.; Signalhill 150 M.: n. 1024 B., 1026 B.; slope of the Quill on the side of White Wall 200 M.: n. 1175 B.; Cultuurvlakte: n. 383, 395; seashore: n. 384; Red Cliff: n. 378; locality unknown: n. 371.

St. Croix ex Millspaugh.

Antill., Mexico, Venezuela, Equador, Galapagos. (Gris. Fl.).

3447. **Leucaena** Benth.

Leucaena glauca Benth. in Hook. Journ. Bot. IV (1842) 416; Gris. Fl. 220; Duss 247; Millspaugh 491. Mimosa, Tantan.

St. Eustatius: Seashore near Oranjestad: n. 23 B.; slope of the lower part of the Quill near Bengalen: n. 719 B.; in a garden in Oranjestad: n. 1274 B.; Cultuurvlakte: n. 317, 318; locality unknown: n. 37 H., 44 G.

I also saw *Leucaena glauca* on the slope of the Cliff; Signalhill; deserted plantations near Bengalen.

Saba: Laddergut: n. 318; locality unknown: n. 129 L., 136 L.

St. Martin: from Filipsburg to Belvedere: n. 2590 B.

I also saw *Leucaena glauca*: hill between Mont des Accords and Centryhill; near Saline; hill on the northern side of Cul de Sac; along roads near Grande Case; lower part of Milldrumhill; Mount Paradis 300—400 M.; hills on the eastern side of Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Curaçao, warmer countries of both hemisph.; in Amer. trop. indig? (Symb.).

3449. *Mimosa* Linn.

Mimosa pudica Linn. Spec. (1753) 518; Gris. Fl. 219; Duss 244; Millspaugh 492. Shame lady shame.

St. Eustatius: Slope of the Quill on the side of White Wall 200 M.: n. 1184 B.; along roads near Bengalen: n. 1192 B.; locality unknown: n. 216 H.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Asia trop. (Symb.).

3450. *Desmanthus* Willd.

Desmanthus depressus Humb. et Bonpl. ex Willd. Spec. Plant. IV (1805) 1046; Gris. Fl. 218; Duss 244.

St. Eustatius: Top of the Quill 450 M.: n. 347 B.; lower part of the slope of the Quill near Bengalen: n. 721 B.; Fort de Wind: n. 797a B.; along roads near English Quarter: n. 999 B.; Cultuurvlakte: n. 282.

St. Martin: Nakedboyhill 50—200 M.: n. 2677 B.; Marigot road near Marigot: n. 2812 B.; lower part of the Milldrumhill: n. 3167 B.; Tintamarre: n. 3375 B., 3402 B.

Florida, Antill., Texas to Peru, Galapagos. (Gris. Fl.).

Desmanthus virgatus Willd. Spec. IV. 2 (1806) 1047; Gris. Fl. 218; Duss 244; Millspaugh 492. Wild tantan.

St. Eustatius: in a garden in Oranjestad: n. 71 B.; seashore near Tumbledowndickbay: n. 161 B.; Bengalen: n. 603 B.; slope of the Quill near Bengalen 200 M.: n. 741 B.; along roads in Oranjestad: n. 1075 B.; near Boven 200 M.: n. 1244 B.; Cultuurvlakte: n. 296; locality unknown: n. 162 G., 302 G.

Saba: Boobyhill 300 M.: n. 1614 B.; Laddergut 0—200 M.: n. 1967 B., 2012 B.; Paris 200—400 M.: n. 99.

St. Martin: from Philipsburg to Guanabay: n. 2371 B.; Cul de Sac—Marigot hill 0—200 M.: n. 2633 B.; between Belvedere and Oysterpond: n. 3080 B.; slope of Centryhill: n. 98; French frontier n. 295.

St. Croix ex Millspaugh.

(Bermud.), Baham., Antill., (Amer. cont. trop. and subtrop. India-orient.). (Symb.).

3451. **Neptunia** Lour.

Neptunia plena Benth. in Hook. Journ. Bot. IV (1842) 355; Gris. Fl. 218; Duss 243. Waterthistle.

St. Martin: near Marigot: n. 2627a B.

Antill., Curaçao, Amer. austr., Asia trop. (introd.) (Symb.).

3459. **Adenanthera** Linn.

Adenanthera pavonina Linn. Spec. (1753) 384.

Cultivated. [Asia trop.] (Symb.).

3499. **Hymenaea** Linn.

Hymenaea courbaril Linn. Spec. (1753) 1192; Gris. Fl. 213; Duss 238; Millspaugh 492. Locust.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 649 B.; slope of the Quill 250 M.: n. 889 B.; slope of the Quill: n. 461, 2947; locality unknown: n. 75 H., 175 H., 216 G.

Saba: Windwardside: n. 2332 B.; locality unknown: n. 348 L.

St. Martin: from Philipsburg to Belvedere: 2592 B.; Cul de Sac: n. 2995 B.; Centryhill: n. 472; French frontier: n. 462.

I also saw *Hymenaea courbaril* on the hills on the northern side of Cul de Sac.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.). Also cultivated.

3508. **Tamarindus** Linn.

Tamarindus indica Linn. Spec. (1753) 34; Gris. Fl. 213; Duss 237; Millspaugh 492. Tamarind.

St. Eustatius: Seashore near Oranjestad: n. 29 B.; slope of the lower part of Signalhill: n. 112 B.; in a garden in Oranjestad: n. 1065 B., 40 H., 47 G.

Saba: between Bottom and Marypoint 100—200 M.: n. 1547 B.; Bottom: n. 1873 B., 1874 B.; locality unknown: n. 117 L.

St. Martin: from Philipsburg to Guanabay: n. 2350 B.; Prince-quarter (coll. George): n. 2468 B.

I also saw *Tamarindus indica*: Marigothill—Marigot; Fort Willem; near Saline; along roads from Philipsburg to Simonsbay; Vallée des Peres; one of the islands in Simonsbaylagoon.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Trop. countries of both hemisph.; Ind. veris. in Africa. trop. (Symb.). Also cultivated.

3528. **Bauhinia** Linn.

Bauhinia Kappleri Sagot in Ann. Sc. nat. VI Sér. vol. XIII (1882) 317.

Cultivated. [Asia austro—orient.]. (Symb.).

3536. **Cassia** Linn.

Cassia alata Linn. Spec. (1753) 378.

Cultivated. [Cosmop. trop.]. (Ind. Kew.).

Cassia bicapsularis Linn. Spec. (1753) 376; Gris. Fl. 207; Duss 231; Millspaugh 492. Bly dog.

St. Eustatius: Seashore near Oranjestad: n. 26 B., 50 B.; slope of the lower part of Signalhill: n. 113a B.; in deserted plantations at the seashore near Bengalen: n. 591 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 793 B.; gut near Fort de France: n. 846 B.; along roads near Glassbottle: n. 1214 B.; locality unknown: n. 25 G.; Cultuurvlakte: n. 329; near Seinpost: n. 325.

Saba: Windwardside: n. 1891 B.; Peperpot: n. 330; Great-hill: n. 315; locality unknown: n. 28 L.

I also saw *Cassia bicapsularis*: in Laddergut.

St. Martin: from Philipsburg to Guanabay: n. 2370 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2955 B.; Cul de Sac: n. 320; Guanabay: n. 313.

I also saw *Cassia bicapsularis*: along roads from Philipsburg to Naked-boyhill; Marigothill to Marigot; Nakedboyhill; in pastureground near Bellevue; lower part of Milldrumhill; Mount Paradis 300—400 M.; one of the islands of Simonsbaylagoon; Lowlands.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Curaçao., Amer. cont. trop., Inquil. in India Orient. and Madeira. (Symb.).

Cassia fistula Linn. Spec. (1753) 377. Liquorice plant.

Cultivated. [Asia trop.]. (Symb.).

Cassia glandulosa Linn. Syst. X ed. II (1759) 1017; Gris. Fl. 211; Duss 233.

Chamaecrista glandulosa Greene in Pitton. IV (1899) 28; Millspaugh 493. Wild peas.

St. Eustatius: Top of the Quill 390 M.: n. 499 B.; slope of the Quill near Bengalen 100 M.: n. 666 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 787 B.; near White Wall: n. 1262 B.; Cultuurvlakte: n. 740; Little Mountain: n. 1768; slope of the Quill: n. 992, 1763; locality unknown: n. 81 H., 99 G., 170 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1350 B.; between Windwardside and Hellsgate: n. 1680 B.; Windwardside: n. 2324 B.; Peperpot: n. 1770, 732; Crespeen—Rendez-vous: n. 991.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2651 B.; Centryhill: n. 260; Marigotroad: n. 993.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Amer. austr. (Symb.).

Cassia obovata Collad.; Gris. Fl. 209.

St. Martin: along the saltpond near Filipsburg: n. 2441 B.; Guanabay: n. 274.

Anguilla Boldingh.

From Africa trop. (Gris. Fl.).

Cassia occidentalis Linn., Spec. (1753) 377; Gris. Fl. 209; Duss 235; Millspaugh 492. Bitterroot.

St. Eustatius: Seashore near White Wall: n. 859 B.; along roads near Glassbottle: n. 864 B.; along roads in Oranjestad: n. 562a B., 1103 B.; locality unknown: n. 4 G., 4 H.

Saba: lower part of the Bottom mountain 250 M.: n. 1394 B.; Bottom: n. 2243 B.; Gainbygut: n. 1035; locality unknown: n. 162 L., 237 L.

St. Martin: along roads near Fort Willem: n. 2525 B.; Marigotroad near Marigot: n. 2819 B.; in pastureground near Bellevue: n. 2843 B.; Prince quarter: n. 1034; locality unknown: n. 2524 B.

I also saw *Cassia occidentalis*: Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida austr., Baham., Antill., Amer., Africa, Asia trop. (Symb.).

Cassia polyadena DC. Pl. Rar. Jard. Genève. 2 Rapp. (1825). 12; Gris. Fl. 210.

St. Martin: Lowlands: n. 3272 B., 3274 B., 3288 B.

Baham., Cuba, Domingo, Jamaica, St. Barthélemy, Guadeloupe. (Herb. Krug et Urban).

3543. **Krameria** Loeffl.

Krameria ixina Linn. (1762) 117; Gris. Fl. 31; Wild senna.

St. Eustatius: Signalhill 200 M.: n. 126 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 763 B.; near Maryglory 150 M.: n. 1163 B.; near White Wall on the top of the Cliff: n. 1256 B.; Cultuurvlakte near Golden Rock: n. 181; slope of the hills near Fort Amsterdam: n. 164; Signalhill—Red Cliff: n. 163; locality unknown: n. 200 H.

Hispaniola, St. Thomas, Antigua, Curaçao, Columbia. (Symb.).

3551. **Parkinsonia** Linn.

Parkinsonia aculeata Linn. Spec. (1753) 375; Gris. Fl. 204; Duss 227; Millspaugh 493. Wonder tree, Jeruzalem thorn.

St. Eustatius: along roads in Oranjestad: n. 915 B., 63, 73, 150 H., 73 G.

St. Martin: near Philipsburg: n. 2340 B.

I also saw *Parkinsonia aculeata* on Mount Paradis 100—200 M.

St. Croix ex Millspaugh.

Key ins., Antill., Amer. cont. trop.; escaped in Afr. and Asia trop. (Symb.). Also cultivated.

3552. **Haematoxylon** Linn.

Haematoxylon campechianum Linn. Spec. (1753) 384; Gris. Fl. 204; Duss 226; Millspaugh 493. Log wood.

St. Eustatius: along a road near Oranjestad: n. 1254 B; locality unknown: n. 291 H.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cent. et Austr. sept. (Symb.).

3556. **Poinciana** Linn.

Poinciana regia Boj. ex Hook. Bot. Mag. (1829) tab. 2284. July tree, Flamboyant.

Cultivated. [Madagascar.]. (Symb.).

3559. **Caesalpinia** Linn.

Caesalpinia ciliata Urb. in Symbolae Antillanae VI (1900) 275.

Guilandina Bonduc Gris. Kar. (1857) n. 466 p. 60 et quoad specim. Guad. Flor. p. 240; non Linn. (Symb.).

Guilandina Grisebachiana Kr. et Urb. in Duss Flore. Ant. franc. (1897) 229.

St. Eustatius: Seashore near Oranjestad: n. 21 B.; seashore near Tumbledown Dickbay: n. 156 B.; along roads in Oranjestad: n. 1090 B., 69 H.

Saba: O. Kuntze (Symb.).

St. Martin: Colebay (coll. George): n. 2501 B.; near Mulletpond: n. 2766 B.

Barthélemy, Antigua, Guadeloupe, Desirade, Marie Galante, Martinique. (Symb.).

Caesalpinia coriaria Willd. Spec. Plant. II (1799) 532; Millspaugh 493.

Lebidibia coriaria Schlecht. in Linnaea V (1830) 193; Gris. Fl. 231; Duss 231. Divi divi.

St. Eustatius: in a garden in Oranjestad: n. 64 B., 245 G.

Saba: locality unknown: n. 301 L.; Windwardside: n. 2331 B.

St. Martin: along roads from Colebayhill to Simonsbay: n. 3016 B., 3017 B.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao, Mexico, Venezuela, Nova Granata. (Symb.).

Caesalpinia Crista Linn. Spec. I ed. I (1753) 380; Millspaugh 493.

Guilandina glabra. Griseb. Flor. W. I. (1860) 205 (quoad specim. Martin. a. Cl. Sagot. non Duchassaing missum.); Duss 228; (Symb.).

St. Eustatius: Top of the Quill 400 M.: n. 306 B.; slope of the Quill 50 M.: n. 635; locality unknown: n. 160 G.

Saba: lower part of the Bottom Mountain 250 M.: n. 1409 B.; Bottom: n. 634; locality unknown: n. 354 L.

St. Martin: near Mulletpond: n. 2788 B.

St. Croix ex Millspaugh.

Bermuda., Key ins., Baham., Antill., Amer. cont. trop., Asia austro-orient., Nova Guinea, Australia. (Symb.).

Caesalpinia pulcherrima Sw. Obs. (1791) 166; Gris. Fl. 205; Duss 230; Millspaugh 493. Pride of Barbados.

St. Eustatius: in a garden in Oranjestad: n. 1088 B., 67 H., 68 H., 74 G., 75 G.

Saba: St. Giles: n. 1871 B.; locality unknown: 223 L.

St. Martin: from Philipsburg to Belvedere: n. 2598 B.

I also saw *Caesalpinia pulcherrima* on Marigothill near Bellevue.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Key ins., Baham., Antill., Amer. cont. trop., Afr. trop., Asia trop. Patria ignot. (Symb.). Also cultivated.

3669. *Crotalaria* Linn.

Crotalaria incana Linn. Spec. (1753) 716; Gris. Fl. 180; Duss 193; Millspaugh 494. Small yellow popbush.

St. Eustatius: along roads: n. 256 H., 596a B.

Saba: Windwardside: n. 2144 B.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2872 B.; roads from Marigot to Philipsburg: n. 3110 B.; French frontier: n. 2294.

St. Croix ex Millspaugh.

Florida austral., Antill., warmer countries of both hemisph. (Symb.).

Crotalaria retusa Linn. Spec. (1753) 715; Gris. Fl. 179; Duss 193; Millspaugh 494. Big yellow popbush.

St. Eustatius: Top of the Quill 400 M.: n. 231 B.; White Wall: n. 810 B.; along roads near Bengalen: n. 1187 B.; Fairplay: n. 625; Cultuurvlakte: n. 635; slope of the Quill: n. 645; along roads: n. 285 G., 286 H.

Saba: lower part of the Bottom Mountain 250 M.: n. 1387 B.; Mountain 600 M.: n. 1753 B.; Laddergut 0—200 M.: n. 1961 B.; locality unknown: n. 66 L.

St. Martin: from Guanabay to Philipsburg: n. 2436 B.; Point Blanche (coll. George): n. 2491 B.; from Philipsburg to Belvedere: n. 2600 B.; in an orchard near Bellevue: n. 2848 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop., Afr. trop., Asia austro-orient., Austral. (Symb.).

Crotalaria verrucosa Linn. Spec. (1753) 715; Gris. Fl. 178; Duss 192; Millspaugh 494. Purple popbush.

St. Eustatius: along roads in Oranjestad: n. 923 B.; Fairplay: n. 1634; slope of the Quill: n. 1614, 1624; locality unknown: n. 285 H.

St. Martin: along roads from Grande Case to Marigot: n. 3108 B. Antill.; from the East Indies. (Gris. Fl.).

3688. **Medicago** Linn.**Medicago sativa** Linn. Spec. (1753) 778.

Cultivated. [Europa]. (Ind. Kew.).

3702. **Indigofera** Linn.**Indigofera suffruticosa** Mill. Gard. Dict. VIII ed. (1768) n. 2.*Indigofera anil* Linn. Mant. II (1771) 272; Gris. Fl. 181; Duss 124; Millspaugh 494. Wild indigo.**St. Eustatius**: in a garden in Oranjestad: n. 73 B.; Bengalen: n. 609 B.; along roads near English Quarter: n. 1001 B.; Fairplay: n. 290; Cultuurvlakte: n. 221; slope of the Quill: n. 231, 241; locality unknown: n. 172 G., 157 H., 219 G.**Saba**: between Bottom and Marypoint 100—200.: n. 1524 B.; along roads 200—300 M.: n. 1709 B.; St. Giles: n. 1867 B.; Hells-gate—Marypoint: n. 2047 B.; gut near Devilshand: n. 2077a B.; Ladder: n. 251; locality unknown: n. 87 L., 251 L.I also saw *Indigofera suffruticosa* on Crespeenhill.**St. Martin**: along roads near Filipsburg: n. 2528 B. -I also saw *Indigofera suffruticosa* near Grande Case.**St. Croix** ex Millspaugh.

Baham., Antill., Amer. cont. calidior; inq. in the trop. Old world. (Symb.).

3718. **Tephrosia** Pers.**Tephrosia cathartica** Urb. Symb. Antill. IV (1905) 283. Senna.**St. Eustatius**: Seashore near English Quarter: n. 1010 B.; English Quarter: n. 1497, 1508; road to English Quarter: n. 1493; locality unknown: n. 158 G., 240 H.**Saba**: Bottom: n. 2236 B.; locality unknown: n. 91 L.

Baham., Antill., Bay of Honduras, Cartagena. (Symb.).

Tephrosia cinerea Pers. Syn. II (1807) 328; Gris. Fl. 182; Duss 195. Senna.**St. Eustatius**: Fort de Wind: n. 801 B.; White Wall: n. 812 B., 814 B., 821 B.; near Boven: 200 M.: n. 1243 B.; slope of the Quill: n. 1580.**St. Martin**: Point Blanche (coll. George): n. 2478 B.**St. Croix** (Symb.).

Baham., Antill., Curaçao, Amer. cont. trop. (Symb.).

3745. **Cracca** Benth.

Cracca caribaea Benth. ex Oerst. in Kjob. Vidensk. Medd. (1853) 9; Gris. Fl. 183; Duss 195.

Benthamantha caribaea O. Ktze. Rev. III 2 (1898) 53; Millspaugh 494.

St. Eustatius: along roads in Oranjestad: n. 920 B.; near Maryglory 150 M.; n, 1151 B.

St. Martin: Marigot road near Marigot: n. 2813 B.; lower part of Mount Paradis: n. 3290 B.; hills on the eastern side of Cul de Sac: n. 3444 B.; road near Fort Amsterdam: n. 1133 B.; Colebay-hill: n. 1143; Prince quarter: n. 1098; road to Guanabay: n. 1123.

St. Croix ex Millspaugh.

Antill., Amer. centr., Venezuela, Ecuador. (Symb.).

3747. **Sesbania** Scop.

Sesbania grandiflora Pers. Syn. II (1807) 316. Tiger tongue. Cultivated. [India orient., Austral. sept.]. (Symb.).

Sesbania sericea P. D.C. Prodr. II (1825) 266; Gris Fl. 184; Duss 196.

St. Martin: Colebay (coll. George): n. 2520 B.; near Simonsbaylagoon: n. 3037 B.

I also saw *Sesbania sericea* near Marigot along a Saltpond.

Baham., Antill. (Symb.).

3802. **Stylosanthes** Sw.

Stylosanthes hamata Taubert Mon. Stylos. (Nov. 1889) 22; Millspaugh 495.

Stylosanthes procumbens Sw. Prodr. (1788) 108; Gris. Fl. 188; Duss 202. Wild clover.

St. Eustatius: Signalhill 200 M.: n. 130 B.; in a garden in Oranjestad: n. 755 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 758 B.; hills near Concordia 100 M.: n. 954 B.; lower part of Gilboohill: n. 1306; near Sugarloaf: n. 1310; English Quarter: n. 1386; locality unknown: n. 174 H., 179 H., 252 G., 300 G.

Saba: along Forthgut 150—200 M.: n. 1628 B.; along roads 200—300 M.: n. 1716 B.; seashore near Flatpoint: n. 2138 B.; Marypoint: n. 1328.

St. Martin: from Philipsburg to Guanabay: n. 2358 B.; Point Blanche (coll. George): n. 2490 B.; Cul de Sac—Marigot 0—200 M.:

n. 2623 B.; in an orchard near Bellevue: n. 2449a B.; between Mount Vernon and Orientbay: n. 2939 B.; Colebayhill: n. 1308; road to Guanabay: n. 1316.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. sept., Mexico, Amer. centr., Nova Grenata. (Symb.).

3803. **Arachis** Linn.

Arachis hypogaea Linn. Spec. (1753) 741; Gris. Fl. 189; Duss 203; Millspaugh 495. Pea nut.

Saba: Mountain 600 M.; n. 1778 B.

St. Croix ex Millspaugh.

Cult. in tropical countries. Patria ignota. (Symb.).

3804. **Zornia** Gmel.

Zornia diphylla Pers. Syn. II (1807) 318; Gris. Fl. 185; Duss 198.

St. Eustatius: along roads near Bengalen: n. 1186 B.

St. Croix (Symb.).

Antill., warmer countries of both hemisph. (Symb.).

3807. **Desmodium** Desv.

Desmodium axillare P. DC. Prodr. II (1825) 334; Gris. Fl. 186; Duss 200.

Meibomia axillaris O. Ktze. Rev. I (1891) 195; Millspaugh 495.

Saba: between Bottom and Marypoint 100—200 M.: n. 1501 B.; Mountain 800 M.: n. 1807 B.; Mountain near Windwardside 600 M.: n. 2184 B.; Mountain 600—800 M.: n. 2011; Gainbygut: n. 2018; locality unknown: n. 201 L.

St. Croix ex Millspaugh.

Antill., Costarica, Venezuela, Nova Granata, Chili, Guiana, Brasil. (Symb.).

Desmodium scorpiurus Desv. Journ. Bot. I (1813) 122; Gris. Fl. 187; Duss 201.

Meibomia scorpiurus O. Ktze. Rev. I (1891) 198; Millspaugh 495.

St. Eustatius: Fairplay: n. 1346; seashore: n. 1345; Cultuurvlakte: n. 1344.

St. Croix ex Millspaugh.

Antill., from Mexico to Peru. (Symb.).

Desmodium spirale P. DC. Prodr. II (1825) 332; Gris. Fl. 188; Duss 201;

Meibomia spiralis O. Ktze. Rev. I (1891) 197; Millspaugh 495.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1927 B.; Laddergut 0—200 M.: n. 1969 B.; locality unknown: n. 262 L.

St. Martin: hills on the eastern side of Cul de Sac: n. 3446 B., 3445a B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afr. trop., Ind. or. and Ins. pacif. (Symb.).

Desmodium supinum P. DC. Prodr. II (1825) 332.

Desmodium incanum DC. Prodr. II (1825) 332; Gris. Fl. 186; Duss 200. Wild peas.

Meibomia incana Ktze. Rev. I (1891) 197; Millspaugh 495.

St. Eustatius: Top of the Quill 380 M.: n. 273 B., 278 B.; slope of the Quill near Bengalen 50—200 M.: n. 642 B., n. 675 B.; slope of the lower part of the Quill near Bengalen: n. 725 B.; along roads in Oranjestad: n. 1093 B.; near Maryglory 150 M.: n. 1142 B.; slope of the Quill: n. 1786, 1807, 1817; Cultuurvlakte: n. 1778; locality unknown: n. 329 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1281 B.; between Bottom and Marypoint: 100—200 M.: n. 1517 B.; top of the Cliff near the seaside of Boobyhill: n. 1605 B.; Mountain near Windwardside 600 M.: n. 2166 B.; Ladder: n. 1776, 1796; Rendez-vous 400 M.: n. 1806, 1848; Gainbygut: n. 1816; locality unknown: 25 L.

St. Martin: Nakedboyhill 50—200 M.: n. 2702 B.; along roads in Cul de Sac: n. 2998 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3012 B.; Mount Paradis 150—400 M.: n. 3199 B., 3343 B.; Colebayhill: n. 1777; French frontier: n. 1787; road to Guanabay: n. 1797.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop., Afr. trop. (Symb.).

Desmodium tortuosum P. DC. Prodr. II (1825) 332; Gris. Fl. 188.

Saba: Ladder: n. 171, 181; Gainbygut 191.

Antill., Amer. cent. and austr. sept. (Symb.).

Desmodium triflorum P. DC. Prodr. II (1825) 334; Gris. Fl. 186; Duss 198. Sesternweed.

Meibomia triflora O. Ktze. Rev. I (1891) 197; Millspaugh 495.

St. Eustatius: locality unknown: n. 249 H.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2875 B.; Mount Paradis 150—400 M.: n. 3198 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afric. trop., Asia austr.-orient. (Symb.).

Desmodium uncinatum P. DC. Prodr. II (1825) 325. Gris. Fl. 187.

Saba: from Marypoint to Bottom 100—200 M.: n. 1504a B.

Cuba, Jamaica, Hispaniola. (Herb. Krug et Urban). Sonora to Bolivia, Venezuela to Uruguay. (Gris. Fl.).

3810. **Alysicarpus** Neck.

Alysicarpus nummularifolius P. DC. Prodr. II (1825) 353.

Alysicarpus vaginalis P. DC. Prodr. II (1825) 353; Gris. Fl. 185; Duss 199; Millspaugh 494. **Sister n peanut.**

St. Eustatius: locality unknown: n. 250 II.

Saba: between Bottom and Marypoint 100—200 M.: n. 1549 B., 1550 B.; seaside of Tentguthill 100 M.: n. 1653 B.

St. Martin: from Philipsburg to Guanabay: n. 2359 B.; lower part of Milldrums Hill: n. 3115.

St. Croix ex Millspaugh.

Antill.; Patria Ind. or. (Symb.).

3834. **Lonchocarpus** H. B. K.

Lonchocarpus violaceus H. B. K. Nov. Gen. et Sp. VI (1823) 383; Gris. Fl. 200; Duss 219.

St. Eustatius: Top of the Quill 400 M.: n. 176 B., 345 B.; Quill: n. 45; slope of the Quill: n. 888 B.

Amer. austr. (Ind. Kew.), Antill. (Herb. Krug et Urban).

3839. **Piscidia** Linn.

Piscidia piscipula Sarg. in Gard. and For. IV. (1891) 436.

Piscidia erythrina Linn. Syst. X ed. II (1759) 1115; Gris. Fl. 200; Duss 220.

Ichthiomethia piscipula Hitchc. in Gard. and For. IV. (1891) 472; Millspaugh 495. **Dog wood, Stink wood.**

St. Eustatius: from Tumbledown Dickbay to Signal Hill: n. 164 B.; White Wall: n. 823 B.; slope of the hills near Concordia Bay: n. 705; Seinpost: n. 715; Boven: n. 706, 725; locality unknown: n. 210a G., 314 H., 724.

St. Martin: Prince quarter (coll. George): n. 2477 B.; Fort Willem: n. 2544 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3424 B.

I also saw *Piscidia piscipula*: Marigot to Marigot-hill; Nakedboy-hill; hill on the northern side of Cul de Sac; near Saline; one of the islands in Simonsbay-lagoon.

St. Croix ex Millspaugh.

Florid. austr., Key ins., Baham., Antill., Mexico austr. and Amer. austro-sept. (Symb.).

3841. **Andira** Lam.

Andira jamaicensis Urb. in *Symbolae Antillanae* IV (1905) 298.

Andira inermis H. B. K. *Nov. Gen.* VI (1823) 385 in obs.; *Gris Fl.* 202; *Duss* 224.

St. Eustatius: Quill: n. 442 B., 906 B.; near Signal-hill: n. 1252a B.; locality unknown: n. 42.

Antill., Amer. cont. trop., Afr. occ. (Symb.).

3856. **Abrus** Linn.

Abrus precatorius Linn. *Syst.* XII ed. II (1767) 472; *Gris Fl.* 190; *Duss* 204; *Millspaugh* 496. Jumbypeans, Liquorice plant.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 55 B.; along roads in Oranjestad: n. 572 B.; slope of the Quill near Bengalen 250 M.: n. 702 B.; along roads: n. 26; slope of the Quill: n. 24; locality unknown: n. 23, 26 H., 235 G.

I also saw *Abrus precatorius*: in deserted plantations near Bengalen; Signal-hill 100 M.

Saba: Bottom 200 M.: n. 1450.; Laddergut 200 M.: n. 2006 B.; locality unknown: n. 312 L.

St. Martin: Prince quarter (coll. George): n. 2459 B.; Marigot-hill—Marigot 0—200 M.: n. 2640 B.; along roads from Bethlehem to Mont Chambord: n. 2910 B.; Colebay-hill: n. 25; locality unknown: n. 3619 B.

I also saw *Abrus precatorius* on Nakedboy-hill; top of Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. calid., Africa, Asia calidior. (Symb.).

3857. **Clitoria** Linn.

Clitoria ternatea Linn. *Spec.* (1753) 753.

Cultivated. [Afric. orient.]. (Symb.).

3858. **Centrosema** Benth.

Centrosema virginianum Benth. in Ann. Wien. Mus. II (1838) 120; Gris. Fl. 193; Duss 209.

Bradburya virginianum O. Ktze. Rev. I (1891) 164; Millspaugh 300.

St. Eustatius: Top of the Quill 380 M.: n. 265 B.; slope of the Quill near Bengalen 50--200 M.: n. 639 B., 661 B., 683 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 777 B.; gut near Fort de Wind 50 M.: n. 844 B.; slope of the Quill 200 M.: n. 878 B.; lower part of the hills near Concordia: n. 979 B.; along roads in Oranjestad: n. 1131 B.; along roads near Bengalen: n. 1193 B.; Cultuurvlakke: n. 151, 161; slope of the Quill: n. 211; locality unknown: n. 104 H., 236 G.

Saba: lower part of the Bottom Mountain 250 M.: n. 1414 B.; Bottom 200 M.: n. 1452 B., 152; locality unknown: n. 69 L.

I also saw *Centrosema virginianum* in Laddergut.

St. Martin: from Philipsburg to Guanabay; n. 2387 B.; Point Blanche (coll. George): n. 2494 B.; from Philipsburg to Belvedere: n. 2574 B.; Nakedboyhill: 2682 B.; lower part of Milldrumhill: n. 3172 B.; gut from Bethlehem to Cul de Sac 0--100 M.: n. 3412 B.; Cul de Sac: n. 213; Centryhill: n. 162.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. cont. from the South U. S. to Argentin., Afr. trop. occ. (Symb.).

3866. **Teramnus** Sw.

Teramnus labialis Spreng. Syst. III (1826) 235; Gris. Fl. 193; Duss 209; Millspaugh 496.

St. Martin: in pastureground near Bellevue: n. 2824 B.; from Philipsburg to Belvedere: n. 2563 B.; locality unknown: n. 3500a B.

St. Croix ex Millspaugh.

Antill., Africa trop. to the Cape, East Indies. (Gris. Fl.).

3870. **Erythrina** Linn.

Erythrina corallodendron Linn. Spec. (1753) 706; Gris. Fl. 199; Duss 217; Millspaugh 496.

Saba: lower part of the Bottom Mountain 250 M.: n. 1411 B.; St. John's 250 M.: n. 1729 B.

St. Martin: Marigothill—Marigot 0--200 M.: n. 2653 B.

St. Croix ex Millspaugh.

Bermud., Antill., Mexico, Amer. centr. and austro-sept. (Symb.).

3877. **Mucuna** Adans.**Mucuna pruriens** P. DC. Prodr. II (1825) 405.

Cultivated. [trop. countries of both hemisph.] (E. a. P.).

3882. **Galactia** Adans.**Galactia dubia** P. DC. Prodr. II (1825) p. 238.*Galactia filiformis* Griseb. Flor. W. I. (1860) 194 (p. p.). (Symb.); Duss 210 (p. p.).**St. Eustatius:** Top of the hills near Concordia 100 M.: n. 943 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 789 B.; Fort de Wind: n. 795a B.; White Wall: n. 818a B.; gut near Fort de Wind 50 M.: n. 827 B., 850 B.;**St. Martin:** near Mullet pond: n. 2779 B.; along roads in Cul de Sac: n. 2999 B.**Anguilla** Boldingh.

Portorico, St. Thomas, Guadeloupe, Antigua, Desirade, Marie-Galante. (Symb.).

Galactia longifolia Benth. in Ann. Wien. Mus. II (1838) 127.*Galactia angustifolia* Gris. Flor. W. I. (1860) 194; Duss 210; — non Kth. (Symb.).*Galactia tenuiflora* Wight et Arn. var. Benth. in Mart. Flor. Bras. XV. I (1859) 143. (Symb.); Millspaugh 495.**St. Eustatius:** Fairplay: n. 300; slope of the Quill: n. 301, 2755; Cultuurvlakte: n. 302; locality unknown: n. 303.**St. Croix** ex Millspaugh.

Antigua, Guadeloupe, Marie-Galante. (Symb.).

Galactia nummularia Urb. in Symb. Antillanae VI. (1909) 12.**St. Martin** near Guanabay: n. 2428 B.**Galactia rubra** Urb. in Symb. Antillanae. II. (1900) 309.*Galactia longiflora* Gris. Flor. W. I. (1860) p. 194 (p.p.); Duss 210, — non Arn. (Symb.).**St. Eustatius:** Slope of the Quill on the side of White Wall 200 M.: n. 1174 B.; Tree gut: n. 204 H., 282 G.**Saba:** between Bottom and Marypoint 350 M.: n. 1496 B.; slope of the Mountains near St. John's: n. 1737 B.; along roads 200—300 M.: n. 1715 B.; Hellsgate—Marypoint: n. 2042 B.; Ladder-gut: n. 2760.**St. Martin:** Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2994 B.; French frontier: n. 76, 78.

St. Kitts, Antigua, Guadeloupe, Dominica, Martinique. (Symb.).

3891. **Canavalia** P. DC.

Canavalia obtusifolia P. DC. Prodr. II (1825) 404; Gris. Flor. 197; Duss 215; Millspaugh 496. Sea peas.

St. Eustatius: Seashore near Oranjestad: n. 22 B., 33 B.; near Boven 200 M.: n. 1231 B.; Cultuurvlakte near Golden Rock: n. 381; locality unknown: n. 119 H.

I also saw *Canavalia obtusifolia* on the top of the Cliff near Gallowsbay.

Saba: I saw *Canavalia obtusifolia* near Flat Point.

St. Martin: Point Blanche (coll. George) n. 2489 B.; seashore near Mulletpond: 2767 B.

St. Croix ex Millspaugh.

Florida, Bermud., Baham., Antill., warmer countries of both hemisph. (Symb.).

Canavalia spec.

St. Eustatius: n. 244 G.

3892. **Cajanus** P. DC.

Cajanus indicus Spreng. Syst. III (1826) 248; Gris. Fl. 191; Duss 205.

Cajanus cajan Millsp. in Field. Col. Mus. Bot. II (1900) 53; Millspaugh 497.

St. Eustatius: locality unknown: n. 55 G., 210 H.

Saba: Hellsgate: n. 1696 B.; locality unknown: n. 16 L.

I also saw *Cajanus indicus*: Laddergut.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Warmer countries of both. hemisph. (Symb.). Also cultivated.

3897. **Rhynchosia** Lour.

Rhynchosia minima P. DC. Prodr. II (1825) 385; Gris. Fl. 190; Duss 205.

Dolicholus minimus Medic. Vorles. Churpf. Phys. Ges. II (1787) 354; Millspaugh 496.

St. Eustatius: Top of the Quill 450 M.: n. 354 B.; slope of the Quill: n. 1429, 1449; Cultuurvlakte: n. 1439.

Saba: between Bottom and Marypoint 100—200 M.: n. 1504 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Warmer countries of both hemisph. (Symb.).

Rhynchosia reticulata P. DC. Prodr. II (1825) 385; Gris. Fl. (1859) 190.

Dolicholus reticulatus Millsp. in Field Col. Mus. Bot. II (1900) 53; Millspaugh 496. Pea with e.

St. Eustatius: Top of the Quill 400 M.: n. 215 B., 276 B.; slope of the Quill near Bengalen 50 M.: n. 660 B.; hills near Concordia 100 M.: n. 944 B.; along roads near English Quarter: n. 1005 B.; Red Cliff—Tumbledown Dickbay: n. 1549; slope of the Quill: n. 1529, 1552, 1539.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1346 B.; Crispeen 400 M.: n. 1718 B.; Laddergut 200 M.: 1972 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2027 B.; Windwardside: n. 2311 B.; Ladder: n. 1522, 1561; Paris 2—400 M.: n. 1542; Mountain 400—800 M.: n. 1542.

St. Martin: Prince quarter (coll. George): n. 2470 B.; Cul de Sac—Marigot hill 0—200 M.: n. 2634 B.; Nakedboyhill 50—200 M.: n. 2693 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2870 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2947 B.; lower part of the Milldrumhill: n. 3173 B.; hills on the eastern side of Cul de sac: n. 3439 B.; French frontier: n. 1512.

St. Croix ex Millspaugh.

Antill., Amer. austr. (Symb.).

3901. **Phaseolus** Linn.

Phaseolus lathyroides Linn. Spec. (1763) 1018.

Phaseolus semierectus Linn. Mant. I (1767) 100; Gris. Fl. 197; Duss 214; Millspaugh 497.

St. Eustatius: in a garden in Oranjestad: n. 1101 B.; Fairplay: n. 590; Cultuurvlakte: n. 472, 580.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao, Amer. centr. et austr., India orient., Malaya. (Symb.).

Phaseolus lunatus Linn. Spec. (1753) 724. White beans. Cultivated. [All. trop. countries.] (Symb.).

Phaseolus vulgaris Linn. Spec. (1753) 723. Snijboontjes. Cultivated. [Everywhere.] (Ind. Kew.).

3905. **Vigna** Savi.

Vigna repens O. Ktze. Rev. I (1891) 212; Millspaugh 497.

Vigna luteola Benth. in Mart. Flor. Bras XV. I (1859) 194 t. 50 f. II; Gris. Fl. 195; Duss 211.

Vigna glabra Savi. Mem. Phas. III (1882) 8.

St. Eustatius: Slope of the lower part of the Quill near Bengalen: n. 716 B.; locality unknown: n. 1 G., 66 H.; slope of the Quill: n. 1548, 1549, 2005, 2015.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. calid. from U. S. to Argentin., Afr. trop., Asia trop., Australia. (Symb.).

3909. **Lablab** Adans.

Lablab vulgaris Savi Diss. (1821) 19 t. 19 f. 8.

Dolichos lablab Linn. Spec. (1753) 725; Gris. Fl. 196; Duss 212; Millspaugh 497.

St. Eustatius: Cultuurvlakte: n. 1891; slope of the Quill: n. 1937.

Saba: Windwardside: n. 1887 B.; Bottom: n. 2240 B.; Crispeen-Rendez-vous: n. 1927; locality unknown: n. 167 L., 304 L.

St. Croix ex Millspaugh.

Trop. countries of both. hemisph.; Ind. veris. in Afr. trop. (Symb.). Also cultivated.

130. **Oxalidaceae.**

3936. **Oxalis** Linn.

Oxalis corniculata Linn. Spec. (1753) 435; Gris. Fl. 133; Duss 134; Millspaugh 497.

St. Eustatius: Slope of the Quill near Glassbottle: n. 1206 B.; slope of the Quill: n. 131, 132.

Saba: lower part of the Bottom Mountain 250 M.: n. 1400 B.; between Bottom and Marypoint 100—200 M.: n. 1515 B.; Booby-hill 300 M.: n. 1620 B.; locality unknown: n. 50 L.; Crispeen—Rendez-vous: n. 130; St. John's: n. 134; Hellsgate: n. 133.

St. Martin: Mountain between Mont des Accords and Centry-hill 0—200 M.: n. 2868 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 3001 B.

I also saw *Oxalis corniculata* on the top of Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Warmer countries of both hemisph. (Symb.).

Oxalis Martiana Zucc. in Denkschr. Akad. Münch. IX (1823—24) 144.

Cultivated. [Madagascar]. (Ind. Kew.).

134. Erythroxyloaceae.3956. **Erythroxyllum** Linn.**Erythroxyllum brevipes** DC. Prodr. I (1824) 573; Millspaugh 497.**St. Martin:** Colebayhill: n. 2014; Prince quarter: n. 2018; John Ednyhill: n. 2015.**St. Croix** (Symb.).

Cuba, Hispaniola, St. Thomas, St. Barthélemy, Guadeloupe. (Symb.).

Erythroxyllum havanense Jacq. Enum. Pl. Carib. (1760) 21.*Erythroxyllum obtusum* DC. Prodr. I (1824) 574; Gris. Fl. 113. p. p. (Symb.). Bracelet.**St. Eustatius:** Top of the Quill 400 M.: n. 217 B., 329 B.; 500 M.: n. 495 B.; from Little Mountains to Venusbay: n. 958 B.**Saba:** between Bottom and Marypoint 300 M.: n. 1478 B.; Springbaygut: n. 2118 B.; Laddergut: n. 2017.**St. Martin:** Milldrumhill 300—400 M.: n. 3155 B.; Mount Paradis 200—300 M.: n. 3314 B.

Cuba, Isla de Pinos. (Symb.).

135. Zygophyllaceae.3968. **Guaiacum** Linn.**Guaiacum officinale** Linn. Spec. (1753) 381; Gris. Fl. 134; Duss 136; Millspaugh 498.**St. Martin:** Tintamarre: n. 3370 B., 3378 B.**St. Croix** ex Millspaugh.

Baham., Antill., Amer. austr. (Symb.).

3978. **Tribulus** Linn.**Tribulus cistoides** Linn. Spec. (1753) 387; Gris Fl. 134; Duss 136; Millspaugh 498.**St. Martin:** near Filipsburg: n. 2388 B.; Fort Willem: n. 2548 B.**St. Croix** ex Millspaugh.

Florida austr., Baham., Antill., trop. countries of both hemisph. (Symb.).

3979. **Kallstroemia** Scop.**Kallstroemia maxima** Wight et Arn. Prodr. I (1834) 145; Millspaugh 498.*Tribulus maximus* Linn. Spec. (1753) 386; Gris. Fl. 134; Duss 136.

St. Eustatius: in a garden in Oranjestad: n. 511 B.; Bengalen: n. 616 B.; Cultuurvlakte: n. 243, 248, 249; locality unknown: n. 30 G.

Saba: Windwardside: n. 1951 B.; Bottom: n. 247.

St. Martin: from Guanabay to Filipsburg: n. 2437 B.; along roads near Filipsburg: n. 2530 B.; Centryhill: n. 246; Marigot-road: n. 244, 245.

St. Croix ex Millspaugh.

Key Ins., Baham., Antill., Amer. from the Southern U. S. to Bolivia. (Symb.).

137. Rutaceae.

3991. *Fagara* Linn.

Fagara flava Kr. et Urb. in Engl. Jahrb. XXI (1896) 571.

Xanthoxylum flavum Vahl. Eclog. III (1807) 48; Duss 140; Millspaugh 499. Yellow saunder.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Key Ins., Baham., Antill. (Symb.).

Fagara martinicensis Lam. Ill. I (1791) 334 n. 1639 t. 811 f. 1.

Xanthoxylum clava Herculis Sw. Obs. (1791) 375 (non Linn.); Gris. Fl. 138; Millspaugh 499.

Xanthoxylum martinicense P. DC. Prodr. I (1824) 726; Duss 141. Yellow prickle.

St. Eustatius: Quill: n. 190 B., 416a B., 1.

Saba: Windwardside: n. 1942 B.; Mountain near Hellsgate: n. 2279 B.

St. Martin: along roads in Cul de Sac: n. 2989a B.

St. Croix ex Millspaugh.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Jan, Tortola, Montserrat, Guadeloupe, Desirade, Martinique, St. Lucia, Trinidad. (Symb.).

Fagara spinifex Jacq Fragm. (1809) p. 10 t. 6 f. 2.

Fagara microphylla Desv. Tabl. I ed. (1804) 200; Gris. Fl. 137 (excl. syn. Br. et L.). (Symb.); Duss 139; Millspaugh 499.

Xanthoxylum spinifex P. DC. Prodr. I (1824) 728.

St. Martin: between Mount Vernon and Orientbay: n. 2928 B.; from Belvedere to Oysterpond: n. 3062 B.; Mount Paradis 100—200 M.: n. 3296 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3425 B.; Prince quarter: n. 2, 3.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Venezuela. (Symb.).

Fagara trifoliata Sw. Prodr. (1788) 33.

Tobinia ternata Desv. in Ham. Prodr. (1825) 57; Gris. Fl. 136.

Tobinia punctata Gris. Flor. W. I. (1859) 137; Duss 138; Millspaugh 499.

Xanthoxylum ternatum Sw. Flor. I (1797) 570.

St. Eustatius: Top of the Quill 400 M.: n. 204 B.

St. Martin: from Philipsburg to Guanabay: n. 2386 B.; Point Blanche (coll. George): n. 2492 B.; Nakedboyhill 50—200 M.: n. 2708 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2953 B.; from Belvedere to Oysterpond: n. 3056 B., 3074 B., 3081 B., 3082 B.; Prince quarter: n. 4, 10, 11, 12, 13; Centryhill: n. 15.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Jamaica, Hispaniola, Portorico, St. Barthélemy, Antigua, Montserrat, Guadeloupe, Marie-Galante, Desirade, Les Saintes, Dominica, Martinique, St. Lucia, St. Vincent, Barbados, Trinidad. (Symb.).

4084. **Amyris** Linn.

Amyris elemifera Linn. Syst. X ed II (1759) 1000; Duss 183.

St. Martin: Tintamarre: n. 3391 B., 3395 B.

St. Croix (Symb.).

Baham., Florida austr., Key West, Antill. (Symb.).

4090. **Murraya** Linn.

Murraya exotica Linn. Mant. II (1771) 563; Duss 132; Millspaugh 499. Boxwood.

St. Eustatius: in a garden in Oranjestad: n. 937 B., 40 G.; Little Mountain—Boven: n. 14.

Saba: Windwardside: n. 1908 B.; locality unknown: n. 281 L.

St. Martin: Hills on the eastern side of Cul de Sac: n. 3446a B.

St. Croix ex Millspaugh.

Antill.; Ind. in Asia austro-orient., Austral. sept., Polynes. (Symb.).

4094. **Triphasia** Lour.

Triphasia trifoliata P. DC. Prodr. I (1824) 536; Duss 132; Millspaugh 499. Myrtle lemon.

Triphasia aurantiola Lour. Fl. Cochinchin. (1790) 153.

St. Eustatius: in a garden in Oranjestad: n. 538 B.; Bengalen: n. 613 B.; seashore: n. 24, 26; locality unknown: n. 226 G.

Saba: Bottom: n. 1856 B.; locality unknown: n. 97 L.

St. Martin: Cul de Sac—Marigot 0—200 M.: n. 2622 B.; hills on the eastern side of Cul de Sac: n. 3447 B.

St. Croix ex Millspaugh.

Antill.; Indig. in India orient. (Symb.). Also cultivated.

4100. **Citrus** Linn.

The author was not yet able to find out with a security so great, to make it possible to mention it in this Flora the names of the different species of Citrus that are cultivated in the gardens.

Only one plantation of Citrus Limonum Risso in Saba be mentioned.

138. **Simarubaceae.**

4106. **Suriana** Linn.

Suriana maritima Linn. Spec. (1753) 284; Gris. Fl. 58; Duss 48; Millspaugh 499.

St. Eustatius: Seashore near Concordiabay: n. 36; near Sea-feathersbay: n. 35;

I also saw *Suriana maritima* at the seashore near English Quarter.

St. Martin: Colebay (coll. George): n. 1643 B; from Belvedere to Oysterpond: n. 3043 B.

I also saw *Suriana maritima* near Mulletpond.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., trop. countries of both hemisph. (Symb.).

4121. **Picrasma** Blume.

Picrasma antillana Urb. in Symbolae Antillanae V (1908) 378.

Picraena excelsa Gris. in Flor. W. I. (1859) 140 (p. p.); Duss 143; (Symb.).

St. Eustatius: Quill: n. 448 B., 461a B.; locality unknown: n. 210a G.

Saba: from Bottom to Marypoint 100—200 M.: n. 1465a B.; near Hellsgate: n. 1697a B.; locality unknown: n. 2073a B., 341 L.; Cresp.—Rendez-vous 400 M.: n. 44.

St. Martin: Mount Paradis: n. 3219a B.

St. Croix (Symb.).

St. Thomas, St. Jan, St. Kitts, Antigua, Guadeloupe, Martinique, St. Vincent, Barbados. (Symb.).

4131. **Picramnia** Sw.

Picramnia pentandra Sw. Flor. I (1797) 220; Gris. Fl. 140; Duss 142. Wild coffee, Bastard bough.

St. Martin: Marigot—Marigot 0—200 M.: n. 2639 B.; Naked-boyhill 50—200 M.: n. 2690 B., 2697 B., 2714 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2878 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2956 B., 2962 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3010 B.; Milldrumhill 300—400 M.: n. 3184 B.; Mount Paradis 150—400 M.: n. 3197 B., 3299 B., 3345 B.; Centryhill: n. 92, 93; Prince quarter: n. 90; French frontier: n. 37, 38, 39; locality unknown: n. 3621 B., 91.

I also saw *Picramnia pentandra*: from Belvedere to Oysterpond. Florida austr., Key Ins., Baham., Antill. (Symb.).

139. Burseraceae.4150. **Bursera** Linn.

Bursera simaruba Sarg. Gard. and For. III (1890) 260.

Bursera gummifera Jacq. Sel. (1763.) 94 t. 65; Gris. Fl. 173; Duss 181; Millspaugh 500. Gum tree, Balsam tree, Lime tree.

St. Eustatius: near Tumbledowndickbay: n. 139a B., 146a B.; top of the Quill 400 M.: n. 202 B.; slope of the Quill on the side of White Wall 200 M.: n. 1182 B.; locality unknown: n. 106 H., 200 G.

I also saw *Bursera simaruba* in a gut near Fort de Wind.

Saba: Seashore near Saddle: n. 1652a B.; gut near Devils-hand: n. 2078a B.; locality unknown: n. 290 L.

I also saw *Bursera simaruba*: in Hellgate, Tentgut, Springbaygut.

St. Martin: Marigotroad: n. 2819a B.; French frontier: n. 71, 72.

I also saw *Bursera simaruba*: Top of Nakedboyhill; near Saline; along roads from Philipsburg to Simonsbay; Vallée des Pères; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida, Key Ins., Baham., Antill., Curaçao, from Mexico to Nova Granata and Venezuela. (Symb.).

140. **Meliaceae.**4164. **Swietenia** Jacq.

Swietenia mahagoni Jacq. Enum. (1760) 20; Gris. Fl. 131; Duss 130; Millspaugh 500. Mahagonny.

St. Eustatius: Bottom of the Quill 300 M.: n. 216 B.; in a garden in Oranjestad: n. 1072 B.; locality unknown: n. 82 H.

Saba: Laddergut 0—200 M.: n. 1978 B.; Greathill: n. 92; locality unknown: n. 12 L.

I also saw *Swietenia mahagoni*: near Marypoint.

St. Croix ex Millspaugh.

Key Ins., Baham., Antill., Mexico, Amer. centr., Peru. (Symb.).

Also cultivated.

4175. **Melia** Linn.

Melia azedarach Linn. Spec. (1753) 384; Millspaugh 500.

Melia sempervirens Sw. Prodr. (1788) 67; Gris. Fl. 128; Duss 126. Lilac.

St. Eustatius: in a garden in Oranjestad: n. 44 H., 139 G.

I also saw *Melia azedarach* in the slope of the Cliff.

Saba: Crispeen 400 M.: n. 1722 B.; Mountain near Windward-side 600 M.: n. 2163 B.; Peperpot: n. 93; Crispeen—Rendez-vous 400 M.: n. 92; locality unknown: n. 125 L.

St. Martin: near Bethlehem: n. 2661 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., warmer countries of both hemisph. (Symb.). Also cultivated.

141. **Malpighiaceae.**4226. **Heteropteryx** Juss.

Heteropteryx purpurea H. B. K. Nov. Gen. V (1821) 163; Duss 116; Millspaugh 498.

St. Eustatius: Hills near Concordia 100 M.: n. 950 B.; from Little Mountains to Venusbay: n. 990 α B.; slope of the Quill on the side of White Wall 200 M.: n. 1179 B.; Pongo—Signalhill: n. 1965; Red Cliff: n. 1969; Sugarloaf: n. 1966, 1967, 1968.

St. Croix ex Millspaugh.

Antill., Venezuela, Colombia. (Symb.).

4228. **Stigmatophyllon** Juss.

Stigmatophyllon ciliatum A. Juss. in A. St. Hil. Fl. Bras. Mer. III (1827) 49.

Cultivated. [Jamaica, Brasil.]. (Gris. Fl.).

Stigmatophyllon periplocifolium A. Juss. Malp. Syn. (1840) 290; Gris. Fl. 119; Duss 116; Millspaugh 498. Goat bush.

St. Eustatius: Seashore near Oranjestad: n. 31 B.; in a garden in Oranjestad: n. 96 B.; deserted plantation near Tumbledown-dick-bay: n. 142 B., 171 B.; top of the Quill 400 M.: n. 191 B., 212 B.; slope of the Quill near Bengalen 150 M.; n. 686 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 791 B.; along roads in Oranjestad: n. 922 B.; lower part of the hills near Concordia: n. 980 B.; Signalhill 150 M.: n. 1042 B., 1052 B.; along roads in Oranjestad: n. 1129 B.; Cultuurvlakte: n. 608, 609, 619, 630; locality unknown: n. 137 G., 144 H.

St. Martin: from Philipsburg to Guanabay: n. 2407 B.; from Philipsburg to Belvedere: n. 2557 B.; Cul de Sac—Marigothill 0—200 M.: n. 2629 B.; lower part of the Milldrumhill: n. 3171 B.; Tintamarre: 3398; Vineyardhill: n. 618; Cul de Sac: n. 639; Colebayhill: n. 94.

I also saw *Stigmatophyllon periplocifolium* on: Marigothill—Marigot; Nakedboyhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Jan, Antigua, Martinique, St. Lucia. (Symb.).

Stigmatophyllum sericeum Wright ex. Gris. Cat. Pl. Cub. (1866) 43.

Stigmatophyllum diversifolium A. Juss. in Arch. Mus. Par. III (1843) 381.

St. Martin: Lowlands: n. 3286 B.

Anguilla Boldingh.

Cuba (Herb. Krug et Urban).

4244. **Galphimia** Cav.

Galphimia gracilis Bartl. in Linnaea XIII (1839) 552.

Cultivated. [Mexico.]. (Symb.).

4251. **Malpighia** Linn.

Malpighia angustifolia Linn. Spec. (1762) 610; Gris. Fl. 117; Duss 113. Bastard cherry.

St. Martin: lower part of the hills between Mont Chambord and Mount Vernon: n. 2920 B.; along roads from Grande Case to Marigot: n. 3090 B.

I also saw *Malpighia angustifolia* near Saline.

St. Thomas, St. Jan, Antigua, Guadeloupe, St. Lucia. (Niedenzu 1899).

Malpighia puniceifolia Linn. Spec. (1762) 609; Gris. Fl. 116; Duss 113. Cherry.

St. Eustatius: Seashore near Oranjestad: n. 28 B.; slope of the lower part of Signalhill: n. 107 B.; Oranjestad: n. 97; Gilboohill: n. 38; along the road to Sugarloaf: n. 87; locality unknown: n. 63 H., 78 G.

I also saw *Malpighia puniceifolia*: top of Signalhill; top of the Cliff between Oranjestad and White Wall.

Saba: between Bottom and Marypoint 100—200 M.: n. 1546 B.; locality unknown: n. 1477 B., 334 L.

St. Martin: from Guanabay to Philipsburg: n. 2435 B.; Marigotroad near Marigot: n. 2809 B., 2810 B.; Prince quarter: n. 47, 57, 58.

Anguilla Boldingh.

St. Croix (Symb.).

St. Thomás, Antigua, St. Barthélemy, Guadeloupe, Martinique, Trinidad, Margarita, Bonaire, Curaçao. (Symb.).

4252. **Bunchosia** L. Cl. Rich.

Bunchosia jamaicensis Urb. et Ndz. Index Lect. in Lyc. Reg. Hos. Brunsb. de Genere Bunchosia (1898) 10.

Bunchosia Lindeniana Gris. Flor. W. I. (1860) 115.

Saba: Seaside of Tentguthill 100 M.: n. 1655 B.; Windward-side: n. 1943 B.

Antill., Mexico, Costarica, Guiana. (Gris. Fl.).

Bunchosia nitida L. Cl. Rich. ap. Juss. in Ann. Mus. Par. XVIII (1811) 481.

St. Martin: between Mont Chambord and the Saline: n. 2924 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2963 B.; near Simonsbayvillage: n. 3257 B.; Mount Paradis 300—400 M.: n. 3322 B.

Hispaniola, Montserrat, Guadeloupe, Martinique, St. Vincent, Bequia, Barbados, Grenada. (Symb.). Surinam. (Pulle).

4255. **Byrsonima** L. Cl. Rich.

Byrsonima crassifolia H. B. K. Nov. Gen. V (1821) 149; Gris. Fl. 114. (vel. *B. martinicensis* Kr. et Urb.?)

St. Martin: Lowlands: n. 2381a B.

Antill., Amer. austr. sept. (Symb.).

Byrsonima lucida L. Cl. Rich. ap. Juss. in Ann. Mus. Par. XVIII (1811) 481; Gris. Fl. 115; Duss 111.

St. Martin: Lowlands: n. 3621 B.

Anguilla Boldingh.

Key Ins., Baham., Antill. (Symb.).

Byrsonima spicata L. Cl. Rich. ap. Juss. in Ann. Mus. Par. vol. XVIII (1811) 481; Gris. Fl. 115; Duss 111; Millspaugh 497. Holly hock.

St. Eustatius: Top of the Quill 380 M.: n. 253 B.; inner slope of the Quill 350 M.: n. 1229 B.; Quill: n. 80 H.

Saba: Windwardside—Hellsgate: n. 1679 B.; Windwardside: n. 1944 B.

St. Croix ex Millspaugh.

Antill., Panama, Venezuela, Guiana, Brasilia. (Symb.).

147. **Euphorbiaceae.**4299. **Phyllanthus** Linn.

Phyllanthus distichus Müll. Arg. in DC. Prodr. XV. 2 (1866) 413; Millspaugh 500.

Cicca disticha Linn. Mant. I (1767) 124; Gris. Fl. 32; Duss 20.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 52 B.; in a garden in Oranjestad: n. 90 H., 148 G.

Saba: Bottom: n. 1876 B.; locality unknown: n. 116 L., 238 L.

St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2992 B.

St. Croix ex Millspaugh.

Antill.; Indig. in India orient? (Symb.). Also cultivated.

Phyllanthus epiphyllanthus Linn. Spec. (1763) 1392; Duss 25.

Phyllanthus falcatus Sw. Flor. II (1800) 1115; Gris. Fl. 35.

St. Martin: Colebay (coll. George): n. 2502 B.; shore of the Simonsbaylagoon near Cul Piquard: n. 2744 B.; near Mulletpond: n. 2785 B.

I also saw *Phyllanthus epiphyllanthus*: Lowlands.

Anguilla Boldingh.

Baham., Antill. (Symb.).

Phyllanthus niruri Linn. Spec. (1753) 981; Gris. Fl. 34; Duss 23; Millspaugh 501. Surinaam bitter.

St. Eustatius: in a garden in Oranjestad: n. 76 B.; along roads in Oranjestad: n. 579 B.; along roads near Glassbottle: n. 871 B.; locality unknown: n. 41 G., 34 H.

Saba: lower part of the Bottom Mountain 300 M.: n. 1429 B.;

St. Martin: from Philipsburg to Guanabay: n. 2408 B.; lower part of the Milldrums Hill: n. 3166 B.; in a plantation of Cotton near Bethlehem: n. 3410 B.

I also saw *Phyllanthus niruri* in pastureground near Bellevue.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., almost all warmer countries of both hemisph. (Symb.).

Phyllanthus nobilis Müll. Arg. in DC. Prodr. XV 2 (1866) 114; Millspaugh 501

Cicca antillana A. Juss. Tent. Euphorb. (1824) 108 t. 4 f. 13 B.; Gris. Fl. 33; Duss 21. Gooseberry.

Saba: Gainbygut: n. 2074; locality unknown: 43 L.

St. Martin: Nakedboyhill: n. 2735a B.; Mount Paradis: n. 3202a B.

St. Croix ex Millspaugh.

Antill., Guiana. (Symb.).

4348. **Croton** Linn.

Croton astroites Dryand. in Ait. Hort. Kew. I ed. vol. III (1789) 375; Gris. Fl. 42; Duss 33; Millspaugh 501. Wild marrow.

St. Eustatius: Slope of the Quill above White Wall: n. 2 B.; slope of the lower part of White Wall: n. 97 B.; Signalhill 200 M.: n. 128 B.; gut near Fort de Wind 50 M.: n. 826 B.; along a road in Oranjestad: n. 930 B.; hill near Concordia 100 M.: n. 949 B.; top of Signalhill 225 M.: n. 1030 B.; Signalhill 200 M.: n. 1047 B.; near Maryglory 150 M.: n. 1147 B.; along roads near Bengalen: n. 1194 B.; near Boven 200 M.: n. 1239a B.; Cultuurvlakte: n. 125; Pangohill: n. 122, 123; Gilboohill: n. 124; Sugarloaf: n. 128; locality unknown: n. 150a B., 269 B., 171 G., 3577 B.

St. Martin: from Philipsburg to Guanabay: n. 2362 B.; Fort Willem 50 M.: n. 2536 B.; locality unknown: n. 3611 B.; near Fort Amsterdam: n. 126, 127.

I also saw *Croton astroites*: Cul de Sac; Nakedboyhill.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Jan, St. Barthélemy, St. Kitts, Antigua, Guadeloupe, Desirade. (Symb.).

Croton betulinus Vahl Symb. II (1791) 98; Duss 32; Millspaugh 501. Black sage.

St. Martin: Marigotroad near Marigot: n. 2802 B.; in pasture-ground near Bellevue: n. 2826 B.; Mountain between Mont des Accords and Centryhill: n. 2865 B.; along roads near Colebay: n. 3025 B.; shore of the Simsonsbaylagoon near Cul Piquard: n. 2739 B., 2743 B., 2746 B.; Lowlands: n. 3265 B.; Tintamarre: n. 3384 B.

I also saw *Croton betulinus*: one of the islands in Simsonsbaylagoon.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida austr., Antill. (Symb.).

Croton flavens Linn. Syst. X ed. II (1759) 1276; Gris. Fl. 38; (excl. syn. Willd.). (Symb.); Millspaugh 501. Marrow, Yellow balsem.

Croton balsamifer Jacq. Enum. Pl. Carib. (1760); Duss 31.

St. Eustatius: on the slope of the Cliff near Gallowsbay: n. 61 B.; in deserted plantations at the seashore near Bengalen: n. 582 B., 584 B., 594 B., 597 B., 599 B.; slope of the Quill near Bengalen 200 M.: n. 737 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 775 B., 778 B., 785 B., 792 B.; Fort de Wind: n. 795 B.; seashore near Venusbay: n. 968 B.; Gilboohill 150 M.: n. 1124 B.; along roads near Bengalen: n. 1195 B.; slope of the hills near Concordiabay: n. 131; Cultuurvlakte: n. 130, 132; Tumbledowndickbay: n. 133; Venusbay: n. 134; Sugarloaf: n. 140; locality unknown: n. 54 H., 120 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1321 B.; along the Forthgut 150—200 M.: n. 1627 B.; along the lower part of the Forthgut: n. 1643a B.; St. Giles: n. 1865 B.; Laddergut 0—200 M.: n. 1971 B.; Ladderlanding: n. 135, 136; Greathill 200 M.: n. 141; Quarter 300 M.: n. 249; Marypoint: n. 250; locality unknown: n. 315 L.

St. Martin: from Philipsburg to Guanabay: n. 2351 B.; Guanabay: n. 2431 B.; Prince quarter (coll. George): n. 2469 B.; Fort Willem 0—50 M.: n. 2531 B., 2543 B.; near Bethlehem: n. 2662 B.; shore of the Simsonsbaylagoon near Cul Piquard: n. 2741 B.; road near Fort Willem: n. 2796 B.; between Mount Vernon and Orientbay: n. 2937 B.; near Simsonbayvillage: n. 3256 B.; Green Key: n. 3364 B., 3367 B.; Tintamarre: n. 3382 B.; Philipsburg: n. 137; Centryhill: n. 138; Vineyardhill: n. 139; locality unknown: n. 37.

I also saw *Croton flavens*: from Belvedere to Oysterpond; between Mount Vernon and Saline; Nakedboyhill.

Anguilla: Boldingh.

St. Croix ex Millspaugh.

Hispaniola, Portorico, St. Thomas, St. Jan. (Symb.). Baham. (Herb. Leiden).

Croton lobatus Linn. Spec. (1753) 1005; Gris. Fl. 42; Duss 33; Millspaugh 501. Lilac bush.

St. Eustatius: in a garden in Oranjestad: n. 74 B., 1276 B.; along roads in Oranjestad: n. 564 B.; Fairplay: n. 167; slope of the Quill: n. 164, 165, 166; locality unknown: n. 92 G., 177 H.

Saba: Bottom: n. 1839 B., 1843 B.

St. Martin: Colebayhill: n. 161.

I also saw *Croton lobatus* near Belvedere.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Bonaire, Curaçao, Aruba, Amer. cont. trop. (Symb.).

4358. **Ditaxis** Vahl.

Ditaxis fasciculata Vahl ap. A. Juss. Tent. Euph. (1824) p. 110 t. 7 f. 24; Gris. Fl. 44; Millspaugh 501.

St. Martin: Prince quarter: (coll. George) n. 2457 B.; near Nakedboyhill: n. 2566 B., 2733a B.; Point Blanche: n. 3405 B.; Vineyardhill: n. 769; locality unknown: n. 21.

St. Croix ex Millspaugh.

Cuba, Portorico, St. Thomas, St. Jan. (Symb.).

4360. **Argithamnia** Sw.

Argithamnia candicans Sw. Prodr. (1788) 39; Gris. Fl. 44; Millspaugh 502.

St. Martin: Fort Willem 0—50 M.: n. 2540 B.; Nakedboyhill 50—200 M.: n. 2700 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2959 B.; Mount Paradis 200—300 M.: n. 3317 B.; Tintamarre: n. 3401 B.; Colebayhill: n. 2075; Centryhill: n. 767.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., (Hitchc.). Antill.

4374. **Bernardia** Adans.

Bernardia corensis Müll—Arg. in *Linnaea* XXXIV. (1865, 66) 173; Duss 35.

Polyboea corensis Klotzsch. in *End. Gen. Suppl.* IV. III (1850) 88. *Gris. Fl.* 46.

St. Eustatius: Top of the Quill 400 M.: n. 195 B., 226 B., 398 B., 404 B.; slope of the Quill near Bengalen 100 M.: n. 665 B.; Signalhill 200 M.: n. 1050 B.

St. Martin: Mount Paradis 300—400 M.: n. 3224 B.; Mount Paradis 200—300 M.: n. 3303 B.

Haiti, St. Barthélemy, Martinique, Dominica, Guadeloupe, Grenada, St. Vincent, Curaçao. (Herb. Krug et Urban).

4397. **Adelia** Linn.

Adelia ricinella Linn. *Syst.* X. ed. II (1759) 1298; *Gris. Fl.* 45; *Millspaugh* 502.

St. Martin: Philipsburg near the Saltponds: n. 2357 B.; from Philipsburg to Fort Amsterdam: n. 2566 B.; Prince quarter (coll. George): n. 2457 B.; top of Nakedboyhill: n. 2711 B.; Point Blanche: n. 3405 B.; near Fort Amsterdam: n. 750; Colebayhill: n. 751; Prince quarter: n. 752.

St. Croix ex *Millspaugh*.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Jan. (Symb.).

4407. **Acalypha** Linn.

Acalypha chamaedrifolia Müll. Arg. in *DC. Prodr.* XV. 2. (1866) 879; Duss 35.

Acalypha reptans Sw. *Prodr.* (1788) 99; *Gris. Fl.* 48; *Millspaugh* 502. Bastard nettle.

St. Eustatius: along roads in Oranjestad: n. 552 B., 921 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1519a B., 1520 B., 1540 B.; Hellsgate: n. 1692 B.; Laddergut 0—200 M.: n. 1962 B.; Windwardside: n. 2334 B.

St. Martin: in an orchard near Bellevue: n. 2850 B.; from Grande Case to Marigot: n. 3092 B.; lower part of Milldrumhill: n. 3159 B.

St. Croix ex *Millspaugh*.

Florida austral., Antill. (Symb.).

Acalypha Poiretii Spreng *Syst.* III (1826) 879.

St. Martin: near Grande Case: n. 3092 B.

Anguilla Boldingh.

St. Thomas, Curaçao. (Herb. Krug et Urban).

Acalypha Wilkesiana Müll—Arg. in DC. Prodr. XV. 2. (1866) 817.
Cultivated. [Ins. Pacif.]. (Symb.).

4416. **Tragia** Linn.

Tragia volubilis Linn. Spec. (1753) 980; Gris. Fl. 48; Duss 36; Millspaugh 502.

St. Eustatius: Top of the Quill 400 M.: n. 225 B., 252 B., 282 B.; inner slope of the Quill near Bengalen 350 M.: n. 703 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1467 B.; Mountain 600—800 M.: n. 1791 B.; Laddergut 0—200 M.: n. 2011 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2710 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2894a B.; Mount Paradis 200—300 M.: n. 3308 B.

St. Croix ex Millspaugh.

Antill., Curaçao, Amer. cont. trop., Afr. occ. (Symb.).

4422. **Dalechampia** Linn.

Dalechampia scandens Linn. Spec. (1753) 1054; Gris. Fl. 51; Duss 40; Millspaugh 502.

St. Eustatius: near Maryglory 150 M.: n. 1143 B.

St. Martin: Nakedboyhill 280 M.: n. 2735 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., (Afr. trop. and Ind. or.) (Symb.).

4424. **Ricinus** Linn.

Ricinus communis Linn. Spec. (1753) 1007; Gris. Fl. 37; Duss 30; Millspaugh 502. Castor oil plant.

St. Eustatius: locality unknown: n. 23 H., 26 G., 27 G., 258 G., 288 H., 289 H.

I also saw *Ricinus communis*: Seashore near Oranjestad.

Saba: Boobyhill 300 M.: n. 1586 B.; locality unknown: n. 64 L.;

I also saw *Ricinus communis*: Laddergut.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Indig. veris. in Africa. (Symb.). Also cultivated.

4428. **Aleurites** Forst.

Aleurites moluccana Willd. Spec. Pl. IV. 1 (1805) 590. Wild date.

Cultivated. [Asia austr. orient. and Ins. pacific.] (Symb.).

4433. **Jatropha** Linn.

Jatropha curcas Linn. Spec. (1753) 1006; Gris. Fl. 36; Duss 27; Millspaugh 502. Grave physic nut.

St. Eustatius: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 771 B.; along roads near Glassbottle: n. 1209 B.; seashore: n. 242, 2073; Cultuurvlakte: n. 244; locality unknown: n. 52 G., 168 H.

Saba: Bottom: n. 243.

I also saw *Jatropha curcas* in Forthbaygut; Hellsgategut.

St. Martin: from Filipsburg to Belvedere: n. 2595 B., 2601 B.; along roads from Grande Case to Marigot: n. 3106 B.; Cul de Sac: n. 245.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. cont. trop. (Symb.).

Jatropha gossypifolia Linn. Spec. (1753) 1006; Gris. Fl. 36; Duss 25; Millspaugh 502. Physic nut.

St. Eustatius: Seashore near Oranjestad: n. 19 B.; along roads in Oranjestad: n. 570 B., 558 B., 1126 B.; in deserted plantations near Bengalen: n. 589 B.; seashore: n. 247, 249; Cultuurvlakte: n. 246; locality unknown: n. 132 G., 133 G., 196 H., 197 H.

I also saw *Jatropha gossypifolia*: on Signalhill 200 M.; top of the Cliff between Oranjestad and White Wall.

Saba: along roads between Bottom and Windwardside 200 M.; n. 1360 B.; along the Forthgut 0—150 M.: n. 1639 B.; locality unknown: n. 241 L., 313 L.

I also saw *Jatropha gossypifolia* in: Laddergut.

St. Martin: lower part of Milldrumhill: n. 3113 B.

I also saw *Jatropha gossypifolia*: along roads from Filipsburg to Naked-boychill; in pastureground near Bellevue.

St. Croix ex Millspaugh.

Key Ins., Baham., Antill., Curaçao, Aruba, Amer. cont. trop. Africa occ. (Symb.).

Jatropha multifida Linn. Spec. (1753) 1000. Coral plant.

Cultivated. [Amer. cont. trop.] (Symb.).

4444. **Manihot** Adans.

Manihot utilissima Pohl Plant. Bras. I (1827) p. 32 t. 24. Cassave.

Cultivated. [Amer. cont. trop.]. (Symb.).

4454. **Codiaeum** A. Juss.

Codiaeum variegatum Bl. Bijdr. XII (1825) 606. Croton.
Cultivated. [Ins. Sundaic.]. (Symb.).

4483. **Sapium** Jacq.

Sapium spec. (without flowers or fruits).

Saba: Top of the Mountain 600 M.: n. 2189 B.

4486. **Hippomane** Linn.

Hippomane mancinella Linn. Spec. (1753) 1191; Gris. Fl. 50; Duss 37; Millspaugh 503. Mangenieltree.

St. Eustatius: Seashore near Oranjestad: n. 16 B.; Concordiabay: n. 184; seashore: n. 182; locality unknown: n. 1014 B., 324 H.

I also saw *Hippomane mancinella*: seashore near Tumbledown dickbay.

Saba: Seashore near Flat Point: n. 2133 B.

St. Martin: from Philipsburg to Guanabay: n. 2345 B.; near Fort Willem: n. 2799 B.

I also saw *Hippomane mancinella*: along roads from Philipsburg to Nakedboyhill; Cul de Sac; Fort Willem; near Mont Chambord; near Saline; near Grande Case; Vallée des Pères; one of the islands in the Simsonbay-lagoon; Lowlands; Green Key; Tintamarre.

St. Croix ex Millspaugh.

Florida austr., Baham., Antill., Curaçao, from Mexico to Venezuela. (Symb.).

4488. **Actinostemon** Mart. ex Klotzsch.

Actinostemon caribaeus Gris. in Goett. Abh. VII (1857) 168.

Excoecaria caribaea Gris. Flor. W. I. (1859) 51; Duss 40.

St. Eustatius: Great gut: n. 748, 749.

St. Martin: Milldrumhill: n. 3143a B., 3148 B.; John Ednyhill: n. 345, 346, 347, 348, 2051.

Antill. (Herb. Krug et Urban); Amer. cont. (Herb. Leiden).

4492. **Gymnanthes** Sw.

Gymnanthes lucida Sw. Prodr. (1788) 96; Millspaugh 503.

Excoecaria lucida Sw. Flor. II (1800) 122; Gris. Fl. 50; Duss 39.

St. Eustatius: Top of the Quill 450 M.: n. 348 B., 372 B.; Signalhill: n. 1036 B.; near Maryglory 150 M.: n. 1152 B., 1161 B.; locality unknown: n. 333 H.

St. Croix ex Millspaugh.

Florida austr., Baham., Antill. (Symb.).

4493. **Hura** Linn.

Hura crepitans Linn. Spec. (1753) 1008; Gris. Fl. 50; Duss 38; Millspaugh 503. Sandbox tree.

St. Eustatius: along roads in Oranjestad: n. 546 B., 142 H., 147 G.

St. Martin: from Filipsburg to Belvedere: n. 2596 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop. (Symb.).

4098. **Euphorbia** Linn.

Euphorbia articulata Burm. ex Aubl. Pl. Gui. I (1775) 480; Gris. Fl. 53; Millspaugh 503.

Euphorbia linearis Retz. Obs. III (1791) 32; Duss 41.

St. Eustatius: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 767 B.; gut near Fort de Wind 50 M.: n. 847 B.; lower part of the hills near Concordia: n. 976 B., 2071; Tumbledowndickbay: n. 2070; White Wall: n. 2068, 2069.

Saba: Green Island: n. 2131 B.

St. Croix ex Millspaugh.

Portorico, St. Thomas, Culebra Island, St. Kitts, Guadeloupe, Martinique, St. Vincent. (Herb. Krug. et Urban).

Euphorbia buxifolia Lam. Encyc. II (1786) 421; Gris. Fl. 53; Duss 42; Millspaugh 503.

St. Eustatius: White Wall: n. 811 B.; seashore near White Wall: n. 854 B.; seashore: n. 2065; Seafeatersbay: n. 2076, 2077; White Wall: n. 2064.

St. Martin: Colebay. (coll. George): n. 2517 B.; Green Key: n. 3361 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico and throughout the West Indies (Hemsley 1884).

Euphorbia heterophylla Linn. Spec. (1753) 453; Gris. Fl. 54; Duss 44.

Euphorbia cyathophora Murr. Comm. Gotting. VII (1786) 81; Millspaugh 503. Joseph's coat.

St. Eustatius: Glassgut at the seashore near Oranjestad: n. 49 B.; in a garden in Oranjestad: n. 576 B., 2096, 32 H., 36 G.; Oranjestad: n. 2098; Cultuurvlakte: n. 2097; locality unknown: n. 2078.

St. Martin: near Bethlehem: n. 2668 B.; along roads from Grande Case to Marigot: n. 3095 B.

St. Croix ex Millspaugh.

Bermudas, Eastern North-America, from Illinois southward and through the West Indies and Mexico to Peru and Brazil. (Hemsley 1884).

Euphorbia hypericifolia Linn. Spec. (1753) 454; Gris. Fl. 54; Duss 43; Millspaugh 503.

St. Eustatius: Bengalen: n. 602 B.; along roads near Glassbottle: n. 869 B.; slope of the Quill: n. 2079, 2080, 2095.

Saba: lower part of the Bottom Mountain 250 M.: n. 1399 B.; Laddergut 200 M.: n. 2008 B.; Peperpot: n. 2081; Crespeen—Rendez-vous 400 M.: n. 2083 B.; Bottom: n. 2082; locality unknown: n. 128 L., 161 L.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2654 B.

St. Croix ex Millspaugh.

Bermudas, Eastern States of North-America, West Indies, Mexico and South-America. (Hemsley 1884).

Euphorbia petiolaris Curt. Bot. Mag. (1795) 883; Millspaugh 503.

Euphorbia verticillata Poir. Encyc. Supp. II (1811) 611; Duss 45. Black mangeniël.

St. Martin: near Filipsburg: n. 3341 B.; from Filipsburg to Belvedere: n. 2567 B., 2573 B.; Marigothill—Marigot 0—200 M.: n. 2652 B.; near Simonsbaylagoon: n. 3033 B.; along roads from Colebay to Simonsbay: n. 3253 B.; Filipsburg: n. 2031; Vineyardhill: n. 2032; Cul de Sac: n. 2033, 2034.

I also saw *Euphorbia petiolaris*: along roads near Bethlehem; along roads from Filipsburg to Nakedboyhill; Nakedboyhill; hill between Mont des Accords and Centryhill; near Saline; along roads from Belvedere to Oysterpond; near Grande Case; lower part of Milldrumhill; Lowlands; lower part of Mount Paradis; top of Mount Paradis.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Jan, Guadeloupe. (Herb. Krug. et Urban).

Euphorbia pilulifera Linn. Spec. (1753) 454; Gris. Fl. 54; Duss 42; Millspaugh 503. Chicken weed.

St. Eustatius: in a garden in Oranjestad: n. 75 B.; along roads in Oranjestad: n. 512 B., 577 B.; along roads near Glassbottle: n. 875 B.; locality unknown: n. 8 G., 8 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1459 B.; along the lower part of Forthgut: n. 1640 B.; Laddergut 0—200 M.: n. 1963 B.; Crespeen—Rendez-vous: n. 2037; locality unknown: n. 239 L.

St. Martin: in an orchard near Bellevue: n. 2840 B.; Centry-hill: n. 349.

Anguilla Boldingh.

St. Croix ex Millspaugh.

All tropical countries. (Gris. Fl.).

Euphorbia prostrata Ait. Hort. Kew. ed. I. II. (1789) 139; Gris. Fl. 53; Duss 42; Millspaugh 504.

St. Martin: Guanabay: n. 2433 B.; near Mulletpond: n. 2776 B., 2780 B.

St. Croix ex Millspaugh.

Bermudas, Louisiana and Texas southward to Peru and Brazil; also in tropical Africa and naturalised in Sicily and elsewhere. (Hemsley 1884).

Euphorbia pulcherrima Willd. ex Klotzsch, in Otto et Dietr. Allg. Gartenz. II (1834) 27. Star of Bethlehem.

Cultivated. [Mexico.] (Ind. Kew.).

Euphorbia thymifolia Linn. Spec. (1753) 454; Duss 42; Millspaugh 504; Children chickenweed.

St. Eustatius: locality unknown: n. 229 H., 255 G.

St. Martin: Lowlands near Cherrycap: n. 3259 B.

All tropical countries. (Gris. Fl.).

4501. **Pedilanthus** Neck.

Pedilanthus tithymaloides Poit. in Ann. Mus. Par. XIX (1812) 390. t. 19; Gris. Fl. 52; Duss 41; Millspaugh 504. Parakiet.

St. Eustatius: along the lower part of Signalhill: n. 123 B.; gut near Fort de Wind 50 M.: n. 842 B.; along roads near Signalhill: n. 1128 B.

Saba: Bottom: n. 2250 B.

St. Martin: from Filipsburg to Guanabay: n. 2377 B.; Prince quarter (coll. George): n. 2465 B.; from Belvedere to Oysterpond: n. 3054 B.; near Fort Amsterdam: n. 2072.

I also saw *Pedilanthus tithymaloides*: along roads near Bethlehem; Marigothill to Marigot; Nakedboyhill; near Bellevue; hill between Mont des Accords and Centryhill; near Saline; hill on the northern side of Cul de Sac; Mount Paradis 300—400; Lowlands; lower part of Mount Paradis; Tintamarre; hills on the eastern side of Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Portorico, Guadeloupe, Martinique, St. Vincent, Barbados, Grenada, Tobago. (Herb. Krug et Urban.).

153. Anacardiaceae.

4545. *Mangifera* Linn.

Mangifera indica Linn. Spec. (1753) 200; Gris. Fl. 176; Duss 187; Millspaugh 504. *M a n g o t r e e*.

St. Eustatius: in a garden in Oranjestad: n. 57 H., 130 G., 3590 B.

Saba: locality unknown: n. 156 L., 196 L., 302 L.

I also saw *Mangifera indica*: Laddergut; Bottom; Marypoint.

St. Martin: I saw *Mangifera indica*: Marigothill—Marigot; from Cul de Sac—Marigot; Vallée des Pères; lower part of Milldrumhill; Mount Paradis 300—400 M.; Lowlands.

St. Croix ex Millspaugh.

India orient, Malaya, Mexico, Amer. centr. et merid—sept. Antill. (Engler 1883). Also cultivated.

4546. *Anacardium* Rotböll.

Anacardium occidentale Linn. Spec. (1753.) 383; Gris. Fl. 176; Duss 189; Millspaugh 505. *C a s h e w*, *C h e r r y*.

St. Eustatius: Slope of the lower part of the Quill near Bengalen: n. 718 B.; locality unknown: n. 45 H., 207 G.

I also saw *Anacardium occidentale*: on the slope of the Quill on the side of White Wall; top of the Quill; top of Signalhill.

Saba: locality unknown: n. 227 H.

I also saw *Anacardium occidentale*: Laddergut; near Marypoint.

St. Martin: from Filipsburg to Belvedere: n. 2597 B.; Lowlands: n. 3267 B.

I also saw *Anacardium occidentale*: along roads from Filipsburg to Nakedboyhill; Nakedboyhill; lower part of Milldrumhill.

St. Croix ex Millspaugh.

In all warmer countries of America. (Engler 1885). Also cultivated.

4552. **Spondias** Linn.

Spondias lutea Linn. Spec. (1753) 613. Yellow plum.

St. Eustatius: Signalhill: n. 125*a* B.; in a garden in Oranjestad: n. 1016 B.

Saba: Bottom: n. 1873*a* B., 1877 B., 2234 B.

Antill., Mexico, Amer. cont. austr., Malay. (Engler 1883). Also cultivated.

Spondias purpurea Linn. Spec. (1753) 613. Red plum, Jamaica plum.

Cultivated. [Antill., Mexico, Peru, Nova Granata.] (Engler 1883).

4590. **Comocladia** Linn.

Comocladia ilicifolia Sw. Prod. Veg. Ind. Occ. (1788) 17; Gris. Fl. 176; Duss 184; Millspaugh 504. Red man, Centepeep plant.

St. Eustatius: White Wall: n. 822 B.; Signalhill 150 M.: n. 1041 B., 99; Gilboohil: n. 100; locality unknown: n. 111 H., 332 H.

Saba: Bottom: n. 1852*a* B.; Springbaygut: n. 2096 B.

St. Martin: from Filipsburg to Guanabay: n. 2369 B.; Centryhill: n. 101, 102; near Point Blanche: n. 104; near Guanabay: n. 103.

I also saw *Comocladia ilicifolia*: along roads near Bethlehem; along roads from Filipsburg to Nakedboyhill; Nakedboyhill 100—200 M.; hill between Mont des Accords and Centryhill; near Saline; from Belvedere to Oysterpond; lower part of Mount Paradis.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Domingo, Guadeloupe, Antigua, St. Lucia. (Engler 1885).

158. **Celastraceae.**4626. **Maytenus** Molina.

Maytenus elliptica Kr. et Urb. in Duss Fl. Ant. franç. (1897) 145 (excl. syn. Griseb.).

St. Eustatius: Top of the Quill 400 M.: n. 233 B., 344*a* B., 369 B.; Quill: n. 412*a* B.; slope of the Quill near Bengalen: n. 744*a* B.; near Signalhill: n. 952*a* B.

St. Martin: Top of Nakedboyhill: n. 2713 B.; Milldrumhill: n. 3152 B., 3182a B.

St. Croix. (Symb.).

St. Domingo, Portorico, St. Thomas, St. Jan, Montserrat, Guadeloupe, Marie Galante, Martinique, St. Vincent, Becquia. (Symb.).

4648. **Gyminda** Sarg.

Gyminda latifolia Urb. in Symbolae Antillanae V (1904) 80.

Myginda latifolia Sw. Prodr. (1788) 39; Gris. Fl. 146; Duss 148.

Myginda pallens Sarg. Forest Trees N. Amer. IX 38; Duss 147 (non Sm.); (Symb.).

Rhacoma latifolia Loesener in Engl.-Prantl. Nat. Pflanzenfam. III. 5 (1892) 217.

St. Eustatius: Top of the Quill 400 M.: n. 375a B., 393 B.

St. Martin: Colebay (coll. George): n. 2512 B.; near Simonsbay: n. 3035a B.

Key ins., Antill., Mexico. (Symb.).

Rhacoma Linn.

cf. 4649. *Myginda* Jacq. syn.

Rhacoma crossopetalum Linn. Syst. X. ed. II (1759) 896.

Myginda rhacoma Sw. Prodr. I (1788) 39; Gris. Fl. 146; Duss 147.

Myginda pallens Smith in Rees Cycl. XXV (1813) n. 4; Gris. Fl. 146; Millspaugh 505.

St. Eustatius: Signalhill 900 M.: n. 129 B.; deserted plantations near Tumbledowndickbay: n. 144 B.; White Wall: n. 816 B.; gut near Fort de Wind 50 M.: n. 841 B.; seashore near White Wall: n. 860 B.; Signalhill 50 M.: n. 1028 B.; Berg Amsterdam: n. 115; top Pongo: n. 113, 114; Pongo—Signalhill: n. 112; White Wall: n. 111; Crookwell: n. 110; Little Mountain—Boven: n. 116; Sugarloaf: n. 117.

Saba: lower part of the Bottom Mountain 250 M.: n. 1391 B.; gut between Masticgut and Hellsgate 300—400 M.: n. 2029 B.; Paris: n. 211.

St. Martin; near Mulletpond: n. 2751 B., 2753 B.; near Bethlehem: n. 2600a B.; Tintamarre: n. 3397 B., 3400 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florid. austral., Key, Baham., Antill. (Symb.).

4653. **Schaefferia** Jacq.

Schaefferia frutescens Jacq. Enum. (1760) 33; Gris. Fl. 146; Duss 148; Millspaugh 505. Box wood.

St. Eustatius: deserted plantations near Tumbledown Dickbay: n. 147 B.; from Little Mountain to Venusbay: n. 962 B.; Boven: n. 215.

Saba: along the Forthgut 150—200 M.: n. 1636 B.

St. Martin: from Philipsburg to Cul de Sac: n. 2610 B.; Marigothill—Marigot 0—200 M.: n. 2647 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2859 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2964 B.; Colebayhill: n. 210; Centryhill: n. 1, 2, 3; French frontier: n. 5; locality unknown: n. 4, 7.

St. Croix ex Millspaugh.

Florid. austral., Key, Baham., Mexico, Nova Granata, Antill. (Symb.).

165. **Sapindaceae.**4726. **Cardiospermum** Linn.

Cardiospermum halicacabum Linn. Spec. (1753) 366; Gris. Fl. 122; Duss 118; Millspaugh 505. Sprainbush wine.

St. Eustatius: Bengalen: n. 618 B.; along roads in Oranjestad: n. 1106 B.; near the seashore: n. 146; slope of the Quill: n. 148; Cultuurvlakte: n. 147; locality unknown: n. 154 G., 294 H.

Saba: St. Giles: n. 1868 B.; Windwardside: n. 2307 B.

St. Martin: from Philipsburg to Guanabay: n. 2421 B.; Point Blanche (coll. George): n. 2496 B.; Cul de Sac—Marigothill 0—200 M.: n. 2632 B.; along roads from Marigot to Philipsburg: n. 3112 B.; Mount Paradis 200—300 M.: n. 3316 B.; Marigotroad: n. 150, 151, 152.

St. Croix ex Millspaugh.

Trop. and warmer countries of both hemisph. (E. a. P.).

4734. **Allophylus** Linn.

Allophylus occidentalis Radlk. in Sitzungsber. phys. math. Cl. Bayer. Acad. Wiss. XX (1890) 230.

Schmidelia occidentalis Sw. Fl. Ind. Occ. II (1800) 665; Gris. Fl. 126; Duss 122; Millspaugh 506.

St. Eustatius: Top of the Quill 400 M.: n. 213 B.; inner slope of the Quill 350 M.: n. 455 B., 1215 B., 329 H.; locality unknown: n. 50, 51, 52.

Saba: Boobyhill 300 M.: n. 1591 B.; gut between Hellsgate and Masticgut 300 M.: n. 2057 B.

St. Croix ex Millspaugh.

Antill., Cuba to Minaes Geraes. (Gris. Fl.).

4760. **Melicocca** Linn.

Melicocca bijuga Linn. Spec. (1762) 495; Gris. Fl. 127; Duss 123; Millspaugh 505. Kinnuptree.

St. Eustatius: Signalhill 200 M.: n. 136 B., 165 B.; Bengalen: n. 633 B.; lower part of the hills near Concordia: n. 978 B.; along the slope of the lower part of Signalhill: n. 143; Oranjestad: n. 144, 86 H., 204 H.

Saba: Bottom: n. 1872 B.; locality unknown: n. 1a L.

I also saw *Melicocca bijuga* in Laddergut.

St. Martin: I saw *Melicocca bijuga*: along roads from Philipsburg to Nakedboyhill; near Bellevue.

St. Croix ex Millspaugh.

Trinidad, Jamaica, Guiana, Nova Granata. (Gris. Fl.).

Also cultivated.

4831. **Dodonaea** Linn.

Dodonaea viscosa Linn. Mant. (1767) 228; Gris. Fl. 127; Duss 123; Millspaugh 506.

St. Eustatius: Slope of the Quill above White Wall 350 M.: n. 1 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 766 B.; White Wall: n. 804 B.; gut near Fort de Wind: n. 828 B., 835a B.; slope of the Quill on the side of White Wall 200 M.: n. 1199 B.; near Sugarloaf: n. 154, 155, 162; near White Wall: n. 156, 157, 163; locality unknown: n. 3635 B.

St. Martin: at the seashore near Simonsbayvillage: n. 3031 B.; Colebay (coll. George): n. 2504 B.; Simonsbay: n. 159, 161.

St. Croix ex Millspaugh.

In almost all warm countries. (Hemsley 1884).

4833. **Hypelate** Swartz.

Hypelate trifoliata Sw. Prod. Veg. Ind. Occ. (1788) 61; Gris. Fl. 127.

St. Martin: near Simonsbaylagoon: n. 2738a B.

Anguilla Boldingh.

Baham., Antill. (Herb. Krug et Urban).

168. Balsaminaceae.4856. **Impatiens** Linn.**Impatiens Balsamina** Linn. Spec. (1753) 938.

Cultivated. [India orient?]. (Ind. Kew.).

169. Rhamnaceae.4861. **Zizyphus** Adans.**Zizyphus Jujuba** Lam. Encycl. III (1789) 318; Duss 94.**St. Martin:** from Philipsburg to Guanabay: n. 2393a B.; near Philipsburg: n. 2337a B.

India. orient., Malay. (Ind. Kew.).

4875a. **Krugiodendron** Urb.**Krugiodendron ferreum** Urb. Symb. Ant. III (1902) 314; Millspaugh 506.*Condalia ferrea* Gris. Flor. W. I. (1859) 100; Duss 92. Ironberry.**St. Eustatius:** from Little Mountain to Venusbay: n. 963 B.; Boven: n. 192; locality unknown: n. 337 G.**St. Martin:** near Mulletpond: n. 2773 B.; Mount Paradis: n. 3313 B.; French frontier: n. 191.**St. Croix** ex Millspaugh.

Florida, Key Ins., Baham., Antill. (Symb.).

4882. **Colubrina** L. Cl. Rich.**Colubrina ferruginosa** Brong. in Ann. Sc. Nat. Sér. I X (1827) 386. t. 15. f. 3; Gris. Fl. 100; Millspaugh 506.**Saba:** St. Giles: n. 1866a B.

Florida, Antill. (E. a. P.).

4902. **Gouania** Jacq.**Gouania domingensis** Linn. Spec. (1763) 1663; Gris. Fl. 101; Duss 93; Millspaugh 506. White root.**St. Eustatius:** from Tumbledown Dickbay to Signalhill; n. 168 B.; near Maryglory 150 M.: n. 1136 B.**Saba:** lower part of the Bottom Mountain 300 M.: n. 1444 B.; Hellsgate: n. 189.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2636 B.; Marigotroad near Marigot: n. 2811 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2954 B.; lower part of Colebayhill: n. 153, 190.

St. Croix ex Millspaugh.
Amer. trop. (E. a. P.).

170. Vitaceae.

4918. **Cissus** Linn.

Cissus obovata Vahl Symb. Bot. III (1764) 19; Gris. Fl. 102.

St. Martin: Top of Mount Paradis: n. 3236 B., 3350 B.

St. Croix. (Planchon 1883).
Portorico. (Planchon 1883).

Cissus sicyoides Linn. Syst. ed. X. (1759). 897; Gris. Fl. 102; Duss 95; Millspaugh 506. Pudding withe.

Vitis sicyoides Miq. in Ann. Mus. Bot. Lugd. Bat. I. (1863) 83.

St. Eustatius: Seashore near Oranjestad: n. 44 B.; slope of the hills near Tumbledown dickbay: n. 153 B.; top of the Quill 880 M.: n. 284 B.; slope of the Quill near Bengalen 100 M.: n. 668 B., 709 B., 727 B.; Cultuurvlakte: n. 5; seashore: n. 6, 7; locality unknown: n. 129 H., 155 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1344 B.; between Bottom and Marypoint 190—200 M.: n. 1506 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2051 B., 2076 B.; Springbaygut: n. 2107 B.; Bottom: n. 14, 15; locality unknown: n. 104 L.

I also saw *Cissus sicyoides* in Laddergut.

St. Martin: from Filipsburg to Guanabay: n. 2384 B.; along the saltpond near Filipsburg: n. 2443 B.; from Filipsburg to Belvedere: n. 2589 B.; gut from Bethlehem to Cul de Sac: n. 3434 B.; hills on the eastern side of Cul de Sac: n. 3437 B.; Centryhill: n. 17; Cul de Sac: n. 16.

I also saw *Cissus sicyoides*: in Marigothill—Marigot; Nakedboyhill; in pastureground near Belvedere; hill between Mont des Accords and Centryhill; hill on the northern side of Cul de Sac; from Belvedere to Oysterpond; Mount of Paradis 300—400 M.

Anguilla Boldingh.

St. Croix ex Millspaugh.
Americ. trop. (Planchon 1887).

174. Tiliaceae.

4953. **Corchorus** Linn.**Corchorus acutangulus** Linn. Encyc. (1786) II 104; Gris. Fl. 97; Millspaugh 507.**St. Eustatius**: Bengalen: n. 607 B.; Fort de Wind: n. 803 B.**St. Croix** ex Millspaugh.

In all tropical countries (E. a. P.).

Corchorus hirsutus Linn. Spec. (1753) 530; Gris. Fl. 97; Duss 507.**St. Eustatius**: Slope of the Quill near Bengalen: n. 656a B.; from Little Mountains to Venusbay: n. 994 B.; Signalhill 200 M.: n. 1044 B.; in a garden in Oranjestad: n. 1273 B.**St. Martin**: (coll. George:) n. 2495a B.; near Mulletpond: n. 2762 B.; Mount Paradis 300—400 M.: n. 3245 B.; Fort Amsterdam: n. 252; French frontier: n. 225.**Anguilla** Boldingh.**St. Croix** ex Millspaugh.

Baham., Antill., Aruba, Bonaire. (Herb. Krug et Urban).

Corchorus olitorius Linn. Spec. (1758) 529; Gris. Fl. 97.**St. Eustatius**: locality unknown: n. 269 G.

In all tropical countries. (E. a. P.).

Corchorus siliquosus Linn. Spec. (1753) 529; Gris. Fl. 97; Duss 89; Millspaugh 507.**St. Martin**: Top of the hill on the northern side of Cul de Sac: n. 3005 B.; Marigotroad: n. 248.**Anguilla** Boldingh.**St. Croix** ex Millspaugh.

Antill., Florida to Texas, Panama, Nova Granata. (Gris. Fl.).

4975. **Triumfetta** Linn.**Triumfetta rhomboidea** Jacq. Enum. Pl. Carib. (1760) 22; Gris. Fl. 96; Millspaugh 507. Wild mahoe.**St. Eustatius**: locality unknown: n. 185 H., 210.; slope of the Quill: n. 247.**Saba**: Ladder: n. 246.**St. Croix** ex Millspaugh.

In both hemisph. (E. a. P.).

Triumfetta semitriloba Jacq. Enum. Pl. Carib. (1760) 22; Gris. Fl. 96; Duss 89; Millspaugh 506.**St. Eustatius**: Cliff near Oranjestad: n. 56 B.; top of the Quill 400 M.: n. 198 B.; slope of the Quill near Bengalen 50—200 M.:

n. 645 B.; 711 B.; Cultuurvlakte: n. 155; slope of the Quill: n. 229, 230, 231, 232; Quill: n. 243, 245; locality unknown: n. 244.

Saba: lower part of the Bottom Mountain 250 M.: n. 1398 B., 1415 B.; Windwardside—Hellsgate: n. 1663 B.; Mountain 600—800 M.: n. 1792 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2062 B.; Mountain near Windwardside 600 M.: n. 2162 B.; Peperpot: n. 236; Gainbygut: 235.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2635 B.; near Bethlehem: n. 2665 B.; Nakedboyhill 50—200 M.: n. 2705 B.; Mount Paradis 300—400 M.: n. 3215 B., 3243 B.; Centryhill: n. 234; Marigotroad: n. 233.

St. Croix ex Millspaugh.

In both hemisph. (E. a. P.).

175. Malvaceae.

4983. **Abutilon** Adans.

Abutilon crispum Sweet. Hort. Brit. ed. I (1827) 53; Gris. Fl. 79; Duss 68.

St. Eustatius: English Quarter: n. 606, 616, 626, 636.

St. Vincent, New Mexico, Texas, Cuba and Mexico to Venezuela, East Indies. (Gris. Fl.).

Abutilon indicum Sweet. Hort. Brit. ed. I. (1827) 54; Gris. Fl. 78; Duss 67; Millspaugh 507.

St. Eustatius: Bengalen: n. 627 B., 1188 B.; along roads in Oranjestad: n. 932 B.; Concordia: n. 255; English Quarter: n. 287; locality unknown: n. 201 H.

Saba: locality unknown: n. 75 L.

St. Martin: along roads from Bethlehem to Mont Chambord: n. 2915 B.; Mount Paradis 200—400 M.: n. 3204 B.

I also saw *Abutilon indicum*: along roads from Philipsburg to Nakedboyhill; hill between Mont des Accords and Centryhill.

Anguilla—Boldingh.

St. Croix ex Millspaugh.

Antill., Panama, Niger, Nubia to Mozambique, East Indies. (Gris. Fl.).

4991. **Althaea** Linn.

Althaea officinalis Linn. Spec. (1753) 686.

Cultivated. [Europa orient.] (Ind. Kew.).

4995. **Malvastrum** A. Gray.

Malvastrum spicatum A. Gray. in Mem. Am. Acad. N. S. IV (1849) 22; Gris. Fl. 72; Duss 62; Millspaugh 508.

St. Eustatius: in a garden in Oranjestad: n. 90 B.; Fort de Wind: n. 799 B.; locality unknown: n. 256 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1304 B.; Hellsgate—Marypoint: n. 2046 B.

St. Martin: from Filipsburg to Guanabay: n. 2346 B.; near Bethlehem: n. 2663 B.

St. Croix ex Millspaugh.

Antill., Texas to Brazil., Cape Verde Islands, East Indies, New Holland. (Gris. Fl.).

Malvastrum tricuspidatum A. Gray Pl. Wright I (1852) 16; Gris. Fl. 72; Duss 63.

Malvastrum coromandelianum Garcke Bonplandia V (1857) 297; Millspaugh 508.

St. Eustatius: Quill: n. 901 B.

St. Croix. (Symb.).

Cosmop. trop. (Ind. Kew.).

4998. **Sida** Linn.

Sida carpinifolia Linn. f. Suppl. (1781) 307; Gris. Fl. 73; Duss 63; Millspaugh 508.

Sida acuta Burm. f. Fl. Ind. (1768) 147. Soap bush.

St. Eustatius: in a garden in Oranjestad: n. 91 B., 568 B.; Bengalen: n. 620 B.; Fairplay: n. 1505; Cultuurvlakte: n. 1502; slope of the Quill: n. 1506; locality unknown: n. 1507, 15 H., 16 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1340 B.; between Bottom and Marypoint 100—200 M.: n. 1503 B.; top of the Cliff near the seaside of Boobyhill: n. 1601 B.; Windwardside: n. 1901 B.; Laddergut 0—200 M.: n. 2018 B.; gut between Hellsgate and Mastiegut 300—400 M.: n. 2028 B.; locality unknown: 263 L.

St. Martin: from Guanabay to Filipsburg: n. 2439 B.; lower part of Milldrumhill: n. 3170 B.

I also saw *Sida carpinifolia* on the hill between Mont des Accords and Centryhill; between Mount Vernon and Saline; near Grande Case; Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Antill., Florida, Bermud., Cuba and Guatemala to Nova Granata and Brazil., trop. Afr., Canary Islands, East Indies. (Gris. Fl.).

Sida ciliaris Linn. Syst. Ed. X (1759) 1145; Gris. Fl. 73; Duss 64; Millspaugh 509.

St. Eustatius: on the top of the Cliff between Oranjestad and Fort de Wind: n. 756 B.; near Maryglory 150 M.: n. 1153 B.; near Boven 200 M.: n. 1245 B.

St. Martin: from Filipsburg to Belvedere: n. 2562 B.; between Mount Vernon and Orientbay: n. 2938 B.; lower part of Colebay-hill: n. 470 A.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Venezuela. (Gris. Fl.).

Sida cordifolia Linn. Spec. (1753) 684; Gris. Fl. 76; Duss 67; Millspaugh 509. Mash mellow.

St. Eustatius: Bengalen: n. 623 B.; Cultuurvlakte: n. 511, 524; English Quarter: n. 510; locality unknown: n. 3582 B., 182 G.

Saba: Windwardside—Hellsgate: n. 1662 B.; Hellsgate: n. 1695 B.

St. Martin: Prince quarter (coll. George): n. 2462 B.; from Filipsburg to Belvedere: n. 2559 B.; Nakedboyhill 50—200 M.: n. 2679 B.; from Belvedere to Oysterpond: n. 3048 B.; along roads from Grande Case to Marigot: n. 3094 B.; locality unknown: n. 3597 B.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Peru and Brazil., Cape Verde Islands, Niger, Nubia, Cape, East Indies, Canton. (Gris. Fl.).

Sida glomerata Cav. Diss. I (1785) 18 t. 2 f. 6.; Gris. Fl. 73; Duss 64.

St. Eustatius: locality unknown: n. 275 H.

Bermud., Antill., Mexico. (Hemsley 1884).

Sida rhombifolia Linn. Spec. (1753) 684; Gris. Fl. 74; Duss 75; Millspaugh 509.

St. Martin: from Flat Point to Windwardside: n. 2143 B.; Mount Paradis: n. 3203 B.

Trop. countries of both hemisph. (Ind. Kew.).

Sida spinosa Linn. Spec. (1753) 683; Gris. Fl. 74; Duss 64; Millspaugh 509.

St. Eustatius: Bengalen: n. 617 B.; hill near Concordia 100 M.: n. 945 B.; Cultuurvlakte: n. 131, 205.

St. Martin: Cul de Sac: n. 2616 B.; near Bethlehem: n. 2664 B.

St. Croix ex Millspaugh.

Afr., Asia, America. (E. a. P.).

Sida supina L'Hérit. Stirp. Nov. (1784) 109bis, t. 52; Gris. Fl. 75; Millspaugh 509.

St. Eustatius: along roads in Oranjestad: n. 918 B.; near Maryglory 150 M.: n. 1155 B.

Saba: lower part of the Bottom Mountain 250 M.: n. 1396 B.; between Bottom and Marypoint 100—200 M.: n. 1457 B.; Ladder-gut 200 M.: n. 2005 B.; Peperpot: n. 658.

St. Martin: near Fort Willem: n. 2542 B., 2793 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2948 B.; along roads in Cul de Sac: n. 2967 B.; lower part of the Mill-drumhill: n. 3168 B.

St. Croix ex Millspaugh.

Antill., Haiti and Mexico to Venezuela and Lima, Galapagos Islands. (Gris. Fl.).

5006. **Urena** Linn.

Urena lobata Linn. Spec. (1753) 692; Gris. Fl. 81; Duss 70.

Urena americana Linn. Pl. Surin. II (1775); Millspaugh 509.

Saba: between Bottom and Marypoint 300 M.: n. 1559 B., 1472 B.; Mountain 800 M.: n. 1799 B., 1803 B., 19, 31.

St. Croix ex Millspaugh.

In all tropical countries. (E. a. P.).

5007. **Pavonia** Cav.

Pavonia spinifex Cav. Diss. III (1787) 133; Gris. Fl. 82; Duss 72; Millspaugh 508. Ginger bush.

Saba: lower part of the Bottom Mountain 250 M.: n. 1401 B.; Windwardside: n. 1592 B., Crespeen—Rendez-vous 400 M.: n. 29; Middle island: n. 30.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2650 B.; lower part of Mount Paradis: n. 3188 B., 3302 B.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. merid. (Hemsley 1884).

5013. **Hibiscus** Linn.

Hibiscus esculentus Linn. Spec. (1753) 696.

Cultivated. [In all trop. countries]. (Ind. Kew.).

Hibiscus radiatus Cav. Diss. III (1787) 150 t. 54 f. 2. Hawthorn.

Cultivated. [Asia and Austral. trop.]. (Ind. Kew.).

Hibiscus Rosa-sinensis Linn. Spec. (1753) 694. Hibisc.

Cultivated. [Trop. countries of the Old world]. (Ind. Kew.).

Hibiscus Sabdariffa Linn. Spec. (1753) 695.

Cultivated. [Trop. countries of the Old world]. (Ind. Kew.).

Hibiscus schizopetalus Hook. f. Bot. Mag. (1880) t. 6524. Basket hibisc.

Cultivated. [Afr. trop.]. (Ind. Kew.).

Hibiscus tiliaceus Linn. Spec. (1753) 694.

Paritium tiliaceum St. Hill Fl. Bras. Mer. I (1827) 256; Gris. Fl. 86; Duss 79; Millspaugh 508.

St. Eustatius: at the seashore near Concordiabay: n. 1089 B.

St. Martin: Mount Paradis 300—400 M.: n. 3326 B.

St. Croix ex Millspaugh.

All tropical countries. (E. a. P.).

5014. **Abelmoschus** Médik.

Abelmoschus moschatus Médik. Malv. (1787?) 46.

Cultivated. [Trop. countries of the Old world]. (Ind. Kew.).

5018. **Thespesia** Soland.

Thespesia populnea Soland. ex Correa in Ann. Mus. Par. IX (1807) 290; Gris. Fl. 87; Duss 79; Millspaugh 509.

St. Eustatius: Seashore near Oranjestad: n. 30 B.; seashore near Tumbledown Dickbay: n. 154 B.; slope of the Quill 50 M.: n. 35.

Saba: Bottom: n. 2246 B., 36; locality unknown: n. 233 L.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2625a B.

St. Croix ex Millspaugh.

Antill., East Indies, North coast of Austral., New South Wales, Senegambia. (Gris. Fl.).

5020. **Gossypium** Linn.

Gossypium barbadense Linn. Spec. (1753). 693. Creole cotton.

Cultivated. [Amerika]. (E. a. P.).

177. **Bombacaceae.**

5023. **Adansonia** Linn.

Adansonia digitata Linn. Spec. (1753); 1190. Guinea tamarind.

[Africa]. (E. a. P.).

5026. **Ceiba** Médik.

Ceiba pentandra Gärtn. Fruct. II (1791). 244 t. 133.

Eriodendron anfractuosum DC. Prod. I (1824) 479; Gris. Fl. 88; Duss 80; Millspaugh 510. Silk cotton tree.

St. Eustatius: Top of the Quill 400 M.: n. 224 B.; in a garden in Oranjestad: n. 321 H.

I also saw *Ceiba pentandra*: at the seashore near Oranjestad: Bottom of the Quill.

St. Martin: Cul de Sac: n. 2619 B.

I also saw *Ceiba pentandra*: near Grande Case; Vallée des Pères.

St. Croix ex Millspaugh.

Mexico, Antill., Guiana, Afr., Malay. (E. a. P.).

Also cultivated.

5033. **Quararibea** Aubl.

Quararibea turbinata Poir. Encycl. Suppl. IV. 636.

Myrodia turbinata Sw. Prod. Veg. Ind. Occ. (1788) 102; Gris. Fl. 88; Duss 82; Millspaugh 510. Miller wood.

St. Eustatius: Bottom of the Quill: n. 424a B., 896a B., 113 H., 217 G., 118, 119, 120, 121, 122.

St. Croix ex Millspaugh.

Brazil. (Ind. Kew.).

178. **Sterculiaceae.**5057. **Melochia** Linn.

Melochia nodiflora Sw. Prod. Veg. Ind. Occ. (1788) 97; Gris. Fl. 94; Duss 87; Millspaugh 510.

St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2989 B.; Tintamarre: n. 3392 B.

St. Croix ex Millspaugh.

Antill., Mexico, Panama. (Gris. Fl.).

Melochia pyramidata Linn. Spec. (1753) 674; Gris. Fl. 93; Duss 86; Millspaugh 510.

St. Eustatius: along roads in Oranjestad: n. 1076 B.; slope of the Quill: n. 198, 199; Cultuurvlakte: n. 197, 200; in a garden in Oranjestad: n. 200, 39 G.

St. Croix ex Millspaugh.

Baham., Antill., Mexico, Texas, Venezuela, Guayaquil, Brazil. (Gris. Fl.).

Melochia tomentosa Linn. Syst. ed. X (1759) 1140; Gris. Fl. 93; Duss 86; Millspaugh 510. Black toarch.

St. Eustatius: Slope of the lower part of Signalhill: n. 102 B.; Signalhill 200 M.: n. 127 B.; along roads in Oranjestad: n. 924 B.; along roads near Concordiabay: n. 975 B.; Cultuurvlakte: n. 204; along roads: n. 232 H.

Saba: I saw *Melochia tomentosa* on Crispeenhill.

St. Martin: from Philipsburg to Guanabay: n. 2354 B.; Prince quarter (coll. George): n. 2472*a* B.; Fort Willem 0—50 M.: 2582 B., 2795 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2945 B.; Colebayhill: n. 205; Prince quarter: n. 116.

I also saw *Melochia tomentosa*: along roads from Nakedboyhill to Philipsburg; Nakedboyhill; from Belvedere to Oysterpond; Tintamarre.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Venezuela and Brazil. (Gris. Fl.).

5059. **Waltheria** Linn.

Waltheria americana Linn. Spec. (1753) 673; Gris. Fl. 95; Duss 87.

Waltheria indica Linn. Spec. (1753) 673; Millspaugh 511. Mash mellow.

St. Eustatius: Seashore near Oranjestad: n. 37 B.; top of the Quill 400 M.: n. 503 B.; in a garden in Oranjestad: n. 509 B.; Bengalen: n. 619 B.; slope of the lower part of the Quill near Bengalen: n. 720 B.; on the Cliff between Oranjestad and Fort de Wind: n. 757 B., 763*a* B.; Pongohill: n. 43; slope of the Quill: n. 44, 45, 46; Cultuurvlakte: n. 42, 47; along roads in Oranjestad: n. 181 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1528 B.; Windwardside—Hellsgate: n. 1685 B.

St. Martin: near Fort Willem: n. 2794 B.; in an orchard near Bellevue: n. 2844 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

In tropical and subtropical countries. (Hemsley 1884).

5063. **Ayenia** Loefl.

Ayenia pusilla Linn. Syst. ed. X (1759) 1247; Gris. Fl. 92; Millspaugh 510.

St. Eustatius: Top of the Cliff between Gallowsbay and White Wall: n. 761 B.

St. Martin: from Philipsburg to Point Blanche: n. 3400a B.

St. Croix ex Millspaugh.

Antill., Peru. (Ind. Kew.).

5068. **Theobroma** Linn.

Theobroma Cacao Linn. Spec. (1753) 782; Gris. Fl. 91; Duss 85; Millspaugh 510. Cocoa.

St. Eustatius: Bottom of the Quill 350 M.: n. 446 B., 1217 B.; Quill: n. 123, 124, 125, 102 H., 214 G., 221 G.

Saba: Windwardside: n. 1937 B.

St. Croix ex Millspaugh.

Amer. cent. and merid., Curaçao(?) (E. a. P.).

5081. **Helicteres** Linn.

Helicteres jamaicensis Lam. Encyc. IV 87; Gris. Fl. 89; Millspaugh 510.

Helicteres Isora Linn. Spec. (1753) 963.

St. Martin: Prince quarter: n. 501.

St. Croix ex Millspaugh.

Antill., Asia et Austral. trop. (Ind. Kew.).

182. Ochnaceae.

5126. **Sauvagesia** Linn.

Sauvagesia erecta Linn. Spec. (1753) 203; Gris. Fl. 112; Duss 108.

Saba: Mountain 800 M.: n. 1821 B., 2209 B., 134; gut between Hellsgate and Masticgut 300—400 M.: n. 2025 B.

In all tropical countries. (E. a. P.).

184. Marcgraviaceae.

5137. **Marcgravia** Linn.

Marcgravia umbellata Linn. Spec. (1753) 503; Gris. Fl. 110; Duss 106.

Saba: Mountain near Windwardside 600 M.: n. 2159 B., 2160 B.; Mountain 800 M.: n. 2207 B., 58, 59; Mountain near Hellsgate 500 M.: n. 2275 B., 2276 B.

Antill., Guiana and Columbia. (Urban 1896.).

186. Theaceae.

5135. **Ternstroemia** Mutis ex Linn. f.**Ternstroemia peduncularis** DC. in Mem. Soc. Phys. Genève. I (1822) 409.*Ternstroemia elliptica* Sw. Prod. Veg. Ind. Occ. (1788) 81; Gris. Fl. 103; Duss 96; Millspaugh 511.**St. Eustatius**: Top of the Quill 400 M.: n. 5 B., 228 B., 248 B., 264 B., 323 B., 359 B., 401 B., 504 B., 222, 223, 224, 225, 227, 228; inner slope of the Quill 350 M.: n. 1228 B.; locality unknown: n. 130, 226.**St. Martin**: Lowlands: n. 3271 B.**St. Croix** ex Millspaugh.

Antill., Mexico, Panama. (Gris. Fl.).

Freziera Sw.cf. 5157. *Eurya* Thunb. subg. II.**Freziera undulata** Willd. Sp. Plant. II. (1799) 1179; Gris. Fl. 104; Duss 97.**Saba**: Mountain 800 M.: n. 2211 B., 64, 65.

St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Vincent, St. Lucia, Grenada, Trinidad. (Urban 1896).

187. Guttiferae.

5164. **Marila** Swartz.**Marila racemosa** Sw. Prod. Veg. Ind. Occ. (1788) 84; Gris. Fl. 111; Duss 107.**Saba**: Mountain 800 M.: n. 1829 B.

Guadeloupe, Martinique, Dominica, St. Vincent. (Herb. Krug et Urban).

5176. **Mammea** Linn.**Mammea americana** Linn. Spec. (1753) 512; Gris. Fl. 108; Duss 102; Millspaugh 511. Mammie.**St. Eustatius**: along the lower part of Signalhill: n. 120 B.; inner slope of the Quill 350 M.: n. 461 B.; slope of the Quill near Bengalen 150—200 M.: n. 651 B.; Quill: n. 9; locality unknown: n. 70 H., 184 G.**Saba**: Boobyhill 300 M.: n. 1619 B.; locality unknown: n. 114 L.I also saw *Mammea americana*: Hellsgate.

St. Martin: I saw *Mannea americana*: Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Antill., Guiana, Nova Granata; in warmer parts of Amer. Afr. and Asia cultivated. (Vesque 1893).

Also cultivated.

5181. *Clusia* Linn.

Clusia alba Jacq. Enum. Pl. Carib. (1760) 34; Gris. Fl. 107; Millspaugh 511. Wild mammie.

St. Eustatius: Top of the Quill 400 M.: n. 193 B., 376 B., 8, 10, 100 H., 185 G.

Saba: between Bottom and Marypoint 350 M.: n. 1489 B.; Hellsgate: n. 1705 B.; Mountain near Hellsgate 600 M.: n. 2288 B.; locality unknown: n. 357 L.

I also saw *Clusia alba*: on Gates Hill; in Gut between Hellsgate and Mastiegut.

St. Croix ex Millspaugh.

St. Kitts, Martinique, Dominica, Guadeloupe. (Vesque 1893).

Clusia rosea Jacq. Enum. Pl. Carib. (1760) 34; Gris. Fl. 107; Duss 99; Millspaugh 511.

St. Martin: Nakedboyhill 200—265 M.: n. 2718 B.; Centryhill: n. 12.

St. Croix ex Millspaugh.

Baham., Antill., Venezuela, Panama, Carolina. (Vesque 1893).

Clusia spec. nov. without flowers and fruits.

Saba: Greathill: n. 11.

194. *Bixaceae*.

5249. *Bixa* Linn.

Bixa Orellana Linn. Spec. (1753) 512; Gris. Fl. 20; Duss 14; Millspaugh 511. Roucou.

St. Eustatius: in a garden in Oranjestad: n. 533 B., 140 H., 231 G.

Saba: lower part of the Bottom Mountain 300 M.: n. 1426 B.; Bottom: n. 1850 B., 2241 B.; locality unknown: n. 245 L., 292 L.

St. Croix ex Millspaugh.

Indig. in Amer. trop. (E. a. P.). Also cultivated.

197. *Canellaceae*.

5254. *Canella* Swartz.

Canella alba Murr. Syst. ed. XIV (1784) 443; Gris. Fl. 109; Duss 103; Millspaugh 511. Pepper cinnamom.

St. Martin: Colebay (coll. George): n. 2503 B., 2505 B.; shore of the Simonsbaylagoon near Cul Piquard: n. 2740 B.; near Mulletpond: n. 2769 B.; near Vischvijver: n. 2926 B.; near Simonsbaylagoon: n. 3038 B.; Milldrumhill 300—400 M.: n. 3126 B.; Lowlands: n. 3282 B.

St. Croix ex Millspaugh.

Florida, Antill. (E. a. P.).

199. Flacourtiaceae.

5307. **Prockia** Linn.

Prockia Crucis Linn. Syst. ed. X (1759) 1074.

Cultivated. [Amer. trop.]. (E. a. P.).

5320. **Xylosma** Forst.

Xylosma buxifolium A. Gray in Mem. Am. Acad. N. S. VIII. (1860) 155.

Myroxylon buxifolium Krug et Urban in Additamenta ad Cognitionem Florae Indiae Occidentalis I (1893) 300; Duss 15. Cockspur.

St. Eustatius: Top of the Quill 450 M.: n. 373 B., 43.

Baham., Antill. (Urban 1893).

5337. **Samyda** Linn.

Samyda serrulata Linn. Spec. (1762) 558; Gris. Fl. 25; Duss 17; Millspaugh 512. Bansa, Wild guave.

St. Eustatius: Signalhill 150 M.: n. 1025 B.; near Maryglory 150 M.: n. 1146 B.; slope of the Quill on the side of White Wall 200 M.: n. 1169 B.

St. Martin: from Philipsburg to Guanabay: n. 2352 B., 2372 B., 2390 B.; Prince quarter (coll. George): n. 2425a B., 2458 B.; Fort Willem: n. 2532a B.; Cul de Sac: n. 2605 B.; Nakedboyhill 50—200 M.: n. 2687 B.; 200—265 M.: n. 2723 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2951 B.; Mount Paradis 200—400 M.: n. 3207 B.; 100—200 M.: n. 3301 B.; 200—300 M.: n. 3305 B.; locality unknown: n. 3614 B.; Centryhill: n. 30, 88; Colebayhill: n. 32; Vineyardhill: n. 31, 33; French frontier: n. 89.

I also saw *Samyda serrulata*: near Saline; from Belvedere to Oysterpond; along roads near Grande Case; Lowlands.

St. Croix ex Millspaugh.

St. Domingo, Portorico, St. Thomas, Antigua, St. Barthélemy, Trinidad. (Herb. Krug et Urban).

5343. **Casearia** Jacq.

Casearia parvifolia Willd. Sp. Pl. II (1799) 628; Gris. Fl. 23; Duss 16; Crack open.

St. Eustatius: Top of the Quill 400 M.: n. 220 B., 236 B., 299 B.; top of the Quill 500 M.: n. 496 B.; slope of the Quill near Bengalen 150 M.: n. 677 B., 682 B.; slope of the Quill near Glassbottle: n. 867 B.; Bottom of the Quill 300 M.: n. 892 B.; top of the Quill: n. 160, 166; locality unknown: n. 196 G.

I also saw *Casearia parvifolia*: slope of the Quill on the side of White Wall.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1345 B.; Greathill 2—400 M.: n. 163; Paris: n. 161, 162; Gainbygut: n. 164; Cowpasture: n. 165; locality unknown: n. 327 L.

I also saw *Casearia parvifolia*: Forthbaygut; gut between Hellsgate and Mastiegut; Springbaygut.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2638 B., 2646 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2894 B.; Mount Paradis 200—400 M.: n. 3310 B.; Centryhill: n. 29; John Ednyhill: n. 28; French frontier: n. 27.

I also saw *Casearia parvifolia*: on the hills on the northern side of Cul de Sac; from Belvedere to Oysterpond.

St. Croix ex Millspaugh.

Antill., Guiana, Pernambuco. (Gris. Fl.).

Casearia sylvestris Sw. Fl. Ind. Occ. II. (1800) 752; Gris. Fl. 23; Millspaugh 512.

St. Martin: Hill on the northern side of Cul de Sac 0—100 M.: n. 3005a B.; 200—300 M.: n. 3011 B.; Mount Paradis 300—400 M.: n. 3201 B., 3241 B.

St. Croix ex Millspaugh.

In tropical America. (E. a. P.).

201. Turneraceae.

5357. **Piriqueta** Aubl.

Piriqueta villosa Aubl. Pl. Gui. I (1775) 298 t. 117.

Piriqueta cistoides G. F. W. Mey ex Steud. Nom. ed. II (1841) 344; Gris. Fl. 298; Duss 314.

St. Eustatius: along roads near English Quarter: n. 997 B., 998a B.; slope of the Quill on the side of White Wall 200 M.: n. 1185 B.; slope of the Quill: n. 237, 238; locality unknown: n. 236.

Antill., Cuba and Panama to Brazil. (Gris. Fl.).

5360. **Turnera** Linn.

Turnera ulmifolia Linn. Spec. (1753) 271; Gris. Fl. 296; Millspaugh 512.

St. Eustatius: White Wall: n. 808 B.; gut near Fort de Wind: n. 835 B.; near Boven 200 M.: n. 1237 B.; White Wall: n. 240; Greatgut: n. 241.

Saba: Flat Point: n. 2134 B.

St. Martin: between Mount Vernon and Orientbay: n. 2925 B.; Tintamarre: n. 3403 B.

St. Croix ex Millspaugh.

From Mexico and the Antill. to Argentina. (E. a. P.).

203. **Passifloraceae.**5372. **Passiflora** Linn.

Passiflora foetida Linn. Spec. (1753) 959; Gris. Fl. 294; Duss 313; Millspaugh 512.

St. Eustatius: Fairplay: n. 2305; seashore: n. 1974, 2331; road near Sugarloaf: n. 2397.

Saba: Gut near Marypoint: n. 2048 B.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Passiflora laurifolia Linn. Spec. (1753) 956; Gris. Fl. 293; Duss 312; Millspaugh 512. Bell apple.

St. Eustatius: Top of the Quill 400 M.: n. 249 B., 290 B.; in a garden in Oranjestad: n. 526 B.; slope of the Quill near Bengalen 250 M.: n. 701 B.; Cultuurvlakte: n. 1439; slope of the Quill: n. 1426; Boven: n. 85; locality unknown: n. 1429, 1442, 1443, 24 G., 79 H., 144 G.

Saba: Bottom: n. 2272 B.; Jenkygut—Hellsgate: n. 87; locality unknown: n. 2 L., 170 L.

St. Martin: Mount Paradis 300—400 M.: n. 3333 B.

St. Croix ex Millspaugh.

Antill., Nova Granata, Guiana, Brazil. (Gris. Fl.). Also cultivated.

Passiflora maliformis Linn. Spec. (1753) 956; Gris. Fl. 293; Duss 313.

Saba: Mountain 200 M.: n. 1904; locality unknown: n. 305 L. Antill., Haiti to Nova Granata (Gris. Fl.).

Passiflora quadrangularis Linn. Syst. ed. X. (1759) 1248. Granada dilla.

Cultivated. [Antill., Panama, Peru, Brasil.]. (Gris. Fl.).

Passiflora rubra Linn. Spec. (1753) 956; Gris. Fl. 292; Duss 312; Millspaugh 512. Snakeberry wine.

Saba: between Bottom and Marypoint 300 M.: n. 1488 B., 1494 B.; Crispeen 400 M.: n. 1764 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2024 B.; Mountain 800 M.: n. 2217 B.

St. Martin: lower part of Mount Paradis: n. 3292 B.

St. Croix ex Millspaugh.

Antill., Panama, Venezuela, Nova Granata. (Gris. Fl.).

Passiflora suberosa Linn. Spec. (1753) 958; Gris. Fl. 290; Duss 311; Millspaugh 512.

St. Eustatius: Top of the Quill 400 M.: n. 192 B., 313 B., 342 B.; 500 M.: n. 490 B.; slope of the Quill near Bengalen 200 M.: n. 690 B.; slope of the lower part of the Quill near Bengalen: n. 713 B.; gut near Fort de Wind: 50 M.: n. 837 B.; slope of the Quill: n. 2417; locality unknown: n. 188 H., 271 G.

Saba: Windwardside—Hellsgate: n. 1668 B.; Bottom: n. 2546, 2571; locality unknown: n. 314 L.

St. Martin: Nakedboyhill 200—260 M.: n. 2721 B., 2734 B.; near Mulletpond: n. 2757 B., 2764 B.; in an orchard near Bellevue: n. 2834 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2871 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Panama, Venezuela. (Gris. Fl.).

205. Caricaceae.

5377. **Carica** Linn.

Carica Papaya Linn. Spec. (1753) 1026. Papao.

Cultivated. [Amer. trop.]. (E. a. P.).

208. Begoniaceae.

5397. **Begonia** Linn.

Begonia domingensis DC. in Ann. Sc. Nat. Sér IV. XI (1859) 124 (vel. affin.); Gris. Fl. 304.

St. Eustatius: Top of the Quill 450 M.: n. 382 B., 472 B.; Bengalen: n. 193, 194; Quill: n. 192.

Saba: Mountain 600—800 M.: n. 1787 B., 1809 B., 2212 B., 169, 189, 190, 191; locality unknown: n. 173 L.
Dominica, Haiti. (Gris. Fl.)

210. Cactaceae.

5401. **Cereus** Mill.

Cereus grandiflorus Mill. Gard. Dict. ed. VIII (1768) n. 11; Gris. Fl. 301; Duss 317; Millspaugh 513.

St. Eustatius: Jenkinsbay: n. 1253*a* B.

Saba: Bottom: n. 2242*a* B.

St. Croix ex Millspaugh.

Jamaica, Caraiben, Haiti, Vera Cruz, Mexico, Sonora. (Schumann 1903).

Cereus Peruvianus Mill. Gard. Dict. ed. VIII (1768) n. 4.

St. Eustatius: in a garden in Oranjestad.

St. Martin: near Bethlehem: n. 3438*a* B.

Antill., Mexico, Bras., Guiana. (Schumann 1903).

Cereus triangularis Haworth. Syn. Pl. Succ. (1812) 180; Gris. Fl. 301; Duss 317; Millspaugh 513.

Cereus compressus Mill. Gard. Dict. ed. VIII (1768) n. 10. Slingeractis, Strawberry.

Saba: St. John's: n. 1871*a* B.; Windwardside: n. 1917*a* B.; near Devilshand: n. 2097*a* B.

St. Martin: near Oysterpond: n. 3089*a* B.; Mount Paradis: n. 3322*a* B.

St. Croix ex Millspaugh.

Antill., Florida, Mexico, Rio de Janeiro, Asia. (Schumann 1903).

Cereus spec.

St. Eustatius: n. 141, 153.

Saba: locality unknown: n. 1660*a* B.

5409. **Melocactus** Link et Otto.

Melocactus communis Link et Otto in Verh. Preuss. Ver. Gartenb. III (1827) 417 t. 11; Gris. Fl. 300; Duss 317; Millspaugh 513. Popehead.

St. Eustatius: I saw *Melocactus communis*: Top of Signalhill; near Tumbledowndickbay; Gilboohill.

Saba: I saw *Melocactus communis*: near the Sulphurmines.

St. Martin: I saw *Melocactus communis*: near Filipsburg; near Guana-bay; along roads from Filipsburg to Nakedboyhill; top of Nakedboyhill; Lowlands; Green Key.

St. Croix ex Millspaugh.
Antill. (Schumann 1903).

5417. **Opuntia** Mill.

Opuntia Ficus indica Mill. Gard. Dict. ed. VIII (1768) n. 2;
Gris. Fl. 302; Sweet prickly.

St. Eustatius: along roads: n. 151 G.

I saw *Opuntia Ficus indica*: in deserted plantations near Bengalen;
roads along the lower part of Signalhill; Signalhill.

Saba: I saw *Opuntia Ficus indica*: St. Giles; Laddergut.

St. Martin: I saw *Opuntia Ficus indica*; near Filipsburg; Nakedboy-
hill; Fort Willem; Green Key.

Mexico, warmer countries of both hemisph. (Schumann 1903).

Opuntia spinosissima Mill. Gard. Dict. ed. VIII (1768) n. 8;
Gris. Fl. 302; Duss 318; Millspaugh 513.

St. Eustatius: I saw *Opuntia spinosissima*: on the top of the Cliff
near Signalhill; on the White Wall.

St. Martin: I saw *Opuntia spinosissima*: Top of Nakedboyhill; Tinta-
marre.

St. Croix ex Millspaugh.

Ind. Occid. (Schumann 1903). Baham. (Hitchc.)

Opuntia triacantha Haworth. (1812); Gris. Fl. 302. Spanish lady.

St. Eustatius: English Quarter: n. 1004a B.; Gilboohill: n.
1126a B.; Jenkinsbay: n. 1230a B.

I saw *Opuntia triacantha*: Slope of Signalhill; roads along the lower
part of Signalhill; top of the Cliff between Oranjestad and White Wall.

Saba: Paris: n. 1384a B.

I also saw *Opuntia triacantha*: Laddergut.

St. Martin: near Fort Willem: n. 2551a B.; near Nakedboy-
hill: n. 2577a B.

I also saw *Opuntia triacantha*: near Filipsburg; along roads near Beth-
lehem; one of the islands in Simonsbaylagoon.

Ind. Occid. (Schumann 1903).

Opuntia Tuna Mill. Gard. Dict. ed. VIII. (1768) n. 3; Gris. Fl.
302; Duss 318; Millspaugh 513. Sour prickly.

St. Eustatius: along roads: n. 152.

Saba: I saw *Opuntia Tuna*: Giles gut; near the Sulphurmines; Green
Island.

St. Martin: I saw *Opuntia Tuna*: Nakedboyhill; Fort Willem; one of
the Islands in Simonsbaylagoon.

India Occid., California? (Schumann 1903).

5418. **Nopalea** Salm-Dyck.

Nopalea coccinellifera Salm-Dyck Cath. Hort. Dyck. ed. II (1850) 64. Curaçao prickly.

Cultivated. [Mexico]. (Schumann 1903).

5421. **Peireskia** Mill.

Peireskia aculeata Mill. Gard. Dict. ed. VIII (1768).

Cultivated. [warmer countries of Amerika]. (Schumann 1903).

Peireskia bleo DC. Prod. III (1828) 475.

Cultivated. [Nova Granata, Brasilia]. (Schumann 1903).

214. Thymelaeaceae.5449. **Daphnopsis** Mart. et Zuc.

Daphnopsis caribaea Gris. Flor. W. I., (1860) 278; Duss 297. Maho.

St. Eustatius: Top of the Quill 400 M.: n. 197 B., 251 B., 397 B.; slope of the Quill on the side of White Wall 200 M.: n. 1177 B.; Quill: n. 154.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1359 B.; Greathill 400 M.: n. 1386 B.; seaside of Tentguthill 100 M.: n. 1654 B.; Hellsgate: n. 1699 B.; Springbaygut: n. 2077 B.; Paris 2—400 M.: n. 233, 234, 235.

I saw *Daphnopsis caribaea*: Gut between Hellsgate and Masticgut; Saddle.

St. Martin: Cul de Sac: n. 2604 B.; Milldrumhill 200—300 M.: n. 3119 B., 3124 B.; Mount Paradis 300—400 M.: n. 3240 B.

I also saw *Daphnopsis caribaea*: Top of Nakedboyhill; near Saline.

St. Croix. (Symb.).

Portorico, St. Thomas, St. Kitts, Martinique, Guadeloupe, Margareta, Dominica. (Herb. Krug et Urban).

216. Lythraceae.5493. **Lagerstroemia** Linn.

Lagerstroemia indica Linn. Spec. (1762) 734. Queen of Crib-flower.

Cultivated. [Japan, China, Molukk., Australia]. (Koehne 1903).

5494. **Lawsonia** Linn.

Lawsonia inermis Linn. Spec. (1753) 349. Miminet.

Cultivated. [Africa, Asia, Australia]. (Koehne 1903).

218. Punicaceae.5501. **Punica** Linn.

Punica Granatum Linn. (1753) 472. Pomegranate tree.
Cultivated. [Balkan and Himalaya]. (E. a. P.).

220. Rhizophoraceae.5523. **Rhizophora** Linn.

Rhizophora Mangle Linn. Spec. (1753) 443; Gris. Fl. 274; Duss 292; Millspaugh 514.

St. Martin: near Colebay (coll. George): n. 2498 α B.; from Filipsburg to Simonsbay: n. 3027 B.

I saw *Rhizophora Mangle*: at Simonsbaylagoon; Oysterpond.

St. Croix ex Millspaugh:
America. (E. a. P.).

221. Combretaceae.5541. **Quisqualis** Linn.

Quisqualis indica Linn. Spec. (1762) 556. Different coloured jessamine.

Cultivated. [Ind. orient., Ins. Philipp., Afr. trop. orient., Guinea]. (E. a. P.).

5544. **Terminalia** Linn.

Terminalia Catappa Linn. Mant. II (1771) 519. Almond tree.
Cultivated. [Madagascar, Malay arch., Nova Guinea]. (E. a. P.).

5548. **Conocarpus** Gärtn.

Conocarpus erectus Linn. Spec. (1753) 76; Gris. Fl. 277; Duss 295; Millspaugh 516. Button wood.

St. Eustatius: Seashore at Venusbay: n. 970 B.

St. Martin: from Filipsburg to Guanabay: n. 2378 B.; Colebay (coll. George.): n. 2515 B.; shore of the Simonsbaylagoon near Cul Piquard: n. 2747 B.; near Simonsbayvillage: n. 3029 B., 3029 B.; Simonsbay: n. 160.; Lowlands: n. 3266 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Florida to Brazil, Galapagos, Marianne Islands, trop. coast of Africa. (Gris. Fl.).

5551. **Laguncularia** Gärtn.

Laguncularia racemosa Gärtn. f. Fruct. III (1805) 209 t. 217 f. 2; Gris. Fl. 276; Duss 295; Millspaugh 516.

St. Martin: Colebay (coll. George): n. 2497 B.; from Filipsburg to Cul de Sac along the Saltpond: n. 2612 B.; shore of the Simonsbaylagoon near Cul Piquard: n. 2748 B.; along the Simonsbaylagoon near the village: n. 3028 B., 3285 B.; Oysterpond n. 376.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Amer. trop. to Florida, trop. Africa. (E. a. P.).

222. Myrtaceae.

5559. **Psidium** Linn.

Psidium Guajava Linn. Spec. (1753) 470; Gris. Fl. 241; Duss 261; Millspaugh 515. Guava tree.

St. Eustatius: in a garden in Oranjestad: n. 512 B., 41 H., 48 G.; slope of the Quill: n. 62, 63, 64; road near English Quarter: n. 41.

Saba: Boobyhill 350 M.: n. 1615 B.; Ladder: n. 40; Longpeak: n. 61; locality unknown: n. 119 L.

I also saw *Psidium Guajava*: in a gut between Hellsgate and Masticgut; between Bottom and Marypoint; Crespeenhill.

St. Martin: from Filipsburg to Belvedere: n. 2582 B.; Cul de Sac: n. 60.

I also saw *Psidium Guajava*: Marigothill to Marigot; Nakedboyhill; lower part of Milldrumhill; Mount Paradis 3—400 M.; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill. from Mexico to Brasilia. (Urban 1895).

Amomis Berg.

cf. 5566. *Pimenta* Lindl. sect. I.

Amomis caryophyllata Kr. et Urb. in Urban. Additamenta ad Cognitionem Floræ Indiæ Occidentalis II (1895) 573; Duss 262.

Pimenta acris Kostel. Allg. med. pharm. Fl. IV (1835) 1526; Gris. Fl. 241; Millspaugh 515. Cinnamom tree, Bayberry.

St. Eustatius: Top of the Quill 500 M.: n. 493 B., 56, 57; Bengalen: n. 53.

Saba: between Bottom and Marypoint 300 M.: n. 1479 B., 1557 B.; Boobyhill 300 M.: n. 1596 B.; Bottom: n. 1987 B.; Great-hill: n. 54; Bottom: n. 51, 52; Masticgut: n. 55.

St. Martin: Milldrumhill 300—400 M.: n. 3156 B.

St. Croix ex Millspaugh.

Venezuela, Guiana; cult. in Baham. and Ind. Orient. (Urb. 1895).

5573. **Myrcia** DC.

Myrcia paniculata Kr. et Urb. in Urban Additamenta ad Cognitionem Florae Indiae Occidentalis II (1895) 577; Duss 263.

Myrcia coriacea DC. Prodr. III (1828) 243; Gris. Fl. 234; Millspaugh 515. Redwood, Birdsberry.

St. Eustatius: Top of the Quill 400 M.: n. 173 B., 188 B., 260 B., 346 B., 505 B.; locality unknown: n. 114 H.

Saba: Paris 400 M.: n. 1369 B.; Mountain near Windwardside 600 M.: n. 2180 B.; locality unknown: n. 1568 B., 140 L.; Wellgut: n. 43.

St. Martin: Nakedboyhill 50—200 M.: n. 2715 B.; lower part of Mount Paradis: n. 3189 B.; Mount Paradis 300—400: n. 3221 B., 3352 B.; Lowlands: n. 3268 B.

St. Croix ex Millspaugh.

Antill., Brazil. (Urb. 1895).

Myrcia splendens DC. Prodr. III (1828) 244; Gris. Fl. 234; Duss 265. Surinaam cherries.

St. Eustatius: Top of the Quill 400 M.: n. 200 B., 285 B., 358 B.; inner slope of the Quill 350 M.: n. 420 B., 1218 B., 1222 B.; slope of the Quill near Bengalen 50—200 M.: n. 656 B.; slope of the Quill near Bengalen 150 M.: n. 684 B.; slope of the Quill 150 M.: n. 1112 B.; Quill: n. 44, 46, 47; slope of the Quill: n. 45; Little Mountain: n. 44; locality unknown: n. 177 G., 213 G.

Saba: along roads 200—300 M.: n. 1711a B.; Windwardside: n. 1945 B.; Hellsgate—Marypoint: n. 2043 B.; Crespeen—Rendezvous: n. 48.

St. Martin: Mount Paradis 150—400 M.: n. 3195 B.; Tintamarre: n. 3396 B.

Cuba, Jamaica, Haiti, St. Domingo, Portorico, St. Thomas, Guadeloupe, Martinique, St. Lucia, St. Vincent, Tobago, Trinidad. (Urban 1895).

5575. **Calyptranthes** Swartz.

Calyptranthes Boldingii Urb. in Symbolae Antillana VI (1909) 22.

St. Martin: Lowlands: n. 3270 B.

5578. **Eugenia** Linn.

Eugenia axillaris Willd. Spec. II (1800) 970; Gris. Fl. 236; Duss 270; Millspaugh 514. Choakberry, Pigeonberry.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 641 B.; Gilboohill 150 M.: n. 1120 B.; Boven: n. 19, 21; top of the Quill: n. 20; locality unknown: n. 55 H.

Saba: Top of the Cliff near the seaside of Boobyhill: n. 1607a B.; Mountain 400 M.: n. 1740 B.; Windwardside: n. 1883 B.; Laddergut: n. 2000 B.; Springbaygut: n. 2117 B.; Greathill: n. 22.

St. Martin: from Philipsburg to Guanabay: n. 2392 B.; from Belvedere to Oysterpond: n. 3055 B., 3072 B.; Lowlands: n. 3263 B.; Tintamarre: n. 3388 B.; top of Centryhill: n. 39.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida, Key, Baham., Antill. (Urban 1895).

Eugenia cordata DC. Prodr. III (1828) 272; var. **Sintensii** Kr. et Urb. in Additamenta ad Cognit. Fl. Ind. Occ. (1895) 656.

Eugenia sessiliflora DC. Prodr. III (1828) 273; Gris. Fl. 236.

St. Eustatius: from Signalhill to Venusbay: n. 960 B.; Gilboohill: n. 1121 B.; near White Wall: n. 1266 B.

St. Croix. (Symb.).

St. Domingo? Portorico, St. Thomas, St. Jan, Tortola, Antigua, Martinique, St. Lucia, St. Vincent, Mustique Island, Bequia Island. (Urban 1895).

Eugenia floribunda West St. Croix (1793) 290; Gris. Fl. 239; Duss 273; Millspaugh 514. Guaveberry.

St. Eustatius: locality unknown: n. 200a G.; 40.

St. Martin: in an orchard near Bellevue: n. 2831 B.; Mount Paradis 300—400 M.: n. 3320a B.

St. Croix. (Urban 1895).

Antill., Guiana, Brazil. (Urban 1895).

Eugenia fragrans Willd. Spec. (1800) 964.

Anamomis fragrans Gris. Flor. W. I. (1860) 240.

Anamomis punctata Gris. Flor. W. I. (1860) 240.

St. Martin: Top of Nakedboyhill: n. 2715 B.

Florida, Antill. (Urban 1895).

Eugenia Jambos Linn. Spec. (1753) 470.

Jambosa vulgaris DC. Prodr. III (1828) 286; Gris. Fl. 235; Duss 274.

Jambosa Jambos Millspaugh 515. Plum rose.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 644 B., 26; locality unknown: n. 103 H.

Saba: Crespeen—Rendez-vous 400 M.: n. 27; locality unknown: n. 109 L., 321 L.

I also saw *Eugenia Jambos*: Bottom; Laddergut.

St. Martin: Mount Paradis 300—400 M.: n. 3347 B.

St. Croix ex Millspaugh.

Indig. in Asia austro-orient. and Australia. (Urban 1895).

Also cultivated.

Eugenia ligustrina Willd. Spec. II (1800) 962; Gris. Fl. 239; Duss 268; Millspaugh 514. Blackberry, Blackcherry.

St. Eustatius: deserted plantations near Tumbledown dickbay: n. 148 B.; slope of the Quill 350 M.: n. 392 B.; top of the Quill 500 M.: n. 473 B., 497 B.; hill near Concordia 100 M.: n. 952 B.; from Little Mountain to Venusbay: n. 986 B., 992 B.; slope of Signalhill: n. 28; Quill: n. 29; Venusbay: n. 30; top of the Quill: n. 31, 32; locality unknown: n. 109 H.

St. Martin: from Philipsburg to Guanabay: n. 2411 B.; Prince quarter (coll. George): n. 2484 B.; from Philipsburg to Belvedere: n. 2584 B.; Cul de Sac: n. 2607 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2946 B., 2952 B.; Milldrumhill 300—400 M.: n. 3137 B.; Lowlands: n. 3280 B.; near Fort Amsterdam: n. 36; Vineyardhill: n. 33, 35; Prince quarter: n. 34; Guanabay: n. 34 b.

St. Croix ex Millspaugh.

Baham., Antill., Brazil. (Urban 1895).

Eugenia monticola DC. Prodr. III (1828) 275.

Eugenia Poirerii Berg. in Linnaea XXVII (1856) 186 (excl. syn. Cand., Poir., Spreng.); Gris. Fl. 236; (ex descr.).

Eugenia obtusata Willd. ex Berg. in Linnaea XXVII (1856) 240; Gris. Fl. 237; (ex descr.).

Eugenia buxifolia Gris. Flor. W. I. (1850) 236; (excl. syn.), — non Willd.

Eugenia pallens Gris. Flor. W. I. (1860) 237; (specim. Guad.), — non DC. (Symb.). Duss 269; Millspaugh 515. Birdsberry.

St. Martin: Philipsburg near the Saltpond: n. 2365 B.; Naked-boyhill 200 M.: n. 2585 B.; Marigothill: n. 2609 B.; near Simsons-baylagoon: n. 2745 B.; near Mulletpond: n. 2768 B.; hill between Mont des Accords and Centryhill: n. 2863 B.; near Oysterpond: n. 3073 B.; Milldrumhill: n. 3116 B.; Mount Paradis: n. 3220 B., 3330 B.; Lowlands: n. 3283 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham. (Hitchc.); Antill. (Urban 1899).

Eugenia procera Poir. in Lam. Enc. Suppl. III (1813) 129; Gris. Fl. 238; Millspaugh 515. Bastard black-berry.

St. Eustatius: deserted plantations near Tumbledown dickbay: n. 149 B.; Signallhill 200 M.: n. 1037 B.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1356 B.; Springbaygut: n. 2098 B.; Peperpot: n. 38.

St. Martin: along roads from Grande Case to Marigot; n. 3100 B.; Mount Paradis 300—400 M.: n. 3321 B.; Colebayhill: n. 37.

St. Croix ex Millspaugh.

Cuba, Jamaica, Haiti, St. Domingo, Portorico, St. Thomas, St. Jan, Antigua, Martinique, Barbados. (Urban 1895).

Eugenia rhombea Kr. et Urb. in Urban. Additamenta ad Cognitionem Florae Ind. Occid. III (1895) 665.

St. Eustatius: Seinpost: n. 39; Wittehoek: n. 40.

Florida, Key West, Baham., Antill. (Urban 1895).

Eugenia uniflora Linn. Spec. (1753) 470; Gris. Fl. 239. Honey-berry, Surinaam cherries.

St. Eustatius: Slope of the lower part of Signalhill: n. 117 B.; deserted plantations near Tumbledown dickbay: n. 143 B.; top of the Quill 400 M.: n. 172 B., 177 B., 326 B.; in a garden in Oranje-stad: n. 861 B., 55a B., 76 H.

Saba: lower part of the Bottom Mountain 250 M.: n. 1424 B.; Crispeen 400 M.: n. 1720 B.; locality unknown: n. 70 L.

St. Croix ex Millspaugh.

Florida, Antill. (Urban 1895).

223. Melastomataceae.

5633. **Tibouchina** Aubl.

Tibouchina strigosa Cogn. in Monogr. Phan. VII. (1891) 266.

Chaetogastra strigosa DC. Prod. III (1818) 134; Gris. Fl. 266.

Chaetogastra chironioides Gris. Flor. W. I. (1860) 267 (p. p.); Duss 288.

Tibouchina ornata Baill. Adansonia XII (1877) 74.

Saba: Top of the Mountain 800 M.: n. 18.

Antill., British Guiana. (Cogniaux 1891).

5749. **Charianthus** D. Don.

Charianthus crinitus Naud. in Ann. Sc. Nat. Sér. 3. XVIII (1852) III; Gris. Fl. 264.

Charianthus nodosus Triana Melastom. in Trans. Linn. Soc. XXVIII (1871) 99, var *crinitus* Naud; Duss 286.

Saba: Mountain 600—800 M.: n. 1784 B.; 187 L., 197 L., 203 L. 1, 2, 3.

Antill. (Cogniaux 1891).

5758. **Tetrazygia** Rich.

Tetrazygia discolor DC. Prod. III (1828) 172; Gris. Fl. 255; Duss 280.

St. Eustatius: Top of the Quill: n. 16, 17.

Saba: lower part of the Bottom Mountain 300 M.: n. 1436 B.; between Bottom and Marypoint 100—200 M.: n. 1551 B.; Gainbygut: n. 14, 15.

Antill., French Guiana (Cogniaux 1891).

5759. **Miconia** Ruiz. et Pav.

Miconia impetiolepis D. Don. in Mem. Wern. Soc. IV (1823) 316; Gris. Fl. 256; Duss 284; Millspaugh 516.

St. Eustatius: Top of the Quill 400 M.: n. 310 B.; Bottom of the Quill 300 M.: n. 469 B.

St. Croix ex Millspaugh.

Antill., Bolivia, Panama, Costarica, Honduras, Guatamala, Mexico. (Cogniaux 1891).

Miconia laevigata DC. Prod. III (1828) 188; Gris. Fl. 257; Duss 281; Millspaugh 516.

St. Eustatius: Top of the Quill 400 M.: n. 208 B., 262 B., 338 B., 344 B., 506 B.; slope of the Quill 350 M.: n. 388 B.; Bottom of the Quill 300 M.: n. 452 B.; slope of the Quill near Bengalen 200 M.: n. 742 B.; slope of the Quill: n. 9, 10, 11.

Saba: lower part of the Bottom Mountain 250 M.: n. 1406 B.; Windwardside—Hellsgate: n. 1682 B., 1683 B.; Mountain 800 M.: n. 1825a B., 2216 B.; Springbaygut: n. 2119 B.; Peperpot: n. 8;

Mountain: n. 5; Crespeen--Rendez-vous 400 M.: n. 6, 7; locality unknown: n. 41 L., 216 L., 306 L.

St. Martin: Top of the hill on the northern side of Cul de Sac 200--300 M.: n. 3006 B.; along roads from Grande Case to Marigot: n. 3100a B.; Milldrumhill: n. 3180 B.; Mount Paradis 300--400 M.: n. 3208 B., 3341 B.

St. Croix ex Millspaugh.

Antill., Mexico, Guatamala, Costarica, Venezuela, Surinam, Guian., Brazil. (Cogniaux 1895).

227. Araliaceae.

5883. **Panax** Linn.

Panax fruticosum Linn. Spec. (1763) 1513.

Cultivated. [Asia trop., Malaya, Polynes.] (Ind. Kew.).

228. Umbelliferae.

5923. **Eryngium** Linn.

Eryngium foetidum Linn. Spec. (1753) 232; Gris. Fl. 308; Duss 324.

Saba: between Bottom and Marypoint 100--200 M.: n. 1537 B.; Mountain near Windwardside 600 M.: n. 2176 B.; locality unknown: n. 37 L.

St. Martin: Top of the hill on the northern side of Cul de Sac 200--300 M.: n. 2985 B.; Mount Paradis 200--400 M.: n. 3205 B.

Antill., Cuba and Panama to Nova Granata and Brazil. (Gris. Fl.).

6062. **Foeniculum** Adans.

Foeniculum vulgare Mill. Gard. Dict. ed. VIII (1768) n. 1.

Cultivated. [Europa]. (Ind. Kew.).

235a. Theophrastaceae.

6282. **Jacquinia** Linn.

Jacquinia armillaris, Jacq. Enum. Pl. Carib. (1760) 15; Gris. Fl. 397; Duss 383; Millspaugh 517. Picrous bark.

St. Eustatius: White Wall: n. 807 B.; hill near Concordia: n. 953 B.; seashore near Venusbay: 969 B., 284, 285.

St. Martin: from Filipsburg to Guanabay: 2418 B.; Prince quarter (coll. George): n. 2508 B.; near Mulletpond: n. 2774 B.; Mountain between Mont des Accords and Centryhill: n. 2908 B.; between Mount Vernon and Orientbay: n. 2929 B.; from Belvedere to

Oysterpond: n. 3061 B.; Mount Paradis 200—300 M.: n. 3304 B.; near Colebayhill: n. 65, 137; Prince quarter: n. 606; Guanabay: n. 63, 192.

St. Croix ex Millspaugh.

Cuba, Jamaica, St. Domingo, Portorico, St. Thomas, St. Jan, St. Barthélemy, Montserrat, Guadeloupe, Dominica, St. Vincent, Mustique, Cannouan, Barbados, Grenada, Tobago, Curaçao, Bonaire. (Symb.).

Jacquinia Berteri Spreng. Syst. I (1825) 668.

St. Martin: near Mulletpond: n. 2781 B.; Lowlands: n. 3283a B.

Anguilla Boldingh.

Baham., Antill. (Symb.).

236. Myrsinaceae.

6285. **Ardisia** Swartz.

Ardisia coriacea Sw. Prod. (1788) 48; Millspaugh 517.

Ardisia guadalupensis Duchass. et Walp. apud Gris. Flor. W. I. (1861) 396; Duss 382. Bastard cinnamom.

St. Eustatius: Top of the Quill 400 M.: n. 196 B., 244 B., 399 B., 44; locality unknown: n. 30, 45.

Saba: Hellsgate: n. 1704 B.; gut between Masticgut and Hellsgate 300—400 M.: n. 2032 B.; Jenkygut: n. 46; Hellsgate: n. 43; locality unknown: n. 76 L., 183 L.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Jan, Tortola, Guadeloupe, Dominica, Martinique, St. Lucia. (Symb.).

6314. **Rapanea** Aubl.

Rapanea ferruginea Mez in Symbolae Antillanae II (1901) 429.

Myrsine laeta Gris. Flor. W. I. (1861) 392:

Saba: Top of the Mountain 800 M.: n. 1836a B.; Rendez-vous Mountain 600 M.: n. 2150a B.; Mountain near Hellsgate: n. 2278 B. Antill. Amer. trop. from Mexico to Bolivia. (Symb.).

238. Plumbaginaceae.

6342. **Plumbago** Linn.

Plumbago capensis Thunb. Prod. I Pl. Cap. (1794) 33. Quakerblossom.

Cultivated. [Afr. australis]. (Ind. Kew.).

Plumbago scandens Linn. Spec. (1762) 215; Gris. Fl. 390; Duss 380; Millspaugh 517. Blisterbush.

St. Eustatius: Seashore near Oranjestad: n. 13 B., 42 B.; along roads in Oranjestad: n. 561 B.; in deserted plantations at the seashore near Bengalen: n. 592 B.; gut near Fort de Wind: n. 845 B.; Cultuurvlakte: 354; locality unknown: n. 31 H., 35 G.

I also saw *Plumbago scandens*: along the lower part of Signalhill; top of Signalhill.

Saba: Bottom: n. 1852 B.; Laddergut 200 M.: n. 1995a B.; Peperpot: n. 149, 356; Ladder: n. 352; locality unknown: n. 319 L.

I also saw *Plumbago scandens*: Forthbaygut.

St. Martin: along roads in Prince quarter: n. 2933 B.

St. Croix ex Millspaugh.

Antill., Mexico to Brazil and Chili, Galapagos. (Gris. Fl.).

239. Sapotaceae.

6361. **Achras** Linn.

Achras sapota Linn. Syst. X ed. II (1759) 988; Millspaugh 517.

Sapota Achras Mill. Gard. Dict. VIII ed. (1768) n. 1; Gris. Fl. 399; Duss 385. Mispel, Sapodille.

St. Eustatius: lower part of Signalhill: n. 115 B.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao from Mexico to Guiana. (Symb.).

Also cultivated.

6363. **Lucuma** A. DC.

Lucuma multiflora A. DC. Prodr. VIII (1844) 168.

Saba: near Hellsgate: n. 1675 B.; Windwardside: n. 2313 B.

St. Croix. (Symb.).

Portorico, St. Thomas, St. Kitts, Montserrat, Guadeloupe, Martinique, St. Lucia, St. Vincent, Grenada, Trinidad. (Symb.).

6368. **Sideroxylon** Linn.

Sideroxylon foetidissimum Jacq. Enum. (1760) 15.

Sideroxylon mastichodendron Jacq. Coll. II (1788) p. 253 t. 17 f. 5; Gris. Fl. 399; Duss 386; Millspaugh 518. Mastictree.

Saba: Hellsgate: n. 2049 B.; Masticgut: n. 46; Jenkygut: n. 40.

St. Croix ex Millspaugh.

Florida, Key, Baham., Antill. (Symb.).

6373. **Dipholis** A. DC.

Dipholis salicifolia A. DC. Prodr. VIII (1844) 188; Gris. Fl. 401; Duss 388; Millspaugh 518.

St. Eustatius: Slope of the Quill on the side of White Wall 200 M.: n. 1168 B.

St. Croix ex Millspaugh.

Florida, Key, Baham., Antill., Yucatan. (Symb.).

6374. **Bumelia** Sw.

Bumelia obovata A. DC. Prodr. VIII (1844) 191.

Bumelia cuneata Sw. Flor. I (1797) 496; Gris. Fl. 401; Duss 613; Millspaugh 517.

St. Eustatius: from Little Mountain to Venusbay: 985 B.; locality unknown: n. 338 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1535 B.

St. Martin: near Mulletpond: n. 2765 B.; at the seashore of Simonsbay: n. 3035 B.; Colebayhill: n. 49.

St. Croix ex Millspaugh.

Jamaica, St. Domingo, Portorico, St. Thomas, Tortola, St. Barthélemy, Antigua, Montserrat, Guadeloupe, Desirade, Martinique, St. Lucia, (Symb.).

6377. **Chrysophyllum** Linn.

Chrysophyllum argenteum Jacq. Enum. (1760) 15; Duss 385.

Chrysophyllum glabrum Jacq. Enum. (1760) 15; Gris. Fl. 398; Duss 385.

Saba: Gut near Devilshand: n. 2115 B.

Cuba, Haiti, St. Domingo, Portorico, Antigua, Montserrat, Guadeloupe, Marie-Galante, Dominica, Martinique, St. Vincent, Barbados, Grenada, Trinidad. (Symb.).

242. Symplocaceae,6418. **Symplocos.** Jacq.

Symplocos martinicensis Jacq. Enum. Pl. Carib. (1760) 24; Gris. Fl. 403; Duss 389. Blue berry.

St. Eustatius: Top of the Quill 400 M.: n. 297 B.; top of the Quill 500 M.: n. 474 B.; locality unknown: n. 126, 127, 128, 129.

Saba: Mountain near Windwardside 600 M.: n. 2152 B. 2185 B.

Portorico, St. Thomas, St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, Grenada, Trinidad. (Brand 1901).

243. Oleaceae.

6427. **Forestiera** Poir.

Forestiera Eggersiana Kr. et Urb. in Bot. Jahrb. XV (1893) 339.

St. Martin: Prince quarter: n. 1, 2.

St. Thomas. (Urban 1893).

6428. **Linociera** Swartz.

Linociera compacta R. Br. Prod. (1810) 523; Gris. Fl. 405. Bridgo tree.

Mayepea caribaea O. Ktze Rev. Gen. (1891) 411; Duss 391; Millspaugh 518.

St. Eustatius: Top of the Quill 400 M.: n. 181 B., 261 B., 301 B., 343 B., 352 B.; slope of the Quill near Bengalen 250 M.: n. 700 B.; slope of the Quill near Glassbottle 150 M.: n. 1113 B., 1117 B.; Quill: n. 345; slope of the Quill: n. 343, 344; top of the Quill: n. 336, 337; locality unknown: n. 77 H., 169 G., 40.

I also saw *Linociera compacta*: Gilboohill.

Saba: lower part of the Bottom Mountain 250 M.: n. 1419 B., 1422 B; Jenkeygut: n. 340.

St. Martin: Milldrumhill: n. 3151 B.

St. Croix ex Millspaugh.

Antill., Guiana. (Urban 1893).

6440. **Jasminum** Linn.

Jasminum azoricum Linn. Spec. (1753) 7.

Cultivated. [Ins. Azor. and Madeira]. (E. a. P.).

Jasminum pubescens Willd. Sp. Pl. I (1798) 37.

Cultivated. [Asia trop.] (Ind. Kew.).

Jasminum undulatum Ker. Gawl. in Bot. Reg. t. 436. Orebian jessamine.

Cultivated. [Himalaya, China]. (Ind. Kew.).

245. Loganiaceae.

6453. **Spigelia** Linn.

Spigelia Anthelmia Linn. Spec. (1753) 149; Gris. Fl. 331; Duss 336.

St. Eustatius: I saw *Spigelia Anthelmia* at Bengalen.

Saba: lower part of the Bottom Mountain 300 M.: n. 1427 B.; between Bottom and Marypoint 100—200 M.: n. 1522 B., 1529 B.; gut between Hellsgate and Masticgut: 300—400 M.: n. 2050 B.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2876 B.

Anguilla Boldingh.

Antill., Amer. austral. (E. a. P.).

246. Gentianaceae.

6541. **Leiphaimos** Cham. et Schlecht.

Leiphaimos aphylla Gilg in Engl. u. Prantl. Nat. Pfl. fam. IV. 2. (1895) 104.

Voyria uniflora Pers. Syn. I (1805) 284; Gris. Fl. 425; Duss 402.

Voyria aphylla Pers. Syn. I (1805) 284.

St. Eustatius: Top of the Quill 400 M.: n. 296 B.; 450 M.: n. 365 B., 402 B.; top of the Quill: n. 40.

Saba: Mountain 800 M.: n. 1831 B., 2226 B.

Antill., Guiana, Brazil. (E. a. P.).

247. Apocynaceae.

6560. **Allamanda** Linn.

Allamanda cathartica Linn. Mant. II (1771) 214. Yellow bell. Cultivated. [Antill., Amer. centr. Brazil.] (E. a. P.)

6578. **Plumiera** Linn.

Plumiera alba Linn. Spec. (1753) 210; Gris. Fl. 411; Duss 395; Millspaugh 518. White frangepane, Pigeonwood.

St. Eustatius: in a garden in Oranjestad: n. 49 H., 67 G.

Saba: along roads between Bottom and Windwarside 200 M.: n. 1354 B.

St. Martin: from Philipsburg to Guanabay: n. 2374 B.; Princequarter (coll. George): n. 2464 B.; Fort Willem: n. 2534 B.; near Fort Amsterdam: n. 237, 238.

I also saw *Plumiera alba*: along roads from Philipsburg to Simonsbay; from Belvedere to Oysterpond; lower part of Milldrumhill; Lowlands; Tintamarre; gut from Bethlehem to Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Portorico, St. Thomas, Guadeloupe, Martinique, St. Lucia, Grenada. (Herb. Krug et Urban).

Plumiera rubra Linn. Spec. (1753) 209. Red frange-pane.
Cultivated. [Mexico and Venezuela]. (E. a. P.).

6597. **Lochnera** Reichb.

Lochnera rosea Reichb. Comp. (1828) 134.

Vinca rosea Linn. Syst. ed. X (1759) 944; Gris. Fl. 410; Duss 395; Millspaugh 519. Churchyard blossom.

St. Eustatius: Seashore near Oranjestad: n. 36 B.; along roads in Oranjestad: n. 571 B.; slope of the Quill: n. 252; in a garden, n. 38; locality unknown: n. 22 G., 60 H., 330 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1349 B.; Springbaygut: n. 2104 B.; seashore near Forthbayland: n. 2146 B.; Ladder: n. 254; locality unknown: n. 74 L., 90 L.

St. Martin: along the saltpond near Philipsburg: n. 2440 B.; Colebay (coll. George): n. 2510 B.

I also saw *Lochnera rosea*: along roads near Bethlehem; along roads near Grande Case.

St. Croix ex Millspaugh.

In all trop. countries. (E. a. P.).

6603. **Tabernaemontana** Linn.

Tabernaemontana citrifolia Jacq. Sel. Am. St. Hist. (1763) t. 175 f. 13. p. 38; Gris. Fl. 409; Duss 395. Milky tree.

St. Eustatius: Top of the Quill 400 M.: n. 234 B.; inner slope of the Quill 350 M.: n. 464 B.; in a garden in Oranjestad: n. 527 B.; slope of the Quill 300 M.: n. 886 B.; slope of the Quill near Glassbottle: n. 1207 B.; top of the Quill: n. 244, 245, 246.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1357 B.; Windwardside—Hellsgate: n. 1676 B.; Springbaygut: n. 2121 B.; Crispeen—Rendez-vous 400 M.: n. 241; Hellsgategut: n. 243; Marypointgut: n. 242.

St. Martin: near Bethlehem: n. 2671 B.; Mountain between Mont des Accords and Centryhill 0—200 M.: n. 2867 B.; Mount Paradis 300—400 M.: n. 3213 B., 3325 B.

Antill., Mexico. (Gris. Fl.).

Tabernaemontana coronaria Willd. Enum. Hort. Berol. (1809) 275.
Cultivated. [India orient.] (Ind. Kew.).

Tabernaemontana Cumingiana A. DC. Prod. VIII (1844) 373.
Cultivated. [Ins. Philipp.] (Ind. Kew.).

6619. **Rauwolfia** Linn.

Rauwolfia Lamarkii DC. Prod. VIII. (1844) 337; Gris. Fl. 408; Duss 393; Millspaugh 519. Snakeberry tree, Billy ache, Antigua balsam.

St. Eustatius: Top of the Quill 500 M.: n. 480 B.; slope of the Quill near Bengalen 50—200 M.: n. 647 B., 739 B.; gut near Fort de Wind 50 M.: n. 840 B.; along roads in Oranjestad: n. 935 B., 1069 B.; near Boven: 200 M.: n. 1235 B., 240; slope of the Quill 200 M.: n. 239; near Roundhill: n. 37; locality unknown: n. 27, 237 G., 203 H.

Saba: between Bottom and Marypoint 300 M.: n. 1468 B.; locality unknown: n. 270 L.

St. Martin: from Philipsburg to Guanabay: n. 2361 B.; Fort Willem 50 M.: n. 2541 B.; Nakedboyhill 50—200 M.: n. 2684 B.; in pastureground near Bellevue: n. 2812a B., 2825 B.; lower part of Milldrumhill: n. 3164 B.

I also saw *Rauwolfia Lamarkii*: along roads from Philipsburg to Nakedboyhill; near Saline; in pasture ground near Belvedere; Lowlands; Mount Paradis 100—200 M.; Tintamarre.

St. Croix ex Millspaugh.
Antill., Equador. (Gris. Fl.).

6632. **Thevetia** Adans.

Thevetia neriifolia Juss. ex Steud. Nom. Ed. II. II (1841) 680.
Cultivated. [Antill. and Mexico to Brazil.] (E. a. P.).

6661. **Urechites** Müll.—Arg.

Urechites suberecta Müll.—Arg. in *Linnaea* XXX (1859-60) 444.
Echites suberecta Jacq. Enum. Pl. Carib. (1760) 13; Gris. Fl. 415; Millspaugh 518. Bitterpot.

St. Eustatius: on the top of the Cliff between Oranjestad and Fort de Wind: n. 759 B., 776 B.; Signalhill 200 M.: n. 1045 B.; Cultuurvlakte: n. 248; near Brookswell: n. 247; near Sugarloaf: n. 249; locality unknown: n. 184 H.

Saba: lower part of the Bottom Mountain 250 M.: n. 1395 B.

St. Martin: Fort Willem 50 M.; n. 2549 B.; near Fort Amsterdam: n. 250.

I also saw *Urechites suberecta*: Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Kitts.
(Herb. Krug et Urban).

6687. **Nerium** Linn.

Nerium Oleander Linn. Spec. (1753) 209. Oleander.

Cultivated. [From Portugal to Mesopotamia]. (E. a. P.).

248. Asclepiadaceae.

6736. **Cryptostegia** R. Br.

Cryptostegia grandiflora R. Br. in Bot. Reg. t. 435 (1819).

Cultivated. [Patria ignot.] (Symb.).

6791. **Asclepias** Linn.

Asclepias nivea Linn. Spec. (1753) 215; Gris. Fl. 419.

Asclepias Curassavica Linn. Spec. (1753) 215; Gris. Fl. 419;
Duss 398; Millspaugh 519. Ipecacuanha.

St. Eustatius: Locality unknown: n. 1 H., 134 G.; slope of the
Quill: n. 52, 222, 223.

Saba: between Bottom and Marypoint 100—200 M.: n. 1517a B.;
Paris 200—400 M.: n. 221; locality unknown: n. 160 L.

St. Martin: Milldrumhill 200—300 M.: n. 3120 B.; Mount
Paradis 300—400 M.: n. 3329 B.; Mary's Fancy: n. 220.

St. Croix ex Millspaugh.

Baham., Antill.; widely dispersed in both hemisph. (Symb.).

6792. **Calotropis** R. Br.

Calotropis procera R. Br. in Ait. Hort. Kew. Ed. 2 (1811) II
78; Gris. Fl. 420; Duss 399; Millspaugh 519. Liberty tree,
Sprain leaf.

St. Eustatius: Top of the Quill 500 M.: n. 475 B.; in deserted
plantations near English Quarter: n. 998 B.; locality unknown:
n. 43 H., 54 G.

Saba: along the seashore near Forthbaylanding: n. 1646 B.;
locality unknown: n. 113 L.

I also saw *Calotropis procera*: Flat Point.

St. Martin: near Simonsbayvillage: n. 3255 B.; locality un-
known: n. 3610 B.

I also saw *Calotropis procera*: on Mount Paradis 100—200 M.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Indig. in Africa sept. and Ind. Orient. (Symb.).

6798. **Metastelma** R. Br.

Metastelma parviflorum R. Br. in Wern. Soc. I (1809) 52; Duss 398.

Metastelma Paralias Dene in DC. Prodr. VIII (1844) 514; Gris. Fl. 417.

Metastelma Schlechtendalii Gris. Flor. W. I. (1861) 417; (nec Dene); (Symb.); Millspaugh 519.

St. Martin: juxta salinas prope Filipsbourg, Febr. 1821: Pleé; (Symb.).

Lowlands: n. 3267a B.

Baham. (Hitche.); Antill. (Symb.).

6907. **Hoya** R. Br.

Hoya carnosia R. Br. in Mém. Wern. I (1809) 27.

Cultivated. [Ins. Malay.] (Symb.).

6938. **Ibatia** Dene.

Ibatia maritima Dene. in DC. Prodr. VIII (1844) 599; Millspaugh 519.

Ibatia muricata Gris. Flor. W. I. (1861) 421; Duss 400.

Lachnostoma maritimum Nichols. Dict. Gardn. II 236. Maria-pompoen.

St. Eustatius: Bengalen: n. 634 B.; near Boven 200 M.: n. 1232 B.; locality unknown: n. 225 H., 277 G.

St. Martin: from Filipsburg to Guanabay: n. 2400 B.; near Fort Willem 50 M.: n. 2789 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2861 B.

I also saw *Ibatia maritima*: Mount Paradis 100—200 M.

St. Croix ex Millspaugh.

Haiti, St. Domingo, St. Thomas, Antigua, Guadeloupe, Dominica, Martinique, St. Vincent. (Symb.).

249. Convolvulaceae.

6968. **Cuscuta** Linn.

Cuscuta americana Linn. Spec. (1753) 124; Gris. Fl. 476; Duss 443; Millspaugh 519. Love wine.

St. Eustatius: in deserted plantations at the seashore near Bengalen: 587 B.; Cultuurvlakte: n. 141; seashore: n. 140; locality unknown: n. 99 H., 186 G.

Saba: lower part of the Bottom Mountain 250 M.: n. 1413 B.; locality unknown: n. 106 L.

I also saw *Cuscuta americana* in Laddergut.

St. Martin: from Philipsburg to Guanabay: n. 2349 B.; from Philipsburg to Belvedere: n. 2578 B.; between Mont Chambord and the Saline: n. 2922 B.; Cul de Sac: n. 295.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Cuscuta umbellata H. B. et K. Nov. Gen. et Spec. III (1818) 121; Gris. Fl. 476.

Saba: near Vischvijver: n. 2922 B.

Jamaica, New Mexico to Brazil (Gris. Fl.).

6973. **Evolvulus** Linn.

Evolvulus argyraeus Choisy Conv. Rar. (1838) 153.

St. Martin: Tintamarre: n. 3371 B.

Equador. (Ind. Kew.).

Evolvulus glaber Spreng. Syst. I (1825) 862.

Evolvulus mucronatus Sw. ex Wikst. in Vet. Acad. Handl. Stockholm (1827) 61; Gris. Fl. 475; Millspaugh 520.

St. Martin: along roads from Bethlehem to Mont Chambord: n. 2916 B.; between Belvedere and Oysterpond: n. 3066 B.; near Fort Amsterdam: n. 150; locality unknown: n. 151.

St. Croix ex Millspaugh.

Baham., Antill., Portorico to Peru. (Gris. Fl.).

Evolvulus sericeus Sw. Prod. Veg. Ind. Occ. (1788) 55; Gris. Fl. 475; Duss 442.

Evolvulus incanus Pers. Syn. I (1805) 288.

St. Eustatius: Top of the Quill: n. 380 B.; top of the Cliff between Oranjestad and Fort de Wind: n. 760 B.; White Wall: n. 43.

St. Martin: along roads from Colebayhill to Simsonsbay: n. 3014 B.; Fort Willem: n. 2793a B.; Tintamarre: n. 3371 B.

Baham., Antill., Texas to Montevideo. (Gris. Fl.).

6986. **Porana** Burm.

Porana paniculata Roxb. Hort. Beng. (1814) 13. White coralita. Cultivated. [India orient. Malay.] (Ind. Kew.).

6991. **Jacquemontia** Choisy.

Jacquemontia pentantha G. Don. Gen. Syst. IV (1838) 283; Millspaugh 521.

Jacquemontia violacea Choisy in Mém. Soc. Phys. Genève. VIII 1. (1838) 61; Duss 442.

Convolvulus pentanthus Jacq. Coll. IV. 210; Gris. Fl. 474.

St. Eustatius: Seashore near White Wall: n. 852 B.; near Concordia: n. 948 B.; Gilboohill: n. 1119 B., 1128a B.; Little Mountain: n. 1163a B.; Golden Rock: n. 55; locality unknown: n. 222 H.

Saba: Boobyhill: n. 1576 B.

Portorico, Becquia, St. Thomas, Barbuda, Guadeloupe, Martinique, St. Vincent, Grenada, Barbados. (Herb. Krug et Urban).

6999. **Operculina** Silva.

Operculina ventricosa Peter in Engl. u. Prantl. Natürl. Pflanzenfam. IV. 3a. (1891) 32. Hoofd pijnblad.

Cultivated. [Antill.] (Herb. Krug et Urban).

7003. **Ipomoea** Linn.

Ipomoea arenaria Steud. Nom. Ed. II. 1. (1841) 815.

St. Martin: near Mulletpond: n. 2777 B.; Lowlands: n. 3264 B.

St. Croix (Herb. Krug et Urban).

Cuba, Portorico, St. Thomas. (Herb. Krug et Urban).

Ipomoea batatas. Poir. Encycl. VI (1804) 14. Sweet potatoes.

Cultivated. [Amer. centr.] (E. a. P.).

Ipomoea dissecta Pers. in Linn. Syst. ed. XIV (1797) 207 in nota; Fl. 467; Duss 435.

Ipomoea sinuata Orteg. Hort. Matr. Dec. (1800) 84; Millspaugh 520.

St. Eustatius: Slope of the Quill on the side of White Wall 200 M.: n. 1183 B.; Fairplay: n. 1, 3; locality unknown: n. 164 G.

Saba: Bottom: n. 4.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2628 B.; French frontier: n. 2; locality unknown: n. 3598 B.

St. Croix ex Millspaugh.

All trop. countries. (Gris. Fl.).

Ipomoea fastigiata Sweet. Hort. Brit. ed. I. (1823) 288; Gris. Fl. 468; Duss 436; Millspaugh 520. Wild potato wine.

St. Eustatius: Slope of the Quill near Bengalen 200 M.: n. 689 B.; slope of the Quill: n. 177; locality unknown: n. 220 H., 226 G., 270 G.

Saba: lower part of the Bottom Mountain 300 M.: n. 1445 B.; between Bottom and Marypoint 100—200 M.: n. 1464 B.; Mountain 600 M.: n. 1745 B.; Laddergut 0—200 M.: n. 2010 B.; Windward-side: n. 2281 B.; Crespeen—Rendez-vous: n. 179; Rendez-vous 400 M.: n. 178; locality unknown: n. 68 L., 218 L.

St. Martin: from Filipsburg to Guanabay: n. 2391 B.; along roads in Prince quarter: n. 2913 B.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Ipomoea Nil Roth. Catalect. Fasc. I (1797) 36; Gris. Fl. 473; Duss 441.

Pharbitis Nil Choisy in Mem. Soc. Phys. Genève. VI (1833) 441; Millspaugh 521.

Ipomoea hederacea Jacq. Coll. I (1786) 124.

St. Eustatius: inner slope of the Quill 350 M.: n. 458 B.

Saba: Slope of the Mountain near St. John's 300 M.: n. 1732 B.

St. Martin: Mount Paradis 100—200 M.: n. 3294 B.

St. Croix ex Millspaugh.

In warmer countries of both hemisph. (Hemsley 1884).

Ipomoea pentaphylla Jacq. Coll. II (1788) 297; Gris. Fl. 467; Duss 436; Millspaugh 520. Noyeaux.

St. Eustatius: Cultuurvlakte: n. 196; locality unknown: n. 19 H., 281 H.

I also saw *Ipomoea pentaphylla*: on the slope of the Cliff.

Saba: Locality unknown: n. 30 L., 363 L.

St. Croix ex Millspaugh.

Antill., Venezuela, Equador, Pacif. Isl., Asia trop. and Africa. (Gris. Fl.).

Ipomoea pes caprae Roth. Nov. Pl. Sp. (1821) 109; Gris. Fl. 470; Duss 438; Millspaugh 520.

Ipomoea biloba Forsk. Fl. Aegypt. Arab. (1775) 44. Sea wine.

St. Eustatius: Seashore near Oranjestad: n. 10 B., 32 B., 152 H.; seashore near White Wall: n. 857 B.; seashore: n. 162, 163.

I also saw *Ipomoea pes caprae*: Seashore near Tumbledowndickbay.

St. Martin: Guanabay: n. 2425 B.; near Fort Amsterdam: n. 164.

I also saw *Ipomoea pes caprae*: at Simonsbay. .

St. Croix ex Millspaugh.

In all trop. and subtrop. countries. (Hemsley 1884).

Ipomoea sphenophylla Urb. in Symbolae Antillanae V (1908) 474.

St. Eustatius: Signalhill: n. 1038 B.

St. Eustatius. (Symb.).

Ipomoea violacea Linn. Spec. (1753) 161.

St. Martin: Tintamarre: n. 3374 B.

Venezuela, Antill. (Herb. Krug et Urban).

7004. **Calonyction** Choisy.

Calonyction speciosum Choisy Conv. Or. (1834) 59.

Ipomoea bona nox Linn. Spec. (1762) 288; Gris. Fl. 466; Duss. 434; Millspaugh 520. Lilac bell.

St. Eustatius: Slope of the Quill: n. 165; locality unknown: n. 280 H.

St. Croix ex Millspaugh.

Amer. trop. (Ind. Kew.).

Calonyction tuba Colla. Nov. Spec. Calon. (1840) 15.

Ipomoea tuba G. Don. Gen. Syst. IV. (1838) 271; Gris. Fl. 467; Duss 434; Millspaugh 521.

Ipomoea grandiflora Lam. Tabl. Encyc. I (1791) 467.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 59 B.; seashore near Tumbledowndickbay: n. 163 B.

St. Croix ex Millspaugh.

Antill., Guiana. (Gris. Fl.).

7005. **Quamoclit** Moench.

Quamoclit vulgaris Choisy Mem. Soc. Phys. Genèv. VI (1833) 434.

Cultivated. [India orient.] (E. a. P.).

251. Hydrophyllaceae.

7037. **Hydrolea** Linn.

Hydrolea jamaicensis Raeusch. Nom. Ed. III (1797) 76.

Numa jamaicense Linn. Spec. ed. X (1759) 950; Gris. Fl. 477; Duss 444; Millspaugh 521.

St. Eustatius: near English Quarter: n. 1021 B.

St. Croix ex Millspaugh.

Bermud., Florida, Texas, Mexico, Antill. (Hemsley 1884).

252. Borraginaceae.

7038. **Cordia** Linn.

Cordia salvifolia Juss. in Poir. Encyc. VII (1806) 46; Gris. Fl. 480; Duss 447.

St. Eustatius: Little Mountain: n. 1141 B., 1154 B.; slope of the Quill above White Wall: n. 1173 B., 1176 B.

Saba: Hellsgate: n. 1686 B.; St. Giles quarter: n. 1861 B.; gut near Devilshand: n. 2088 B.

Guadeloupe, Martinique. (Herb. Krug et Urban).

Cordia Sebestena Linn. Spec. (1753) 190. Scarlet accordia.

Cultivated. [Baham., Antill., Cuba to Guiana and Nova Grana-
nata]. (Gris. Fl.).

Cordia sulcata DC. Prod. IX. (1845) 488; Gris. Fl. 480; Mill-
spaugh 522. Manjack.

St. Eustatius: Quill: n. 93.

Saba: between Bottom and Marypoint 300 M.: n. 1477 B.,
1495 B.; Windwardside: n. 1938 B.; Gainbygut 500 M.: n. 90, 91, 92.

St. Croix ex Millspaugh.

Antill., Cuba to French Islands. (Gris. Fl.).

Cordia tremula Gris. Flor. W. I. (1861) 479.

Saba: from the Sulphurmines to Marypoint: n. 2030a B.

Antigua, Martinique, St. Vincent, Grenada, Barbados, Tobago.
(Herb. Krug et Urban).

7042. **Beureria** Jacq.

Beureria succulenta Jacq. Enum. Pl. Carib. (1760) 14; Gris. Fl.
481; Duss 449.

Ehretia Bourreria Linn. Spec. (1762) 275; Millspaugh 522.
White chank.

Saba: Bottom: n. 1988 B.; from Sulphurmines to Marypoint:
n. 2031a B.; gut near Devilshand: n. 2093a B.; locality unknown:
n. 307 L.

St. Martin: Marigotroad near Marigot: n. 2805 B., 2807 B.;
lower part of the Milldrumhill: n. 3174 B.; Tintamarre: n. 3379 B.,
3380 B.; gut from Bethlehem to Cul de Sac 0—100 M.: n. 3413 B.;
Colebayhill: n. 63.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham. (Herb. Leiden.); Antill., Cuba to French Islands, Cu-
raçao. (Gris. Fl.).

7045. **Rochefortia** Swartz.

Rochefortia acanthophora Gris. Flor. W. I. (1861) 482; Mill-
spaugh 523.

St. Eustatius: Little Mountain: n. 1140a B.

St. Martin: Philipsburg near the saltponds: n. 2356*a* B.; Mount Paradis: n. 3244*a* B.

St. Domingo, Portorico, St. Jan. (Herb. Krug et Urban).

7051. **Tournefortia** Linn.

Tournefortia bicolor Sw. Prod. Veg. Ind. Occ. (1788) 40; Gris. Fl. 483; Duss 451.

Saba: Bottom: n. 2237 B.; Quarter: n. 147; Gainby gut: n. 146.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Tournefortia caribaea Gris. Flor. W. I. (1861) 484.

Saba: Hellsgate: n. 148, 149.

Dominica, Martinique, St. Vincent, Barbados. (Herb. Krug et Urban).

Tournefortia foetidissima Linn. Spec. (1753) 140; Gris. Fl. 483; Duss 450; Millspaugh 523.

St. Eustatius: Bottom of the Quill: 300 M.: n. 443.

Saba: lower part of the Bottom Mountain 300 M.: n. 1431 B.; Mountain 800 M.: n. 1810 B.; gut between Hellsgate and Mastic-gut 300—400 M.: n. 2030 B.; Gainbygut: n. 150, 151; locality unknown: n. 186 L.

St. Martin: Marigothill: n. 2649*a* B.; Marigotroad: n. 2806 B.; hill on the northern side of Cul de Sac: n. 2996 B.; Mount Paradis: n. 3317*a* B.; gut from Bethlehem to Cul de Sac: n. 3411 B.

St. Croix ex Millspaugh.

Hispaniola, Portorico, Dominica, Guadeloupe, Martinique. (Herb. Krug et Urban).

Tournefortia gnaphalodes R. Br. Prod. (1810) 496; Gris. Fl. 483; Duss 450; Millspaugh 523. White lavender, Sea purslane.

St. Eustatius: White Wall: n. 809 B.; Concordiabay: n. 154; seashore: n. 267 H.

Saba: Bay: n. 66.

St. Martin: Guanabay: n. 2426 B.; near Mulletpond: n. 2770 B.; near Fort Amsterdam: n. 152.

I also saw *Tournefortia gnaphalodes*: Green Key.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and throughout the West Indies. (Hemsley 1884).

Tournefortia hirsutissima Linn. Spec. (1753) 140; Gris. Fl. 483; Duss 450; Millspaugh 523.

St. Martin: Hill on the northern side of Cul de Sac 0—100 M.: n. 2976 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2990 B.; Mount Paradis 300—400 M.: n. 3330 B.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Tournefortia volubilis Linn. Spec. (1753) 140; Gris. Fl. 484; Duss 451; Millspaugh 523.

St. Eustatius: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 762 B., 788 B.; near Maryglory 150 M.: n. 1144 B.

St. Martin: from Filipsburg to Belvedere: n. 2565 B., 2566a B.; near Fort Willem: n. 2791 B.; from Belvedere to Oysterpond: n. 3064 B.; Tintamarre: n. 3381 B.; locality unknown: n. 164, 165.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Venezuela to Brazil. (Gris. Fl.).

7052. **Heliotropium** Linn.

Heliotropium curassavicum Linn. Spec. (1753) 130; Gris. Fl. 486; Duss 453; Millspaugh 523. Sealavendel.

St. Eustatius: Seashore near Oranjestad: n. 9 B.; seashore near Tumbledown Dickbay: n. 166 B.; Signalhill: n. 1055 B.; seashore near Fairplay: n. 97.

St. Martin: Guanabay: n. 2422 B.; near Fort Amsterdam: n. 59.

I also saw *Heliotropium curassavicum*: at Simonsbayvillage; Oysterpond.

St. Croix ex Millspaugh.

Amer. trop. and subtrop., Marokko, the Cape, Australia. (E. a. P.).

Heliotropium indicum Linn. Spec. (1753) 130; Gris. Fl. 485; Duss 452; Millspaugh 523. Eye bright.

St. Eustatius: Bengalen: n. 631 B.; along roads near Glass-bottle: n. 887 B.; slope of the Quill: n. 115; English Quarter: n. 119; locality unknown: n. 14 H., 15 G.

Saba: Crispeen 400 M.: n. 1726 B.

St. Martin: near Bethlehem: n. 2672 B.; between Mount Ver-non and Orientbay: n. 2941 B.; Mary's Fancy: n. 74; locality unknown: n. 73.

I also saw *Heliotropium indicum*: Mount Paradis.

St. Croix ex Millspaugh.

All trop. countries. (E. a. P.).

Heliotropium microphyllum Sw. ex Wikstr. in Vet. Acad. Handl. Stockh. (1827) 58; Gris. Fl. 486.

St. Martin: in deserted plantations near Simonsbayshore: n. 3034 B.; Tintamarre: n. 3372 B.

Anguilla Boldingh.

Antigua, Guadeloupe. (Herb. Krug et Urban). Baham. (Hitche.).

Heliotropium parviflorum Linn. Mant. II (1771) 201; Gris. Fl. 485; Duss 452; Millspaugh 523. Eyebright.

St. Eustatius: in a garden in Oranjestad: n. 80 B.; along roads in Oranjestad: n. 517 B.; Bengalen: n. 622 B.; slope of the lower part of the Quill near Bengalen: n. 732 B.; slope of the Quill: n. 72; in a garden: n. 129; locality unknown: n. 7 G., 7 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1361 B.; Crispeen 400 M.: n. 1721 B.; Laddergut 0--200 M.: n. 1956 B.; Bottom: n. 130.

St. Martin: from Philipsburg to Guanabay: n. 2344 B.; Prièregut: n. 128.

I also saw *Heliotropium parviflorum*: on Nakedboyhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida and Texas to Peru and Brazil. (E. a. P.).

Heliotropium peruvianum Linn. Spec. (1762) 187.

Cultivated. [Peru]. (Ind. Kew.).

253. Verbenaceae.

7138. *Verbena* Linn.

Verbena chamaedrifolia Juss. in Ann. Mus. Par. VII (1806) 73. Lilac verbena.

Cultivated. [Argentin. and South Brazil.] (E. a. P.).

7144. *Lantana* Linn.

Lantana Camara Linn. Spec. (1753) 627; Gris. Fl. 495; Duss 463; Millspaugh 524. Sage.

St. Eustatius: Top of the Quill 400 M.: n. 209 B., 267 B.; near Maryglory 150 M.: n. 1159 B.; slope of the Quill on the side of

White Wall 200 M.: n. 1166 B.; Oranjestad: n. 165, 166; Cultuurvlakte: n. 167, 168, 169, 170; locality unknown: n. 171, 88 G., 110 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1293 B.; Greathill 400 M.: n. 1380 B.; along the Forthgut 150—200 M.: n. 1624 B.; Laddergut 200 M.: n. 2002 B.; Bottom: n. 2255 B.; Ladder: n. 172; Bottom: n. 173; locality unknown: n. 253 L.

St. Martin: from Filipsburg to Guanabay: n. 2364 B.; Princequarter (coll. George): n. 2472 B.; Fort Willem 0—50 M.: n. 2535 B.; from Filipsburg to Belvedere: n. 2564 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2881 B.; from Belvedere to Oysterpond: n. 3046 B., 3083 B.; along roads from Grande Case to Marigot: n. 3105 B.; Vineyardhill: n. 175; Guanabay: n. 174.

I also saw *Lantana Camara* on: Nakedboyhill; lower part of Milldrumhill; hills on the eastern side of Cul de Sac.

St. Croix ex Millspaugh.

In all warmer countries of America; also in the Old world. (Hemsley 1884).

Lantana involucrata Linn. Cent. Pl. II (1756) 22; Gris. Fl. 496; Duss 464; Millspaugh 524. Sage.

St. Eustatius: Seashore near Oranjestad: n. 14 B.; slope of the lower part of Signalhill: n. 101 B.; seashore near Tumbledown-dickbay: n. 160 B.; top of the Quill 400 M.: n. 218 B., 508 B.; along roads in Oranjestad: n. 580 B., 1100 B.; slope of the Quill near Bengalen 100 M.: n. 664 B., 670 B.; 200 M.: n. 739a B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 773 B., 779 B., 786 B.; slope of the Quill: n. 194, 195, 196; Cultuurvlakte: n. 197, 198; English Quarter: n. 199, 200; locality unknown: n. 56 H., 89 G.

Saba: along the Forthgut 150—200 M.: n. 1637 B.; Hellsgate—Marypoint: n. 2036 B.; Marypoint: n. 201.

St. Martin: Prince quarter (coll. George.): n. 2556 B., 2485 B.; Fort Willem 0—50 M.: n. 2538 B.; from Filipsburg to Belvedere: n. 2560 B.; shore of the Simonsbaylagoon near Cul Piquard: n. 2742 B.; near Mulletpond: n. 2761 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2882 B.; between Mount Vernon and Orientbay: n. 2930 B.; Mount Paradis 100—200 M.: n. 3353 B.; Green Key: n. 3363 B.; Tintamarre: n. 3399 B.; hills on the eastern side of Cul de Sac: n. 3440 B.; near Fort Amsterdam: n. 202; Colebayhill: n. 203; French frontier: n. 204, 212.

I also saw *Lautana involucrata*: on one of the Islands in Simonsbaylagoon.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and Antill., Mexico and northern part of Amer. austr. (Hemsley 1884).

7145. **Lippia** Linn.

Lippia reptans H. B. et K. Nov. Gen. et Sp. II (1817) 263; Gris. Fl. 495; Duss 462.

St. Martin: near Filipsburg: n. 2336 B.; from Filipsburg to Guanabay: n. 2419 B.; Guanabay: n. 186.

Anguilla Boldingh.

Antill., Mexico to Brazil. (Gris. Fl.).

7148. **Bouchea** Cham.

Bouchea Ehrenbergii Cham. in Linnaea VII (1832) 253; Gris. Fl. 493; Millspaugh 523. Vervine.

St. Eustatius: Locality unknown: n. 299 G., 228 H.

Saba: Windwardside: n. 1922 B.

St. Croix ex Millspaugh.

Amer. and Afric. (E. a. P.).

7151. **Stachytarpheta** Vahl.

Stachytarpheta jamaicensis Vahl. Enum. I (1804) 206; Gris. Fl. 494; Duss 461.

Stachytarpheta indica Vahl. Enum. I (1804) 206.

Valerianoides jamaicensis Medic. Phil. Bot. I (1789) 177; Millspaugh 525. Purple wormbush.

St. Eustatius: in a garden in Oranjestad: n. 92 B.; Bengalen: n. 605 B.; slope of the Quill near Bengalen 150 M.; n. 685^a B.; White Wall: n. 817 B.; Cultuurvlakte: n. 227, 229; slope of the Quill: n. 228; locality unknown: n. 293 H., 305 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1331 B.; top of the Cliff near the seaside of Boobyhill: n. 1606 B.; Windwardside: n. 2323 B.; Ladder: n. 230; locality unknown: n. 346 L.

I also saw *Stachytarpheta jamaicensis*: Crispeen.

St. Martin: from Filipsburg to Belvedere: n. 2581 B.

I also saw *Stachytarpheta jamaicensis*: Margothill—Marigot; in pasture-ground near Bellevue; hill between Mont des Accords and Centryhill; lower part of the Milldrumhill; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico to Brazil.; also in Afr. trop. and Asia. (Hemsley 1884).

7153. **Priva** Adans.

Priva echinata Juss. in Ann. Mus. Par. VII (1806) 69; Gris. Fl. 493; Duss 461.

Priva lappulacea Pers. Syn. II (1807) 139; Millspaugh 524.

St. Eustatius: along roads in Oranjestad: n. 557 B.; along roads near Glassbottle: n. 873 B.; in a garden in Oranjestad: n. 1275 B.; Quill: n. 219; locality unknown: n. 220, 221, 222, 38 G.

Saba: Boobyhill: n. 1594 B.; Laddergut 0—200 M.: n. 2019 B., 223; Peperpot: n. 224; Bottom: n. 225, 226.

St. Martin: Marigotroad near Marigot: n. 2814 B.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico to Brazil. (Hemsley 1884).

7161. **Citharexylum** Mill.

Citharexylum quadrangulare Jacq. Enum. Pl. Carib. (1760) 26; Gris. Fl. 497; Duss 465; Millspaugh 524. Susannaberry.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 53 B.; seashore: n. 152; Quill: n. 153; top of the Quill 400 M.: n. 271 B., 641a B.; slope of the Quill near Bengalen: n. 746 B.; hills near Concordia: n. 984a B.; locality unknown: n. 107 H., 121 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1314 B.; between Bottom and Marypoint 100—200 M.: n. 1527 B.; Paris: n. 154; locality unknown: n. 182 L., 190 L., 336 L.

St. Martin: Prince quarter (coll. George): n. 2473a B.; from Philipsburg to Guanabay: n. 2385 B., 2409 B.; Marigotroad near Marigot: n. 2818 B.; Centryhill: n. 155.

St. Croix ex Millspaugh.

Antill., Guiana. (Gris. Fl.).

7162. **Duranta** Linn.

Duranta repens Linn. Spec. (1753) 637; Millspaugh 524.

Duranta Plumieri Jacq. Select. Am. (1763) 186 t. 176 f. 76; Gris. Fl. 498; Duss 465. Adonis.

St. Eustatius: in a garden in Oranjestad: n. 1058 B.; near Maryglory 150 M.: n. 1137 B., 1157 B.; locality unknown: n. 139 H., 298 G., 1013 B.

Saba: Springbaygut: n. 2095 B.; Windwardside: n. 2308 B.; locality unknown: n. 364 L.

St. Martin: Point Blanche (coll. George): n. 2488 B.; along roads from Grande Case to Marigot: n. 3097 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

From Bolivia and Brazil. to Mexico and the Antill. (E. a. P.).
Also cultivated.

7178. **Aegiphila** Jacq.

Aegiphila martinicensis Jacq. Obs. Bot. II (1767) 3; Gris. Fl. 500; Duss 466; Millspaugh 523. Bastard white root.

St. Eustatius: Slope of the Quill: n. 246; top of the Quill: n. 386a B., Quill: n. 894 B.; locality unknown: n. 137 H., 212.

St. Croix ex Millspaugh.

Antill., Cuba and Panama to Guiana. (Gris. Fl.).

7191. **Clerodendron** Linn.

Clerodendron aculeatum Gris. Flor. W. I. (1861) 500; Duss 467; Millspaugh 524. Hague bush.

St. Eustatius: Seashore near Oranjestad: n. 24 B., 60 B.; Bengalen: n. 637 B.; Cultuurvlakte: n. 158, 159, 161; Cliff near Oranjestad: n. 162; locality unknown: n. 95 G., 147 H., 226 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1351 B.

I also saw *Clerodendron aculeatum*: along Forthbaygut

St. Martin: Fort Willem 0—500 M.: n. 2547 B., 2792 B.; Fort Amsterdam: n. 160.

I also saw *Clerodendron aculeatum* near Mont Chambord.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Amer. trop. (E. a. P.).

Clerodendron fallax Lindl. Bot. Reg. (1844) t. 19.

Cultivated. [Java]. (Ind. Kew.).

Clerodendron fragrans Willd. Enum. Hort. Berol. (1809) 659.

Cultivated. [China]. (E. a. P.).

Clerodendron Thomsonae Balf. Edinb. New. Phil. Journ. N. S. XV (1862) 233.

Cultivated. [Afr. trop.] (Ind. Kew.).

7205. **Avicennia** Linn.

Avicennia nitida Jacq. Enum. Pl. Carib. (1760) 25; Gris. Fl. 502; Duss 470; Millspaugh 523. Saltpond tree.

St. Martin: Colebay (coll. George): n. 2498 B.; along roads from Bethlehem to Mont Chambord: n. 2911 B.; along Simonsbaylagoon near the village: n. 3026 B.; Oysterpond: n. 135; Prince quarter: n. 136.

I also saw *Avicennia nitida*: near Fort Amsterdam; one of the Islands in Simonsbaylagoon.

St. Croix ex Millspaugh.

Antill., Cuba to Brazil., Afr. trop. (Gris. Fl.).

254. **Labiatae.**7264. **Leonotis** R.Br.

Leonotis nepetaefolia R. Br. in Ait. Hort. Kew. ed. II. III. (1811) 409; Gris. Fl. 492; Duss 460; Millspaugh 525. Adonis abbot.

St. Eustatius: in a garden in Oranjestad: n. 93 B., 1105 B.; Bengalen: n. 621 B.; Cultuurvlakte: n. 56; locality unknown: n. 138 G., 172 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1300 B.; Ladder: n. 216; Bottom: n. 57; locality unknown: n. 247 L.

St. Martin: along roads near Philipsburg: n. 2529 B.

St. Croix ex Millspaugh.

Antill. to Brazil. Afr. and Asia trop. (Gris. Fl.)

7268. **Leucas** R. Br.

Leucas martinicensis R. Br. Prodr. (1810) 504; Gris. Fl. 491; Duss 459; Millspaugh 525.

Saba: Bottom: n. 61.

St. Martin: from Philipsburg to Guanabay: n. 2342 B.

St. Croix ex Millspaugh.

Antill., Haiti to Brazil., Afr. trop. to the Cape and East Indies. (Gris. Fl.).

7373. **Leonurus** Linn.

Leonurus sibiricus Linn. Spec. (1753) 584; Gris. Fl. 525; Duss 459; Millspaugh 525.

St. Eustatius: in a garden in Oranjestad: n. 94 B.; along roads near Glassbottle: n. 865 B.; n. 865 B.; seashore: n. 58; locality unknown: n. 136 G., 194 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1312 B.; Ladder: n. 60.

St. Martin: from Philipsburg to Belvedere: n. 2587 B.; Mount Paradis 300—400 M.: n. 3238 B.; Prince quarter: n. 214.

St. Croix ex Millspaugh.

Europa and Siberia and naturalised in many other countries. (Hemsley 1884).

7290. *Salvia* Linn.

Salvia occidentalis Sw. Prod. Veg. Ind. Occ. (1788) 14; Gris. Fl. 490; Duss 458; Millspaugh 526. Rabbit meat.

St. Eustatius: along roads in Oranjestad: n. 536 B.; Cultuurvlakte: n. 74, 75, 78; Quill: n. 76, 77; Oranjestad: n. 72, 73; locality unknown: n. 292 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1313 B.; between Bottom and Marypoint 300 M.: n. 1480 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2065 B.; Peperpot: n. 80; Crespeen—Rendez-vous 400 M.: n. 79; locality unknown: n. 35 L.

St. Martin: I saw *Salvia occidentalis*: hill between Mont des Accords and Centryhill; Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Bermud., Florida, Antill., and Mexico to Peru. (Hemsley 1884).

Salvia serotina Linn. Mant. I (1767) 25; Gris. Fl. 490; Millspaugh 526. Cat nip.

St. Eustatius: in a garden in Oranjestad: n. 95 B.; Cultuurvlakte n. 81; locality unknown: n. 33 H., 37 G.; along roads near Glassbottle: n. 868 B.

Saba: Seaside of Tentguthill 100 M.: n. 1652 B.; Springbaygut: n. 2103 B.; Bottom: n. 2257 B.; Greathill: n. 83; locality unknown: n. 35 L., 320 L.

St. Martin: along roads to Fort Willem: n. 2526 B.; Simsons-bayvillage: n. 2838 B.; near Fort Amsterdam: n. 84; Prince quarter: n. 82;

I also saw *Salvia serotina*: on a hill between Mont des Accords and Centryhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida austr. and throughout the West Indies.
(Hemsley 1884).

7342. **Hyptis** Jacq.

Hyptis pectinata Poit. in Ann. Mus. Par. VII (1806) 474 t. 30;
Gris. Fl. 489; Duss 457.

Mesosphaerum pectinalum O. Ktze. Rév. Gen. (1891); Mill-
spaugh 525. Holly stalk.

St. Eustatius: Bengalen: n. 628 B.; Cultuurvlakte: n. 42;
slope of the Quill: n. 43, 2010; locality unknown: n. 241 H.

Saba: between Bottom and Marypoint 300 M.: n. 1481 B.,
100—200 M.: n. 1536 B.; St. Giles: n. 1858 B.; gut between Hells-
gate and Masticgut 300—400 M.: n. 2052 B; Ladder n. 44; Gainby-
gut: n. 45.

I also saw *Hyptis pectinata* at Flat Point.

St. Martin: from Filipsburg to Belvedere: n. 2603 B.; hills on
the northern side of Cul de Sac 0—100 M.: n. 2980 B.; between
Belvedere and Oysterpond: n. 3088 B.; locality unknown: n.
3599 B.

St. Croix ex Millspaugh.

From Mexico to Brazil, and in the Old world. (E. a. P.).

7355. **Coleus** Lour.

Coleus amboinicus Lour. Fl. Cochinch. II (1790) 372; Gris. Fl.
487; Duss 455; Millspaugh 525.

Coleus aromaticus Benth. in Wall. Pl. As. Rar. II (1832) 16.
Stinging thyme.

St. Eustatius: on the road along the lower part of Signalhill:
n. 119 B., 1133 B., 37; Cultuurvlakte: n. 38.

Saba: lower part of the Bottom Mountain 250 M.: n. 1392 B.;
Laddergut 200 M.: n. 1994 B.; Peperpot: n. 39; Bottom: n. 2009;
locality unknown: n. 286 L.

St. Martin: along roads near Colebayhill: n. 3042 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Indig. in the East Indies. (Gris. Fl.).

Coleus scutellarioides Benth. in Wall. Pl. As. Rar. II (1832) 16.
Cultivated. [Malaya, Australia]. (Ind. Kew.).

7366. **Ocimum** Linn.**Ocimum basilicum** Linn. Spec. (1753) 597. Basil.

Cultivated. [Asia occid. and trop.] (Ind. Kew.).

Ocimum gratissimum Linn. Spec. (1753) 597.

Cultivated [India orient.] (Ind. Kew.).

Ocimum micranthum Willd. Enum. Hort. Berol. (1813) 630; Gris. Fl. 487; Duss 454; Millspaugh 525. Mosquito basil.**St. Eustatius**: White Wall: n. 805 B.; slope of the Quill 200 M.: n. 877 B.; in a garden in Oranjestad: n. 1271 B.; slope of the Quill: n. 62; locality unknown: n. 63, 64, 131 G., 233 G., 233a G., 296 H.**Saba**: Laddergut 0—200 M.: n. 2016 B.; Bottom: n. 2254 B.; locality unknown: n. 327 L.**St. Martin**: Cul de Sac: 2613 B.; Nakedboyhill 50—200 M., n. 2701 B.; Marigotroad near Marigot: n. 2816 B.; near Colebayhill: n. 66; Marigotroad: n. 65.**St. Croix** ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

256. Solanaceae.7379. **Lycium** Linn.**Lycium americanum** Jacq. Stirp. Am. (1763) 50.**St. Martin**: Guanabay: n. 2430 B., 2438 B.; near Fort Willem: n. 2790 B.; near Fort Amsterdam: n. 105, 106.**Anguilla** Boldingh.

Hispaniola, Cuba, St. Domingo. (Herb. Krug et Urban).

7381. **Acnistus** Schott.**Acnistus arborescens** Schlecht. in Linnaea VII (1832) 67; Gris. Fl. 435; Duss 410.**Saba**: along roads between Bottom and Windwardside 200 M.: n. 1297 B.; Rendez-vous 400 M.: n. 107, 108.

Antill., Mexico, Venezuela, Nova Granata, Brazil., Peru. (Gris. Fl.).

7401. **Physalis** Linn.**Physalis angulata** Linn. Spec. (1753) 183; Gris. Fl. 436; Duss 411; Millspaugh 527.**St. Eustatius**: Slope of the Quill: n. 206, 207.**St. Martin**: near Bethlehem: n. 2659 B.; between Belvedere and Oysterpond: n. 3065 B.

St. Croix ex Millspaugh.

Antill., from U. S. A. to Brazil., East Indies. (Gris. Fl.).

Physalis pubescens Linn. Spec. (1753) 183; Gris. Fl. 435; Millspaugh 527.

Saba: Bottom: n. 205; from Windwardside to Bottom: n. 2058a B.; gut near Bottom: n. 1430a B.

St. Martin: Marigotroad: n. 208.

St. Croix ex Millspaugh.

Amer. (natural. in other trop. countries). (Gris. Fl.).

7404. **Capsicum** Linn.

Capsicum ceratocarpum Fing. Monogr. (1832) 22.

Cultivated. (Patria ignot.).

Capsicum dulce Hort. ex Dun. in DC. Prod. XIII. I (1852) 428. Birdpepper.

Cultivated. [Trop countries]. (Ind. Kew.).

Capsicum frutescens Linn. Spec. (1753) 189; Gris. Fl. 436; Duss 411; Millspaugh 526.

St. Eustatius: Locality unknown: n. 51 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1336 B.; locality unknown: n. 7 L., 8 L.

St. Martin: lower part of the Milldrumhill: n. 3158 B.; Mount Paradis 300—400 M.: n. 3217 B.

St. Croix ex Millspaugh.

Trop. countries. (Gris. Fl.). Also cultivated.

7407. **Solanum** Linn.

Solanum aculeatissimum Jacq. Coll. I (1786) 100; Gris. Fl. 442; Millspaugh 527.

St. Eustatius: Locality unknown: n. 190 H., 263 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1309 B.; Bottom: n. 1855 B., 209; Windwardside: n. 1923 B.; locality unknown: n. 244 L.

St. Croix ex Millspaugh.

Widely spread in Amer. trop. and subtrop. (Hemsley 1884).

Solanum lanceaefolium Jacq. Coll. II (1788) 286; Gris. Fl. 440; Duss 414.

St. Eustatius: Top of the Quill 400 M.: n. 227 B., 268 B., 295 B.; slope of the Quill: n. 470a B.; top of the Quill 300 M.: n. 882 B.; Quill: n. 216.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1316 B., 1296 B.; Springbaygut: n. 2093 B.; Hellsgategut: n. 215; Crespeen—Rendez-vous: n. 129; Hellsgate: n. 218.

St. Martin: Mount Paradis 300—400: n. 3216 B.
Antill., Venezuela. (Gris. Fl.).

Solanum lycopersicum Linn. Spec. (1753) 185.

Lycopersicum esculentum Mill. Gard. Dict. ed. VIII (1768) n. 2; Gris. Fl. 436; Duss 412; Millspaugh 527. Tomato.

St. Eustatius: Seashore: n. 196; in a garden in Oranjestad: n. 96 H., 143 G., 227 H., 230 G.

Saba: Locality unknown: n. 145 L.

St. Croix ex Millspaugh.

Indig. in Amer. austral. (E. a. P.). Also cultivated.

Solanum Melongena Linn. Spec. (1753) 186. Boulanger.

Cultivated. (Patria ignota).

Solanum nigrum var. **nodiflorum**. Linn. Spec. (1753) 186.

Solanum nodiflorum Dunal Hist. Sol. (1813) 151; non Jacq.; Gris. Fl. 437; Duss 412.

Solanum nigrum nodiflorum A. Gray; Millspaugh 527. Wild pepper.

St. Eustatius: in a garden in Oranjestad: n. 81 B.; along roads in Oranjestad: n. 1078 B.; slope of the Quill near Glassbottle: n. 1202 B.; Cultuurvlakte: n. 75; slope of the Quill: n. 219; near Roundhill: n. 220; locality unknown: n. 282 G.

Saba: lower part of the Bottom Mountain 250 M.: n. 1400 α B.; Mountain 600 M.: n. 1779 B.; Windwardside: n. 1904 B.; Ladder-gut 0—200 M.: n. 1957 B.; Bottom: n. 2247 B.; Crespeen—Rendez-vous 400 M.: n. 222; locality unknown: n. 251 L.

St. Martin: Marigotroad near Marigot: n. 2804 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 2979 B., 2983 B., 2983 B.; Marigotroad: n. 76.

St. Croix ex Millspaugh.

All trop. countries. (Gris. Fl.).

Solanum racemosum Jacq. Enum. Pl. Carib. (1760) 15; Gris. Fl. 439; Duss 414; Millspaugh 527. Cankerberry.

St. Eustatius: Seashore near Oranjestad: n. 11 B.; slope of the lower part of Signalhill: n. 98 B., 113 B.; along roads in Oranjestad: n. 556 B.; in deserted plantations at the seashore near Bengalen: n. 586 B., 593 B.; Bengalen: n. 608 B.; Fort de Wind: n. 797 B.; hill near Concordia 100 M.: n. 955 α B.; from Little Moun-

tain to Venusbay: n. 987 B.; Signalhill 150 M.: n. 1043 B.; slope of the Quill on the side of White Wall 200 M.: n. 1180 B.; Venusbay: n. 223.

Saba: Seashore near Forthbaylanding: n. 1650 B.; Springbay-gut: n. 2084 B.

St. Martin: Guanabay: n. 2424 B.; along the saltpond near Filipsburg: n. 2452 B.; lowerpart of Milldrumhill: n. 3160 B.; Mount Paradis 300—400 M.: n. 3210 B.

St. Croix ex Millspaugh.
Antill. (Gris. Fl.).

Solanum racemosum Jacq. var **igneum** (Linn.) O. E. Schulz.¹⁾
Solanum igneum Linn. Spec. (1762) 270; Gris. Fl. 440; Millspaugh 527.

St. Eustatius: Seashore near Oranjestad: n. 35 B., 46 B.; along roads in Oranjestad: n. 566 B., 573 B., 926 B.; in deserted plantations at the seashore near Bengalen: n. 588 B.; top of the Cliff between Fort de Wind and Oranjestad: n. 774 B.; gut near Fort de Wind: n. 833 B.; Cultuurvlakte: n. 213; slope of Signalhill: n. 114; seashore: n. 211, 212; locality unknown: n. 46 G., 47 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1468 B.; Bottom: n. 1838 B.; Ladder: n. 214; locality unknown: n. 141 L., 362 L.

St. Martin: near Filipsburg: n. 2337 B.; along the saltpond near Filipsburg: n. 2442 B.; near Bethlehem: n. 2667 B.; near Mulletpond: n. 2787 B.; in pastureground near Bellevue: n. 2821 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2958 B.; along roads from Colebay to Simsonsbay: n. 3251 B.; gut from Bethlehem to Cul de Sac 200 M.: n. 3428 B., 3430 B.; Cul de Sac: n. 210.

St. Croix ex Millspaugh.
Antill., Cuba to Guiana. (Gris. Fl.).

Solanum torvum Sw. Prod. Veg. Ind. Occ. (1788) 47; Gris. Fl. 441; Duss 415; Millspaugh 527.

St. Eustatius: Slope of the Quill: n. 226.

Saba: lower part of the Bottom Mountain: n. 1402 B.; between Bottom and Marypoint 100—200 M.: n. 1533 B.; Windwardside—Hellsgate: n. 1678 B.; Laddergut 0—200 M.: n. 1959 B., 224.

St. Martin: Cul de Sac: n. 2618 B.; along roads from Bethle-

1) Det. O. E. Schulz.

hem to Mont Chambord: n. 2909 B.; hills on the eastern side of Cul de Sac: n. 3448 B.; Prince quarter: n. 225.

St. Croix ex Millspaugh.

Bermud., Antill., Cuba and Mexico to Brazil and Equador. East Indies. (Gris. Fl.).

Solanum tuberosum Linn. Spec. (1753) 185. Potatoes.

Cultivated. [Amer. austr.] (E. a. P.).

7415. **Datura** Linn.

Datura fastuosa Linn. Syst. ed. X (1799) 932; Gris. Fl. 434; Duss 409; Millspaugh 526. Fire weed.

Saba: Crispeen 400 M.: n. 1766 B.; locality unknown: n. 260 L.

St. Martin: near Bethlehem: n. 2660 B.

St. Croix ex Millspaugh.

Antill., Afr. trop., East Indies. (Gris. Fl.).

Datura Metel Linn. Spec. (1753) 179; Gris. Fl. 434; Duss 408; Millspaugh 526. Fire weed.

St. Eustatius: along roads near Oranjestad: n. 563 B.; in a garden in Oranjestad: n. 1015 B., 1081 B., 190, 12 H., 13 G.

St. Martin: along roads near Philipsburg: n. 2527 B.; Guana- bay: n. 189.

St. Croix ex Millspaugh.

Antill., Haiti and Mexico to Brazil and in the Old world. (Gris. Fl.).

Datura Stramonium Linn. Spec. (1753) 179; Gris. Fl. 434; Millspaugh 526. Fire weed.

St. Eustatius: in a garden in Oranjestad: n. 542 B.; Cultuur- vlakke: n. 194; locality unknown: n. 12 G., 14 G., 13 H., 3592 B.

Saba: Bottom: n. 1991 B., 195; locality unknown: n. 83 L., 260 L.

St. Martin: Mary's Fancy: n. 193.

St. Croix ex Millspaugh.

Europa, Asia, Africa and Amer. sept. (E. a. P.).

7420. **Cestrum** Linn.

Cestrum laurifolium l'Hér. Stirp. Nov. (1784) 69. t. 34; Gris. Fl. 444; Duss 416; Millspaugh 526.

St. Eustatius: Top of the Quill 400 M.: n. 211 B., 239 B., 240 B., 374 B.; Quill: n. 102, 103, 113; Boven: n. 104; locality unknown: n. 3638 B.

Saba: lower part of the Bottom Mountain 300 M.: n. 1442 B.; along roads between Bottom and Windwardside 200 M.: n. 1288 B.; Crispeen 400 M.: n. 1723a B.; Springbaygut: n. 2124 B.; Bottom: n. 2252 B.; Paris 300 M.: n. 109; Greathill 2—400 M.: n. 112; Rendez-vous: n. 110; Crispeen—Rendez-vous: n. 111; Rendez-vous Mountain: n. 67; locality unknown: n. 68.

St. Croix ex Millspaugh.

Cuba, Hispaniola, Portorico, St. Thomas, St. Jan, Antigua, Montserrat, Guadeloupe, Dominica, Martinique, Barbados, Trinidad. (Herb. Krug et Urban).

7434. **Nicotiana** Linn.

Nicotiana Tabacum Linn. Spec. (1753) 180.

Cultivated. [Amer. austr.] (E. a. P.).

7436. **Petunia** Juss.

Petunia violacea Lindl. Bot. Reg. t. 1626.

Cultivated. [Argentina]. (Ind. Kew.).

7450. **Brunfelsia** Linn.

Brunfelsia americana Linn. Spec. (1753) 191. Lady of the night.

Cultivated. [Antill.] (Gris. Fl.).

257. Scrophulariaceae.

7470. **Angelonia** Humb. et Bonpl.

Angelonia angustifolia Benth. in DC. Prodr. X (1846) 254. Snapdragon.

Cultivated. [Mexico]. (Gris. Fl.).

7487. **Maurandia** Ortega.

Maurandia semperflorens Jacq. Hort. Schoenb. III (1800) 20.

Saba: Gut near Bottom: n. 1388 B.

Antill. [Mexico]. (Ind. Kew.).

7496. **Russelia** Jacq.

Russelia juncea Zuccar in Flora XV (1832) II Beibl. 99. Bugal plant.

Cultivated. [Mexico]. (Ind. Kew.).

7574. **Capraria** Linn.

Capraria biflora Linn. Spec. (1753) 628; Gris. Fl. 427; Duss 403; Millspaugh 527. Wild tea.

St. Eustatius: Seashore near Oranjestad: n. 34 B.; in a garden in Oranjestad: n. 70 B.; seashore near Tumbledowndickbay: n. 162 B.; Bengalen: n. 624 B.; along roads in Oranjestad: n. 929 B.; Cultuurvlakte: n. 39; locality unknown: n. 11 G., 11 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1319 B.; between Bottom and Marypoint 100—200 M.: n. 1510 B.; Laddergut 0—200 M.: n. 1953 B., 54; Bottom: n. 55.

St. Martin: from Philipsburg to Guanabay: n. 2348 B.; Philipsburg—Cul de Sac: n. 2611 B.; Mount Paradis 200—400 M.: n. 3202 B.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico to Brazil and Peru. (Hemsley 1884).

7576. **Scoparia** Linn.

Scoparia dulcis Linn. Spec. (1753) 116; Gris. Fl. 427; Duss 403; Millspaugh 528. Sweet broom.

St. Eustatius: along roads near Glassbottle: n. 883 B., 1205 B.; Cultuurvlakte: n. 85; slope of te Quill: n. 86, 87; locality unknown: n. 10 G., 10 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1523 B.; Ladder: n. 78; Peperpot: n. 79; Mountain: n. 80; Gainbygut: n. 81.

St. Croix ex Millspaugh.

All tropical countries. (Gris. Fl.).

258. **Bignoniaceae.**

7705. **Bignonia** Linn.

Bignonia Ungius-cati Linn. Spec. (1753) 623; Gris. Fl. 448; Duss 421; Millspaugh 528. Cat claw.

St. Eustatius: Top of the Quill 400 M.: n. 194 B., 281 B., 283 B., 350 B.; Bottom of the Quill 350 M.: n. 454 B.; Red Cliff—Tumbledowndickbay: n. 202; Quill: n. 41, 42, 102; slope of the Quill: n. 196, 197; locality unknown: n. 178 G., 259 H.

I also saw *Bignonia Ungius-cati* in deserted plantations near Bengalen.

Saba: Boobyhill 300 M.: 1599 B.; Laddergut 0—200 M.: n. 1966 B.; between Hellsgate and Marypoint: n. 2071 B.; pasture-ground: n. 40; Middle Island: n. 149.

St. Martin: Hill on the northern side of Cul de Sac 0—150 M.: n. 2970 B.; gut from Betlehem to Cul de Sac 200 M.: n. 3435 B.; John Ednyhill: n. 198, 199, 200.

I also saw *Bignonia Ungius-cati* on Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Antill. (Gris. Fl.); Amer. cont. (Herb. Leiden.).

Bignonia spec. without flowers and fruits.

St. Eustatius: Quill: n. 438a B.

7733. **Tecoma** Juss.

Tecoma capensis Lindl. Bot. Reg. t. 1117.

Cultivated. [Afr. austr.] (Ind. Kew.).

Tecoma leucoxyton Mart. ex DC. Prod. IX (1845) 219; Gris. Fl. 447; Duss 420; Millspaugh 528. White cedar.

St. Eustatius: in a garden in Oranjestad: n. 72 B.; slope of the lower part of Signalhill: n. 104 B.; top of the Quill 400 M.: n. 214 B., 331 B., 355 B.; between Oranjestad and Fort de Wind: n. 782 B.; along roads in Oranjestad: n. 919 B.; along roads near English Quarter: n. 1003 B.; slope of the Quill near Glassbottle: n. 1116 B.; slope of the hills near Concordiabay: n. 206; Tumble-down-dickbay: n. 216; near Sugarloaf: n. 217; locality unknown: n. 52 H., 109 G.

I also saw *Tecoma leucoxyton*: on Gilboohill; near Jenkinsbay.

Saba: between Bottom and Marypoint 100—200 M.: n. 1500 B.; Boobyhill: n. 1570 B.; Green Island: n. 2145 B.; Windwardside: n. 2333 B.; locality unknown: n. 284 L.

I also saw *Tecoma leucoxyton*: Sulphurmines; Bottom—Windwardside; Hellsgate.

St. Martin: Colebay (coll. George): n. 2513 B.; from Philipsburg to Belvedere: n. 2555 B.; Nakedboyhill 50—200 M.: n. 2675 B.

I also saw *Tecoma leucoxyton*: Marigothill to Marigot; hill between Mont des Accords and Centryhill; hill on the northern side of Cul de Sac: Mount Paradis 300—400 M.; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Cuba to Guiana. (Gris. Fl.).

7740. **Stenolobium** D. Don.

Stenolobium stans Seem. Journ. Bot. I (1863) 88.

Tecoma stans Juss. Gen. (1789) 139; Gris. Fl. 477; Duss 420; Millspaugh 529. Yellow blossom.

St. Eustatius: Gut near Fort de Wind 50 M.: n. 834 B.; hill near Concordia 100 M.: n. 956 B.; Cultuurvlakte: n. 209; locality unknown: n. 100 G., 178 H.

I also saw *Stenolobium stans*: slope of the Cliff; slope of the Quill on the side of White Wall.

Saba: lower part of the Bottom Mountain 800 M.: n. 1440 B.; Laddergut 200 M.: n. 1998 B., 211; locality unknown: n. 134 L.

I also saw *Stenolobium stans*; between Bottom and Marypoint; Forth-baygut; Bottom—Windwardside.

St. Martin: Mount Paradis 300—400 M.: n. 3323 B.; Cul de Sac: n. 210.

I also saw *Stenolobium stans*: on Marigothill—Marigot; Nakedboyhill; hill between Mont des Accords and Centryhill; hill on the northern side of Cul de Sac; along roads near Grande Case; lower part of Milldrumhill.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Tucuman. (Gris. Fl.).

7759. *Crescentia* Linn.

Crescentia Cujete Linn. Spec. (1753) 626; Gris. Fl. 445; Duss 418; Millspaugh 528. Calabash.

St. Eustatius: in a garden in Oranjestad: n. 149 G., 255 H.

I saw *Crescentia Cujete* in deserted plantations near English Quarter.

Saba: Windwardside: n. 1920 B.; locality unknown: n. 65 L.

St. Martin: from Filipsburg to Belvedere: n. 2554 B.; Mount Paradis 300—400 M.: n. 3338 B.

I also saw *Crescentia Cujete*: near Saline.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill. and Amer. austr. (E. a. P.).

262. Gesneriaceae.

7839. *Besleria* Linn.

Besleria lutea Linn. Spec. (1753) 619; Gris. Fl. 463; Duss 431.

St. Eustatius: Top of the Quill 500 M.: n. 471a B., 479a B.

Saba: Gut near Bottom: n. 1424a B.; Mountain 600 M.: n. 1782 B., 41, 42, 43, 208.

Jamaica, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, Grenada. (Symb.).

7880. *Kohleria* Regel.

Kohleria hirsuta Reg. in Regensb. Flor. XXXI (1848) 250.

Isoloma hirsuta Reg. in Bot. Zeit. IX (1851) 583; Gris. Fl. 459.

Saba: Locality unknown: n. 60 L., 331 L.
Cultivated?
Trinidad, Venezuela. (Symb.).

7891. **Gesneria** Linn.

Gesneria ventricosa Sw. Prod. Veg. Ind. Occ. (1788) 89.

Pentarhaphia longiflora Lindl. Bot. Reg. sub. t. 1110; Gris. Fl. 460; Duss 430.

St. Eustatius: Top of the Quill 400 M.: n. 471 B.; top of the Quill 500 M.: n. 479 B.; top of the Quill: n. 325, 326, 327, 328.

Saba: Mountain 600 M.: n. 1758 B., 1783 B., 332, 333.

Jamaica, St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent. (Symb.).

264. Lentibulariaceae.

7901. **Utricularia** Linn.

Utricularia alpina Jacq. Enum. Pl. Carib. (1760) 11.

Utricularia montana Jacq. Select. Am. (1763) 7 t. 6; Gris. Fl. 390.

Saba: Mountain 800 M.: n. 2229 B.

Antill. and Amer. austral. (E. a. P.).

266. Acanthaceae.

7914. **Thunbergia** Retz.

Thunbergia affinis Moore var. **pulvinatus** Moore in Journ. Bot. XVIII (1880) 431.

Cultivated. [Africa]. (Herb. Berlin).

Thunbergia alata Boj. in Hook. Exot. Fl. 1823 t. 17; Duss 428.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1311 B.; between Bottom and Marypoint 100--200 M.: n. 1548 B.; locality unknown: n. 1593 B., 36 L., 10; Village: n. 283.

St. Croix. (Symb.).

Indig. in Africa orient. (Symb.).

Thunbergia fragans Roxb. Pl. Corom. I (1795) 47 t. 67; Gris. Fl. 458; Duss 428; Millspaugh 530.

St. Eustatius: along roads in Oranjestad: n. 1092 B., 183 H.

Saba: Bottom: n. 284; locality unknown: n. 17 L.

St. Martin: along roads from Grande Case to Marigot: n. 3102 B.

St. Croix ex Millspaugh.
Indig. in Asia trop. (Symb.).

7919. **Sanchezia** R. et Pav.

Sanchezia nobilis Hook. Bot. Mag. t. 5594.
Cultivated. [Equador]. (Ind. Kew.).

7930. **Blechum** Juss.

Blechum Brownei Juss. in Ann. Mus. Par. IX (1807) 270; Gris. Fl. 453; Duss 424.

Blechum Blechum Millspaugh 529.

St. Eustatius: Locality unknown: n. 304 H.; slope of the Quill: n. 258.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1295 B.; between Bottom and Marypoint 100—200 M.: n. 1507 B.; Mountain 600 M.: n. 1744 B.; Bottom: n. 1847 B., 1984 B.; Ladder: n. 260; Laddergut: n. 260 bis; locality unknown: n. 316 L.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2626 B.; in an orchard near Bellevue: n. 2846 B.

St. Croix ex Millspaugh.
Amer. trop. (Symb.).

7965. **Ruellia** Linn.

Ruellia tuberosa Linn. Spec. (1753) 635; Gris. Fl. 452; Duss 423; Millspaugh 529. Devil's bit, Fever root.

St. Eustatius: along roads near Glassbottle: n. 862 B.; Cultuurvlakte: n. 272; Concordia: n. 274; locality unknown: n. 83 H., 129 G.

I also saw *Ruellia tuberosa* on Signalhill.

Saba: between Bottom and Marypoint 100—200 M.: n. 1512 B.; Hellsgate: n. 1697 B.; locality unknown: n. 297 L.; Bottom: n. 273.

I also saw *Ruellia tuberosa* in the Laddergut.

St. Martin: from Filipsburg to Guanabay: n. 2375 B.; from Filipsburg to Belvedere: n. 2553 B.; along roads near Bethlehem: n. 2934 B.; Centryhill: n. 12.

I also saw *Ruellia tuberosa*: on Nakedboyhill; hill between Mont des Accords and Centryhill; in pastureground near Belvedere; in pastureground near Bellevue; Lowlands.

St. Croix ex Millspaugh.

Antill., from Guiana, Venezuela, Peru and Columbia to Mexico. (Symb.).

7990. **Stenandrium** Nees.

Stenandrium rupestre Nees. in DC. Prodr. XI. (1847) 283.

St. Martin: in an orchard near Bellevue: n. 2835 B.; lower part of the hills on the eastern side of Cul de Sac: n. 3442 B.

I also saw *Stenandrium rupestre* on the hill between Mont des Accords and Centryhill.

Baham., Antill. (Symb.).

8012. **Graptophyllum** Nees.

Graptophyllum pictum Griff. Notul. IV. (1851) 139.

Cultivated. [Nova Guinea]. (Symb.).

8094. **Justicia** Linn.

Justicia sessilis Jacq. Enum. (1760) 11.

Dianthera sessilis Gris. Flor. W. I. (1861) 455; Duss 426. Prickly balsam.

St. Eustatius: Slope of the lower part of Signalhill: n. 99 B.; lower part of the hills near Concordia: n. 977 B.; near Maryglory 150 M.: n. 1150 B.; near Boven 200 M.; n. 1246 B.; Cultuurvlakte: n. 13, 262, 263, 264; slope of the Quill: n. 265, 266; locality unknown: n. 74 H., 111 G., 141 G.

Saba: Windwardside—Hellsgate: n. 1667 B.; Laddergut 200 M.: n. 2004 B.; Paris: n. 267;

St. Martin: along roads near Bellevue: n. 2842 B.; Mountain between Mont des Accords and Centryhill 0—200 M.: n. 2866 B.; from Belvedere to Oysterpond: n. 3057 B.

I also saw *Justicia sessilis*: on the lower part of the Milldrumhill; Mount Paradis.

St. Croix. (Symb.).

Hispaniola, Portorico, St. Thomas, Antigua, Guadeloupe. (Symb.).

8098. **Beloperone** Nees.

Beloperone eustachiana Benth. in Benth. et Hook. Gen. Pl. II (1876) 1111.

Justicia eustachiana Jacq. Enum (1760) 11; Gris. Fl. 456; Duss 426.

St. Eustatius: Slope of the Quill near Bengalen 200 M.: n. 752 B.; top of Signalhill 225 M.: n. 1033 B.; near Maryglory 150 M.: n. 1138 B., 1149 B.; locality unknown: n. 166 G., 248 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1286 B.; Windwardside—Hellsgate: n. 1684 B.; Paris 2—400M.: n. 256; Greathill: n. 255; Rendez-vous 400 M.: n. 257; Bottom: n. 1; locality unknown: n. 24 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2860 B.; along roads from Colebay to Simonsbay: n. 3248 B.; Green Key: n. 3366 B.

St. Barthélemy, Antigua, Montserrat, Guadeloupe. (Symb.).

267. Myoporaceae.

8111. **Bontia** Linn.

Bontia daphnoides Linn. Spec. (1753) 638.

Cultivated. [Antill.] (E. a. P.).

269. Plantaginaceae.

8116. **Plantago** Linn.

Plantago major Linn. Spec. (1753) 112; Gris. Fl. 389; Duss 379; Millspaugh 530.

Saba: Boobyhill: n. 1566 B.; Windwardside: n. 2327 B.; locality unknown: n. 178 L.

St. Croix ex Millspaugh.

In almost all parts of both hemisph. (E. a. P.).

270. Rubiaceae.

8136. **Oldenlandia** Linn.

Oldenlandia herbacea DC. Prod. IV. (1830) 425; Gris. Fl. 330; Duss 335; Millspaugh 531.

St. Martin: from Philipsburg to Belvedere: n. 2580 B.; along roads from Grande Case to Marigot: n. 3104 B.

St. Croix ex Millspaugh.

Amer. trop., Afric., Asia, Malay, Kaiser Wilhelmsland. (E. a. P.).

8208. **Hillia** Jacq.

Hillia longiflora Sw. Prod. Veg. Ind. Occ. (1788) 58; Gris. Fl. 325; Duss 334.

Hillia parasitica Jacq. Enum. Pl. Carib. (1760) 18.

St. Eustatius: Top of the Quill: n. 247 B., 68, 69, 70.

Saba: Mountain 800 M.: n. 2192 B., 2198 B.; locality unknown: n. 127 L.

Antill., Amer. austral. (E. a. P.).

8219. **Exostemma** L. C. Rich.

Exostemma caribaeum Roem. et Schult. Syst. V (1819) 18; Gris. Fl. 324; Duss 333; Millspaugh 531.

St. Martin: Colebay (coll. George): n. 2500 B.; Nakedboyhill 200—260 M.: n. 2726 B.; near Mulletpond: n. 2783 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2891 B.; from Belvedere to Oysterpond: n. 3045 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill. (Herb. Krug er Urban); Key West (Melvill.); Baham. (Hitche.).

Exostemma spec.

Saba: locality unknown: n. 107 L.

8238. **Mussaenda** Linn.

Mussaenda frondosa Linn. Spec. (1753) 177.

Cultivated. [India orient.] (Ind. Kew.).

8239. **Gonzalagunia** Ruiz. et Pav.

Gonzalagunia hirsuta Schumann. in Mart. Fl. Bras. VI 6 (1889) 291.

Gonzalea spicata DC. Prodr. IV (1830) 437; Gris. Fl. 321; Duss 332.

Saba: between Bottom and Marypoint 350 M.: n. 1493 B., 1552 B.; Mountain near Hellsgate: n. 2284 B.; Mountain: n. 171, 172; Devilshand: n. 173.

Antill., Guiana, Bahia. (Gris. Fl.).

8283. **Randia** Linn.

Randia aculeata Linn. Spec. (1753) 1192; Gris. Fl. 318; Duss 330; Millspaugh 531. Fishing rod, Black cherry.

St. Eustatius: Slope of the lower part of Signalhill: n. 100 B.; top of the Quill 400 M.: n. 280 B.; slope of the lower part of the Quill near Bengalen: n. 712 B.; between Oranjestad and Fort de Wind on the top of the Cliff: n. 790 B.; slope of Signalhill: n. 125, 182; Quill: n. 181; White Wall: n. 127; Little Mountain: n. 126; Gilboohill: n. 124; locality unknown: n. 176 G., 195 H.

I also saw *Randia aculeata*: on the slope of the Quill on the side of White Wall; Tumbledown Dickbay—Venusbay.

Saba: between Bottom and Marypoint 100—200 M.: n. 1519 B.; Saddle: n. 1658 B.; Hellsgate: n. 120; locality unknown: n. 123.

St. Martin: from Philipsburg to Guanabay: n. 2416 B.; Prince quarter (coll. George): n. 2474 B.; near Fort Willem: n. 2798 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2991 B.; Milldrumhill 300—400 M.: n. 3140 B.; Vineyardhill: n. 121, 122.

I also saw *Randia aculeata*: Marigotthill—Marigot; top of Nakedboyhill; near Bellevue; hill between Mont des Accords and Centryhill; along roads near Grande Case; Mount Paradis 300—400 M.; Lowlands.

St. Croix ex Millspaugh.

Bermud., Florida, Antill. (Hemsley 1884).

8361. *Guettarda* Linn.

Guettarda parvifolia Sw. Fl. Ind. Occ. III (1806) 1958; Gris. Fl. 333; Duss 337; Millspaugh 531. Wild cherry.

St. Eustatius: from Little Mountain to Venusbay: n. 961 B.; slope of the Quill on the side of White Wall 200 M.: n. 1181 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1464 B.; Springbaygut: n. 2079 B.

St. Martin: from Philipsburg to Belvedere: n. 2571 B.; Nakedboyhill 280 M.: n. 2737 B.; mountain between Mont des Accords and Centryhill 200—300 M.: n. 2887 B.; lower part of the mountains between Mount Vernon and Mont Chambord: n. 2950 B.; Milldrumhill 200—300 M.: n. 3122 B.; hills on the eastern side of Cul de Sac: n. 3438 B.

St. Croix ex Millspaugh.

Antill., Venezuela. (Gris. Fl.).

Guettarda scabra Lam. Tabl. Encycl. II (1793) 218. t. 154 f. 3; Gris. Fl. 332; Duss 337; Millspaugh 531. Candle wood, Wild guave.

St. Eustatius: Top of the Quill 380 M.: n. 255 B., 319 B., 502 B.; from Little Mountain to Venusbay: n. 993 B.; Signalhill: n. 76; Quill: n. 78.

I also saw *Guettarda scabra* on the slope of the Quill on the side of White Wall.

Saba: between Bottom and Marypoint 100—200 M.: n. 1463 B.; Greathill: n. 75 A.; Hellsgate: n. 75; locality unknown: n. 77.

I also saw *Guettarda scabra*: in the gut between Hellsgate and Masticgut; Crespeenhill.

St. Martin: Mount Paradis 300—400 M.: n. 3224a B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Yucatan, Brazil. (Gris. Fl.).

8371. *Erithalis* Linn.

Erithalis fruticosa Linn. Syst. ed. X (1759) 930; Gris. Fl. 336; Duss 338; Millspaugh 530. Flambeau.

St. Eustatius: from Little Mountain to Venusbay: n. 973 B.; top of Signalhill 225 M.: n. 1032 B.; White Rock: n. 87; slope of the Quill near White Wall: n. 86; White Wall: n. 83, 151; Sugarloaf: n. 152; Boven: n. 84; Oranjestad n. 85.

St. Martin: Colebay (coll. George): n. 2499 B.; near Mulletpond: n. 2752 B.; from Belvedere to Oysterpond: n. 3047 B.; Tintamarre: n. 3390 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill. (Herb. Krug et Urban); Key West (Melvill.); Baham. (Hitche.)

8376. *Chiococca* Linn.

Chiococca racemosa Jacq. Select. Am. (1763) 68; Gris. Fl. 336; Duss 339; Millspaugh 530. Buckroot.

St. Eustatius: Top of the Quill 400 M.: n. 199 B., 336 B., 400 B.; slope of the Quill near Bengalen 200 M.: n. 688 B.; from Little Mountain to Venusbay: n. 972 B.; slope of the Quill on the side of White Wall 200 M.: n. 1170 B.; top of the Quill: n. 141, 142, 143, 152; Quill: n. 156; locality unknown: n. 157, 187 G., 271 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1355 B.; Greathill 400 M.: n. 1385 B.; between Bottom and Marypoint 350 M.: n. 1497 B.; Boobyhill 300 M.: n. 1574 B.; Hellsgate—Marypoint: n. 2038 B.; Springbaygut: n. 2081 B., 2082 B.; Paris: n. 154, 155, 159; Rendez-vous: n. 158; Middle Island: n. 153; Wellgut: n. 151; locality unknown: n. 137 L., 309 L.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2637 B.; mountain between Mont des Accords and Centryhill 200—300 M.: n. 2879 B.; top of the hills on the northern side of Cul de Sac 200—

300 M.: n. 3009 B.; from Belvedere to Oysterpond: n. 3060 B.; Milldrumhill 200—300 M.: n. 3123 B.; 300—400 M.: n. 3153 B.; Mount Paradis 300—400 M.: n. 3225 B.; 100—200 M.: n. 3298 B.; gut from Bethlehem to Cul de Sac 200 M.: n. 3429 B.

St. Croix ex Millspaugh.

Antill., Mexico, Amer. austr. (E. a. P.).

8381. **Coffea** Linn.

Coffea arabica Linn. Spec. (1753) 172; Gris. Fl. 338; Duss 341. Coffee.

St. Eustatius: Bottom of the Quill 300 M.: n. 900 B.; inner slope of the Quill 350 M.: n. 1220 B., 101 H., 215 G.

Saba: Windwardside: n. 1935 B.; Gainbygut: n. 98; Hells-gategut: n. 99.

Indig. in Abyssinia, Angola and Mosambique. (E. a. P.).

8384. **Ixora** Linn.

Ixora coccinea Linn. Spec. (1753) 110.

Cultivated. [Asia trop.] (Ind. Kew.).

Ixora Jucunda Thwaites Enum. Pl. Zeyl. (1864) 155. Riceplant. Cultivated. [Zeylan.] (Ind. Kew.).

8391. **Strumpfia** Jacq.

Strumpfia maritima Jacq. Enum. Pl. Carib. (1760) 28; Gris. Fl. 336; Duss 338.

St. Eustatius: White Wall: n. 813 B., 1264 B., 138.

St. Martin: Colebay (coll. George): n. 2519 B.

Anguilla Boldingh.

Baham., Antill., Aruba, Bonaire, Curaçao. (Herb. Krug et Urban).

8399. **Psychotria** Linn.

Psychotria horizontalis Sw. Prod. Veg. Ind. Occ. (1788) 144; Gris. Fl. 344; Duss 344; Millspaugh 531.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 609a B., 657 B.; slope of the Quill above White Wall: n. 1191a B.; locality unknown: n. 218 G.

Saba: near the Sulphurmines: n. 1701a B.; near Devilshand: n. 2075 B., 2076 B.; Springbaygut: n. 2123 B.

St. Martin: from Filipsburg to Belvedere: n. 2575 B., 2586 B.; Marigothill—Marigot 0—200 M.: n. 2642 B.; Nakedboyhill 50—200 M.: n. 2689 B.; mountain between Mont des Accords and Centryhill

200—300 M.: n. 2883 B.; along roads in Cul de Sac: n. 2968 B.; from Belvedere to Oysterpond: n. 3063 B.; lower part of Milldrumhill: 3161 B.; along roads from Colebay to Simsonsbay: n. 3252 B.; Mount Paradis 100—200 M.: n. 3300 B.; French frontier: n. 149.

St. Croix ex Millspaugh.

Antill., Guiana. (Gris. Fl.).

Psychotria pendula Urb. Symb. Ant. I (1900) 445.

Psychotria parasitica Sw. Prodr. (1788) 44; Gris. Fl. 344 (p. p.); Duss 344.

Mapouria parasitica K. Sch. in Engl. u. Prantl. Nat. Pfl. Fam. IV. 4. (1891) 112.

Psychotria crassa Gris. Flor. W. I. (1861) 344 (p. p.); Duss 344. (Symb.).

Saba: Mountain 800 M.: n. 148, 153.

Cuba, St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada. (Symb.).

Psychotria rufescens H. B. et K. Nov. Gen. et Sp. III (1818) 364; Gris. Fl. 342. Bastard canckerberry.

St. Eustatius: Top of the Quill 400 M.: n. 174 B., 349 B., 403 B., 500 B., 117; locality unknown: n. 116, 175 G., 213 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1353 B.; Bottom: n. 1456 B.; Crispeen 400 M.: n. 1762 B.; Marypoint: n. 118; Jenkinsbay: n. 114.

St. Martin: Centryhill: n. 115.

Antill., Cuba and Mexico to Nova Granata. (Gris. Fl.).

Psychotria uliginosa Sw. Prodr. Veg. Ind. Occ. (1788) 43; Gris. Fl. 340; Duss 342.

St. Eustatius: Bottom of the Quill 300 M.: n. 899 B.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1306a B., 1365 B.; Bottom: n. 1448 B.; Mountain: n. 119; Gainbygut: n. 150.

Antill., Amer. centr., Guiana. (Gris. Fl.).

8401. **Palicourea** Aubl.

Palicourea Pavetta DC. Prodr. IV (1830) 525; Gris. Fl. 346; Duss 345; Millspaugh 531.

St. Eustatius: inner slope of the Quill 350 M.: n. 1216 B., 1224 B.; Quill: n. 146, 147.

Saba: along roads from Bottom to Windwardside: n. 1313a B., 1364 B.; Mountain: n. 1755a B.

St. Croix ex Millspaugh.

Cuba, Jamaica, St. Thomas, Guadeloupe. (Herb. Krug et Urban).

8456. **Faramea** Aubl.

Faramea odoratissima DC. Prod. IV (1830) 496; Gris. Fl. 338; Duss 341; Millspaugh 531.

Saba: from Marypoint to Bottom 300 M.: n. 2071a B.

Antill., Mexico. (E. a. P.).

8468. **Ernodea** Swartz.

Ernodea litoralis Sw. Prod. Veg. Ind. Occ. (1788) 29; Gris. Fl. 347; Duss 347; Millspaugh 530.

St. Eustatius: White Wall: n. 806 B., 1263 B.; White rock: n. 96; locality unknown: n. 97.

Saba: Hellsgate—Marypoint: n. 2037 B.

St. Martin: near Mulletpond: n. 2759 B.; Lowlands: n. 3279 B.; near Orientbay: n. 3357 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill. (Gris. Fl.).

8471. **Diodia** Linn.

Diodia rigida Cham. Schlecht. in Linnaea III (1828) 341; Gris. Fl. 348.

St. Eustatius: Top of the Cliff between Gallowsbay and White Wall: n. 765 B.

Amer. austr. (Ind. Kew.).

8472. **Hemidiodia** K. Schum.

Hemidiodia ocimifolia K. Schum. in Mart. Fl. Bras. IV. 4 (1888) 29.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 650 B.; slope of the Quill 200 M.: n. 876 B., 72, 73.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1337 B.; Hellsgate: n. 1691 B.; Mountain 800 M.: n. 1806 B.; Mountain near Windwardside 600 M.: n. 2174 B., 2183 B.; Ladder: n. 74a; Gainbygut: n. 74; locality unknown: n. 138 L., 205 L.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2648 B.; hill on the northern side of Cul de Sac: n. 2982 B.

Antill., Mexico. (E. a. P.).

8473. **Borreria** G. F. Mey.

Borreria ocymoides DC. Prodr. IV (1830) 544.

Saba: Hellsgategut: n. 196.

Amer., Africa, Asia. (E. a. P.).

Borreria podocephala DC. Prodr. IV (1830) 542; Gris. Fl. 350; Duss 349.

St. Eustatius; White Wall: n. 815 B., 818b B.; near Signalhill: n. 943a B., 1039 B.; seashore near English Quarter: n. 1009 B.

Cuba, Pinos, Desirade, Antigua, Guadeloupe. (Herb. Krug et Urban).

8475. **Spermacoce** Gärtn.

Spermacoce tenuior Linn. Spec. (1753) 102; Gris. Fl. 349; Duss 347; Millspaugh 532.

St. Eustatius: Top of the Quill 400 M.: n. 230 B.; Bengalen: n. 625 B.; in a garden in Oranjestad: n. 1084 B.; along roads near Glassbottle: n. 1115 B.; slope of the Quill: n. 133 A.; locality unknown: n. 301 G.

Saba: lower part of the Bottom Mountain 300 M.: n. 1428 B.; between Bottom and Marypoint 100—200 M.: n. 1521 B.; along the Forthgut 150—200 M.: n. 1630 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2683 B.; in an orchard near Bellevue: n. 2849 B.; Mount Paradis 300—400 M.: n. 3332 B.; Colebayhill: n. 133.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Amer. centr. (E. a. P.).

8479. **Mitracarpus** Zucc.

Mitracarpus polycladus Urb. in Symbolae Antillanae III (1903) 389.

Saba: along roads from Bottom to Windwardside n. 1322 B.; Paris: n. 1377 B.; Laddergut: n. 1966a B., 175; locality unknown: n. 86 L.

Portorico. (Symb.).

Mitracarpus villosus Cham. et Schlecht. in Linnaea III (1828) 363; Gris. Fl. 350.

Mitracarpus hirtus DC. Prod. IV (1830) 572; Duss 349.

St. Eustatius: Slope of the Quill: n. 164; road in Oranjestad: n. 173.

Antill., Cuba and Mexico to Ecuador and Venezuela. (Gris. Fl.).

271. Caprifoliaceae.8515. **Sambucus** Linn.

Sambucus canadensis Linn. Spec. (1753) 269. Elder.
Cultivated. [Amer. sept.] (E. a. P.).

8523. **Lonicera** Linn.

Lonicera japonica Thunb. Fl. Jap. (1784) 89. White honeysuckle.

Cultivated. [Himalaya]. (Ind. Kew.).

275. Cucurbitaceae.8562. **Melothria** Linn.

Melothria fluminensis Gard. in Hook. Lond. Journ. Bot. I (1824) 173.

St. Eustatius: Quill: n. 433 B.; inner slope of the Quill 350 M.: n. 418 B.

Saba: Windwardside: n. 1933 B.; Gainbygut: n. 35.
Antill., Amer. cent. and austral. (Cogniaux 1881).

8591. **Momordica** Linn.

Momordica Charantia Linn. Spec. (1753) 1009; Gris. Fl. 287; Duss 307; Millspaugh 533. Maiden apple.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 58 B.; along roads in Oranjestad: n. 562 B., 35 H., 42 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1325 B., 1706; locality unknown: n. 163 L.

St. Croix ex Millspaugh.

In all trop. and subtrop. countries. (Cogniaux 1881).

8599. **Cucumis** Linn.

Cucumis Anguria Linn. Spec. (1753) 1011; Gris. Fl. 288; Duss 309; Millspaugh 532. Pumpkin.

St. Eustatius: Locality unknown: n. 156 G.

Saba: along roads: n. 1707 B.; locality unknown: n. 276 L.

St. Croix ex Millspaugh.

Florida austr., Antill., Texas, Amer. centr. and austr. sept. (Cogniaux 1881).

8610. **Lagenaria** Ser.

Lagenaria vulgaris Ser. in Mem. Soc. Phys. Genève. III. 1 (1825) 25; Gris. Fl. 288; Duss 308; Sweet gourd.

Saba: Mountain 800 M.: n. 2230 B.; locality unknown: n. 275 L., 308 L.

St. Croix ex Millspaugh.

Indig. in Afr. trop. and India orient. (Cogniaux 1881). Also cultivated.

8622. **Cucurbita** Linn.

Cucurbita maxima Duchesne in Lam. Encyc. II (1786) 151.

Cultivated. [Asia merid.] (Cogniaux 1881).

8636. **Sechium** Juss.

Sechium edule Sw. Fl. Ind. Occ. II (1800) 1150; Gris. Fl. 286; Duss 306.

Saba: Boobyhill: n. 1567 B.; Windwardside: n. 1595 B.; Mountain 800 M.: n. 2198a B.

Antill., Mexico, Amer. centr., Panama., Nova Granata, Venezuela, Brasilia. (Cogniaux 1881). Also cultivated.

277. **Goodeniaceae**8716. **Scaevola** Linn.

Scaevola Plumieri Vahl Symb. II (1791) 36; Gris. Fl. 388; Duss 378; Millspaugh 533.

Scaevola Lobelia Murr. Syst. ed. XIII (1774) 178.

St. Martin: Colebay (coll. George): n. 2503a B.; near Simsons-baylagoon: n. 3035b B.

Bermud., Baham., Antill. (Herb. Krug et Urban).

280. **Compositae.**8751. **Vernonia** Schreb.

Vernonia punctata Sw. ex Wikstr. in Vet. Acad. Handl. Stockh. (1827) 72; Gris. Fl. 353; Duss 351.

Vernonia longifolia Pers. Syn. II (1807) 404. Wild tobacco.

St. Eustatius: Signalhill 200 M.: n. 138 B.; top of the Quill 400 M.: n. 206 B., 309 B., 328 B.; slope of the Quill near Bengalen 50—200 M.: n. 658 B., 669 B.; along roads near English Quarter: n. 1006 B.; along roads near Bengalen: n. 1197 B.; slope of the Quill: n. 55, 57; slope of Signalhill: n. 56; locality unknown: n. 198 H., 272 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1280 B.; Crespeen 400 M.: n. 1719 B.; Laddergut 0—200 M.: n. 1968 B.; Ladder: n. 54.

St. Martin: from Filipsburg to Guanabay: n. 2420 B.; Marigot-hill—Marigot 0—200 M.: n. 2641 B.; near Mulletpond: n. 2755 B.; hill on the northern side of Cul de Sac: n. 2975 B.; from Belvedere to Oysterpond: n. 3059 B.; Mount Paradis 150—400 M.: n. 3194 B., 3348 B.; Centryhill: n. 319.

Antill., Mexico, Honduras. (Gris. Fl.).

8775. *Elephantopus* Linn.

Elephantopus spicatus Aubl. Pl. Guian. II (1775) 808; Duss 352.

Distreptus spicatus Cass. in Bull. Soc. Philom. (1817) 66; Gris. Fl. 355; Millspaugh 534.

St. Eustatius: Slope of the Quill near Bengalen: n. 711a B.

Saba: Boobyhill: n. 1590a B.; Crespeen—Rendez-vous: n. 199; Rendez-vous—Mountain 4—600 M.: n. 198.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Venezuela and Peru. (Gris. Fl.).

8795. *Ageratum* Linn.

Ageratum conyzoides Linn. Spec. (1753) 839; Gris. Fl. 356; Duss 353; Millspaugh 533. White cap.

St. Eustatius: in a garden near Oranjestad: n. 77 B.; along roads in Oranjestad: n. 545 B.; slope of the Quill: n. 290, 291, 292; locality unknown: n. 6 G., 6 H., 230 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1318 B.; Greathill 400 M.: n. 1378 B.; Mountain 600 M.: n. 1781 B.; Laddergut 0—200 M.: n. 2022 B.; Crespeen—Rendez-vous: n. 289; Gainbygut: n. 288; locality unknown: n. 20 L., 135 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2899 B.; Milldrumhill in plantations 300 M.: n. 3130 B.

St. Croix ex Millspaugh.

In all warmer countries of both hemisph. (E. a. P.).

8816. *Eupatorium* Linn.

Eupatorium canescens Vahl. in West Bidr. St. Croix (1793) 302; Gris. Fl. 360; Duss 355.

Eupatorium sinuatum Lam. Encycl. II (1786) 407; Millspaugh 534.

St. Eustatius: Gut near Fort de Wind: n. 841a B.; White Wall: n. 814a B.

St. Croix ex Millspaugh.

Cuba, Domingo, Portorico, Antigua, Guadeloupe. (Herb. Krug et Urban).

Eupatorium conyzoides Vahl. Symb. Bot. III (1807) 96; Gris. Fl. 358.

St. Eustatius: Top of the Quill 400 M.: n. 184 B., 258 B., 501 B.; along roads near Bengalen: n. 1196 B.; slope of the Quill: n. 25, 26, 288; road to Roundhill: n. 24.

Saba: Crispeen 400 M.: n. 1717 B.; Laddergut: n. 1999 B.; Flatpoint: n. 2126 B.; Peperpot: n. 23; Mountain: n. 290; Gainbygut: n. 289.

St. Martin: lower part of the Milldrumhill: n. 3162 B.

Bermud., Florida austr., Antill., Mexico to Brazil. (Hemsley 1884).

Eupatorium iresinoides H. B. et K. Nov. Gen. et Spec. IV (1820) 105. t. 340; Gris. Fl. 360; Duss 355.

Saba: Bottom: 200 M.: n. 1446 B.; from Bottom to Marypoint 100—200 M.: n. 1515a B.; Hellsgate: n. 1690 B.; Crispeen 400 M.: n. 1725 B.; Peperpot: n. 29; Crispeen Rendez-vous: 400 M.: n. 28. Antill., Panama to Venezuela. (Gris. Fl.).

Eupatorium macranthum Sw. Fl. Ind. Occ. III (1806) 1315.

St. Eustatius: Top of the Quill 400 M.: n. 307 B., 32, 30, 293.

Saba: Mountain near Windwardside 600 M.: n. 2154 B., 2178 B.; Crespeen—Rendez-vous 400 M.: n. 31, 293.

St. Kitts. (Herb. Krug et Urban).

Eupatorium macrophyllum Linn. Spec. (1763) 1175; Millspaugh 534.

Hebeclinium macrophyllum DC. Prodr. V (1836) 136; Gris. Fl. 356; Duss 353.

Saba: between Bottom and Marypoint 300 M.: n. 1487 B.; 100—200 M.: n. 1511 B.; Laddergut 0—200 M.: n. 1965 B.; Gainbygut: n. 33.

St. Martin: Mount Paradis 300—400 M.: n. 3349 B.

St. Croix ex Millspaugh.

Bermud., throughout the Antill. and southward to Brazil. (Hemsley 1884).

Eupatorium paniculatum Schrad. Ind. Sem. Hort. Gotting. (1832) 2; Gris. Fl. 362; Duss 356.

Eupatorium guadalupense Spreng. Syst. III (1826) 414.

Saba: Top of the Mountain 800 M.: n. 1805 B.; Hellsgate: n. 291; Marypointgut: n. 27.

Antill., Honduras, Peru, Venezuela, Brazil. (Gris. Fl.).

8901. **Erigeron** Linn.

Erigeron bonariensis Linn. Spec. (1753) 863; Gris. Fl. 365; Duss 360.

Saba: Mountain 6—800 M.: n. 11.

Antill., Amer. centr. to Buenos Ayres. (Gris. Fl.).

Erigeron canadensis Linn. Spec. (1753) 863; Gris. Fl. 365; Duss 360. Fox tail.

St. Eustatius: Slope of the Quill: n. 13; Cultuurvlakte: n. 12; locality unknown: n. 145 G., 173 H.

Saba: Hellsgate—Marypoint: n. 2033 B.; Rendez-vous 400 M.: n. 296; locality unknown: n. 248 L., 259 L.

St. Martin: near Mulletpond: n. 2760 B.; lower part of Milldrumhill: n. 3169 B.

Bermud., Canada to Brazil, and naturalised in many other countries of both hemisph. (Hemsley 1884).

Erigeron spathulatus Vahl. in West. Bidr. St. Croix (1793) 303; Gris. Fl. 365; Duss 359; Millspaugh 534.

Saba: between Bottom and Marypoint 100—200 M.: n. 1502 B., 1558 B.; Laddergut 0—200 M.: n. 1958 B., 286; Peperpot: n. 20; Crespeen—Rendez-vous: n. 19; Gainbygut: n. 287.

St. Martin: Milldrumhill in plantations 300 M.: n. 3128 B.

St. Croix ex Millspaugh.

Hispaniola, Portorico, Martinique, Guadeloupe, Trinidad. (Herb. Krug et Urban).

8915. **Gundlachia** A. Gray.

Gundlachia domingensis A. Gray Bot. Contr. in Proc. Amer. Acad. XVI (1880) 100.

Baccharis dioica Gris. Kar. (1857) 85; Gris. Fl. 366; Duss 361.

Saba: near the Sulphurmines: n. 1700 B.

Baham., Antill. (Symb.).

8933. **Baccharis** Linn.

Baccharis cotinifolia Urb. in Urb. Symbol. Antill. III (1903) 406; Gris. Fl. 366; Duss 360.

Saba: Top of the Mountain: n. 274.

Antill., Costarica. (Symb.).

8941. **Pluchea** Cass.

Pluchea odorata Cass. in Dict. Sc. Nat. XLII (1826) 3; Gris. Fl. 366; Duss 361; Millspaugh 535. Wild tobacco.

St. Eustatius: Slope of the Cliff near Gallowsbay: n. 62 B.; seashore: n. 30; locality unknown: n. 61 H., 116 G.

Saba: between Bottom and Marypoint 100—200 M.: n. 1526 B.; Crispeen—Rendez-vous 400 M.: n. 303; locality unknown: n. 228 L., 234 L.

St. Martin: Milldrumhill in plantations 300 M.: n. 3127 B.

St. Croix ex Millspaugh.

Antill., Guiana., Amer. centr. (Hemsley 1884).

Pluchea purpurascens DC. Prod. V (1836) 452; Gris. Fl. 367; Duss 362; Millspaugh 535.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2621 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico, Antill., to Nova Granata. (Hemsley 1884).

8992. **Gnaphalium** Linn.

Gnaphalium purpureum Linn. Spec. (1753) 854. vel. affin.

Gnaphalium americanum Mill. Gard. Dict. ed. VIII (1768) n. 17; Duss 373.

Saba: Paris 400 M.: n. 1375 B.; between Bottom and Marypoint 100—200 M.: n. 1502 α B.; Greathill: n. 37; Jenkeygut: n. 36.

Amer. and warmer parts of Africa, Asia and Australia. (E. a. P.).

9101. **Lagascea** Cav.

Lagascea mollis Cav. in Anal. Cienc. Nat. VI (1803) 333 t. 44.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1310 B.; along roads 200—300 M.: n. 1708 B.; Windwardside: n. 2091 B., 67.

St. Martin: from Philipsburg to Guanabay: n. 2403 B., 2415 B.; Cul de Sac—Marigothill 0—200 M.: n. 2631 B.; hill on the northern side of Cul de Sac: n. 2972 B.; French frontier: n. 68; Marigotroad: n. 69, 299.

Anguilla Boldingh.

Indig. in Amer. centr. (E. a. P.).

9117. **Clibadium** Linn.

Clibadium erosum DC. Prod. V (1836) 506; Gris. Fl. 368; Duss 362.

Saba: Mountain 6—800 M.: n. 179.

Portorico, Dominica, Martinique, St. Vincent. (Herb. Krug et Urban).

9130. **Acanthospermum** Schrank.

Acanthospermum humile DC. Prod. V (1836) 522; Gris. Fl. 369; Millspaugh 533.

St. Martin: Cul de Sac—Marigot 0—200 M.: n. 2657 B.; along roads from Philipsburg to Marigot: n. 3109 B.

St. Croix ex Millspaugh.

Jamaica, Cuba, Haiti, Panama. (Gris. Fl.).

9138. **Parthenium** Linn.

Parthenium Hysterophorus Linn. Spec. (1753) 988; Gris. Fl. 369; Duss 365; Millspaugh 535.

St. Eustatius: in a garden in Oranjestad: n. 79 B., 10; along roads in Oranjestad: n. 520 B., 3 G., 3 H.

Saba: Laddergut: n. 1954 B., 11; Mountain near Windward-side 600 M.: n. 2165 B.; locality unknown: n. 56 L., 95 L.

St. Martin: from Philipsburg to Guanabay: n. 2398 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Amer. sept. and centr., and in other parts of both hemisph. (E. a. P.).

9146. **Ambrosia** Linn.

Ambrosia hispida Purch. Fl. Am. Sept. Suppl. (1814) 743.

Ambrosia crithmifolia DC. Prod. V (1836) 525.

St. Eustatius: in a garden in Oranjestad: n. 157 G., 1102 B.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1303 B.; Windwardside: n. 1949 B.

St. Martin: from Philipsburg to Belvedere: n. 2561 B.

Florida. (Ind. Kew.). Also cultivated.

9148. **Xanthium** Linn.

Xanthium orientale Linn. Spec. (1763) 1400; Duss 364.

Saba: Bottom: n. 62.

In almost all warmer countries of both hemisph. (E. a. P.).

9155. **Zinnia** Linn.**Zinnia elegans** Jacq. Coll. III 152.

Cultivated. [Patria ignota.].

9166. **Eclipta** Linn.**Eclipta alba** Hassk. Pl. Jav. Rar. (1848) 528; Gris. Fl. 370; Duss 366; Millspaugh 534.*Eclipta erecta* Linn. Mant. II (1771) 286.**St. Martin**: lower part of Mount Paradis: n. 3187 B.**St. Croix** ex Millspaugh.

In the warmer countries of both hemisph. (E. a. P.).

9191. **Borrichia** Adans.**Borrichia arborescens** DC. Prod. V (1836) 489; Gris. Fl. 371; Duss 366; Millspaugh 533.**Saba**: Peperpot: n. 278.**St. Martin**: Point Blanche (coll. George): n. 2493 B.; Colebay (coll. George): n. 2506 B.; near Mulletpond: n. 2750 B.; near Simonsbayvillage: n. 3030 B.; Tintamarre: n. 3373 B.; Oysterpond: n. 306; Guanabay: n. 304, 305.**St. Croix** ex Millspaugh.

Antill., Bermud., Key of Florida, seashore of the Carib. Sea to Peru. (Hemsley 1884; E. a. P.).

9192. **Wedelia** Jacq.**Wedelia bupthalmoides** Gris. in Goett. Abh. VII (1857) 235; Gris. Fl. 372; Duss 367; Millspaugh 536. Yellow sage.**St. Eustatius**: Top of the Quill 400 M.: n. 274 B., 286 B.; slope of the Quill near Bengalen 150 M.: n. 681 B., 687 B.; gut near Fort de Wind 50 M.: n. 836 B.; along roads near Glassbottle: n. 866 B.; from Little Mountain to Venusbay: n. 996 B.; slope of the Quill on the side of White Wall 200 M.: n. 1171 B.; along roads near Bengalen: n. 1198 B.; Gilboohill: n. 58; Sugarloaf: n. 317; locality unknown: n. 165 G., 233 H.**Saba**: along roads between Bottom and Windwardside 200 M.: n. 1284 B., 1298 B.; between Bottom and Marypoint 200 M.: n. 1553 B.; Helsgate: n. 1694 B.; Laddergut 0—200 M.: n. 1960 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2058 B.; Windwardside: n. 2315 B.; Peperpot: n. 318; Paris 2—400 M.: n. 61; Crespeen—Rendez-vous: n. 60; locality unknown: n. 316, 29 L.**St. Martin**: from Filipsburg to Guanabay: n. 2410 B.; Naked-

boyhill 50—200 M.: n. 2703 B., 200—260 M.: n. 2719 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2884 B.; hills on the northern side of Cul de Sac: n. 2984 B.; lower part of Mount Paradis: n. 3291 α B.; Colebayhill: 59; John Ednyhill: n. 315.

I also saw *Wedelia buphthalmoides*: on the top of Mount Paradis 400 M.; hills on the eastern side of Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham. (Hitchc.); Antill. (Herb. Krug et Urban).

9196. **Tithonia** Desf.

Tithonia tagetiflora Desf. in Ann. Mus. Par. I (1802) 46. t. 4. Cultivated. [Mexico]. (E. a. P.).

9207. **Spilanthes** Jacq.

Spilanthes uliginosa Sw. Prod. Veg. Ind. Occ. (1788) 110; Gris. Fl. 376; Duss 370.

St. Eustatius: near English Quarter: n. 1018 B.

Warmer countries of both hemisph. (E. a. P.).

9224. **Synedrella** Gärtn.

Synedrella nodiflora Gärtn. Fruct. II (1791) 456. t. 171; Gris. Fl. 377; Duss 371.

Ucacoua nodiflora Hitch. in Missouri. Bot. Gard. Rep. IV (1893) 100; Millspaugh 535.

St. Eustatius: Slope of the Quill: n. 47; locality unknown: n. 242 H.

Saba: along roads between Bottom and Windwardside 200 M.: 1332 B.; lower part of the Bottom Mountain 250 M.: n. 1397 B.; along the Forthgut 150—200 M.: n. 1629 B.; Mountain 600 M.: n. 1754 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2706 B.; mountain between Mont des Accords and Centryhill 0—200 M.: n. 2852 B., 200—300 M.: n. 2892 B.

St. Croix ex Millspaugh.

Indig. in Amer. trop.; dispersed in the Old world. (E. a. P.).

9237. **Bidens** Linn.

Bidens bipinnatus Linn. Spec. (1753) 832; Gris. Fl. 373; Duss 369; Millspaugh 533.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1333 B., 1366 B.; Rendez-vous: n. 275; Rendez-vous—Crespeen: n. 276; locality unknown: n. 255 L.

St. Martin: Hill on the northern side of Cul de Sac 0—100 M.: n. 3003 B.; along roads from Grande Case to Marigot: n. 3099 B.; French frontier: n. 295.

St. Croix ex Millspaugh.

Indig. in Amer., dispersed in the warmer countries of the Old world. (E. a. P.).

Bidens leucantha Willd. Sp. Pl. III (1800) 1719; Gris. Fl. 373; Duss 368; Millspaugh 533.

Bidens pilosa Linn. Spec. (1753) 832.

St. Eustatius: Slope of the Quill: n. 302.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1282 B.; Windwardside—Hellsgate: n. 1672 B.; seashore near Flat Point: n. 2139 B.; Crespeen—Rendez-vous n. 301; Gainbygut: n. 303.

St. Martin: Hill on the northern side of Cul de Sac 0—100 M.: n. 2978 B.; Marigotroad: n. 279; locality unknown: n. 3602 B.

St. Croix ex Millspaugh.

Indig. in Amer., dispersed in the warmer countries of the Old world. (E. a. P.).

9238. **Cosmos** Cav.

Cosmos sulfureus Cav. Ic. I (1791) 56 t. 79. Poppy.

Cultivated. from Cuba and Mexico to Brazil.] (Gris. Fl.).

9306. **Gaillardia** Fouger.

Gaillardia aristata Purch. Fl. Am. Sept. II (1814) 573.

Cultivated. [Amer. bor.] (Ind. Kew.).

9316. **Porophyllum** Adans.

Porophyllum ellipticum Cass. Dict. XLIII (1826) 56.

Porophyllum ruderale Gris. Flor. W. I. (1861) 379; Duss 372. (p. p.). (Symb.).

St. Eustatius: along roads in Oranjestad: n. 1111 B.; slope of the Quill: n. 36, 37, 38; locality unknown: n. 277 H., 284 G.

Saba: lower part of the Bottom Mountain 300 M.: n. 1435 B.; between Bottom and Marypoint 100—200 M.: n. 1555 B.; locality unknown: n. 269 L.

St. Martin: Locality unknown: n. 3603 B.
Baham., Antill., Amer. cont. trop. (Symb.).

9319. **Pectis** Linn.

Pectis febrifuga van Hall. in Ann. Hort. et Bot. ou Flore Jard. des Pays-Bas vol. IV (1861) 33 cum tab.

Pectis unifolia Less. in Linnaea VI (1831) 709. (excl. syn.); (Symb.).

Pectis Swartziana Borg et Pauls. Veget. Dansk-vestind. Oer (1898) 110 — non Less; (Symb.).

Saba: Seashore near Forthbay: n. 1641 B.

Antill., Bonaire, Curaçao, Aruba, Columbia. (Symb.).

Pectis humifusa Sw. Prod. Veg. Ind. Occ. (1788) 114; Gris. Fl. 378; Duss 372; Millspaugh 535.

St. Eustatius: White Wall: n. 824 B.; Gilboohill 150 M.: n. 1122 B.; near Boven 200 M.: n. 1249 B.; near White Wall: n. 1258 B.; Venusbay: n. 20; locality unknown: n. 3586 B.

Saba: along the lower part of Forthgut: n. 1642 B.; St. Giles: n. 1869 B.

St. Martin: from Filipsburg to Guanabay: n. 2366 B., 2414 B., 19; near Fort Willem: n. 2801 B.; near Fort Amsterdam: n. 18.

Anguilla Boldingh.

St. Croix ex Millspaugh.

St. Domingo, Portorico, St. Thomas, St. Jan, St. Barthélemy, St. Kitts, Antigua, Guadeloupe, Desirade, Marie—Galante, Dominica, Martinique, St. Lucia, St. Vincent, Mustique, Barbados. (Symb.).

9376. **Neurolaena** R. Br.

Neurolaena lobata R. Br. in Trans. Linn. Soc. XV (1817) 120; Gris. Fl. 381; Duss 373.

St. Eustatius: Slope of the Quill above White Wall: n. 1188 B.

Saba: Top of the Mountain 800 M.: n. 1836 B.; locality unknown: n. 210 L.

Antill., Mexico, Columbia. (E. a. P.).

9389. **Erechthites** Raf.

Erechthites hieracifolia Raf. ex DC. Prodr. VI (1837) 294; Gris. Fl. 381; Duss 374; Millspaugh 534.

Erechthites praealta Raf. Fl. Ludov. (1817) 65.

St. Eustatius: Slope of the Quill near Bengalen: n. 9.

Saba: between Bottom and Marypoint 300 M.: n. 1485 B.; Gainbygut: n. 10.

St. Croix ex Millspaugh.

In all warmer parts of Amer., also in the Old world. (E. a. P.).

Erechthites valerianaefolia DC. Prod. VI (1837) 295.

Saba: between Bottom and Marypoint 350 M.: n. 1491 B.; Mountain 600—800 M.: n. 1786 B.; locality unknown: 166 L., 193 L. Amer. centr. and sept., Java. (Herb. Berlin).

9411. **Senecio** Linn.

Senecio sonchifolius Moench. Meth. Suppl. (1802) 231.

Emilia sonchifolia DC. Prod. VI (1837) 302; Gris. Fl. 381; Duss 374; Millspaugh 534.

St. Eustatius: near Boven 200 M.: n. 1234 B.; locality unknown n. 126 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1285 B., 1348 B.; Windwardside: n. 2309 B.

I also saw *Senecio sonchifolius* in the Laddergut.

St. Martin: Nakedboyhill 50—200 M.: n. 2707 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2890 B.; Milldrums Hill in plantations 300 M.: n. 3129 B.

I also saw *Senecio sonchifolius*: Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Indig. in the trop. of the Old world. (E. a. P.).

9529. **Chaptalia** Vent.

Chaptalia nutans Hemsl. Biol. Centr. Am. Bot. II 255; Millspaugh 533.

Leria nutans DC. Ann. Mus. Par. XIX (1812) 68; Gris. Fl. 383; Duss 375.

St. Eustatius: Slope of the Quill: n. 310.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1315 B.; Mountain 400 M.: n. 1769 B., 1774 B., 308; Crespeen—Rendez-vous: n. 307, 309.

St. Martin: Milldrums Hill 300 M.: n. 3179 B.; Mount Paradis 300—400 M.: n. 3339 B.

St. Croix ex Millspaugh.

In all warmer countries of Amer. (E. a. P.).

9595. **Sonchus** Linn.

Sonchus oleraceus Linn. Spec. (1753) 794; Gris. Fl. 384; Duss 375; Millspaugh 535. Wild salad.

St. Eustatius: Glassgut at the seashore near Oranjestad: n. 48 B.; Bengalen: n. 606 B.; along roads near Glassbottle: n. 884 B.; slope of the Quill: n. 41; Roundhill: n. 302.

Saba: lower part of the Bottom Mountain 300 M.: n. 1430 B.; Mountain 600 M.: n. 1780 B.; Bottom: n. 40; locality unknown: n. 40 L.

St. Martin: Milldrumhill in plantations 300 M.: n. 3133 B.

St. Croix ex Millspaugh.

Widely dispersed in both hemisph. (E. a. P.).

9596. **Lactuca** Linn.

Lactuca intybacea Jacq. Ic. Pl. Rar. I (1781) t. 162; Millspaugh 534.
Brachyrhamphus intybaceus DC. Prod. VII (1838) 177; Gris. Fl. 384; Duss 376.

St. Eustatius: Cultuurvlakte: n. 57; seashore: n. 307.

St. Croix ex Millspaugh.

Antill., Nicaragua, East Indies, Africa trop. (Gris. Fl.).

SECOND PART

HISTORICAL

HISTORICAL

CHAPTER I

HISTORICAL SKETCH.

The following persons have given informations about the Flora of the Dutch West Indian Islands. Liter. *Urban Symbolae Antillanae* Vol. I and Vol. III.

St. Eustatius.

J. B. Labat, between 1694 and 1705.

J. B. Labat in his: *Nouveau voyage aux isles de l'Amérique...* Editio 1724. La Haye, does not give any compendium of the vegetation of the Dutch Antilles.

N. J. Jacquin between 1755 and 1757.

N. J. Jacquin in his: *Selectarum stirpium americanum historia*, in qua ad Linnaeanum systema determinatae descriptaeque sistuntur plantae illae, quas in insulis Martinica, Jamaica, Domingo aliisque et in vicinae Continente parte observavit rariores; adjectis iconibus in solo natali delineastis. Vindobonae 1763, mentions only 6 plants found in St. Eustatius, of which I point out only those quoted by *Grisebach* in his: *Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe: Justicia sessilis.*

Justitia eustachyana. (*Beloperone eustachiana* Benth.).

Heliotropium gnaphaloides. (*Tournefortia gnaphalodes* R. Br.).

Coccoloba nivea.

Cactus triangularis. (*Cereus triangularis* Haw.).

(Herb. Banks. Brit. Mus. London; Herb. Willd. Berlin).

F. Masson 1780.

I only saw *Masson* mentioned by *O. Swartz* in his: *Flora Indiae occidentalis*, concerning *Microtea debilis*.

(Brit. Mus. London).

S. Fahlberg between 1785 and 1834.

I only saw *Fahlberg* mentioned by *O. Swartz* in his *Flora Indiae occidentalis* with reference to a few plants from *St. Barthélemy*.

(Herb. Swartz. Stockholm; herb. Thunberg Upsala).

Placide Duchassaing de Fontbressis about 1848.

P. D. de Fontbressis collected only a few plants in *St. Eustatius*; I saw the following mentioned in *Grisebach*: *Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe*:

no. 16. *Lepidium virginicum* Linn.

no. 22. *Polanisia viscosa* DC.

no. 24. *Capparis cynophallophora* Linn. γ *attenuata*.

no. 162. *Sida spinosa* Linn.

no. 286. *Tribulus maximus* Linn. (*Kallstroemia maxima* Wight et Arn.).

no. 386. *Stylosanthes procumbens* Sw. (*Stylosanthes hamata* Taubert).

no. 942. *Cyphiacanthus barbadensis* Ns. (*Ruellia tuberosa* Linn.).

no. 1047. *Heliophytum indicum* DC. (*Heliotropium indicum* Linn.).

no. 1074. *Lantana camara* Linn.

no. 1076. *Lantana involucrata* Linn.

(Herb. Göttingen).

B. A. Euphrasen 1788.

B. A. Euphrasen in his: *Beskrifning öfver Svenska vestindiska ön St. Barthélémi samt öarne St. Eustache och St. Christopher*. Stockholm 1798, makes also mention of a few plants from *St. Eustatius*. I did not think it necessary to quote them here as, according to the statement of *Urban* (*Symbolae Antillanae* I p. 49) it is impossible to control the determination of *Euphrasen*.

F. L. l'Herminier 1815.

M. D. Feenstra about 1836.

The few botanical data I could take from his: *De Nederlandsche West-indische eilanden in derzelver tegenwoordigen toestand*, Amsterdam, 1836—1837 are of no use to the Systematic Part. In describing the vegetation in the Third Part I shall say something about this paper of *Feenstra*.

W. F. R. Suringar 1885.

W. F. R. Suringar made a botanical investigation on the Dutch West Indian Islands in 1885.

Further details about this expedition will be found in Chapter II of the Historical Part of this Flora.

(Herb. Leiden, Herb. Krug et Urban Berlin).

J. J. Walch about 1889.

In the Report of the 60 meeting of the Br. Ass. f. Adv. Sc. Leeds 1890 p. 448 the following is said about the collection *Walch*: A small collection of plants numbering 143 specimens, was received from *Mr. J. J. Walch, R. N.* This collection includes plants from Dominica, St. Martin, St. Eustatius, St. Kitts, St. Lucia and Grenada. Most of the plants consisted of common West Indian species, presumably such as would be met with in the more accessible spots in the various places visited.

(Herbar. Kew.).

F. A. F. C. Went 1902

F. A. F. C. Went is his: Rapport omtrent den toestand van land- en tuinbouw op de Nederlandsche Antillen, bijlage V van het Koloniaal verslag van Curaçao van 1902, gives some observations on the vegetation of St. Eustatius; in so far as these observations will be interesting to us I shall deal with them in the Third Part of this Flora.

J. van Grol-Meyers 1904—1906.

Two collections of plants gathered by *Mrs. van Grol-Meyers* will be treated more fully in Chapter II of the Historical Part of this Flora.

(Herb. Utrecht; Herb. Koloniaal Museum Haarlem).

I. Boldingh 1906.

The botanical investigations I made in 1906 will more largely be dwelt on in Chapter II of the Historical Part of this Flora.

Besides the above mentioned data I found in *Grisebach*: Flora of the British W. I. Islands that the following plants were also collected in St. Eustatius:

p. 66. *Lithophila muscoides* Sw.

p. 75. *Sida ulmifolia* Cav.

And in *Grisebach*: Systematische Untersuchungen über die Vegetation der Kariben, insbesondere der Insel Guadeloupe I found: 1472. *Aspidium macrophyllum* Sw. (*Aspidium martinicense* Spr.).

Saba.

J. H. Labat between 1694 and 1705.

Conformable to what I mentioned under St. Eustatius.

J. E. Forsström 1805—1812.

I saw *Forsström* mentioned only in reference to a few plants in *Urban*, *Symbolae Antillanae*.

(Herb. Swartz and Herb. Stockholm).

M. D. Feenstra about 1836.

Conformable to what I mentioned under St. Eustatius.

Placide Duchassaing de Fontbressis about 1848.

According to *Grisebach*: *Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe*, *P. D. de Fontbressis* collected in Saba: n. 187. *Guazuma tomentosa* Kth.

O. Kuntze 1874.

Besides at *Caesalpinia ciliata* Urb. I did not see *O. Kuntze* mentioned at the label of any plant in the Herbarium of Krug and Urban in Berlin. In his: *Um die Erde. Reisebericht eines Naturforschers*, Leipzig 1881, *Kunze* mentions only *Melocactus communis* Link et Otto.

(Herb. Krug et Urban Berlin).

W. F. R. Suringar 1885.

F. A. F. C. Went 1902.

I. Boldingh 1906.

For these three persons I refer to what was said under St. Eustatius.

A. C. W. Lionarons 1907.

The plants gathered by *Lionarons* will fully be treated in Chapter II of the Historical Part of this Flora.

St. Martin.

J. B. du Tertre about 1650—1656.

J. B. Labat between 1694 and 1705.

Conformable to what I mentioned under St. Eustatius.

N. J. Jacquin between 1755 and 1757.

N. J. Jacquin in his: *Select. Stirp. Amer.*, does not mention but 8 plants found in St. Martin. I will quote only the plants enu-

merated in *Grisebach* Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe:

Myginda uragoga cf. *Symb. Antill.* V. p. 80. (*Rhacoma crosso-petalum* Linn.).

Rhamnus colubrinus (*Colubrina ferruginosa* Brong.).

Malpighia linearis (*Malpighia angustifolia* Linn.).

Corchorus hirsutus Linn.

Lobelia Plumieri (*Scaevola Plumieri* Vahl).

A. Plée 1821.

After a discussion I had with *Prof. I. Urban*, I think it superfluous to quote the few plants that are collected by *Mr. Plée*. (*Herb. Mus. Paris*).

M. D. Feenstra about 1836.

W. F. R. Suringar 1885.

J. J. Walch about 1889.

F. A. F. C. Went 1902.

I. Boldingh 1906.

For these 5 persons I refer to what was said under *St. Eustatius*.

According to *Grisebach*: Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe, also the following plants were collected in *St. Martin*:

n. 868. *Metastelma paralias* Decs. (*Metastelma parviflorum* R. Br.).

n. 1009. *Cuscuta americana* Linn.

According to the notes I made about the persons and collections afore said I did not think it desirable to treat any of the smaller collections. The difficulties in getting all these plants would not be in proportion to the small amount of greater completeness of the plants then mentioned in this *Flora*.

So I have treated in the Systematic Part only the collections made by *Suringar*, *van Grol-Meyers*, *Boldingh* and *Lionarons*.

It will appear from these collections that I have about 5000 numbers of plants at my disposal, a big number when we take into consideration that the surface of the 3 Islands does not surpass 140 □ km.

CHAPTER II

NOTES ON THE LARGER COLLECTIONS.

Collection W. F. R. Suringar.

Dr. J. Valckenier Suringar was so kind as to allow me to make use of the diary written by his father *Prof. W. F. R. Suringar* during his botanical investigations of the Dutch West Indian Islands in 1885.

From these notes together with the data drawn from the labels attached to the collected plants I was enabled to make the following list of the localities visited by *Suringar* and the numbers of plants collected there.

St. Eustatius: April 8th—18th and May 7th—18th.

April 8th.	Concordiabay, Turtlebay.	} coll. 70 nos.
” 15th.	Fairplay, English Quarter.	
May 7th.	Bengalen.	
April 9th.	Signalhill and environment.	} coll. 50 nos.
” 11th.	Little Mountain, Tumbledown dickbay.	
” 17th.	Boven, Little Mountain.	
May 8th.	Fort Amsterdam.	
” 9th.	Gilboohill.	
April 8th.	Seashore.	} coll. 60 nos.
” 10th.	Seashore.	
” 11th.	Sugarloaf and White Wall.	} coll. 35 nos.
May 11th.	Sugarloaf.	
April 13th.	} Quill. coll. 170 nos.	
” 14th.		
” 16th.		
May 18th.		
” 13th.		

On his 16 excursions through St. Eustatius *Suringar* has evidently collected 385 nos.

All the localities visited by *Suringar* were also investigated by me.

In proportion to the other two islands St. Eustatius was investigated by *Suringar* best of all, thanks to a longer stay there.

Saba: April 21—28th.

- April 22th. Paris and Greathill and surroundings of the Bottom.
coll. 50 nos.
- „ 22th. Peperpot near Springbaygut. coll. 35 nos.
- „ 23th. Top of the Mountain. coll. 100 nos.
- „ 24th. }
„ 26th. } Surroundings of the Bottom. coll. 50 nos.
„ 28th. }
- „ 25th. Gainbygut. coll. 30 nos.
- „ 27th. Round the Island. coll. 90 nos.
- „ 27th. Laddergut. coll. 40 nos.

Suringar has evidently collected during these 9 excursions 395 nos.

I myself saw all the localities visited by *Suringar*.

St. Martin: April 30th—May 5th.

- April 30th. Saltpond and Fort Amsterdam. coll. 40 nos.
- May 1st. Centryhill and Surroundings. coll. 45 nos.
- „ 2nd. from Philipsburg to Simonsbay. coll. 50 nos.
- „ 3rd. Nakedboyhill, Princequarter. coll. 25 nos.
- „ 4th. from Philipsburg to Cul de Sac and French frontier.
coll. 60 nos.
- „ 5th. from Philipsburg to Guanabay. coll. 20 nos.

Suringar has collected during these 6 excursions 240 nos.

The short time *Suringar* could spend on St. Martin is the reason why this island was explored but on a very small scale; the French part of St. Martin has not been studied; all the localities named by *Suringar* were also visited by me.

The collection *Suringar* is preserved is „s Rijks-herbarium” at Leiden; duplicates are to be found in the collection Herb. Krug et Urban in Berlin (K. Bot. Gart. und Museum Steglitz-Dahlem). The greater part of the *Suringar* plants were determined by *I. Urban* before I took up the study of the West Indian Flora and another part was determined by him afterwards.

Collections Mrs. J. van Grol-Meyers.

The two collections of dried plants given by *Mrs. J. van Grol-Meyers* to the Koloniaal Museum at Haarlem and the Her-

barium of the Botanical Laboratory of the University of Utrecht consist both of about 350 numbers of well dried plants with ample notes on the colour of flowers and on the way the inhabitants of St. Eustatius make use of these plants.

In my paper: *Lijst van Planten, die door de Bewoners van de drie Nederlandsche Antillen St. Eustatius, Saba en St. Martin als geneeskrachtig worden beschouwd.* Bull. Kolon. Mus. Haarlem n. 38 (1907) p. 93—112, these notes have been of great use to me.

As might be expected the greater part of the plants in these collections are common tropical plants growing in the more accessible parts of the Island; there is moreover a fine collection of plants from the Quill. The examination these plants before I entered upon my voyage, has rendered it easy for me to recognise them in their natural state.

The cultivated plants sent in by *Mrs. van Grol* facilitated my paying attention also to these plants, and this was the more agreeable for me as I could thus the better comply with the wishes of the „Commissie van het F. W. van Eeden-fonds.”

Thanks to the great number of flowers and fruits occurring in the collection van Grol-Meyers it was not too difficult for me, though beginning with the study of the West Indian Flora to find out the names.

The following list contains the names of the plants collected by *Mrs. J. van Grol-Meyers*.

1. Collection J. van Grol-Meyers of the Koloniaal Museum at Haarlem.

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| 1 <i>Asclepias nivea</i> . | 15 <i>Sida carpinifolia</i> . |
| 2 <i>Commelina virginica</i> . | 16 <i>Amarantus tristis</i> . |
| 3 <i>Parthenium Hysterophorus</i> . | 17 <i>Argemone mexicana</i> . |
| 4 <i>Cassia occidentalis</i> . | 18 <i>Antigonon leptopus</i> . |
| 5 <i>Chenopodium ambrosioides</i> . | 19 <i>Ipomoea pentaphylla</i> . |
| 6 <i>Ageratum conyzoides</i> . | 20 <i>Triphasia trifoliata</i> . |
| 7 <i>Heliotropium parviflorum</i> . | 21 <i>Passiflora quadrangularis</i> . |
| 8 <i>Euphorbia pilulifera</i> . | 22 <i>Cassia bicapsularis</i> . |
| 9 <i>Chenopodium murale</i> . | 23 <i>Ricinus communis</i> . |
| 10 <i>Scoparia dulcis</i> . | 24 <i>Capsicum dulce</i> . |
| 11 <i>Capraria biflora</i> . | 26 <i>Abrus precatorius</i> . |
| 12 <i>Datura Metel</i> . | 28 <i>Polanisia viscosa</i> . |
| 13 <i>Datura Stramonium</i> . | 29 <i>Gynandropsis pentaphylla</i> . |
| 14 <i>Heliotropium indicum</i> . | 30 <i>Poinciana regia</i> . |

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| 31 <i>Plumbago scandens</i> . | 76 <i>Eugenia uniflora</i> . |
| 32 <i>Euphorbia heterophylla</i> . | 77 <i>Linociera compacta</i> . |
| 33 <i>Salvia serotina</i> . | 78 <i>Piper reticulatum</i> . |
| 34 <i>Phyllanthus niruri</i> . | 79 <i>Passiflora laurifolia</i> . |
| 35 <i>Momordica Charantia</i> . | 80 <i>Byrsonima spicata</i> . |
| 36 <i>Acacia macracantha</i> . | 81 <i>Cassia glandulosa</i> . |
| 37 <i>Leucaena glauca</i> . | 82 <i>Byrsonima spicata</i> . |
| 38 <i>Terminalia Catappa</i> . | 83 <i>Ruellia tuberosa</i> . |
| 39 <i>Acacia macracantha</i> . | 85 <i>Opuntia Ficus indica</i> . |
| 40 <i>Tamarindus indica</i> . | 86 <i>Melicocca bijuga</i> . |
| 41 <i>Psidium guajava</i> . | 87 <i>Citrus spec.</i> |
| 42 <i>Zephyranthes carinata</i> . | 88 <i>Anona squamosa</i> . |
| 43 <i>Calotropis procera</i> . | 89 <i>Anona muricata</i> . |
| 44 <i>Melia azedarach</i> . | 90 <i>Phyllantus distichus</i> . |
| 45 <i>Anacardium occidentale</i> . | 91 <i>Moringa oleifera</i> . |
| 46 <i>Capparis cynophallophora</i> . | 93 <i>Foeniculum vulgare</i> . |
| 47 <i>Solanum racemosum igneum</i> . | 95 <i>Carica Papaya</i> . |
| 48 <i>Plumiera rubra</i> . | 96 <i>Solanum lycopersicum</i> . |
| 49 <i>Plumiera alba</i> . | 97 <i>Solanum lycopersicum</i> . |
| 50 <i>Oncidium spec.</i> | 98 <i>Solanum esculentum</i> . |
| 51 <i>Brassavola rigida</i> . | 99 <i>Cuscuta americana</i> . |
| 52 <i>Tecoma leucoxydon</i> . | 100 <i>Clusia alba</i> . |
| 53 <i>Picrasma antillana</i> . | 101 <i>Coffea arabica</i> . |
| 54 <i>Croton flavens</i> . | 102 <i>Theobroma Cacao</i> . |
| 55 <i>Eugenia axillaris</i> . | 103 <i>Eugenia Jambos</i> . |
| 56 <i>Lantana involucrata</i> . | 104 <i>Centrosema virginianum</i> . |
| 57 <i>Mangifera indica</i> . | 105 <i>Cecropia peltata</i> . |
| 58 <i>Punica Granatum</i> . | 106 <i>Bursera simaruba</i> . |
| 59 <i>Achras sapota</i> . | 107 <i>Citharexylum quadrangu-</i>
<i>lare</i> . |
| 60 <i>Lochnera rosea</i> . | 108 <i>Artocarpus incisa</i> . |
| 61 <i>Pluchea odorata</i> . | 109 <i>Eugenia ligustrina</i> . |
| 63 <i>Malpighia puniceifolia</i> . | 110 <i>Lantana Camara</i> . |
| 66 <i>Vigna repens</i> . | 111 <i>Comocladia ilicifolia</i> . |
| 67 <i>Caesalpinia pulcherrima</i> . | 112 <i>Persea americana</i> . |
| 68 <i>Caesalpinia pulcherrima</i> . | 114 <i>Myrcia paniculata</i> . |
| 69 <i>Caesalpinia ciliata</i> . | 116 <i>Nectandra coriacea</i> . |
| 70 <i>Mammea americana</i> . | 117 <i>Heliconia Bihai</i> . |
| 71 <i>Spondias lutea</i> . | 118 <i>Tillandsia utriculata</i> . |
| 72 <i>Spondias purpurea</i> . | 119 <i>Canavalia obtusifolia</i> . |
| 73 <i>Chrysobalanus icaco</i> . | 120 <i>Coccoloba uvifera</i> . |
| 74 <i>Justicia sessilis</i> . | 121 <i>Costus speciosus</i> . |
| 75 <i>Hymenaea Courbaril</i> . | |

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| 123 <i>Aristolochia odoratissima</i> . | 168 <i>Jatropha curcas</i> . |
| 124 <i>Verbena chamaedrifolia</i> . | 169 <i>Hibiscus radiatus</i> . |
| 125 <i>Lawsonia inermis</i> . | 170 <i>Nymphaea spec.</i> |
| 126 <i>Lawsonia inermis</i> . | 171 <i>Jatropha multifida</i> . |
| 127 <i>Brunfelsia americana</i> . | 172 <i>Leonotis nepetaefolia</i> . |
| 128 <i>Amarantus paniculatus</i> . | 173 <i>Erigeron canadensis</i> . |
| 129 <i>Cissus sicyoides</i> . | 174 <i>Stylosanthes hamata</i> . |
| 130 <i>Urera caracasana</i> . | 175 <i>Hymenaea Courbaril</i> . |
| 131 <i>Codiaeum variegatum</i> . | 175a <i>Boerhaavea hirsuta</i> . |
| 132 <i>Phaseolus lunatus</i> . | 176 <i>Achyranthes obtusifolia</i> . |
| 133 <i>Phaseolus vulgaris</i> . | 177 <i>Croton lobatus</i> . |
| 135 <i>Antigonon cinerascens</i> . | 178 <i>Stenobium stans</i> . |
| 137 <i>Aegiphila martinicensis</i> . | 179 <i>Stylosanthes hamata</i> . |
| 138 <i>Althaea officinalis</i> . | 181 <i>Waltheria americana</i> . |
| 139 <i>Duranta repens</i> . | 182 <i>Sida cordifolia</i> . |
| 140 <i>Bixa Orellana</i> . | 183 <i>Thunbergia fragans</i> . |
| 141 <i>Brassica integrifolia</i> . | 184 <i>Urechites suberecta</i> . |
| 142 <i>Hura crepitans</i> . | 185 <i>Triumfetta rhomboidea</i> . |
| 143 <i>Jasminum spec.</i> | 188 <i>Passiflora suberosa</i> . |
| 144 <i>Stigmatophyllum periploci-</i>
<i>folium</i> . | 189 <i>Neurogramme calomelanos</i> . |
| 145 <i>Cordia Sebestena</i> . | 190 <i>Solanum aculeatissimum</i> . |
| 146 <i>Fourcroya gigantea</i> . | 191 <i>Lonicera japonica</i> . |
| 147 <i>Clerodendron aculeatum</i> . | 192 <i>Clerodendron fallax</i> . |
| 149 <i>Plumbago capensis</i> . | 193 <i>Sesbania grandiflora</i> . |
| 150 <i>Parkinsonia aculeata</i> . | 194 <i>Leonurus sibiricus</i> . |
| 151 <i>Quisqualis indica</i> . | 195 <i>Randia aculeata</i> . |
| 152 <i>Ipomoea pes caprae</i> . | 196 <i>Jatropha gossypifolia</i> . |
| 153 <i>Mirabilis Jalapa</i> . | 197 <i>Jatropha gossypifolia</i> . |
| 154 <i>Mirabilis Jalapa</i> . | 198 <i>Vernonia punctata</i> . |
| 155 <i>Chrysobalanus icaco</i> . | 200 <i>Krameria ixina</i> . |
| 156 <i>Picrasma antillana</i> . | 201 <i>Abutilon indicum</i> . |
| 157 <i>Indigofera suffruticosa</i> . | 203 <i>Rauwolfia Lamarckiana</i> . |
| 158 <i>Coleus scutellarioides</i> . | 204 <i>Galactia rubra</i> . |
| 159 <i>Cosmos sulphureus</i> . | 210 <i>Cajanus indicus</i> . |
| 160 <i>Sambucus canadensis</i> . | 211 <i>Rivina humilis</i> . |
| 161 <i>Hibicus Rosa—sinensis</i> . | 212 <i>Aegiphila martinicensis</i> . |
| 162 <i>Nopalea coccinellifera</i> . | 213 <i>Psychotria rufescens</i> . |
| 163 <i>Opuntia Tuna</i> . | 214 <i>Andropogon Schoenanthus</i> . |
| 164 <i>Gomphrena globosa</i> . | 215 <i>Aristida americana</i> . |
| 165 <i>Codiaeum variegatum</i> . | 216 <i>Mimosa pudica</i> . |
| 167 <i>Codiaeum variegatum</i> . | 217 <i>Tillandsia recurvata</i> . |
| | 218 <i>Cissampelos Pareira</i> . |

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| 220 <i>Ipomoea fastigiata</i> . | 265 <i>Cenchrus tribuloides</i> . |
| 221 <i>Porana paniculata</i> . | 266 <i>Cyperus elegans</i> . |
| 222 <i>Jacquemontia pentantha</i> . | 267 <i>Tournefortia gnaphalodes</i> . |
| 223 <i>Boerhaavea erecta</i> . | 268 <i>Epidendrum ciliare</i> . |
| 224 <i>Operculina ventricosa</i> . | 269 <i>Scleria lithosperma</i> . |
| 225 <i>Ibatia maritima</i> . | 271 <i>Chiococca racemosa</i> . |
| 227 <i>Solanum lycopersicum</i> . | 272 <i>Allium ascalonicum</i> . |
| 228 <i>Bouchea Ehrenbergii</i> . | 273 <i>Pilea semidentata</i> . |
| 229 <i>Euphorbia thymifolia</i> . | 274 <i>Anona montana</i> . |
| 230 <i>Ambrosia hispida</i> . | 275 <i>Sida glomerata</i> . |
| 231 <i>Russelia juncea</i> . | 277 <i>Porophyllum ellipticum</i> . |
| 232 <i>Melochia tomentosa</i> . | 278 <i>Allamanda cathartica</i> . |
| 233 <i>Wedelia buphthalmoides</i> . | 280 <i>Calonyction speciosum</i> . |
| 234 <i>Panicum divaricatum</i> . | 281 <i>Ipomoea pentaphylla</i> . |
| 235 <i>Clitoria ternatea</i> . | 282 <i>Maranta arundinacea</i> . |
| 237 <i>Eleusine indica</i> . | 283 <i>Cucurbita maxima</i> . |
| 238 <i>Petiveria alliacea</i> . | 284 <i>Pithecolobium ungius-cati</i> . |
| 239 <i>Allophylus occidentalis</i> . | 285 <i>Crotalaria verrucosa</i> . |
| 240 <i>Tephrosia cathartica</i> . | 286 <i>Crotalaria retusa</i> . |
| 241 <i>Hyptis pectinata</i> . | 287 <i>Bryophyllum pinnatum</i> . |
| 242 <i>Synedrella nodiflora</i> . | 288 <i>Ricinus communis</i> . |
| 243 <i>Medicago sativa</i> . | 289 <i>Ricinus communis</i> . |
| 244 <i>Gossypium barbadense</i> . | 290 <i>Manihot utilissima</i> . |
| 245 <i>Dioscorea alata</i> . | 291 <i>Haematoxylon campechianum</i> . |
| 248 <i>Beloperone eustachyana</i> . | 292 <i>Salvia occidentalis</i> . |
| 249 <i>Desmodium triflorum</i> . | 293 <i>Stachytarpheta jamaicensis</i> . |
| 250 <i>Alysicarpus nummularifolius</i> . | 294 <i>Cardiospermum halicacabum</i> . |
| 251 <i>Hibiscus esculentus</i> . | 295 <i>Aloe vera</i> . |
| 252 <i>Hibiscus esculentus</i> . | 296 <i>Ocimum micranthum</i> . |
| 253 <i>Canna indica</i> . | 297 <i>Bryophyllum pinnatum</i> . |
| 254 <i>Canna indica</i> . | 298 <i>Hymenocallis caribaea</i> . |
| 255 <i>Crescentia Cujete</i> . | 299 <i>Eucharis grandiflora</i> . |
| 256 <i>Crotalaria incana</i> . | 300 <i>Sansevieria guineensis</i> . |
| 257 <i>Polypodium phyllitidis</i> . | 301 <i>Pilea microphylla</i> . |
| 258 <i>Dryopteris parasitica</i> . | 302 <i>Pilea microphylla</i> . |
| 259 <i>Bignonia ungius-cati</i> . | 304 <i>Blechum Brownei</i> . |
| 260 <i>Oplismenus setarius</i> . | 305 <i>Jasminum pubescens</i> . |
| 261 <i>Polypodium lycopodioides</i> . | 306 <i>Panax fruticosum</i> . |
| 262 <i>Mariscus brizaeus</i> . | 307 <i>Panax fruticosum</i> . |
| 263 <i>Smilax coriacea</i> . | 308 <i>Codiaeum variegatum</i> . |
| 264 <i>Xanthosoma spec.</i> | 309 <i>Codiaeum variegatum</i> . |

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| 310 <i>Codiaeum variegatum</i> . | 324 <i>Hippomane mancinella</i> . |
| 311 <i>Codiaeum variegatum</i> . | 325 <i>Musa paradisiaca</i> . |
| 312 <i>Gaillardia aristata</i> . | 326 <i>Verbena chamaedrifolia</i> . |
| 314 <i>Piscidia piscipula</i> Sarg. | 329 <i>Desmodium supinum</i> . |
| 316 <i>Angelonia angustifolia</i> . | 330 <i>Lochnera rosea</i> . |
| 317 <i>Hibiscus schizopetalus</i> . | 331 <i>Panax fruticosum</i> . |
| 318 <i>Bromelia pinguin</i> . | 332 <i>Comocladia ilicifolia</i> . |
| 321 <i>Ceiba pentandra</i> . | 334 <i>Musa paradisiaca</i> . |
| 322 <i>Pisonia subcordata</i> . | 336 <i>Nerium Oleander</i> . |
| 323 <i>Villamilla octandra</i> . | 339 <i>Portulaca halimoides</i> . |

**Collection J. van Grol-Meyers of the Herbarium of the
Botanical Institute of the University in Utrecht.**

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|---------------------------------------|--------------------------------------|
| 1 <i>Vigna repens</i> . | 29 <i>Portulaca oleracea</i> . |
| 2 <i>Commelina virginica</i> . | 30 <i>Kallstroemia maxima</i> . |
| 3 <i>Parthenium Hysterophorus</i> . | 31 <i>Jasminum azoricum</i> . |
| 4 <i>Cassia occidentalis</i> . | 32 <i>Polanisia viscosa</i> . |
| 5 <i>Chenopodium ambrosioides</i> . | 33 <i>Gynandropsis pentaphylla</i> . |
| 6 <i>Ageratum conyzoides</i> . | 34 <i>Poinciana regia</i> . |
| 7 <i>Heliotropium parviflorum</i> . | 35 <i>Plumbago scandens</i> . |
| 8 <i>Euphorbia pilulifera</i> . | 36 <i>Euphorbia heterophylla</i> . |
| 9 <i>Chenopodium murale</i> . | 37 <i>Salvia serotina</i> . |
| 10 <i>Scoparia dulcis</i> . | 38 <i>Priva echinata</i> . |
| 11 <i>Capraria biflora</i> . | 39 <i>Melochia tomentosa</i> . |
| 12 <i>Datura Stramonium</i> . | 40 <i>Murraya exotica</i> . |
| 13 <i>Datura Metel</i> . | 41 <i>Phyllanthus niruri</i> . |
| 14 <i>Datura Stramonium</i> . | 42 <i>Momordica Charantia</i> . |
| 15 <i>Heliotropium indicum</i> . | 43 <i>Microtea debilis</i> . |
| 16 <i>Sida carpinifolia</i> . | 44 <i>Leucaena glauca</i> . |
| 17 <i>Amarantus tristis</i> . | 45 <i>Terminalia Catappa</i> . |
| 18 <i>Amarantus spinosus</i> . | 46 <i>Solanum racemosum igneum</i> . |
| 19 <i>Amarantus polygonoides</i> . | 47 <i>Tamarindus indica</i> . |
| 20 <i>Argemone mexicana</i> . | 48 <i>Psidium Guajava</i> . |
| 21 <i>Antigonon leptopus</i> . | 49 <i>Allamanda cathartica</i> . |
| 22 <i>Lochnera rosea</i> . | 50 <i>Acacia macracantha</i> . |
| 23 <i>Capsicum dulce</i> . | 51 <i>Capsicum frutescens</i> . |
| 24 <i>Passiflora quadrangularis</i> . | 52 <i>Jatropha curcas</i> . |
| 25 <i>Cassia bicapsularis</i> . | 53 <i>Cordia speciosa</i> . |
| 26 <i>Ricinus communis</i> . | 54 <i>Calotropis procera</i> . |
| 27 <i>Ricinus communis</i> . | 55 <i>Cajanus indicus</i> . |
| 28 <i>Portulaca oleracea</i> . | 56 <i>Clerodendron fallax</i> . |

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| 57 <i>Brunfelsia americana</i> . | 101 <i>Fourcroya gigantea</i> . |
| 58 <i>Ixora Jucunda</i> . | 102 <i>Aloe vera</i> . |
| 59 <i>Solanum torvum</i> . | 103 <i>Bromelia pinguin</i> . |
| 61 <i>Lagerstroemia indica</i> . | 104 <i>Phoenix dactylifera</i> . |
| 62 <i>Canna indica</i> . | 105 <i>Amarantus paniculatus</i> . |
| 63 <i>Talinum triangulare</i> . | 106 <i>Achras sapota</i> . |
| 64 <i>Plumbago capensis</i> . | 107 <i>Codiaeum variegatum</i> . |
| 65 <i>Quisqualis indica</i> . | 108 <i>Nerium Oleander</i> . |
| 66 <i>Jatropha multifida</i> . | 109 <i>Tecoma leucoxydon</i> . |
| 67 <i>Clusia alba</i> . | 110 <i>Artocarpus incisa</i> . |
| 68 <i>Plumiera rubra</i> . | 112 <i>Russelia juncea</i> . |
| 69 <i>Peperomia petiolaris</i> . | 113 <i>Hibiscus Rosa-sinensis</i> . |
| 70 <i>Peireskia aculeata</i> . | 114 <i>Hippeastrum puniceum</i> . |
| 71 <i>Eleutherine plicata</i> . | 115 <i>Mariscus brizaeus</i> . |
| 72 <i>Verbena chamaedrifolia</i> . | 116 <i>Pluchea odorata</i> . |
| 73 <i>Parkinsonia aculeata</i> . | 117 <i>Coleus scutellarioides</i> . |
| 74 <i>Caesalpinia pulcherrima</i> . | 119 <i>Angelonia angustifolia</i> . |
| 75 <i>Caesalpinia pulcherrima</i> . | 120 <i>Croton flavens</i> . |
| 76 <i>Ixora coccinea</i> . | 121 <i>Althaea officinalis</i> . |
| 77 <i>Punica Granatum</i> . | 122 <i>Foeniculum vulgare</i> . |
| 78 <i>Malpighia puniceifolia</i> . | 123 <i>Begonia spec</i> . |
| 79 <i>Sambucus canadensis</i> . | 124 <i>Codiaeum variegatum</i> . |
| 81 <i>Panax fruticosum</i> . | 125 <i>Codiaeum variegatum</i> . |
| 82 <i>Panax fruticosum</i> . | 126 <i>Senecio sonchifolius</i> . |
| 83 <i>Panax fruticosum</i> . | 127 <i>Cassia fistula</i> . |
| 84 <i>Citrus spec</i> . | 128 <i>Citharexylum quadrangulare</i> . |
| 85 <i>Tabernaemontana coronaria</i> . | 129 <i>Ruellia tuberosa</i> . |
| 86 <i>Boerhaavea erecta</i> . | 130 <i>Mangifera indica</i> . |
| 87 <i>Boerhaavea hirsuta</i> . | 131 <i>Ocimum micranthum</i> . |
| 88 <i>Lantana Camara</i> . | 132 <i>Jatropha gossypifolia</i> . |
| 89 <i>Lantana involucrata</i> . | 133 <i>Jatropha gossypifolia</i> . |
| 90 <i>Trianthema portulacastrum</i> . | 134 <i>Asclepias nivea</i> . |
| 91 <i>Anona squamosa</i> . | 135 <i>Fleurya aestuans</i> . |
| 92 <i>Croton lobatus</i> . | 136 <i>Leonurus sibiricus</i> . |
| 93 <i>Achyranthes obtusifolia</i> . | 137 <i>Stigmatophyllon periplocifolium</i> . |
| 94 <i>Lonicera japonica</i> . | 138 <i>Leonotis nepetaefolia</i> . |
| 95 <i>Clerodendron aculeatum</i> . | 139 <i>Melia azedarach</i> . |
| 96 <i>Bauhinia Kappleri</i> . | 140 <i>Neurogramme calomelanos</i> . |
| 97 <i>Jasminum undulatum</i> . | 141 <i>Justicia sessilis</i> . |
| 98 <i>Gaillardia aristata</i> . | 142 <i>Nicotiana Tabacum</i> . |
| 99 <i>Cassia glandulosa</i> . | 143 <i>Solanum lycopersicum</i> . |
| 100 <i>Stenolobium stans</i> . | |

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| 144 | <i>Passiflora laurifolia.</i> | 186 | <i>Cuscuta americana.</i> |
| 145 | <i>Erigeron canadensis.</i> | 187 | <i>Chiococca racemosa.</i> |
| 146 | <i>Persea americana.</i> | 188 | <i>Smilax coriacea.</i> |
| 147 | <i>Hura crepitans.</i> | 189 | <i>Capparis frondosa.</i> |
| 148 | <i>Phyllanthus distichus.</i> | 190 | <i>Capparis cynophallophora.</i> |
| 149 | <i>Crescentia Cujete.</i> | 191 | <i>Capparis cynophallophora.</i> |
| 150 | <i>Pilea microphylla.</i> | 192 | <i>Pilea semidentata.</i> |
| 151 | <i>Opuntia Ficus indica.</i> | 193 | <i>Peperomia glabella.</i> |
| 152 | <i>Opuntia Tuna.</i> | 194 | <i>Panicum divaricatum.</i> |
| 154 | <i>Cardiospermum halicabum.</i> | 195 | <i>Anthurium cordatum.</i> |
| 155 | <i>Cissus sicyoides.</i> | 196 | <i>Casearia parvifolia.</i> |
| 156 | <i>Cucumis Anguria.</i> | 198 | <i>Coccoloba uvifera.</i> |
| 157 | <i>Ambrosia hispida.</i> | 199 | <i>Carica Papaya.</i> |
| 158 | <i>Tephrosia cathartica.</i> | 200 | <i>Bursera simaruba.</i> |
| 159 | <i>Cyperus rotundus.</i> | 201 | <i>Mussaenda frondosa.</i> |
| 160 | <i>Caesalpinia crista.</i> | 202 | <i>Eucharis grandiflora.</i> |
| 161 | <i>Rivina humilis.</i> | 203 | <i>Codiaeum variegatum.</i> |
| 162 | <i>Desmanthus virgatus.</i> | 204 | <i>Codiaeum variegatum.</i> |
| 163 | <i>Medicago sativa.</i> | 205 | <i>Carica Papaya.</i> |
| 164 | <i>Ipomoea dissecta.</i> | 206 | <i>Allium ascalonicum.</i> |
| 165 | <i>Wedelia bupthalmoides.</i> | 207 | <i>Anacardium occidentale.</i> |
| 166 | <i>Beloperone eustachyana.</i> | 209 | <i>Phoradendron trinervium.</i> |
| 167 | <i>Maranta arundinacea.</i> | 210a | <i>Piscidia piscipula.</i> |
| 168 | <i>Nectandra coriacea.</i> | 213 | <i>Myrcia splendens.</i> |
| 169 | <i>Linociera compacta.</i> | 214 | <i>Theobroma Cacao.</i> |
| 170 | <i>Cassia glandulosa.</i> | 215 | <i>Caesalpinia coriaria.</i> |
| 171 | <i>Croton astroites.</i> | 216 | <i>Hymenaea Courbaril.</i> |
| 172 | <i>Indigofera suffruticosa.</i> | 217 | <i>Quararibea turbinata.</i> |
| 173 | <i>Anona muricata.</i> | 218 | <i>Tabernaemontana citrifolia.</i> |
| 174 | <i>Piper dilatatum.</i> | 218a | <i>Psychotria horizontalis.</i> |
| 175 | <i>Psychotria rufescens.</i> | 219 | <i>Indigofera suffruticosa.</i> |
| 176 | <i>Randia aculeata.</i> | 220 | <i>Philodendron dispar.</i> |
| 177 | <i>Myrcia splendens.</i> | 221 | <i>Theobroma Cacao.</i> |
| 178 | <i>Bignonia ungius-cati.</i> | 222 | <i>Urera caracasana.</i> |
| 179 | <i>Polypodium lycopodioides.</i> | 223 | <i>Boerhaavea erecta.</i> |
| 180 | <i>Pisonia fragans.</i> | 223a | <i>Heliconia Bihai.</i> |
| 181 | <i>Pisonia subcordata.</i> | 224 | <i>Chrysobalanus icaco.</i> |
| 182 | <i>Sida cordifolia.</i> | 225 | <i>Pharus glaber.</i> |
| 183 | <i>Polypodium phyllitidis.</i> | 226 | <i>Triphasia trifoliata.</i> |
| 184 | <i>Mammea americana.</i> | 227 | <i>Moringa oleifera.</i> |
| 185 | <i>Clusia alba.</i> | 228 | <i>Gomphrena globosa.</i> |
| | | 229 | <i>Hibiscus radiatus.</i> |

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| 230 <i>Solanum lycopersicum</i> . | 270 <i>Ipomoea fastigiata</i> . |
| 231 <i>Bixa Orellana</i> . | 271 <i>Passiflora suberosa</i> . |
| 232 <i>Boussingaultia baselloides</i> . | 272 <i>Vernonia punctata</i> . |
| 233 <i>Ocimum micranthum</i> . | 274 <i>Oplismenus setarius</i> . |
| 234 <i>Lawsonia inermis</i> . | 276 <i>Dryopteris parasitica</i> . |
| 235 <i>Abrus precatorius</i> . | 277 <i>Ibatia maritima</i> . |
| 236 <i>Centrosema virginianum</i> . | 278 <i>Setaria setosa</i> . |
| 237 <i>Rauwolfia Lamarckiana</i> . | 279 <i>Oplismenus setarius</i> . |
| 239 <i>Mirabilis Jalapa</i> . | 280 α <i>Epidendrum papilionaceum</i> . |
| 240 <i>Mirabilis Jalapa</i> . | 281 <i>Epidendrum ciliare</i> . |
| 241 <i>Codiaeum variegatum</i> . | 282 <i>Galactia rubra</i> . |
| 243 <i>Cosmos sulphureus</i> . | 283 <i>Capsicum dulce</i> . |
| 244 <i>Canavalia spec</i> . | 284 <i>Porophyllum ellipticum</i> . |
| 245 <i>Caesalpinia coriacea</i> . | 285 <i>Crotalaria retusa</i> . |
| 246 <i>Chrysobalanus icaco</i> . | 286 <i>Citrus spec</i> . |
| 247 <i>Mirabilis Jalapa</i> . | 287 <i>Andropogon zizanioides</i> . |
| 248 <i>Antigonon cinerascens</i> . | 289 <i>Andropogon Schoenanthus</i> . |
| 249 <i>Cenchrus tribuloides</i> . | 290 <i>Sesbania grandiflora</i> . |
| 251 <i>Gossypium barbadense</i> . | 291 <i>Sesbania grandiflora</i> . |
| 252 <i>Stylosanthes hamata</i> . | 292 <i>Brassica integrifolia</i> . |
| 253 <i>Operculina ventricosa</i> . | 294 <i>Lawsonia inermis</i> . |
| 254 <i>Melicocca bijuga</i> . | 295 <i>Tillandsia usneoides</i> . |
| 255 <i>Euphorbia thymifolia</i> . | 296 <i>Celosia argentea</i> . |
| 256 <i>Malvastrum spicatum</i> . | 297 <i>Porana paniculata</i> . |
| 258 <i>Ricinus communis</i> . | 298 α <i>Hymenocallis caribaea</i> . |
| 259 <i>Cassia alata</i> . | 299 <i>Bouchea Ehrenbergii</i> . |
| 260 <i>Petiveria alliacea</i> . | 300 <i>Stylosanthes hamata</i> . |
| 261 <i>Ocimum Basilicum</i> . | 301 <i>Spermaceoce tenuior</i> . |
| 263 <i>Solanum aculeatissimum</i> . | 302 <i>Desmanthus virgatus</i> . |
| 264 <i>Eleusine indica</i> . | 303 <i>Crotalaria verrucosa</i> . |
| 265 <i>Ipomoea fastigiata</i> . | 304 <i>Acacia macracantha</i> . |
| 266 <i>Ipomoea fastigiata</i> . | 305 <i>Stachytarpheta jamaicensis</i> . |
| 267 <i>Cucurbita maxima</i> . | 306 <i>Musa paradisiaca</i> . |
| 268 <i>Achyranthes obtusifolia</i> . | 307 <i>Phaseolus lunatus</i> . |
| 269 <i>Corchorus olitorius</i> . | 308 <i>Epidendrum ciliare</i> . |

Collection Lionarons.

A. C. W. Lionarons, gouv. physician of Saba, made in 1907 a collection of about 350 plants and gave it to the Koloniaal Museum at Haarlem. *Dr. M. Greshoff*, Director of this Museum was so kind as to give me an opportunity to study these plants.

The greater part of the plants are cultivated and another part has evidently been collected on the top of the Mountain.

There are some interesting plants, which I myself saw but once during my rambles through Saba.

The following list gives the names of the plants collected by *Lionarons*.

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| 1 <i>Anona muricata</i> . | 49 <i>Polypodium lycopodioides</i> . |
| 1a <i>Melicocca bijuga</i> . | 50 <i>Oxalis corniculata</i> . |
| 2 <i>Passiflora laurifolia</i> . | 53 <i>Oplismenus setarius</i> . |
| 4 <i>Jasminum azoricum</i> . | 55 <i>Canna indica</i> . |
| 7 <i>Capsicum frutescens</i> . | 56 <i>Parthenium Hysterophorus</i> . |
| 8 <i>Capsicum frutescens</i> . | 57 <i>Sambucus canadensis</i> . |
| 9 <i>Capsicum ceratocarpum</i> . | 61 <i>Polypodium crassifolium</i> . |
| 12 <i>Swietenia Mahagoni</i> . | 63 <i>Carica Papaya</i> . |
| 15 <i>Commelina virginica</i> . | 64 <i>Ricinus communis</i> . |
| 16 <i>Cajanus indicus</i> . | 65 <i>Crescentia Cujete</i> . |
| 17 <i>Thunbergia fragans</i> . | 66 <i>Crotalaria retusa</i> . |
| 18 <i>Chrysobalanus icaco</i> . | 67 <i>Manihot utilissima</i> . |
| 21 <i>Tillandsia fasciculata</i> . | 68 <i>Ipomoea fastigiata</i> . |
| 22 <i>Carica Papaya</i> . | 69 <i>Centrosema virginianum</i> . |
| 23 <i>Eleusine indica</i> . | 72 <i>Petiveria alliacea</i> . |
| 24 <i>Beloperone eustachyana</i> . | 74 <i>Lochnera rosea</i> . |
| 25 <i>Desmodium supinum</i> . | 75 <i>Abutilon indicum</i> . |
| 26 <i>Brassica integrifolia</i> . | 76 <i>Ardisia coriacea</i> . |
| 28 <i>Cassia bicapsularis</i> . | 78 <i>Allium ascalonicum</i> . |
| 29 <i>Wedelia buphthalmoides</i> . | 79 <i>Allium ascalonicum</i> . |
| 30 <i>Ipomoea pentaphylla</i> . | 80 <i>Portulaca oleracea</i> . |
| 31 <i>Boerhaavea paniculata</i> . | 82 <i>Operculina ventricosa</i> . |
| 32 <i>Rivina humilis</i> . | 85 <i>Plumbago capensis</i> . |
| 33 <i>Amarantus tristis</i> . | 87 <i>Indigofera suffruticosa</i> . |
| 34 <i>Pharus glaber</i> . | 88 <i>Aleurites moluccana</i> . |
| 35 <i>Salvia occidentalis</i> . | 90 <i>Lochnera rosea</i> . |
| 36 <i>Thunbergia alata</i> . | 91 <i>Tephrosia cathartica</i> . |
| 37 <i>Eryngium foetidum</i> . | 92 <i>Zinnia elegans</i> . |
| 39 <i>Peperomia petiolaris</i> . | 93 <i>Jasminum azoricum</i> . |
| 40 <i>Sonchus oleraceus</i> . | 95 <i>Parthenium Hysterophorus</i> . |
| 42 <i>Zebrina pendula</i> . | 96 <i>Nicotiana Tabacum</i> . |
| 44 <i>Foeniculum vulgare</i> . | 97 <i>Triphasia trifoliata</i> . |
| 46 <i>Antigonon leptopus</i> . | 99 <i>Punica Granatum</i> . |
| 47 <i>Gossypium barbadense</i> . | 101 <i>Coccoloba nivea</i> . |
| 48 <i>Capparis jamaicensis</i> . | 103 <i>Peperomia acuminata</i> . |

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| 104 <i>Cissus sicyoides</i> . | 162 <i>Cassia occidentalis</i> . |
| 106 <i>Cuscuta americana</i> . | 163 <i>Momordica Charantia</i> . |
| 109 <i>Eugenia Jambos</i> . | 164 <i>Foeniculum vulgare</i> . |
| 110 <i>Quisqualis indica</i> . | 165 <i>Epidendrum ciliare</i> . |
| 111 <i>Hibiscus Rosa-sinensis</i> . | 168 <i>Belamcanda punctata</i> . |
| 112 <i>Mirabilis Jalapa</i> . | 169 <i>Phytolacca icosandra</i> . |
| 113 <i>Calotropis procera</i> . | 170 <i>Passiflora laurifolia</i> . |
| 114 <i>Mammea americana</i> . | 171 <i>Peperomia acuminata</i> . |
| 117 <i>Tamarindus indica</i> . | 172 <i>Nephrolepis exaltata</i> . |
| 118 <i>Manihot utilisima</i> . | 174 <i>Peperomia hernandifolia</i> . |
| 119 <i>Psidium guajava</i> . | 175 <i>Phytolacca icosandra</i> . |
| 123 <i>Lepidium virginicum</i> . | 176 <i>Physurus plantagineus</i> . |
| 124 <i>Talinum paniculatum</i> . | 177 <i>Casuarina equisetifolia</i> . |
| 125 <i>Melia azedarach</i> . | 178 <i>Plantago major</i> . |
| 127 <i>Hillia longiflora</i> . | 181 <i>Stenochlaena sorbifolia</i> . |
| 128 <i>Euphorbia hypericifolia</i> . | 182 <i>Citharexylum quadrangulare</i> . |
| 129 <i>Leucaena glauca</i> . | 183 <i>Ardisia coriacea</i> . |
| 132 <i>Scleria pterota</i> . | 184 <i>Scleria pterota</i> . |
| 133 <i>Setaria setosa</i> . | 186 <i>Leucaena glauca</i> . |
| 134 <i>Stenolobium stans</i> . | 187 <i>Charianthus crinitus</i> . |
| 135 <i>Ageratum conyzoides</i> . | 188 <i>Hemitelia horrida</i> . |
| 136 <i>Leucaena glauca</i> . | 189 <i>Hemitelia horrida</i> . |
| 137 <i>Chiococca racemosa</i> . | 192 <i>Cecropia peltata</i> . |
| 140 <i>Myrcia paniculata</i> . | 194 <i>Urera caracasana</i> . |
| 142 <i>Pilea microphylla</i> . | 196 <i>Neurogramme calomelanos</i> . |
| 143 <i>Hibiscus schizopetalus</i> . | 196a <i>Mangifera indica</i> . |
| 145 <i>Solanum lycopersicum</i> . | 197 <i>Charianthus crinitus</i> . |
| 146 <i>Iresine paniculata</i> . | 201 <i>Desmodium axillare</i> . |
| 147 <i>Panicum brevifolium</i> . | 202 <i>Polybotrya cervina</i> . |
| 147b <i>Panicum fuscum</i> . | 203 <i>Charanthus crinitus</i> . |
| 148 <i>Pisonia aculeata</i> . | 204 <i>Polybotrya cervina</i> . |
| 149 <i>Persea americana</i> . | 206 <i>Ichnanthus pallens</i> . |
| 151 <i>Tecoma capensis</i> . | 208 <i>Cladium restioides</i> . |
| 153 <i>Gynandropsis pentaphylla</i> . | 209 <i>Phytolacca icosandra</i> . |
| 154 <i>Fleurya aestuans</i> . | 210 <i>Neurolaena lobata</i> . |
| 155 <i>Argemone mexicana</i> . | 211 <i>Asplenium serratum</i> . |
| 156 <i>Mangifera indica</i> . | 212 <i>Aspidium Plumierii</i> . |
| 158 <i>Maranta arundinacea</i> . | 214 <i>Selaginella flabellata</i> . |
| 159 <i>Piper reticulatum</i> . | 216 <i>Miconia laevigata</i> . |
| 159a <i>Piper marginatum</i> . | 218 <i>Ipomoea fastigiata</i> . |
| 160 <i>Asclepias nivea</i> . | 220 <i>Dryopteris opposita</i> . |
| 161 <i>Euphorbia hypericifolia</i> . | 221 <i>Colocasia esculenta</i> . |

- 222 Nerium Oleander.
 223 Caesalpinia pulcherrima.
 224 Codiaeum variegatum.
 225 Codiaeum variegatum.
 227 Anacardium occidentale.
 229 Quisqualis indica.
 230 Russelia juncea.
 231 Nicotiana Tabacum.
 232 Gossypium barbadense.
 233 Thespesia populnea.
 234 Pluchea odorata.
 236 Villamilla octandra.
 237 Cassia occidentalis.
 238 Phyllanthus distichus.
 239 Euphorbia pilulifera.
 240 Panicum maximum.
 241 Jatropha gossypifolia.
 245 Bixa Orellana.
 247 Leonotis nepetaefolia.
 251 Solanum nigrum nodiflorum.
 251a Indigofera suffruticosa.
 252 Amarantus spinosus.
 253 Lantana camara.
 254 Achyranthes obtusifolia.
 256 Talinum triangulare.
 257 Jatropha multifida.
 260 Datura fastuosa.
 262 Desmodium spirale.
 265 Lawsonia inermis.
 269 Mussaenda frondosa.
 269a Porophyllum ellipticum.
 270 Rauwolfia Lamarekii.
 273 Panicum sanguinale.
 276 Cucumis Anguria.
 278 Quisqualis indica.
 279 Galphimia gracilis.
 280 Brunfelsia americana.
 281 Murraya exotica.
 282 Sanchezia nobilis.
 284 Tecoma leucoxydon.
 285 Rhoecus discolor.
 286 Coleus amboinicus.
 287 Anthurium cordatum.
 288 Bryophyllum pinnatum.
 290 Bursera simaruba.
 291 Solanum tuberosum.
 292 Bixa Orellana.
 293 Wittmackia lingulata.
 294 Panicum insulare.
 297 Ruellia tuberosa.
 298 Thrinax spec.
 299 Antigonon leptopus.
 301 Caesalpinia coriaria.
 302 Mangifera indica.
 303 Panicum divaricatum.
 303a Colocasia esculenta.
 306 Miconia laevigata.
 309 Chiococca racemosa.
 311 Callisia repens.
 312 Abrus precatorius.
 313 Jatropha gossypifolia.
 315 Croton flavens.
 316 Blechnum Brownei.
 320 Salvia serotina.
 321 Eugenia Jambos.
 322 Colocasia esculenta.
 324 Colocasia esculenta.
 325 Colocasia esculenta.
 328 Petiveria alliacea.
 330 Codiaeum variegatum.
 330a Lochnera rosea.
 335 Chrysobalanus icaco.
 336 Citharexylum quadrangulare.
 337 Casearia parvifolia.
 338 Aleurites moluccana.
 339 Codiaeum variegatum.
 340 Coccoloba diversifolia.
 343 Panicum divaricatum.
 345 Codiaeum variegatum.
 346 Stachytarpheta jamaicensis.
 348 Hymenaea Courbaril.
 354 Caesalpinia crista.
 356 Poinciana regia.

357 <i>Clusia alba</i> .	361 <i>Canna indica</i> .
359 <i>Albizzia lebbek</i> .	363 <i>Ipomoca pentaphylla</i> .
360 <i>Coccoloba uvifera</i> .	

Collection I. Boldingh.

I do not think it necessary to give more details about my own excursions; the different data, which are found in the Systematic Part are all taken from my notes and collections made during my rambles.

The following list may give an idea of the localities visited by me. In the Third Part Section C. I give a detailed description of the vegetation also taken from my personal observations.

St. Eustatius: May 25th—July 5th.

- .. May 25th. Signalhill, Tumbledown dickbay.
- " 26th. round the Quill.
- " 27th. Quill.
- " 28th. Seashore near Oranjestad.
- " 29th. Seashore near Oranjestad, Gallowsbay.
- " 30th. Tumbledown dickbay.
- " 31st—June 5th. Quill.
- June 6th—8th. Quill.
- " 9th—10th. Cultuurvlakte.
- " 12th. Bengalen—seashore.
- " 13th—14th. Quill near Bengalen.
- " 15th—16th. White Wall and seashore.
- " 17th. Quill.
- " 19th. Cultuurvlakte.
- " 21st. Schotsenhoek, Concordia, Venusbay.
- " 22nd. English Quarter and seashore.
- " 23th. Signalhill.
- " 25th. Cultuurvlakte.
- " 26th. Gilboohill, Venusbay.
- " 27th. Schotsenhoek, Maryglory, Bergje, Jenkinsbay.
- " 28th. Quill.
- " 30th. Jenkinsbay, Bergje.
- July 2nd. White Wall.
- " 3rd. Zeelandia, Concordiabay.
- " 5th. Bengalen.

Saba: July 6th—29th.

- July 6th. St. John's.
 „ 7th. Windwardside, Paris, Great hill.
 „ 8th. Bottom.
 „ 9th. Bottom to Marypoint.
 „ 10th. Boobyhill.
 „ 12th. Bottom, Forthbaygut, Saddle.
 „ 13th. Hellsgate, Sulphurmines.
 „ 14th. Mountain, Crespeenhill.
 „ 16th. Mountain.
 „ 17th. St. John's, Giles gut.
 „ 18th. Windwardside.
 „ 19th. Laddergut.
 „ 20th. Bottom, Windwardside, Hellsgate, Marypoint.
 „ 21st. Springbaygut.
 „ 23th. Sulphurmines, Green Island, Flat Point.
 „ 24th. Mountain, Windwardside.
 „ 25th. Mountain.
 „ 26th. Bottom.
 „ 27th. Mountain, Hellsgate.
 „ 29th. Windwardside, Bottom.

St. Martin: August 14th—September 14th.

- August 4th. Filipsburg, Marigot.
 „ 6th. Filipsburg, Guanabay.
 „ 8th. Filipsburg, Belvedere, Mont Chambord, Grande Case,
 Marigot, Filipsburg.
 „ 17th. Fort Willem.
 „ 18th. Prince quarter.
 „ 19th. Filipsburg, Cul de Sac, Marigothill, Marigot, Colebay.
 „ 20th. Bethlehem.
 „ 21st. Nakedboyhill, Fort Willem.
 „ 22nd. Simsonsbay, Cherry cap, Anse des Bourgaux.
 „ 23th. Fort Willem.
 „ 24th. Bellevue.
 „ 25th. Hill between Centryhill and Marigothill.
 „ 27th. Mont Chambord, Orientbay.
 „ 28th. Hills on the north s.de of Cul de Sac.
 „ 29th. Filipsburg, Simsonsbay.
 „ 30th. Oysterpond.

September 4th. Philipsburg, Grande Case, Milldrumhill.

” 5th—7th. Anguilla.

” 8th. Grande Case, Anse des Pères, Marigot, Philipsburg.

” 10th. District Colombier, Mount Paradis.

” 11th. Lowlands, Simonsbaylagoon.

” 12th. Bethlehem, Mount Paradis.

” 13th. Green Key, Tintamarre.

” 14th. Point Blanche, Bethlehem, Cul de Sac.

THIRD PART

PHYTOGEOGRAPHICAL

**Section A. Orological, Geological
and Meteorological**

PHYTOGEOGRAPHICAL

A. Orological, Geological and Meteorological

CHAPTER I

GEOLOGICAL AND OROLOGICAL NOTES.

Introduction.

In making notes on the Geology and Orology of the above mentioned Islands I have made use of the following treatises:

P. T. Cleve. On the Geology of the Northeastern West Indian Islands, Kongl. Vetensk. Akad. Handl. 1870. Bd. 9. no. 12. p. 19 a. f.

A. G. Högbom. Zur Petrographie der Kleinen Antillen. Bull. Geol. Institution of Upsala. VI. 1905. p. 228—229.

E. O. Hovey. Volcanoes of Martinique, Guadeloupe, and Saba. Report 8th Internat. Geogr. Congress. 1904. London, p. 447—451.

E. O. Hovey. Volcanoes of St. Vincent, St. Kitts, and Statia. *ibid.*, p. 452—454.

G. A. F. Molengraaff. De Geologie van St. Eustatius, 1886, Leiden [Dissertat. Utrecht].

G. A. F. Molengraaff. Het Geologisch verband tusschen de West-Indische eilanden, Handelingen van het eerste Nederlandsche Natuur- en Geneeskundig Congres 1888, p. 288.

G. A. F. Molengraaff. Über vulkanischen Schwefel aus West-Indien. Zeitschr. f. Krystallogr. XIV. 1888, p. 43—48.

J. W. W. Spencer. On the Geological and Physical Development of Anguilla, St. Martin, St. Bartholomew, and Sombbrero. Quarterly Journal of the Geological Society of London. 1901. vol. 57. p. 520 a. f.

J. W. W. Spencer. On the Geological and Physical Development of the St. Christopher Chain and Saba Banks. Quarterly Journal of the Geological Society of London, 1901. vol. 57. p. 534. a. f.

K. Sapper. Ein Besuch von St. Eustatius und Saba. Centralblatt für Mineralogie etc. 1903, p. 314—318.

K. Sapper. In den Vulkangebieten Mittel Amerika's und West-Indien. Stuttgart 1905.

It will appear that our geological and orological information about St. Eustatius is sufficient, whereas Saba is all but absolutely unknown in literature, so that almost all that I can communicate rests on my personal observation with the addition of some information borrowed from maps.

St. Martin is somewhat better known than Saba but a good description has not yet appeared. The maps from which I borrowed different data are the following:

St. Eustatius: *Molengraaff* 1886 l. c. pl. I.

Saba: 1. Admiralty Chart surveyed by Lieut. *G. B. Lawrance* 1850. London 1864.

2. West Indies. den Haag. ed. Nov. 1903 by the Navy-Department.

3. A map of Saba borrowed from one of the inhabitants, evidently made by *G. B. Lawrance* afore said.

St. Martin: 1. West Indies. den Haag. ed. Nov. 1903 by the Navy Department.

2. A map of St. Martin borrowed from Mr. *A. J. C. Brouwer*, Administrator of St. Martin.

3. *Molengraaff* 1888 l. c. p. 288.

4. *C. J. Hudig*, the Saltworks in the Isle of St. Martin. de Ingenieur May 24. 1905.

From these maps it appeared to me that there is reason for calling to mind the words spoken by *Kan*¹⁾ in 1888: It can „hardly be called superfluous to refer to the value of a good „map... both for science and practice....

„In time of peace such a map might of course render invaluable „services in agricultural and industrial enterprises, in making

1) *C. M. Kan*. Onze aardrijkskundige kennis van de Molukken. Handelingen van het Eerste Ned. Nat. en Geneesk. Congres. Haarlem 1888. p. 285:

„Het kan schier overbodig geacht worden... op de waarde eener goede kaart... te wijzen. In vredetijd kan zulk een kaart natuurlijk onschatbare diensten bewijzen: bij cultures en industriele ondernemingen, bij den aanleg van wegen, mijnontginningen, regeling van grondbezit en belastingen, aanleg van openbare en waterstaatwerken, enz. enz.

Doch evengroot is het nut van zulk een kaart voor verschillende beoefenaars der wetenschap, dus niet enkel voor den geograaf. Hebben niet de *H. H. Martin* en *Swiringar* op meer dan een der *W. I.* eilanden het gemis van goede kaarten gevoeld?"

„roads in working mines, in settling landed property and taxes,
„and in public works.

„Still not only for the geographer but also for those who apply
„themselves to any science, such maps are of great use.

„Have not Messrs *Martin* and *Suringar* in more than one of the
„West Indian Islands felt the want of good maps”?

In my rambles I also greatly felt the want of really good maps. By means of panorama photos I tried to see my way in different points of the islands. Probably these photos may not be of any use in making a topographic map, still I dare say they have had for me such results as to hold myself entitled to deviate sometimes from the maps consulted by me. In this way I perhaps contributed a little to obtain a somewhat clearer description of Saba and St. Martin.

St. Eustatius.

The Isle of St. Eustatius extends from $17^{\circ} 28' 12''$ to $17^{\circ} 31' 35''$ N. and from $62^{\circ} 56' 25''$ to $62^{\circ} 59' 48''$ W.

The greatest length runs from N.W. to S.E. whereas the breadth from S. to W. except a small narrowing in the middle gradually decreases: the length of St. Eustatius amounts to 7.8 km. whereas the breadth in the southern part amounts to 3.7 km. in the middle decreases to 2.6 km. and in the northern part it does not exceed 2.7 km. The Surface is 28 □ km.

The structure of St. Eustatius is occasioned by rocks belonging to one and the same geological period.

Still from their relative age we can sharply trace out two parts viz. the northern hills on one side and the principal volcano with its eruptions on the other side. These two groups of mountains are clearly separated from each other by a wide plain. The hilly soil taking up the whole northern part of the islands consists of remnants or old volcanoes.

The southern part chiefly consists of a single very regularly built mountain which has the form of a truncated cone. The highest point of this mountain, named Quill is 581 m. above the level of the sea. On the top of it is found a circular valley shut in on all sides and of which the bottom is 297 m. above the surface of the sea.

The inner slopes of the crater are very steep and in most parts inaccessible on account of numerous perpendicular cliffs; the

slope has here a declivity of 34° to 36° the average slope in other places being 67° to 78° .

The bottom of the crater is in general tolerably flat but uneven on account of the numerous pieces of rock that have fallen down from the sides. The whole surface is covered with a bed of humus.

The fragments of rock that have served in the structure of the crater are for the greater part Augite—Audesite only here and there occurs Hornblende—Augite—Andesite.

The Quill is bordered on all sides by very steep, not seldom perpendicular rocks. The browns of these rocks form a ridge which has a width of only a few m. and the height of which varies between 391 and 581. On the outside the slope of the hill is at first, in general, very steep, but it is gradually declining to shelve away at last in a plain in a northwestern direction or to be suddenly cut off by the steep sea coast. On the southern side only inaccessible rocks called the White Wall, which with a declivity of 45° rising from the sea disturb the regularity of the profile of the mountains.

The second group of mountains taking up the N. W. part of the island consists of a great number of hills of which the highest called „Boven” has a height of 295 m.

The very steep coast that begins near Heiligenbaai bordering the further northern side of the island, is formed by a gigantic, perpendicular wall of lava (Augite—Andesite.)

By a deep ravine Boven is separated from Gilboohill. This hill 174 m high, is formed partly from ashes and partly from solid volcanic matter. The other hilly ground consists out of a number of more or less sharp tops which are connected by a ridge. This ridge runs close to the seashore from Boven to Tumbledown Dickbay and extends from there in eastern direction as far as Mary Glory, the highest top of the range. Going eastward from there we perceive that the ground is considerably sloping.

To the northern hills of St. Eustatius belongs also a crater, the exact form of a horse shoe lying south of the Tumbledown Dickbay and facing the town. The highest eastern top of this crater is Signalhill (226 m.) the northwestern one is called Pilohill.

As to petrography the northern part of St. Eustatius offers but little variety; the mineral most occurring is Augite—Andesite. Almost the whole northern part of the island is covered with a kind of good humus, produced from volcanic ashes mostly mixed

with lapilli and pumice. The slopes of these hills especially on the seaside are generally very steep, as a rule even inaccessible. Of the plains that are to be found in St. Eustatius only the large one that connects the two mountainous parts is of importance.

If we include in the plain that part only of which the general declivity does not surpass 4 degrees, the extent of it may be estimated at 5 □ km. A small plain at 0.5 □ km. may moreover be found in the Quill whereas there are some level parts in the Concordiavalley and the Venusvalley.

The formation of dells takes place on a small scale. In the northern part of the island are of importance the two large valleys that open upon the Venusbay, the Concordiabay and Tumbledown-dickbay.

These valleys are bordered by rocks suddenly rising from the plain. The average declivity of these rocks is seldom less than 30° and often exceeds 50°.

In the southern part of the island few dells are to be found. The outside of the principal volcano is furrowed by numerous, narrow and deep ravines, the so called „guts” which show a beginning of dell formation by erosion.

Running water is found nowhere in St. Eustatius but during the heavy showers that will sometimes fall in the rainy season all aforesaid valleys and ravines are turned into beds of strong currents which by their havy fall and temporary considerable masses of water possess a great force in carrying off.

The coast of St. Eustatius is partly a steep coast partly a flat one bordering the precipices.

A steep coast occurs in the whole northern part except in places where valleys face the sea. In the southern part a steep coast is found on the eastern border of the White Wall as far as Gallowsbay and moreover in some places east of the White Wall. A flat coast bordering the precipices occurs near Oranje Bay and on the other side of the island near Concordiabay, Turtlebay and further in most places on the south-eastern and southern side. An easily practicable sandy beach, nowhere broader than 50 m. is to be found only near Oranjebay the Concordiabay and Turtlebay.

The beach on the south-eastern side is no more than 10 to 20 m. wide and is covered by pieces of rock worn by the seawater.

Saba.

The isle of Saba extends from 17° 37' 10" to 17° 39' 18" N. and from 63° 12' 25" to 63° 15' 5" N.

Round the island may be drawn a parallelogram of which the longer diagonal going from Ladderpoint to Flat Point has a length of 5.25 km.; the other from Torrents Bay to South-East Point 4.5 km. The surface is 16 □ km.

In order to get a better insight in the geological condition I collected a number of minerals during my rambles on this island. I am greatly indebted to Prof. Dr. C. E. A. Wichmann at Utrecht for his determination of these minerals. It proved to me that I brought only Andesites except some stones containing sulphur, which, especially with a view to the geological condition of St. Eustatius, was however to be expected.

As far as may result from my observations the rocks rising steeply from the sea consist of Andesites.

The conical mountain (of which Mountain Peak is 880 m. above the sea-level), rising steeply from the sea, perfectly commands the form of the island. Its top lies in the intersection of the mentioned diagonals and ends in an almost sharp summit that, viewed from St. Barthelemy seems somewhat level. To the North this mountain is sloping almost down to the seashore, higher up at an angle of 30° lower it is less steep; only near Flat point there is a tolerably large plain where the sea may be reached.

Also on the other sides of the island the rocks rise from the sea at a steep angle but do not go up to the Mountain top. They rise as far as 300, 400 or 500 m. and end in different cones which seem to rest on the central part of the island at 200—300 m. above the level of the sea.

Southwestward of Mountain Peak there is the small plain where the chief village. The Bottom, is to be found. I estimate its surface at 0.5 □ km.

South East of Mountain Peak lies another plain of still smaller surface where the little village Windwardside is situated about 300 m. above the level of the sea.

On one of the least steep parts of the conical mountain Mary-point, a knot of houses is built N.W. of the Peak at about 400 m. above the sea level whereas a group of houses, Hellsgate is built on a gentle slope N. E. of the Mountain Peak.

So the Bottom is surrounded on all sides by mountain tops and the situation is such as might easily be taken for the bottom of the crater.

In the sulphurmines that extend in the vicinity of Hellsgate near Flat Point, occurs Andesite, changed into Opal.

Here as well as in St. Eustatius there is but little dell formation; very narrow dells, so called „guts” extend in all directions from the mountain top towards the sea. So there are two issuing from the Bottom viz. Laddergut and Forthbaygut. Hellsgategut is one of the most characteristic and especially at the seashore wider than the others; all ravines abound in big stones.

Except near Flat Point and the immediate vicinity there is every where a steep coast in front of which are found boulder stones to a height of 2 m.

The Mountain Peak and neighbouring tops are covered with a thick bed of humus; going downward it is getting gradually thinner and on the proper arable land on the steep slopes it must be heaped up in many places, whereas in more favorable places the immense quantity of stones must be removed. In the neighbourhood of the sulphurmines the soil consists of very fine tuff.

St. Martin.

The isle of St. Martin extends from 18° to $18^{\circ} 7' 20''$ N. and from $63^{\circ} 1' 20''$ to 63° W. The greatest distance in the direction N. to S. is 13.5 km. and from W. to E. 15 km. The surface (the large lagoons not included) is about 90 □ km.

The form of St. Martin is chiefly commanded by a number of ridges that extend in the direction from N. to S.; the eastern ridge is running pretty near the shore from Oysterpond to Point Blanche (Nackedboyhill 280 m.).

A valley 2.5 km. wide separates this ridge from the other mountainous land of the Island. This mass of hills reaches in Mount Paradis (412 m.) its highest point and in all directions extend ridges of which Mont Chambord, Mont Vernon and Milldrumhill (380 m.) end very near the seashore in the northwestern part of the Island; separated from it by a cross valley there is somewhat lower hilly country in the northern part of St. Martin. Two ridges extend from Mount Paradis to the District Colombier, whereas the two largest ranges separate Cul de Sac from the large plain and Colebay District. The ridge of hills between Cul de Sac and the plain ends in Fort Willem and Fort Amsterdam: the highest tops are 250 m. above the sea level. The largest ridge of hills east of Cul de Sac rises in Centryhill to 408 m.

Of great importance in the structure of St. Martin is a sedimentary formation, visible to the naked eye (Pointe Blanche for-

mation) consisting alternately out of Breccia, Sandstone and Limestone with a large proportion of Flint.

In general the Pointe Blanche formation covers the northern slope of the large range of hills and the south eastern slope of the small range. These older sedimentary layers are probably of Cretaceous origin. Later sediments have but a short extension on St. Martin. On the promontary near Simonsbay a hard limestone is found which perhaps is Miocene.

The Lowlands separated by Simonsbaylagoon from the other part of the Island is almost flat with some hills of which the highest rises to about 90 m. and consist for the greater part of a horizontal layer of soft marly limestone: it is of Miocene age and quite resembles the Miocene formation of Anguilla.

The minerals I brought from this island were also determined by Prof. Wichmann and proved to contain nothing particular for this island; I only mention gypsum, which I found on Green Key. Plains of some importance are found between the eastern and western ridges of hills, in the southern part (Prince quarter) however bordered by a few isolated conical hills. By a gentle slope the plain gradually passes into the western ridge of hills. Cul de Sac as an important plain is bounded on the east-northern- and western side by rather steep hills; especially Centryhill and surrounding is much more steep than the other part of the hilly country of St. Martin.

The principal rocks of the Island are composed of Quartz-diorite, Mica-diorite or Phonalite; the part that is exposed to view is generally found unchanged only on the seacoasts. In the large plain it is broken up 1 m. deep into a coarse-grained sand, containing a large proportion of mica. It was not however regularly crumbled down for there are a great many conical parts that resisted the breaking up. These continued to stand out when the wasted part was carried down by the water. So the plain contains for the greater part an abundance of fragments of rocks of considerable dimension. They form a real „Felsenmeer“ as is frequently met with on granitic soil.

Further there are some pieces of flat land between the ends of the different ridges of the hilly country between Grande Case and Marigot.

In some places from Bethlehem to Mount Paradis deep valleys are found whereas the valley in the District Colombier is one of the few spots in St. Martin where a typical tropical vegetation is met with. Especially here in the District Columbiere and also near

Mont Chambord are some small currents when the weather is not too dry.

The larger valleys open on a bay and there the coast is flat whereas almost everywhere else a rather steep coast is to be found.

The size of these bays is in direct proportion to the plains that end in them. The larger bays are separated from the sea by shoals and the inner seas thus formed are made use of as Saltponds.

The largest bays are found near the transversal valley Grande Case, near Orientbay and at Filipsburg, which is built on a sandbank.

General notes.

Whereas the map added indicates the distances between the islands, the following may serve to inform.

Cleve ¹⁾ says: „The islands north of Guadeloupe from two parallel „chains from North-west to South-east. The western chain com- „mences with Saba and consists of St. Eustatius, St. Kitts, Nevis, „Redonda and Montserrat. All of those islands are volcanoes and „if the line were extended farther to the north it would reach „the island of Amegada, of postpliocäne date and all the volca- „noes seem to be of the same or nearly the same geological time. „East of the volcanic range is another completely different range „of islands. They are not volcanic and commence with Sombrero „comprising Anguilla, St. Martin, St. Bartholomew, Barbuda and „Antigua. All of these islands are of the tertiary age, eocene, mio- „cene and pliocene.”

Although I do not agree with *Cleve* here, who wants to separate the group of St. Martin from the Virgin Islands and denies as such, that a connection might have existed between the great Antilles and the group St. Martin I want to state that we see clearly mentioned here how wide a difference there exists between the two groups the St. Martin plateau and the Christoffer chain.

About the connection between Anguilla and St. Martin *Spencer* ²⁾ says:

„The same limestone (we find in St. Martin) also occurs a short

1) *Cleve*: On the Geology of the Northeastern West Indian Islands p. 19.

2) *Spencer*: On the Geological and Physical Development of Anguilla, St. Martin, St. Bartholomew and Sombrero p. 526.

„distance away in the island of Anguilla, which was once evidently a part of the coastal plain extending from the mountains of St. Martin. Tintamarre, an adjacent outlier of St. Martin, represents a fragment of the dissected coastal plain. It is underlain by the same white limestones.”

According to Spencer the various heights and depths of the different groups of St. Martin plateau and St. Christoffer chain seem to agree. As to the connection between the Caribbean isles he says ¹⁾: „. . . if this inference be true, then the modern islands of the West Indies formed an elevated plateau bridge between the two Americas during the two epochs of elevation, namely in the Pliocäne and Pleistocäne period.”

1) Spencer: Reconstruction of the Antillean Continent p. 132.

CHAPTER II

METEOROLOGICAL NOTES.

There is not much known about the climate of the Dutch West Indian Islands.

As they form part of the Caribbean Islands it will be sufficient for me to give all I found about the climate of these Islands in Hann, Handbuch der Meteorologie, 2e Aufl. Stuttgart 1897. The direction of the winds does not change very much and throughout the year there is generally the N. E. tradewind.

The amount of rain is mostly about 1200—2000 mm. a year; the maxima of rainfall are in May and October; the dry months are February and March. The mean temperature varies from 24—26° in January and 26—28° in July.

The following list shows the quantity of rain that will fall on the Dutch West Indian Islands and the neighbouring Islands St. Croix and St. Kitts.

**Rainfall in mm. of the West Indian Islands St. Croix,
St. Kitts, St. Eustatius, Saba and St. Martin.**

	Average quantity.					1906. ⁴⁾		
	St. Croix ¹⁾	St. Kitts. ²⁾	St. Eustatius. ³⁾	Saba. ³⁾	St. Martin. ³⁾	St. Martin.	Saba.	St. Eustatius.
January	72	103	63	61	60	56	100	31
February	61	48	43	28	41	16	71	46
March	24	55	40	21	33	55	67	31
April	77	90	60	32	70	17	38	36
May	79	98	106	89	118	23	18	27
June	126	92	96	78	80	123	53	124
July.	191	105	118	121	85	70	65	66
August	112	144	126	143	116	83	30	61
September	123	154	139	189	145	368	465	419
October	156	173	121	123	128	48	66	66
November	181	134	131	162	139	137	88	98
December	82	96	82	72	69	214	223	148
Total	1284	1294	1125	1119	1084	1213	1282	1159

¹⁾ and ²⁾ from Hann l. c.

³⁾ from Went Rapport l. c.

⁴⁾ from Inspectie van den Landbouw in West-Indië. Meteorologische Waarnemingen gedaan op de Meteorologische stations in de koloniën Suriname en Curaçao in het jaar 1906.

As appears from the preceding list there is a great harmony about the data concerning the rainfall on the different Islands and especially when we take in consideration that the first data about the rainfall in the Dutch West Indian Islands are most probably not so accurate as the last, there is almost the same amount of rain on each of them.

Moreover I am sure (and here I quite agree with what Went says in his Report) that the quantity of rain that falls on the higher parts of the Mountain in St. Eustatius and Saba is much more than elsewhere on these Islands.

THIRD PART

Section B. Distribution of the Wild Plants enumerated in the First Part

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B. Distribution of the Wild Plants enumerated in the First Part

CHAPTER I

DISTRUBUTION OF ALL THE WILD PLANTS ENUMERATED IN THE FIRST PART.

	Both hemisph.	Continent of America.	Southern Florida.	Atlantic Islands.	Antilles.	Total.
Hymenophyllaceae . . . . .	. . . .	2	. . . .	. . . .	. . . .	2
Cyatheaceae . . . . .	. . . .	4	. . . .	. . . .	. . . .	4
Polypodiaceae	13	22	. . . .	. . . .	2	37
Gleicheniaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Ophioglossaceae	1	. . . .	. . . .	. . . .	. . . .	1
Lycopodiaceae	1	1	. . . .	. . . .	. . . .	2
Psilotaceae	1	. . . .	. . . .	. . . .	. . . .	1
Selaginellaceae . . . . .	. . . .	2	. . . .	. . . .	. . . .	2
Potamogetonaceae . . . . .	. . . .	. . . .	. . . .	1	. . . .	1
Gramineae	23	19	. . . .	. . . .	4	46
Cyperaceae	8	5	1	. . . .	2	16
Araceae . . . . .	. . . .	. . . .	. . . .	. . . .	4	4
Lemnaceae	1	. . . .	. . . .	. . . .	. . . .	1
Bromeliaceae . . . . .	. . . .	6	. . . .	. . . .	4	10
Commelinaceae	1	3	. . . .	. . . .	. . . .	4
Liliaceae	1	1	. . . .	. . . .	3	5
Amaryllidaceae . . . . .	. . . .	4	1	. . . .	. . . .	5
Dioscoreaceae	1	1	. . . .	. . . .	. . . .	2
Musaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Orchidaceae . . . . .	. . . .	11	. . . .	1	4	16
Piperaceae . . . . .	. . . .	11	. . . .	. . . .	3	14
Batidaceae	1	. . . .	. . . .	. . . .	. . . .	1
Ulmaceae . . . . .	. . . .	2	. . . .	1	. . . .	3
Moraceae . . . . .	. . . .	2	. . . .	1	3	6
Urticaceae	1	3	. . . .	1	3	8
Loranthaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1

	Both hemisph.	Continent of America.	Southern Florida.	Atlantic Islands.	Antilles.	Total.
Olacaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Aristolochiaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Polygonaceae. . . . .	. . . .	1	. . . .	3	2	6
Chenopodiaceae.	3	. . . .	. . . .	. . . .	. . . .	3
Amarantaceae	5	4	1	1	1	12
Nyctaginaceae	1	6	. . . .	. . . .	1	8
Phytolaccaceae . . . . .	. . . .	5	. . . .	. . . .	. . . .	5
Aizoaceae	2	1	. . . .	. . . .	. . . .	3
Portulacaceae	2	4	. . . .	. . . .	1	7
Caryophyllaceae	1	. . . .	. . . .	. . . .	. . . .	1
Menispermaceae	1	. . . .	. . . .	. . . .	1	2
Anonaceae	1	3	. . . .	. . . .	. . . .	4
Lauraceae	1	1	. . . .	. . . .	2	4
Papaveraceae	1	. . . .	. . . .	. . . .	. . . .	1
Cruciferae	1	2	. . . .	. . . .	. . . .	3
Capparidaceae	2	6	. . . .	. . . .	. . . .	8
Moringaceae	1	. . . .	. . . .	. . . .	. . . .	1
Crassulaceae	1	. . . .	. . . .	. . . .	. . . .	1
Rosaceae.	1	2	. . . .	. . . .	. . . .	3
Leguminosae	32	22	. . . .	1	5	60
Oxalidaceae	1	. . . .	. . . .	. . . .	. . . .	1
Erythroxylaceae . . . . .	. . . .	. . . .	. . . .	. . . .	2	2
Zygophyllaceae.	1	2	. . . .	. . . .	. . . .	3
Rutaceae	3	1	. . . .	2	1	7
Simarubaceae	1	. . . .	. . . .	1	1	3
Burseraceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Meliaceae	1	1	. . . .	. . . .	. . . .	2
Malpighiaceae . . . . .	. . . .	5	. . . .	1	4	10
Euphorbiaceae	9	9	3	3	8	32
Anacardiaceae	3	. . . .	. . . .	. . . .	1	4
Celastraceae . . . . .	. . . .	2	. . . .	1	1	4
Sapindaceae	2	2	. . . .	1	. . . .	5
Rhamnaceae	1	1	2	. . . .	. . . .	4
Vitaceae. . . . .	. . . .	1	. . . .	. . . .	1	2
Tiliaceae.	4	1	. . . .	1	. . . .	6
Malvaceae	11	5	. . . .	. . . .	. . . .	16

	Both hemisph.	Continent of America.	Southern Florida.	Atlantic Islands.	Antilles.	Total.
Bombacaceae	1	1	. . . .	. . . .	. . . .	2
Sterculiaceae	2	5	. . . .	. . . .	. . . .	7
Ochnaceae	1	. . . .	. . . .	. . . .	. . . .	1
Marcgraviaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Theaceae . . . . .	. . . .	1	. . . .	. . . .	1	2
Guttiferae . . . . .	. . . .	2	. . . .	. . . .	2	4
Bixaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Canellaceae . . . . .	. . . .	. . . .	1	. . . .	. . . .	1
Flacourtiaceae . . . . .	. . . .	2	. . . .	1	1	4
Turneraceae . . . . .	. . . .	2	. . . .	. . . .	. . . .	2
Passifloraceae . . . . .	. . . .	5	. . . .	. . . .	. . . .	5
Begoniaceae . . . . .	. . . .	. . . .	. . . .	. . . .	1	1
Cactaceae	1	3	. . . .	1	2	7
Thymelaeaceae . . . . .	. . . .	. . . .	. . . .	. . . .	1	1
Rhizophoraceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Combretaceae	2	. . . .	. . . .	. . . .	. . . .	2
Myrtaceae	1	5	4	1	4	15
Melastomataceae . . . . .	. . . .	4	. . . .	. . . .	1	5
Umbelliferae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Theophrastaceae . . . . .	. . . .	. . . .	. . . .	1	1	2
Myrsinaceae . . . . .	. . . .	1	. . . .	. . . .	1	2
Plumbaginaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Sapotaceae . . . . .	. . . .	2	1	. . . .	3	6
Symplocaceae . . . . .	. . . .	. . . .	. . . .	. . . .	1	1
Oleaceae . . . . .	. . . .	1	. . . .	. . . .	1	2
Loganiaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Gentianaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Apocynaceae	1	2	. . . .	. . . .	2	5
Asclepiadaceae	2	. . . .	. . . .	. . . .	2	4
Convolvulaceae	4	9	. . . .	. . . .	3	16
Hydrophyllaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Borraginaceae	2	4	1	2	6	15
Verbenaceae	4	7	. . . .	. . . .	. . . .	11
Labiatae	5	2	1	. . . .	. . . .	8
Solanaceae	9	4	. . . .	. . . .	3	16
Scrophulariaceae	1	2	. . . .	. . . .	. . . .	3

	Both hemisph.	Continent of America.	Southern Florida.	Atlantic Islands.	Antilles.	Total.
Bignoniaceae . . . . .	. . . .	4	. . . .	. . . .	. . . .	4
Gesneriaceae . . . . .	. . . .	. . . .	. . . .	. . . .	2	2
Lentibulariaceae . . . . .	. . . .	1	. . . .	. . . .	. . . .	1
Acanthaceae	2	2	. . . .	1	2	7
Plantaginaceae	1	. . . .	. . . .	. . . .	. . . .	1
Rubiaceae	3	13	1	4	4	25
Cucurbitaceae	2	3	. . . .	. . . .	. . . .	5
Goodeniaceae . . . . .	. . . .	. . . .	. . . .	1	. . . .	1
Compositae	17	14	1	2	6	40
Total	207	301	18	34	114	674
	508			148		
			166			

I have enumerated in the Systematic Part 806 species; 132 of these are cultivated, and as will be seen from the list before given there are 674 wild plants, 166 of these are West Indian plants, of which 114 only are known on the Antilles. Another 34 are distributed in the Antilles and the other Atlantic Islands, whereas 18 are to be found both in the Antilles, the other Atlantic Islands and Southern Florida. From the 508 plants that are not restricted to the West Indies, there are 301 that occur on the Continent of America, whereas another 207 are to be found as well in the Continent of America as in the Old world.

From the plants enumerated in the Systematic Part there are 550 named in *Grisebach*: Flora of British West Indian Islands. I could make out by what I found in *Grisebach*: Die geographische Verbreitung der Pflanzen West Indiens, that from these 550 plants there are about 180 indigenous in the Antilles and the Bahamas.

When the results given by *Grisebach* in 1865 had not been changed by more recent investigations on the Flora of the West Indian Islands than the number of indigenous plants I

enumerate is this Flora ought to be between 180 and 304 = (180 + 124). As it appears that my number is but 148, it is evident that the data we had in 1865, about the West Indian plants have changed by the newer collections we have got from the West Indies and the neighbouring countries.

Whereas I draw this conclusion from our knowledge about the Dutch West Indian Islands so I believe that a similar study of the other Antilles would show us that there would be a still greater difference between what we know now and what *Grisebach* stated as the result of his studies on the West Indies in 1865.

In order to show that there is probably not a very large number of plants of the Dutch Antilles St. Eustatius, Saba and St. Martin that might have been overlooked by *Suringar* and myself I give the next list where I compare the numbers of the species from the larger families of the Island of St. Croix (*Eggers*: Flora of St. Croix and the Virgin Islands, 1879) and the Dutch West Indian Islands above named.

	Dutch West Indian Islands.	St. Croix.
Leguminosae	60	57
Gramineae	46	39
Compositae	40	36
Polypodiaceae	37	34
Euphorbiaceae	32	33
Rubiaceae	25	26
Moraceae	17	14
Ulmaceae		
Urticaceae		
Convolvulaceae	16	27
Cyperaceae	16	18
Malvaceae	16	25
Solanaceae	16	13
Borraginaceae	15	20
Myrtaceae	15	22
Caryophyllaceae	12	10
Portulacaceae		
Amarantaceae	12	13

The following list may give any idea about the percentage of the species of the larger families in the Flora of the Islands St. Eustatius, Saba and St. Martin.

Leguminosae	9 %
Gramineae	6.5 %
Compositae	6 %
Polypodiaceae	5.5 %
Euphorbiaceae	4.5 %
Rubiaceae	3.5 %
Borraginaceae	2.5 %
Convolvulaceae	2.5 %
Cyperaceae	2.5 %
Malvaceae	2.5 %
Myrtaceae	2.5 %
Orchidaceae	2.5 %
Piperaceae	2.5 %
Solanaceae	2.5 %

As may be seen from the following list there is no great difference between the numbers of plants known from each of the Islands St. Eustatius, Saba and St. Martin.

St. Eustatius	Saba	St. Martin	249
St. Eustatius	Saba		91
St. Eustatius		St. Martin	65
	Saba	St. Martin	26
St. Eustatius			59
	Saba		100
		St. Martin	84
464	456	424	674

Plant Name	Cuba	Jamaica	Haiti	Portorico	St. Thomas	St. Jan.	St. Croix	Anguilla	St. Martin	Saba	St. Barthélemy	St. Eustatius	St. Kitts	Barbuda	Montserrat	Antigua	Guadeloupe	Dominica	Martinique	St. Lucia	St. Vincent	Barbados	Grenada	Tobago	Trinidad	
<i>Ipomoea arenaria</i>	X			X	X	X	X	X	X																	
<i>Ipomoea sphenophylla</i>												X														
<i>Cordia salvifolia</i>										X							X		X							
<i>Cordia sulcata</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Cordia tremula</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Rochefortia acanthophora</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Tournefortia caribaea</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Tournefortia foetidissima</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Lycium americanum</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Solanum racemotum</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Cestrum laurifolium</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Besleria lutea</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Gesneria ventricosa</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Justicia sessilis</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Beloperone eustachiana</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Psychotria pendula</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Palicourea Pavetta</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Borreria podocephala</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Mitracarpus polycladus</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Eupatorium canescens</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Eupatorium macranthum</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Erigeron spathulatus</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Clibadium erosum</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Pectis humifusa</i>				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

1 = Virgin Islands, 4 = Becquia, 7 = Marie Galante, 10 = Curaçao, 13 = Mustique Island.
 2 = Viequez, 5 = Tortola, 8 = Isla de Pinos, 11 = Culebra Island, 14 = Camouan.
 3 = Crabben Island, 6 = Desirade, 9 = Les Saintes, 12 = Margareta, 15 = Bonaire.

The list given in this chapter needs no further explanation.

As may be seen from the great amount of plants occurring in such a small number of different Islands it will be clear that our knowledge of the Flora of the West Indian Islands is far from being complete.

That is the reason why I will not try to draw any conclusion about the distribution of the different species except a single one and this with all kinds of reserve.

I draw the attention to the data that may be gathered from the following lists.

On the Islands only to the **north** of the Dutch West Indian Islands together with these Islands are collected:

	St. Martin.	Saba.	St. Eustatius.
<i>Diplazium semihastatum</i>	—	—	×
<i>Mariscus capillaris</i>	×	×	—
<i>Tillandsia excelsa</i>	—	×	—
<i>Yucca aloifolia</i>	×	—	—
<i>Smilax coriacea</i>	—	—	×
<i>Smilax ilicifolia</i>	×	—	—
<i>Alternanthera crucis</i>	×	—	—
<i>Portulaca poliosperma</i>	×	—	—
<i>Erythroxyllum havanense</i>	×	×	×
<i>Stigmatophyllon sericeum</i>	×	—	—
<i>Ditaxis faxiculata</i>	×	—	—
<i>Adelia ricinella</i>	×	—	—
<i>Acalypha Poiretii</i>	×	—	—
<i>Cissus obovata</i>	×	—	—
<i>Forestiera Eggersiana</i>	×	—	—
<i>Ipomoea arenaria</i>	×	—	—
<i>Rochefortia acanthophora</i>	×	—	×
<i>Lycium americanum</i>	×	—	—
<i>Mitracarpus polycladus</i>	—	×	—

On the Islands only to the **south** of the Dutch West Indian Islands together with these Islands are collected:

	St. Martin.	Saba.	St. Eustatius.
<i>Philodendron dispar</i>	—	×	×
<i>Vriesea guadalupensis</i>	—	×	×
<i>Piper reticulatum</i>	—	×	×
<i>Ficus Krugiana</i>	—	×	×
<i>Ficus omphalophora</i>	—	×	×
<i>Boehmeria ramiflora</i>	—	×	×
<i>Caesalpinia ciliata</i>	×	×	×
<i>Galactia rubra</i>	×	×	×
<i>Freziera undulata</i>	—	×	—
<i>Marila racemosa</i>	—	×	—
<i>Cordia salvifolia</i>	—	×	×
<i>Cordia tremula</i>	—	×	—
<i>Tournefortia caribaea</i>	—	×	—
<i>Beloperone eustachiana</i>	×	×	×
<i>Eupatorium macranthum</i>	—	×	×

As may be seen from these two lists the greater number of the plants found on the northern Islands only are but to be met with on St. Martin, the greater number of the plants found on the southern Islands only are but to be met with on Saba and St. Eustatius.

In conclusion, I believe the different indigenous plants of the Antilles make it sufficiently clear that the vegetation of St. Martin has been influenced by some other circumstances than the vegetation of Saba and St. Martin.

Species only known from the Dutch West Indians Islands are:

- Galactia nummularia* St. Martin.
- Calyptranthes Boldinghii* St. Martin.
- Ipomoea sphenophylla* St. Eustatius.



THIRD PART

Section C. The vegetation of St. Eustatius, Saba and St. Martin

C. The vegetation of St. Eustatius, Saba and St. Martin

CHAPTER I

NOTES ON THE ASPECT OF THE VEGETATION OF THE THREE DUTCH WEST INDIAN ISLANDS.

Introduction.

The vegetation of St. Eustatius, Saba and St. Martin is that of a tropical zone, without any pronounced dry season. As may be seen from the meteorological data the quantity of rain is almost sufficient to make possible the existence of a tropical rainforest vegetation.

The N. E. tradewinds however are of great influence upon the vegetation; where these winds are not broken by mountains we may meet with the typical vegetation of trees blown in a certain direction as well as with the Cactaceae and thornplants, characteristics of a dry climate.

From the edaphic factors that exert influence upon the character of the different Plantformations I will in this chapter only draw the attention to the amount of humus that covers the rocks. It is one of the principal factors, as there are a great number of localities where but a small quantity of humus is to be found. Only there were no strong wind is blowing, where the atmosphere is humid and where the quantity of humus has surpassed a minimum the tropical vegetation shows itself in its wellknown typical features.

But the above named factors have not exclusively determined the plantcovering of the Islands; one of the greatest factors has been the influence of man, who has been destroying the woods and introducing many plants in cultivating the soil. So there are a great number of plants introduced that have superseded the primitive vegetation.

When taking the vegetation in general and without entering into details we may consider it to be identical on the three Islands. From the short notes however I give in this chapter on the aspect of the different Islands it will be obvious that on each of the three Islands a particular Formation gives a predominant character to each of them.

St. Eustatius.

The monotony of the level part of St. Eustatius is relieved by some plantations surrounded by trees and by roads also bordered by trees and shrubs.

The formation that predominates in the „Cultuurvlakte” is a dry shrubby vegetation of a greyish aspect that I will call the Croton vegetation, following the nomenclature of *Eggers* in his Flora of St. Croix and the Virgin Islands.

The greater part of the hills near Signalhill and Concordia are also covered with the same vegetation.

Only the higher parts of these hills as well as the Quill are covered with a greenish wood that I will call the Eriodendron vegetation also in analogy with *Eggers* l. c.

These two parts of the vegetation are not wholly separated and both of them are intermixed with those plants which form the vegetation of the cultivated region.

The impracticable parts of the rocky cliffs covered only with few plants form a typical vegetation with thicker or more coriaceous leaves in close relation with the vegetation of the seashore; the latter is not very well developed in St. Eustatius as there is but a small beach and the Cultuurvlakte is about 40 m. above the sealevel.

Without entering into details we can practically divide the vegetation of St. Eustatius in:

1. Vegetation of the higher parts of the mountains.
2. Vegetation of the Cultuurvlakte and the lower parts of the mountains.
3. Vegetation of the seashore and the rocky localities of the Island.
4. Vegetation of the cultivated region.

Whereas a survey of the vegetation of St. Eustatius based on these principles is given in the following lists it may be mentioned here that an almost synonymical list could be given, viz:

1. Eriodendron vegetation.
2. Croton vegetation.
3. Littoral vegetation.
4. Eriodendron- and Croton vegetation intermixed with and partly replaced by plants of the cultivated region.

We will see in Chapter II of this Section that these two series of names do not quite agree and this is the reason why I use the first mentioned names when in the following lists I give a survey of the distribution of the plants on the different parts of St. Eustatius. In these lists as well as in the other ones I give in this Chapter the West Indian plants are printed in italics whereas the plants that are cultivated on the Dutch West Indian Islands are printed in small type.

1. Vegetation of the Higher Parts of the Mountains of St. Eustatius.

Acacia macracantha, *Acacia tortuosa*, *Aegiphila martinicensis*, *Allophylus occidentalis*, *Amomis caryophyllata*, *Anacardium occidentale*, *Andira jamaicensis*, *Anona muricata*, *Anona reticulata*, *Anthurium cordatum*, *Aspidium Plumieri*, *Asplenium cristatum*, *Asplenium obtusifolium*, *Asplenium serratum*, *Bernardia corensis*, *Besleria lutea*, *Bignonia unguis-cati*, *Blechnum occidentale*, *Bumelia obovata*, *Bursera simaruba*, *Byrsonima spicata*, *Calotropis procera*, *Capparis Breynia*, *Capparis cynophallophora*, *Capparis frondosa*, *Capparis jamaicensis*, *Casearia parvifolia*, *Cassia glandulosa*, *Catopsis nutans*, *Cecropia peltata*, *Ceiba pentandra*, *Celtis Iguanacea*, *Centrosema virginianum*, *Chiococca racemosa*, *Chrysobalanus icaco*, *Cissus sicyoides*, *Citharelyxum quadrangulare*, *Clusia alba*, *Coccoloba diversifolia*, *Coccoloba nivea*, *Coccoloba uvifera*, *Coffea arabica*, *Corchorus hirsutus*, *Cordia salvifolia*, *Crotalaria retusa*, *Croton astroites*, *Cyathea serra*, *Daphnopsis caribaea*, *Desmanthus depressus*, *Desmodium supinum*, *Dipholis salicifolia*, *Dodonaea viscosa*, *Elaphoglossum conforme*, *Elaphoglossum petiolatum*, *Epidendrum anceps*, *Epidendrum difforme*, *Erithalis fruticosa*, *Erythrocyllum havanense*, *Eugenia axillaris*, *Eugenia cordata*, *Eugenia ligustrina*, *Eupatorium conyzoides*, *Eupatorium macranthum*, *Fagara martinicensis*, *Fagara trifoliata*, *Ficus Krugiana*, *Ficus populnea*, *Ficus Urbaniana*, *Galactia dubia*, *Gesneria ventricosa*, *Guettarda parvifolia*, *Guettarda scraba*, *Gyminda latifolia*, *Gymnanthes lucida*, *Heliconia Bihai*, *Heteropteris lanceolata*, *Heteropteryx purpurea*, *Hillia longifolia*, *Hyperbaena domingensis*, *Inga laurina*, *Impomoea dissecta*, *Jacquemontia pentantha*, *Krugiodendron ferreum*, *Lantana camara*, *Lantana involu-*

crata, *Leiphaimos aphylla*, *Linociera compacta*, *Lonchocarpus violaceus*, *Lycopodium taxifolium*, *Mammea americana*, *Maytenus ellipticus*, *Melothria fluminensis*, *Miconia impetiolaris*, *Miconia laevigata*, *Mimosa pudica*, *Morisonia americana*, *Myrcia paniculata*, *Myrcia splendens*, *Nectandra coriacea*, *Nectandra Krugii*, *Neurogramme calomelanos*, *Oplismenus setarius*, *Palicourea Pavetta*, *Panicum divaricatum*, *Panicum insulare*, *Paspalum hemisphaericum*, *Passiflora laurifolia*, *Passiflora suberosa*, *Pectis humifusa*, *Peperomia acuminata*, *Peperomia glabella*, *Peperomia Langsdorffii*, *Peperomia obtusifolia*, *Peperomia scandens*, *Persea americana*, *Pharus glaber*, *Philodendron dispar*, *Philodendron oxycardium*, *Phoebe elongata*, *Physurus plantagineus*, *Picrasma Antillana*, *Pilea semidentata*, *Piper dilatatum*, *Piper medium*, *Piper reticulatum*, *Piriqueta villosa*, *Pisonia aculeata*, *Pisonia fragrans*, *Pisonia subcordata*, *Pitcairnia augustifolia*, *Polypodium brasiliense*, *Polypodium lycopodioides*, *Polypodium phyllitides*, *Polypodium plumula*, *Polystachya luteola*, *Prescotria stachyoides*, *Prunus myrtifolius*, *Psychotria horizontalis*, *Psychotria rufescens*, *Psychotria uliginosa*, *Randia aculeata*, *Rauwolfia Lamarckii*, *Rhynchosia reticulata*, *Samyda serrulata*, *Schaefferia frutescens*, *Schoepfia Schreberi*, *Scleria lithosperma*, *Smilax coriacea*, *Smilax guianensis*, *Solanum lanceaefolium*, *Solanum racemosum*, *Solanum racemosum igneum*, *Spermacece tenuior*, *Stenochlaena sorbifolia*, *Stenolobium stans*, *Stenorrhynchus orchioides*, *Stigmatophyllum periplocifolium*, *Swietenia mahagoni*, *Symplocos martinicensis*, *Tabernaemontana citrifolia*, *Tecoma leucoxyton*, *Ternstroemia pedicularis*, *Theobroma Cacao*, *Tournefortia foetidissima*, *Tragia volubilis*, *Trema Lamarckianum*, *Trema micranthum*, *Triumfetta rhomboidea*, *Urera Caracasana*, *Vernonia punctata*, *Vittaria lineata*, *Vriesea guadalupensis*, *Waltheria americana*, *Wedelia buphthalmoides*, *Xylosma buxifolium*.

2. Vegetation of the Cultuurvlakte and the Lower Parts of the Mountains of St. Eustatius.

Acacia macracantha, *Acacia tortuosa*, *Amarantus polygonoides*, *Andira jamaicensis*, *Andropogon contortus*, *Aristida americana*, *Ayena pusilla*, *Beloperone eustachyana*, *Bernardia corensis*, *Borreria podoccephala*, *Brassavola cucullata*, *Canavalia obtusifolia*, *Capparis cynophallophora*, *Capparis frondosa*, *Capparis jamaicensis*, *Cassia bicapsularis*, *Cassia glandulosa*, *Catopsis nutans*, *Celtis Iguanacea*, *Cenchrus tribuloides*, *Centrosema virginianum*, *Citharexylum quadrangulare*, *Coccoloba uvifera*, *Commelina virginica*, *Comocladia ilicifolia*, *Corchorus hirsutus*, *Cordia salvifolia*, *Cracca caribaea*,

Croton astroites, *Croton flavens*, *Cuscuta americana*, *Dactyloctenium aegyptium*, *Dalechampia scandens*, *Desmanthus depressus*, *Desmanthus virgatus*, *Desmodium supinum*, *Diodia rigida*, *Dodonaea viscosa*, *Duranta repens*, *Epidendrum papilionaceum*, *Eragrostis ciliaris*, *Erithalis fruticosa*, *Ernodea litoralis*, *Eugenia cordata Sintensis*, *Eugenia ligustrina*, *Eugenia procera*, *Eugenia uniflora*, *Euphorbia articulata*, *Evolvulus sericeus*, *Fourcroya gigantea*, *Galactia dubia*, *Gouania domingensis*, *Gymnanthes lucida*, *Heteropteryx purpurea*, *Hymenocallis caribaea*, *Ipomoea sphenophylla*, *Jacquemontia pentantha*, *Jacquinia armillaris*, *Jatropha curcas*, *Jatropha gossypifolia*, *Justicia sessilis*, *Krameria Ixina*, *Lantana camara*, *Lantana involucrata*, *Malpighia puniceifolia*, *Malvastrum spicatum*, *Maytenus elliptica*, *Melicocca bijuga*, *Melochia tomentosa*, *Melocactus communis*, *Morisonia americana*, *Opuntia Ficus indica*, *Opuntia triacantha*, *Opuntia Tuna*, *Panicum insulare*, *Pappophorum alopecuroideum*, *Pectis humifusa*, *Phoradendron trinervium*, *Phyllanthus distichus*, *Pilea microphylla*, *Pisonia fragans*, *Pisonia subcordata*, *Pitcairnia augustifolia*, *Pithecolobium ungius cati*, *Polypodium lycopodioides*, *Portulaca oleracea*, *Randia aculeata*, *Rauwolfia Lamarckii*, *Rhacoma crossopetalum*, *Rhynchosia reticulata*, *Rochefortia acanthophora*, *Samyda serrulata*, *Schaefferia frutescens*, *Setaria setosa*, *Sida ciliaris*, *Sida supina*, *Solanum racemosum*, *Solanum racemosum igneum*, *Sporobolus virginicus*, *Stenolobium stans*, *Stigmatophyllum periplocifolium*, *Strumpfia maritima*, *Stylosanthes hamata*, *Talinum triangulare*, *Tamarindus indica*, *Tecoma leucoxyton*, *Tephrosia cinerea*, *Tournefortia volubilis*, *Tragus racemosus*, *Turnera ulmifolia*, *Urechites suberecta*, *Vernonia punctata*, *Waltheria americana*.

3. Vegetation of the Seashore and Rocky Parts of St. Eustatius.

Amarantus polygonoides, *Andropogon contortus*, *Argemone mexicana*, *Aristida americana*, *Borreria podocephala*, *Caesalpinia crista*, *Calonyction tuba*, *Canavalia obtusifolia*, *Cassia bicapsularis*, *Comocladia ilicifolia*, *Conocarpus erectus*, *Ernodea litoralis*, *Eupatorium canescens*, *Euphorbia articulata*, *Euphorbia buxifolia*, *Evolvulus sericeus*, *Heliotropium curassavicum*, *Hibiscus tiliaceus*, *Hippomane mancinella*, *Ipomoea pescaprae*, *Jacquinia armillaris*, *Lithophila muscodes*, *Malpighia puniceifolia*, *Melocactus communis*, *Opuntia Ficus indica*, *Opuntia spinosissima*, *Opuntia triacantha*, *Opuntia Tuna*, *Panicum diffusum*, *Pappophorum alopecuroideum*, *Rhacoma crossopetalum*, *Sesuvium portulacastrum*, *Setaria setosa*, *Strumpfia*

maritima, *Tephrosia cinerea*, *Thespesia populnea*, *Tournefortia gnaphalodes*.

4. Vegetation of the Cultivated Region of St. Eustatius.

Abrus precatorius, *Abutilon indicum*, *Acacia macracantha*, *Acacia riparia*, *Acacia tortuosa*, *Acalypha chamaedrifolia*, *Achras sapota*, *Achyranthes obtusifolia*, *Ageratum conyzoides*, *Alternanthera repens*, *Amarantus spinosus*, *Amarantus tristis*, *Ambrosia hispida*, *Anona montana*, *Anona muricata*, *Anthephora hermaphroditica*, *Antigonon leptopus*, *Boerhaavea hirsuta*, *Boerhaavea paniculata*, *Bryophyllum pinnatum*, *Calotropis procera*, *Capparis Breynia*, *Capparis cynophallophora*, *Capraria biflora*, *Cardiospermum halicacabum*, *Cassia occidentalis*, *Cenchrus tribuloides*, *Centrosema virginiana*, *Cheilanthes microphylla*, *Chenopodium ambrosioides*, *Chenopodium murale*, *Cissampelos Pareira*, *Clerodendron aculeatum*, *Coccoloba uvifera*, *Coleus amboinicus*, *Commelina virginica*, *Corchorus acutangulus*, *Corchorus hirsutus*, *Cracca caribaea*, *Crotalaria verrucosa*, *Croton astroites*, *Croton flavens*, *Croton lobatus*, *Cynodon dactylon*, *Cyperus rotundus*, *Datura Metel*, *Datura Stramonium*, *Desmanthus depressus*, *Desmanthus virgatus*, *Desmodium supinum*, *Eleusine indica*, *Eragrostis ciliaris*, *Eupatorium conyzoides*, *Euphorbia heterophylla*, *Euphorbia hypericifolia*, *Euphorbia pilulifera*, *Festuca Myurus*, *Fleurya aestuans*, *Gynandropsis pentaphylla*, *Haematoxylon campechianum*, *Heliotropium indicum*, *Heliotropium parviflorum*, *Hura crepitans*, *Hyptis pectinata*, *Ibatia maritima*, *Indigofera suffruticosa*, *Jacquemontia pentantha*, *Jatropha gossypifolia*, *Kallstroemia maxima*, *Lantana involucrata*, *Leonotis nepetaefolia*, *Leonurus sibiricus*, *Leucaena glauca*, *Lochnera rosea*, *Malvastrum spicatum*, *Melicocca bijuga*, *Melocactus communis*, *Melochia pyramidata*, *Melochia tomentosa*, *Microtea debilis*, *Mimosa pudica*, *Mirabilis Jalapa*, *Mollugo verticillata*, *Momordica Charantia*, *Hydrolea jamaicensis*, *Neurogramme calomelanos*, *Ocimum micranthum*, *Opuntia Ficus indica*, *Opuntia triacantha*, *Opuntia Tuna*, *Panicum insulare*, *Panicum maximum*, *Panicum sanguinale*, *Parthenium Hysterophorus*, *Paspalum fimbriatum*, *Paspalum hemisphaericum*, *Passiflora laurifolia*, *Pedilanthus tithymaloides*, *Peperomia petiolaris*, *Phaseolus lathyroides*, *Phyllanthus niruri*, *Pilea microphylla*, *Piriqueta villosa*, *Plumbago scandens*, *Polanisia viscosa*, *Polypodium aureum*, *Porphyllum ellipticum*, *Portulaca halimoides*, *Portulaca oleracea*, *Portulaca quadrifida*, *Priva echinata*, *Rauwolfia Lamarckii*, *Rhynchosia reticulata*, *Rivina humilis*, *Salvia occidentalis*, *Salvia serotina*, *Setaria glauca*, *Setaria setosa*, *Sida carpinifolia*, *Sida cordifolia*,

Sida supina, *Solanum nigrum nodiflorum*, *Solanum racemosum*, *Solanum racemosum igneum*, *Sonchus oleraceus*, *Spermacoce tenuior*, *Stachytarpheta jamaicensis*, *Stigmatophyllon periplocifolium*, *Stylosanthes hamata*, *Talinum triangulare*, *Tamarindus indica*, *Tecoma leucoxyton*, *Tephrosia cathartica*, *Thunbergia fragans*, *Tillandsia recurvata*, *Vernonia punctata*, *Waltheria americana*, *Wedelia buphthalmoides*, *Zornia diphylla*.

Saba.

The Island of Saba makes a very different impression as St. Eustatius does, especially by the total absence of a level country like the Cultuurvlakte on the latter Island.

Owing to the conical form of Saba there are only steep slopes of hills and these hills are covered by the same vegetation as those in St. Eustatius, viz.: the Eriodendron vegetation. Moreover there is a good quantity of almost naked rock where a very poor flora is to be found.

According to the fact that almost in all the localities that are apt for cultivation the soil is occupied by the inhabitants, there is a well developed vegetation of the cultivated region intermixed with the Eriodendronvegetation.

The Croton vegetation is only to be seen in a very few localities and nowhere on Saba it is so predominant as in St. Eustatius.

That part of the Mountain higher than 500 m. above the sea-level, though also greatly influenced by ruderal plants has a very well developed tropical rainforest which, without losing the typical character of the St. Eustatius forests is characterised by its great number of Ferntrees.

The vegetation of the seashore is very poor and has no influence on the general aspect of the Sabavegetation.

Whereas it is not so easy to make a sharp difference between the four Plantformations still I think it better also to trace out here the four following typical groups:

1. Vegetation of the Mountain top and the greater part of all the slopes of the Island.
2. Vegetation of some arid hills.
3. Vegetation of the seashore and rocky localities.
4. Vegetation of the cultivated region.

Referring to page 267 we might take take the same series of names I gave there for the first three divisions whereas the

fourth division could be replaced by: Eriodendron vegetation intermixed with and partly replaced by ruderal plants.

1. Vegetation of the Mountaintop and the Greater Part of the Slopes of Saba.

Ageratum conyzoides, Alsophila phalerata, Amomis caryophyllata, Andropogon glomeratus, Anona muricata, *Anthurium cordatum*, Aspidium Plumierii, Aspidium trifoliatum, Asplenium cristatum, Baccharis cotinifolia, *Begonia domingensis*, *Besleria lutea*, *Beureria succuleata*, Blechnum occidentale, Blechnum Brownei, *Boehmeria ramiflora*, Bromelia pinguin, Bryophyllum pinnatum, Bursera simaruba, Callisia repens, Capparis Breynia, Capparis cynophallophora, Casearia parvifolia, Cecropia peltata, Celtis Iguanacea, *Cestrum laurifolium*, Chaptalia nutans, Chiococca racemosa, Chloris radiata, Chrysobalanus icaco, *Chrysophyllum argenteum*, Cissus sicyoides, *Cladium restioides*, *Clusia alba*, *Coccoloba diversifolia*, *Coccoloba nivea*, Commelina virginica, *Comocladia ilicifolia*, *Cordia salvifolia*, Crotalaria retusa, Cyathea arborea, Cyathea serra, Cyperus distans, Cyperus rotundus, *Daphnopsis caribaea*, Desmodium axillare, Desmodium supinum, Dichromena radicans, Dioscorea alata, Dioscorea trifida, Diplazium striatum, Dryopteris opposita, Dryopteris reticulata, *Duranta repens*, Elaphoglossum conforme, Elaphoglossum latifolium, Epidendrum anceps, Epidendrum ciliare, Epidendrum globosum, Eragrostis ciliaris, Eragrostis pilosa, Erechthites valerianaefolia, Eryngium foetidum, *Erythroxyton havanense*, *Eugenia axillaris*, *Eugenia procera*, Eupatorium iresinoides, *Eupatorium macrantum*, Eupatorium paniculatum, *Fagara martinicensis*, *Ficus omphalophora*, *Ficus Urbaniana*, *Freziera undulata*, *Gesneria ventricosa*, Gleichenia bifida, Gonzalagunia hirsuta, Guettarda parvifolia, Heliconia Bihai, Heliotropium indicum, Heliotropium parviflorum, Hemidiodia ocimifolia, Hemitelia horrida, Hillia longifolia, Hirtella triandra, *Hyperbaena domingensis*, Hypoxis decumbens, Ichnanthes pallens, Indigofera suffruticosa, Ipomoea fastigiata, *Isachne arundinacea*, Isachne rigens, Lagascea mollis, *Lagenaria vulgaris*, Leiphaimos aphylla, Lepidium virginicum, Leptochloa virgata, Lochnera rosea, Lycopodium taxifolium, Marcgravia umbellata, *Mariscus capillaris*, Mariscus flavus, Melia Azedarach, Melochia tomentosa, Miconia laevigata, *Microstylis spicata*, *Myrcia coriacea*, *Nectandra Krugii*, Nephrolepis exaltata, Neurogramme calomelanos, Neurolaena lobata, Oplismenus setarius, Opuntia triacantha, Ornithidium cocci-neum, Panicum brevifolium, *Palicourea Pavetta*, Paspalum conjuga-

tum, *Passiflora foetida*, *Passiflora rubra*, *Peperomia acuminata*, *Peperomia emarginella*, *Peperomia glabella*, *Peperomia hernandifolia*, *Peperomia obtusifolia*, *Peperomia urocarpa*, *Philodendron giganteum*, *Philodendron oxycardium*, *Physurus plantagineus*, *Phytolacca icosandra*, *Picrasma antillana*, *Pilea microphylla*, *Pilea obtusata*, *Pilea parietaria*, *Piper reticulatum*, *Pisonia aculeata*, *Pisonia subcordata*, *Polypotrya cervina*, *Polypodium aureum*, *Polypodium crassifolium*, *Polypodium lycopodioides*, *Polypodium phyllitidis*, *Polypodium piloselloides*, *Polypodium squamatum*, *Polypodium serrulatum*, *Polypodium trichomanoides*, *Psilotum nudum*, *Psychotria horizontalis*, *Psychotria rufescens*, *Pteris biaurita*, *Rapanea ferruginea*, *Rhynchosia reticulata*, *Rhynchospora polyphylla*, *Sauvagesia erecta*, *Salvia serotina*, *Schoepfia Schreberi*, *Scleria pterota*, *Sechium edule*, *Selaginella flabellata*, *Selaginella substipitata*, *Setaria glauca*, *Setaria setosa*, *Solanum lanceaeifolium*, *Solanum nigrum nodiflorum*, *Solanum racemosum*, *Sonchus oleraceus*, *Stachytarpheta jamaicensis*, *Synedrella nodiflora*, *Symplocos martinicensis*, *Tabernaemontana citrifolia*, *Talinum triangulare*, *Tecoma leucoxyton*, *Tibouchina strigosa*, *Tillandsia excelsa*, *Torulinium confertum*, *Tournefortia foetidissima*, *Tragia volubilis*, *Trichomanes alatum*, *Triumfetta semitriloba*, *Urena lobata*, *Utricularia alpina*, *Vernonia punctata*, *Vriesea guadalupensis*, *Wedelia bupthalmoides*.

2. Vegetation of Dry Hills of Saba.

Acacia Farnesiana, *Anona muricata*, *Capparis cynophallophora*, *Capparis jamaicensis*, *Cardiospermum halicacabum*, *Cissampelos Pareira*, *Coccoloba diversifolia*, *Colubrina ferruginosa*, *Cordia salvifolia*, *Croton flavens*, *Ernodea litoralis*, *Gundlachia domingensis*, *Indigofera suffruticosa*, *Melocactus communis*, *Opuntia Ficus indica*, *Opuntia triacantha*, *Opuntia Tuna*, *Pectis humifusa*, *Pisonia subcordata*, *Polypodium piloselloides*, *Psychotria horizontalis*, *Sesuvium portulacastrum*, *Talinum triangulare*, *Tecoma leucoxyton*, *Tragus racemosus*.

3. Vegetation of the Seashore and Rocky Parts of Saba.

Aristida americana, *Bursera simaruba*, *Calotropis procera*, *Canavalia obtusifolia*, *Capraria biflora*, *Cheilanthes microphylla*, *Chenopodium ambrosioides*, *Chloris paraguayensis*, *Coccoloba uvifera*, *Dactyloctenium aegyptium*, *Eupatorium conyzoides*, *Euphorbia articulata*, *Hippomane mancinella*, *Lithophila muscoides*, *Lochnera rosea*, *Mariscus brizaeus*, *Melocactus communis*, *Neurogramme calomelanos*, *Opuntia Ficus indica*, *Opuntia triacantha*, *Opuntia Tuna*,

Panicum insulare, *Pappophorum alopecuroideum*, *Pectis febrifuga*, *Pisonia aculeata*, *Pisonia subcordata*, *Portulaca oleracea*, *Sesuvium portulacastrum*, *Sida rhombifolia*, *Solanum racemosum*, *Stylosanthes hamata*, *Tecoma leucoxydon*, *Turnera ulmifolia*.

4. Vegetation of the Cultivated Region of Saba.

Abrus precatorius, *Acacia Farnesiana*, *Acalypha chamaedrifolia*, *Acnistus arborescens*, *Achyranthes obtusifolia*, *Adiantum tenerum*, *Ageratum conyzoides*, *Alternanthera repens*, *Alysicarpus nummularius*, *Amarantus paniculatus*, *Amarantus spinosus*, *Amarantus tristis*, *Ambrosia hispida*, *Anacardium occidentale*, *Anona montana*, *Anona muricata*, *Anona reticulata*, *Anona squamosa*, *Anthephora hermaphroditica*, *Antigonon leptopus*, *Argemone mexicana*, *Aristida americana*, *Asclepias nivea*, *Asplenium pumilum*, *Beloperone eustachiana*, *Besleria lutea*, *Beureria succulenta*, *Bidens bipinnatus*, *Bidens leucantha*, *Bignonia unguis-cati*, *Bixa Orellana*, *Blechnum occidentale*, *Blechum Brownei*, *Boerhaavea hirsuta*, *Boerhaavea paniculata*, *Borreria podoccephala*, *Bouchea Ehrenbergii*, *Boussingaultia baselloides*, *Brassica integrifolia*, *Bromelia pinguin*, *Bryophyllum pinnatum*, *Bumelia obovata*, *Bursera simaruba*, *Byrsonima spicata*, *Caesalpinia crista*, *Cajanus indicus*, *Callisia repens*, *Capparis Breynia*, *Capparis cynophallophora*, *Capparis frondosa*, *Capparis jamaicensis*, *Capraria biflora*, *Cardiospermum halicacabum*, *Casearia parvifolia*, *Cassia bicapsularis*, *Cassia glandulosa*, *Cassia occidentalis*, *Catopsis nutans*, *Celtis Iguanacea*, *Cenchrus tribuloides*, *Centrosema virginianum*, *Cestrum laurifolium*, *Chaptalia nutans*, *Cheilanthes microphylla*, *Chenopodium ambrosioides*, *Chiococca racemosa*, *Chloris paraguayensis*, *Chrysobalanus icaco*, *Cissus sicyoides*, *Citharexylum quadrangulare*, *Clerodendron aculeatum*, *Clusia alba*, *Coccoloba diversifolia*, *Coccoloba nivea*, *Coccoloba obtusifolia*, *Coccoloba uvifera*, *Coleus amboinicus*, *Comelina virginica*, *Comocladia ilicifolia*, *Cordia salvifolia*, *Cordia sulcata*, *Cordia tremula*, *Crescentia Cujete*, *Crinum americanum*, *Crotalaria incana*, *Crotalaria retusa*, *Croton flavens*, *Croton lobatus*, *Cucumis Anguria*, *Cuscuta americana*, *Cyperus rotundus*, *Dactyloctenium aegyptium*, *Daphnopsis caribaea*, *Desmanthus virgatus*, *Desmodium axillare*, *Desmodium spirale*, *Desmodium supinum*, *Desmodium uncinatum*, *Dichromena radicans*, *Drymaria cordata*, *Dryopteris opposita*, *Duranta repens*, *Eleusine indica*, *Epidendrum anceps*, *Epidendrum ciliare*, *Epidendrum papilionaceum*, *Eragrostis ciliaris*, *Eragrostis pilosa*, *Erechthites hieracifolia*, *Erechthites valerianaefolia*, *Erigeron canadensis*, *Erigeron spathulatus*, *Eryngium*

foetidum, *Erythroxyllum havanense*, *Eugenia axillaris*, *Eugenia Jambos*, *Eugenia procera*, *Eugenia uniflora*, *Eupatorium conyzoides*, *Eupatorium iresinoides*, *Eupatorium macrophyllum*, *Euphorbia hypericifolia*, *Euphorbia pilulifera*, *Euphorbia pulcherrima*, *Fagara martinicensis*, *Faramea odoratissima*, *Ficus Krugiana*, *Ficus omphalophora*, *Ficus populnea*, *Ficus Urbaniana*, *Fleurya aestuans*, *Galactia rubra*, *Gonzalagunia hirsuta*, *Gouania domingensis*, *Guettarda parvifolia*, *Guettarda scabra*, *Gynandropsis pentaphylla*, *Heliotropium parviflorum*, *Hemidiodia ocimifolia*, *Hymenaea Courbaril*, *Hymenocallis caribaea*, *Hyptis pectinata*, *Inga laurina*, *Ipomoea fastigiata*, *Ipomoea Nil*, *Indigofera suffruticosa*, *Iresine paniculata*, *Jacquemontia pentantha*, *Jatropha curcas*, *Jatropha gossypifolia*, *Justicia sessilis*, *Kallstroemia maxima*, *Lascaea mollis*, *Lantana Camara*, *Lantana involucrata*, *Leonotis nepetaefolia*, *Leonurus sibiricus*, *Lepidium virginicum*, *Leptochloa virgata*, *Linociera compacta*, *Lochnera rosea*, *Malpighia puniceifolia*, *Malvastrum spicatum*, *Mammea americana*, *Mariscus brizaeus*, *Mariscus capillaris*, *Melothria fluminensis*, *Miconia laevigata*, *Mitracarpus polycladus*, *Momordica charantia*, *Morisonia americana*, *Myrcia coriacea*, *Myrcia splendens*, *Nectandra coriacea*, *Nectandra Krugii*, *Neurogramme calomelanos*, *Ocimum micranthum*, *Oncidium spec.*, *Oplismenus setarius*, *Oxalis corniculata*, *Palicourea Pavetta*, *Panicum brevifolium*, *Panicum divaricatum*, *Panicum insulare*, *Panicum maximum*, *Panicum molle*, *Panicum sanguinale*, *Pappophorum alopecuroideum*, *Parthenium Hysterophorus*, *Paspalum conjugatum*, *Paspalum fimbriatum*, *Paspalum hemisphaericum*, *Passiflora laurifolia*, *Passiflora rubra*, *Passiflora suberosa*, *Pavonia spinifex*, *Pectis humifusa*, *Pedilanthus tithymaloides*, *Peperomia glabella*, *Peperomia petiolaris*, *Petiveria alliacea*, *Pharus glaber*, *Philodendron dispar*, *Philodendron oxycardium*, *Phoradendron trinervium*, *Phyllanthus niruri*, *Physalis pubescens*, *Picrasma antillana*, *Pilea microphylla*, *Pilea semidentata*, *Piper dilatatum*, *Piper reticulatum*, *Pisonia aculeata*, *Pisonia subcordata*, *Pitcairnia angustifolia*, *Pithecolobium unguis-cati*, *Plantago major*, *Pluchea purpurascens*, *Plumbago scandens*, *Plumiera alba*, *Polanisia viscosa*, *Polypodium aureum*, *Polypodium brasiliense*, *Polypodium lycopodioides*, *Polypodium phyllitidis*, *Polypodium piloselloides*, *Polypodium squamatum*, *Porophyllum ellipticum*, *Portulaca oleracea*, *Portulaca pilosa*, *Priva echinata*, *Psidium Guajava*, *Psychotria rufescens*, *Psychotria uliginosa*, *Pteris biaurita*, *Randia aculeata*, *Rauwolfia Lamareckii*, *Rhacoma crossopetalum*, *Rhynchosia reticulata*, *Rivina humilis*, *Ruellia tuberosa*, *Salvia occidentalis*, *Salvia serotina*, *Sauvagesia erecta*, *Schaefferia frutescens*, *Schoepfia*

Schreberi, *Scleria pterota*, *Scoparia dulcis*, *Sechium edule*, *Senecio sonchifolius*, *Setaria glauca*, *Setaria setosa*, *Sida carpinifolia*, *Sida cordifolia*, *Sida supina*, *Sideroxylon foetidissimum*, *Smilax guianensis*, *Solanum aculeatissimum*, *Solanum lanceaefolium*, *Solanum nigrum nodiflorum*, *Solanum racemosum igneum*, *Solanum torvum*, *Sonchus oleraceus*, *Spermacoce tenuior*, *Spigelia Anthelmia*, *Sporobolus indicus*, *Stachytarpheta jamaicensis*, *Stenolobium stans*, *Stylosanthes hamata*, *Synedrella nodiflora*, *Tabernaemontana citrifolia*, *Talinum paniculatum*, *Talinum triangulare*, *Tamarindus indica*, *Tecoma leucoxyton*, *Tephrosia cathartica*, *Tetrazygia discolor*, *Thespesia populnea*, *Thunbergia alata*, *Tillandsia fasciculata*, *Tillandsia recurvata*, *Tillandsia usneoides*, *Tillandsia utriculata*, *Tournefortia foetidissima*, *Tragia volubilis*, *Trema Lamarckianum*, *Triumfetta semitriloba*, *Urechites suberecta*, *Urena lobata*, *Vernonia punctata*, *Villamilla octandra*, *Waltheria americana*, *Wedelia buphthalmoides*, *Wittmackia lingulata*, *Zebrina pendula*.

St. Martin.

Widely different from the former two Islands the vegetation of St. Martin is chiefly composed of a Crotonvegetation much more developed than on St. Eustatius, whereas the tropical woods that are to be found on St. Eustatius and Saba are not to be met with on St. Martin.

The greater part of the Island being cultivated the ruderal-plants are dispersed in almost the whole Island, along the roads and on the plantations and meadows, except in the typical Croton-vegetation which on the outer parts of St. Martin is gradually changing into a well developed Littoralflora.

This Littoralflora together with the Crotonvegetation commands the whole aspect of St. Martin.

Only where the hills are a little higher the Eriodendronvegetation like that one of the northern part of St. Eustatius is to be found.

The vegetation in the neighbourhood of the Saltponds with species that are not to be seen on the other Islands has also a typical aspect.

According to the results I got in studying the vegetation of St. Martin more minutely I dare say that we can also trace out here the following formations.

1. Vegetation of the tops of the hills.
2. Vegetation of the level parts of the Island and of the lower slopes of the hills.
3. Vegetation of the seashore and the rocky parts.
4. Vegetation of the cultivated region.

Referring to page 267 we could substitute for the first three divisions the same names I gave there, whereas the fourth division is almost synonym with: Crotonvegetation and in some cases also Eriodendronvegetation intermixed with, and partly replaced by ruderal plants.

1. Vegetation of the Tops of the Hills of St. Martin.

Abrus precatorius, *Acacia macracantha*, *Acacia riparia*, *Actinostemon caribaeum*, *Adelia ricinella*, *Ageratum conyzoides*, *Amarantus spinosus*, *Amomis Caryophyllata*, *Anona muricata*, *Anona squamosa*, *Anthurium cordatum*, *Argithamnia candicans*, *Aristolochia trilobata*, *Asclepias nivea*, *Asplenium cristatum*, *Asplenium pumilum*, *Beloperone eustachiana*, *Bernardia corensis*, *Bignonia unguis-cati*, *Blechnum occidentale*, *Brassavola cucullata*, *Bryophyllum pinnatum*, *Bunchosia nitida*, *Bursera simaruba*, *Callisia repens*, *Canella alba*, *Capparis Breynia*, *Capparis coccolobifolia*, *Capparis cynophallophora*, *Capparis jamaicensis*, *Capraria biflora*, *Capsium frutescens*, *Cardiospermum halicacabum*, *Casearia parvifolia*, *Casearia sylvestris*, *Cassia bicapsularis*, *Catopsis nutans*, *Cenchrus tribuloides*, *Chaptalia nutans*, *Chiococca racemosa*, *Chloris ciliata*, *Cissampelos Pareira*, *Cissus obovata*, *Cissus sicyoides*, *Clusia rosea*, *Coccoloba nivea*, *Commelina virginica*, *Comocladia ilicifolia*, *Corchorus hirsutus*, *Corchorus siliquosus*, *Crotalaria incana*, *Croton betulinus*, *Cyperus elegans*, *Dalechampia scandens*, *Daphnopsis caribaea*, *Desmodium supinum*, *Desmodium triflorum*, *Dorstenia contrajerva*, *Epidendrum anceps*, *Epidendrum ciliare*, *Erigeron spathulatus*, *Eryngium foetidum*, *Erythroxyllum havanense*, *Eugenia fragrans*, *Eugenia Jambos*, *Eugenia monticola*, *Eugenia procera*, *Eupatorium macrophyllum*, *Euphorbia petiolaris*, *Exostemma caribaeum*, *Ficus populnea*, *Ficus Urbaniana*, *Fleurya aestuans*, *Guettarda parvifolia*, *Guettarda scabra*, *Hemionitis palmata*, *Heteropteris lanceolata*, *Hymenocallis caribaea*, *Inga laurina*, *Krugiodendron ferreum*, *Kyllinga brevifolia*, *Lantana Camara*, *Lantana involucrata*, *Leonurus sibirica*, *Lepidium virginicum*, *Leucaena glauca*, *Loniciera compacta*, *Mammea americana*, *Mangifera indica*, *Maytenis ellipticus*, *Miconia laevigata*, *Myrcia paniculata*, *Myrcia splendens*, *Neurogramme calomelamos*, *Oncidium spec.*, *Oplis-*

menus setarius, *Oxalis corniculatus*, *Panicum diffusum*, *Panicum divaricatum*, *Panicum insulare*, *Panicum maximum*, *Panicum prostratum*, *Panicum sanguinale*, *Paspalum conjugatum*, *Passiflora laurifolia*, *Passiflora suberosa*, *Pedilanthus tithymaloides*, *Peperomia acuminata*, *Peperomia glabella*, *Peperomia obtusifolia*, *Pharus glaber*, *Phoradendron trinervium*, *Phyllanthus nobilis*, *Phytolacca icosandra*, *Picramnia pentandra*, *Picrasma antillana*, *Pilea microphylla*, *Piper dilatatum*, *Pisonia aculeata*, *Pisonia fragrans*, *Pisonia subcordata*, *Pithecolobium unguis-cati*, *Pluchea purpurascens*, *Polypodium aureum*, *Polypodium brasiliense*, *Polypodium lycopodioides*, *Polypodium phyllitidis*, *Polypodium piloselloides*, *Polypodium squamatum*, *Psidium Guajava*, *Psychotria horizontalis*, *Randia aculeata*, *Rhynchosia reticulata*, *Rivina humilis*, *Rocheffortia acanthophora*, *Ruellia tuberosa*, *Samyda serrulata*, *Schaefferia frutescens*, *Senecio sonchifolius*, *Sida carpinifolia*, *Sida rhombifolia*, *Smilax ilicifolia*, *Solanum lanceaefolium*, *Solanum racemosum*, *Sonchus oleraceus*, *Spermacece tenuior*, *Spigelia Anthelmia*, *Spiranthes elata*, *Sporobolus virginicus*, *Stenolobium stans*, *Synedrella nodiflora*, *Tabernaemontana citrifolia*, *Tecoma leucoxyton*, *Tillandsia fasciculata*, *Tillandsia recurvata*, *Tillandsia utriculata*, *Tournefortia foetidissima*, *Tournefortia hirsutissima*, *Tradescantia geniculata*, *Tragia volubilis*, *Triumfetta rhomboidea*, *Vernonia punctata*, *Wedelia bupthalmoides*, *Wittmackia lingulata*.

2. Vegetation of the Level Parts and of the Lower Parts of the Hills of St. Martin.

Abrus precatorius, *Abutilon indicum*, *Amarantus polygonoides*, *Amarantus tristis*, *Amyris elemifera*, *Anacardium occidentale*, *Anona muricata*, *Anona squamosa*, *Argithamnia candicans*, *Beloperone eustachiana*, *Beureria succulenta*, *Boerhaavea paniculata*, *Bunchosia nitida*, *Bursera simaruba*, *Calotropis procera*, *Calyptroanthus Boldinghii*, *Canella alba*, *Capparis cynophallophora*, *Capparis frondosa*, *Capparis jamaicensis*, *Cardiospermum halicacabum*, *Cassia bicapsularis*, *Cassia occidentalis*, *Cenchrus tribuloides*, *Centrosema virginianum*, *Chloris paraguayensis*, *Chrysobalanus icaco*, *Cissus sicyoides*, *Clusia rosea*, *Coccoloba uvifera*, *Commelina virginica*, *Comocladia ilicifolia*, *Conocarpus erectus*, *Crotalaria retusa*, *Croton astroites*, *Croton betulinus*, *Croton flavens*, *Cuscuta americana*, *Cyperus elegans*, *Cyperus rotundus*, *Desmanthus depressus*, *Ditaxis fasciculata*, *Dodonaea viscosa*, *Eleusine indica*, *Epidendrum papilionaceum*, *Eragrostis ciliaris*, *Eragrostis pilosa*, *Eragrostis tephrosanthos*, *Erigeron canadensis*,

Erithalis fruticosa, *Eugenia axillaris*, *Eugenia monticola*, *Euphorbia buxifolia*, *Euphorbia petiolaris*, *Euphorbia thymifolia*, *Evolvulus glaber*, *Evolvulus sericeus*, *Exostemma caribaeum*, *Fagara spinifex*, *Fagara trifoliata*, *Ficus populnea*, *Ficus Urbaniana*, *Gouania dominicensis*, *Guajacum officinale*, *Guettarda parvitolia*, *Gyminda latifolia*, *Heliotropium indicum*, *Heliotropium microphyllum*, *Hymenocallis caribaea*, *Ipomoea fastigiata*, *Jacquinia armillaris*, *Krugiodendron ferreum*, *Lantana Camara*, *Lantana involucrata*, *Lemna paucicostata*, *Leucaena glauca*, *Lochnera rosea*, *Malpighia augustifolia*, *Malpighia puniceifolia*, *Mangifera indica*, *Melochia nodiflora*, *Melochia tomentosa*, *Myrcia paniculata*, *Panicum diffusum*, *Panicum prostratum*, *Panicum sanguinale*, *Paspalum hemisphaericum*, *Passiflora suberosa*, *Pectis humifusa*, *Pedilanthus tithymaloides*, *Picramnia pentandra*, *Piscidia piscipula*, *Pisonia aculeata*, *Pisonia fragrans*, *Pisonia subcordata*, *Pithecolobium unguis-cati*, *Plumiera alba*, *Portulaca halimoides*, *Portulaca oleracea*, *Portulaca poliosperma*, *Portulaca quadrifida*, *Psidium Guayava*, *Randia aculeata*, *Rauwolfia Lamarkii*, *Rhacoma crossopetalum*, *Rhynchosia reticulata*, *Rochefortia acanthophora*, *Ruellia tuberosa*, *Salvia serotina*, *Samyda serrulata*, *Schaefferia frutescens*, *Sida carpinifolia*, *Sida ciliaris*, *Sida cordifolia*, *Sida supina*, *Smilax ilicifolia*, *Solanum racemosum*, *Solanum racemosum igneum*, *Solanum torvum*, *Sporobolus virginicus*, *Stachytarpheta jamaicensis*, *Stigmatophyllon periplocifolium*, *Stigmatophyllon sericeum*, *Stylosanthes hamata*, *Tamarindus indica*, *Tecoma leucoxydon*, *Ternstroemia peduncularis*, *Tillandsia recurvata*, *Tournefortia volubilis*, *Tragus racemosus*, *Tribulus cistoides*, *Vernonia punctata*, *Waltheria americana*.

3. Vegetation of the Seashore and Rocky Parts of St. Martin.

Acacia Farnesiana, *Alternanthera crucis*, *Antheophora hermaphroditica*, *Aristida americana*, *Avicennia nitida*, *Batis maritima*, *Borrchia arborescens*, *Bumelia obovata*, *Byrsonima crassifolia*, *Caesalpinia ciliata*, *Caesalpinia crista*, *Canavalia obtusifolia*, *Cassia obovata*, *Cassia polyadena*, *Clerodendron aculeatum*, *Coccoloba Krugii*, *Coccoloba uvifera*, *Conocarpus erectus*, *Ernodea littoralis*, *Euphorbia prostrata*, *Fimbristylis spathacea*, *Galactia dubia*, *Heleocharis capitata*, *Heliotropium curassavicum*, *Hippomane mancinella*, *Hypelate trifoliata*, *Ipomoea arenaria*, *Ipomoea pes caprae*, *Jacquinia Berteri*, *Juncellus laevigatus*, *Laguncularia racemosa*, *Lithophila muscoides*, *Lycium Americanum*, *Mariscus brizaeus*, *Melocactus communis*, *Metastelma parviflorum*, *Opuntia Ficus indica*, *Opuntia triacantha*, *Opuntia Tuna*, *Pappophorum alopecuroideum*, *Phyllanthus epiphyll-*

lanthus, *Plumbago scandens*, *Rhizophora Mangle*, *Salicornia herbacea*, *Scaevola Plumieri*, *Sesbania sericea*, *Sesuvium portulacastrum*, *Suriana maritima*, *Tephrosia cinerea*, *Tournefortia gnaphalodes*, *Turnera ulmifolia*, *Urechites suberecta*, *Yucca aloifolia*.

4. Vegetation of the Cultivated Region of St. Martin.

Abrus precatorius, *Abutilon indicum*, *Acacia macracantha*, *Acacia riparia*, *Acalypha chamaedrifolia*, *Acalypha Poirerii*, *Acanthospermum humile*, *Achyranthes aspera*, *Adelia ricinella*, *Adiantum tenerum*, *Alternanthera repens*, *Alysicarpus nummularifolius*, *Amarantus polygonoides*, *Amarantus tristis*, *Ambrosia hispida*, *Anacardium occidentale*, *Anona muricata*, *Anona squamosa*, *Antigonon leptopus*, *Ayenia pusilla*, *Beloperone eustachiana*, *Beureria succulenta*, *Bidens bipinnatus*, *Blechnum occidentale*, *Blechnum Brownei*, *Boerhaavea erecta*, *Boerhaavea hirsuta*, *Boerhaavea paniculata*, *Boerhaavea scandens*, *Brassavola cucullata*, *Bromelia pinguin*, *Bryophyllum pinatum*, *Bursera simaruba*, *Caesalpinia coriaria*, *Caesalpinia pulcherrima*, *Callisia repens*, *Calotropis procera*, *Capparis Breynia*, *Capparis coccolobifolia*, *Capparis cynophallophora*, *Capparis frondosa*, *Capparis jamaicensis*, *Capraria biflora*, *Capsicum frutescens*, *Cardiospermum halicacabum*, *Casearia parvifolia*, *Cassia bicapsularis*, *Cassia glandulosa*, *Cassia occidentalis*, *Catopsis nutans*, *Ceiba pentandra*, *Celosia nitida*, *Celtis Iguanacea*, *Cenchrus tribuloides*, *Centrosema virginianum*, *Chenopodium ambrosioides*, *Chenopodium murale*, *Chiococca racemosa*, *Chloris paraguayensis*, *Chrysobalanus icaco*, *Cissus sicyoides*, *Citharexylum quadrangulare*, *Coccoloba nivea*, *Coccoloba uvifera*, *Coleus amboinicus*, *Commelina virginica*, *Comocladia ilicifolia*, *Corchorus hirsutus*, *Cracca caribaea*, *Crotalaria incana*, *Crotalaria retusa*, *Crotalaria verrucosa*, *Croton astroites*, *Croton betulinus*, *Croton flavens*, *Croton lobatus*, *Cuscuta americana*, *Cyperus elegans*, *Cyperus rotundus*, *Dactyloctenium aegyptium*, *Datura fastuosa*, *Datura Metel*, *Desmanthus depressus*, *Desmanthus virgatus*, *Desmodium spirale*, *Desmodium supinum*, *Ditaxis fasciculata*, *Duranta repens*, *Eleusine indica*, *Eragrostis ciliaris*, *Eragrostis tephrosanthos*, *Erigeron canadensis*, *Erithalis fruticosa*, *Erythroxyton brevipes*, *Erythrina corallodendron*, *Eugenia axillaris*, *Eugenia monticola*, *Eugenia procera*, *Eupatorium conyzoides*, *Euphorbia buxifolia*, *Euphorbia heterophylla*, *Euphorbia hypericifolia*, *Euphorbia petiolaris*, *Euphorbia pilulifera*, *Evolvulus glaber*, *Evolvulus sericeus*, *Exostemma caribaeum*, *Fagara martinicensis*, *Fagara spinifex*, *Fagara trifoliata*, *Ficus populnea*, *Galactia rubra*, *Gouania domingensis*, *Guettarda parvi-*

folia, *Gyminda latifolia*, *Gynandropsis pentaphylla*, *Heliotropium indicum*, *Heliotropium parviflorum*, *Hemidioda ocymifolia*, *Hippomane mancinella*, *Hura crepitans*, *Hymenaea Courbaril*, *Hyptis pectinata*, *Ipomoea dissecta*, *Ipomoea fastigiata*, *Indigofera suffruticosa*, *Iresine elatior*, *Jacquinia armillaris*, *Jatropha curcas*, *Jatropha gossypifolia*, *Justicia sessilis*, *Kallstroemia maxima*, *Krugiodendron ferreum*, *Kyllingia brevifolia*, *Lagascea mollis*, *Lantana Camara*, *Lantana involucrata*, *Leonotis nepetaefolia*, *Leonurus sibiricus*, *Lepidium virginicum*, *Leucaena glauca*, *Leucas martinicensis*, *Lippia reptans*, *Lithophila muscoides*, *Lochnera rosea*, *Malpighia angustifolia*, *Malpighia puniceifolia*, *Malvastrum spicatum*, *Mangifera indica*, *Mariscus capillaris*, *Melia azedarach*, *Melicocca bijuga*, *Melochia tomentosa*, *Microtea debilis*, *Moringa oleifera*, *Morisonia americana*, *Murraya exotica*, *Neptunia plena*, *Ocimum micranthum*, *Oldenlandia herbacea*, *Oplismenus setarius*, *Panicum colonum*, *Panicum diffusum*, *Panicum geminatum*, *Panicum insulare*, *Panicum prostratum*, *Panicum sanguinale*, *Parkinsonia aculeata*, *Parthenium Hysterophorus*, *Paspalum hemisphaericum*, *Pavonia spinifex*, *Pectis humifusa*, *Pedilanthus tithymaloides*, *Peperomia Langsdorffii*, *Persea americana*, *Petiveria alliacea*, *Phloxeris vermicularis*, *Phyllanthus niruri*, *Physalis angulata*, *Picramnia pentandra*, *Piscidia piscipula*, *Pisonia aculeata*, *Pisonia fragrans*, *Pisonia subcordata*, *Pithecolobium unguis cati*, *Plumiera alba*, *Plumiera rubra*, *Polanisia viscosa*, *Portulaca halimoides*, *Portulaca oleracea*, *Priva echinata*, *Psidium Guajava*, *Psychotria horizontalis*, *Randia aculeata*, *Rauwolfia Lamarckii*, *Rhacoma crossopetalum*, *Rhynchosia reticulata*, *Rivina humilis*, *Ruellia tuberosa*, *Salvia serotina*, *Samyda serrulata*, *Schaefferia frutescens*, *Setaria setosa*, *Setaria viridis*, *Sida carpinifolia*, *Sida ciliaris*, *Sida cordifolia*, *Sida supina*, *Solanum nigrum nodiflorum*, *Solanum racemosum igneum*, *Solanum torvum*, *Spermacoce tenuior*, *Sporobolus indicus*, *Sporobolus virginicus*, *Stachytarpheta jamaicensis*, *Stenandrum rupestre*, *Stenolobium stans*, *Stigmatophyllon periplocifolium*, *Stylosanthes hamata*, *Talinum triangulare*, *Tamarindus indica*, *Tecoma leucoxyton*, *Teramnus labialis*, *Thespesia populnea*, *Thunbergia fragrans*, *Tillandsia recurvata*, *Tournefortia foetidissima*, *Tournefortia volubilis*, *Tragus racemosus*, *Tribulus cistoides*, *Triumfetta rhomboidea*, *Vernonia punctata*, *Villamilia octandra*, *Waltheria americana*, *Wedelia buphthalmoides*, *Zizyphus Jujuba*.

CHAPTER II

DESCRIPTION OF THE DIFFERENT TYPES OF THE VEGETATION.

Introduction.

In chapter I of the Third Part I divided the vegetation of the Dutch West Indian Islands into three regions: 1. the higher parts, 2. the level plains and the lower part of the slope of the hills, 3. the slope of the hills joining the seashore together with the seashore. Whereas I refer for further details to the Geographical Part I draw the attention to the fact that on St. Eustatius the three regions are well developed. In Saba, however there is almost no level plain to be seen, whereas in St. Martin there is but a very small part of the Island that belongs to the first region.

There is a close connection between the above given data and the development of the three typical forms of the vegetation.

1. ERIODENDRONVEGETATION.

2. CROTONVEGETATION.

3. LITTORALVEGETATION.

The first two names are taken from *Eggers* Flora of St. Croix and the Virgin Islands.

ERIODENDRONVEGETATION.

This type of vegetation is best characterised by the following trees: *Capparis cynophallophora*, *Capparis frondosa*, *Capparis jamaicensis*, *Ardisia coriacea*, *Rauwolfia Lamarkiana*, *Linociera compacta*, *Pisonia fragans*, *Daphnopsis caribaea*, *Coccoloba diversifolia*, *Clusia alba*, *Ternstroemia peduncularis*, *Nectandra coriacea*, *Inga laurina*, *Picrasma antillana*, *Ficus populnea*, *Ficus Urbaniana*, *Ficus Krugiana*, *Allophylus occidentalis*, whereas *Eugenia axillaris*, *Eugenia cordata*, *Eugenia ligustrina*, *Myrcia splendens*, *Palicourea Pavetta*, *Psychotria horizontalis*, *Psychotria rufescens*, *Chiococca*

racemosa, *Samyda serrulata*, *Casearia parvifolia*, *Byrsonima spicata*, *Erythroxylon havanense*, *Vernona punctata*, are the most predominant shrubs. In very humid localities the soil is covered by *Peperomia glabella*, *Peperomia obtusifolia* and *Pilea semidentata*.

St. Eustatius.

The Eriodendronvegetation is well developed on the higher parts of the Quill and on those parts of the northern hilly country that are shut in between the higher tops, viz the ravines.

Quill. The higher parts of the Quill are covered by a forest of evergreen plants and interspersed between these evergreens there are some species with deciduous leaves; all the plants named on pag. 282 and 283 as typical for the Eriodendronvegetation are to be seen here:

The lower parts of this region show some plants that occur also in the Crotonvegetation viz. *Acacia*, *Croton*, *Lantana*, *Solanum*. Shrubs and smaller trees: *Chrysobalanus icaco*, *Symplocos martinicensis*, *Rauwolfia Lamarckiana*, *Tabernaemontana citrifolia*, *Lonchocarpus violacea*, *Casearia parvifolia*, are forming a dense mixture and gradually pass into the forest of the higher tops; there we see a real tropical rainforest with its typical features. The trees that dominate on this top are: *Linociera compacta*, *Nectandra coriacea*, *Inga laurina*, *Myrcia paniculata*, *Myrcia splendens*, *Psychotria rufescens*, *Eugenia ligustrina*, *Micoma laevigata*, *Byrsonima spicata*, *Clusia alba*, *Ceiba pentandra*, *Pisonia fragans*, *Coccoloba diversifolia*, *Ardisia guadalupensis*, *Daphnopsis carabaea*, *Bursera simaruba*, *Ficus Krugiana*, *Cestrum laurifolium*, *Allophylus occidentalis*, *Tecoma leucoxyton*, *Celtis Iguanacea*, *Casearia parvifolia*, *Persea gratissima*, *Ternstroemia peduncularis*, *Tabernaemontana citrifolia*, *Guettarda scabra*, *Ficus laevigata*. On humid localities we see the following plants: *Peperomia glabella*, *Pilea semidentata*, *Anthurium oxycardium*. Especially the eastern part of the Top of the Quill is very humid and there *Clusia alba*, *Linociera compacta* and *Myrtaceae* are covered with *Tillandsia recurvata*. The inner slope of the Quill has the same plants, which occur on the outer slope, but moreover the following plants are to be seen here: *Ceiba pentandra*, *Piper reticulatum* and *Piper dilatatum*, *Urera Caracasana*, *Pharus glaber*, *Panicum divaricatum*, *Oplismenus setarius*, *Smilax coriacea*, *Stenochlaena sorbifolia*, *Cyathea serra*, *Begonia domingensis*, *Phoebe elongata*, *Hyperbaena dominicensis*, *Pisonia aculeata*, *Psychotria uliginosa*, *Palicourea Pavetta*,

Heliconia Bihai, *Asplenium obtusifolium*, *Asplenium cristatum*, *Asplenium serratum*, *Stenochlaena sorbifolia*, *Polypodium Phyllitidis*, *Polypodium lycopodioides*, *Dryopteris parasitica*, whereas *Boehmeria ramiflora*, *Peperomia scandens* together with *Araceae* cover humid rocks. There occur in the Quill also *Coffea arabica*, *Theobroma Cacao*, *Spondias lutea* and *Mammea americana*.

Northern hilly country. In the northern hilly country the *Eriodendron* vegetation is to be found in the ravines and other parts which are not exposed to the heavy winds and where a certain amount of humus is covering the rocks.

It may easily be recognised here by the great amount of smaller trees and shrubs mentioned on page 282 and 283, whereas the higher trees that are to be seen in the Quill are almost absent. Moreover there is a great quantity of trees, which certainly are not wild here, intermixed with the lower shrubs viz: *Tamarindus indica*, *Melicocca bijuga*, *Moringa oleifera*, *Spondias purpurea*, *Persea americana*.

The species that predominate here in the northern *Eriodendron* vegetation are: *Rhacoma crossopetalum*, *Eugenia ligustrina*, *Eugenia procera*, *Samyda serrulata*, *Eugenia axillaris*, *Trema Lamarckiana*, *Pithecolobum unguis-catis*, *Celtis Iguanacea*, *Guettarda parvifolia*, *Schaefferia frutescens*, *Krugiodendron ferreum*, *Chiococca racemosa*, *Randia aculeata*, *Erythroxyton brevipes*, *Erythroxyton havanense*, *Pisonia aculeata*, *Guettarda scabra*, *Bumelia obovata*, *Anona muricata*, *Anona squamosa*, *Rauwolfia Lamarckiana*.

Here in the northern hilly country no sharp difference can be traced between the *Eriodendron* vegetation and the *Croton* vegetation, nor between the latter and the Vegetation of the rocky slopes of the hills.

Where this *Croton* vegetation begins to change into the *Eriodendron* vegetation we see the following plants: *Lantana Camara*, *Lantana involucrata*, *Croton flavens*, *Croton astroites*, *Bernardia corensis*, *Wedelia buphthalmoides*, *Melochia tomentosa*, *Fourcroya gigantea*, *Vernonia punctata*, *Stylosanthes hamata*, *Portulaca oleracea*, *Panicum divaricatum*, *Melocactus communis*, *Tragus racemosus*, *Ruellia tuberosa*, *Pectis humifusa*, *Desmanthus virgatus*, *Sida ciliaris*, *Justicia sessilis*, *Commelina virginica*, *Setaria setosa*, *Jatropha gossypifolia*, *Opuntia triacantha*, *Cordia sulcata*, *Gouania domingensis*, *Cissus sicyoides*, *Rhynchosia reticulata*, *Stigmatophyllon periplo-cifolium*, *Tillandsia utriculata*, *Phoradendron trinervium*.

There are very few herbaceous plants; only in humid localities some species of *Peperomia* are to be seen.

Saba.

On Saba the Eriodendronvegetation is well developed in the guts and those parts of the lower slopes of the hills which are not used for cultivation. The plants typical for this vegetation are *Eugenia axillaris*, *Pisonia obtusata*, *Anona muricata*, *Stenolobium Stans*, *Lantana Camara*, *Tournefortia foetidissima*, *Chiococca racemosa*, *Trema Lamarckiana*, *Pithecolobium unguis-cati*, *Allophylus occidentalis*, *Nectandra Krugii*, *Schoepfia Schreberi*, *Capparis cynophallophora*, *Casearia parvifolia*, *Hyperbaena domingensis*, *Pisonia aculeata*, *Celtis Iguanæa*, *Symplocos martinicensis*, *Coccoloba diversifolia*, *Myrcia coriacea*, *Tabernaemontana citrifolia*, *Coccoloba nivea*, *Capparis frondosa*, *Chrysobalanus icaco*, *Inga laurina*, *Erythroxyton havanense*, *Picrasma antillana*, *Daphnopsis caribæa*, *Amomis caryophyllata*, *Clusia alba*, *Miconia laevigata*, *Ardisia coriacea*, *Citharexylum quadrangulare*, *Cestrum laurifolium*, *Tecoma leucoxyton*, *Psychotria rufescens*.

It must however be understood that there are but few parts of Saba where the Eriodendronvegetation has the same feature as that of the northern hilly country of St. Eustatius. Whereas the shrubs of the latter contain some Myrtaceae, these plants do not occur in Saba in a great quantity; the trees that give a typical aspect to the Quill vegetation viz. *Linociera compacta*, *Nectandra coriacea*, do not occur on Saba except sporadically.

There is however another part of the Eriodendronvegetation in Saba covering the higher tops of the Mountain, where the typical plants of a real tropical rainforest occur.

The greater part of the plants we meet in this part of Saba are not known from St. Eustatius and St. Martin and chiefly occur in Guadaloupe and other Antilles with high mountains. The feature of this rainforest is given to it by the Treeferns: *Hemitelia horrida*, *Alsophila phalerata*, *Cyathea serra*, *Cyathea arborea* together with *Euterpe*.

On the most humid localities occur: *Psychotria pendula*, *Hillia parasitica*, *Marcgravia umbellata*, *Heliconia Bihai*, *Fagara martinicensis*, *Nectandra Krugii*, *Psychotria rufescens*, *Besleria lutea*, *Gesneria ventricosa*, *Charianthus crinitus*, *Peperomia emarginella*, *Peperomia urocarpa*, *Peperomia hernandifolia*, *Hymenophyllum hirtellum*, *Trichomanes alatum*, *Polypodium trichomanoides*, *Utricularia alpina*, *Ornithidium coccineum*. The soil is densely covered by: *Dryopteris parasitica*, *Dryopteris reticulata*, *Aspidium Plumierii*, *Aspidium trifoliatum*, *Polybotrya cervina*, *Neptrolepis exal-*

tata, *Diplazium striatum*, *Blechnum occidentale*, *Stenochlaena sorbifolia*, *Neurogramme calomelanos*, *Lonchitis hirsuta*, *Polypodium brasiliense*, *Polypodium crassifolium*, *Polypodium loriceum*, *Polypodium piloselloides*, *Elaphoglossum conforme*, *Elaphoglossum latifolium*, *Gleichenia bifida*.

St. Martin.

The well developed *Eriodendron* vegetation of Saba and St. Eustatius with its typical plants is not so pronounced in St. Martin. Small remnants of an in former times well developed *Eriodendron* vegetation are to be found on the tops of the Milldrumhill, Mount Paradis, Nakedboyhill, Centryhill and on the higher parts of the road from Philipsburg to Marigot. The following plants make it sure that these parts are covered by the *Eriodendron* vegetation: *Panicum divaricatum*, *Peperomia obtusifolia*, *Peperomia glabella*, *Polypodium aureum*, *Daphnopsis caribaea*, *Miconia laevigata*, *Tabernaemontana citrifolia*, *Samyda serrulata*, *Inga laurina*.

Moreover there are to be seen the following plants: *Guettarda scabra*, *Myrcia coriacea*, *Casearia parvifolia*, *Pisonia fragrans*, *Peperomia Langsdorffii*. Especially typical for St. Martin are the many individuals that may be found of *Samyda serrulata*, *Coccoloba nivea*, *Pisonia fragrans*, *Comocladia ilicifolia*, *Schaefferia frutescens* and of the following ones unknown from St. Eustatius and Saba: *Picramnia pentandra*, *Bunchosia nitida*, *Casearia sylvestris*, *Eugenia monticola*, *Tournefortia hirsutissima*.

Coccoloba diversifolia, *Allophylus occidentalis*, *Ardisia coriacea*, *Linociera compacta*, *Cestrum laurifolium* do not occur on St. Martin. Where the *Croton* vegetation comes in connection with the *Eriodendron* vegetation, especially in the northern parts of St. Martin we find another number of plants not known on the other Dutch West Indian Islands viz. *Malpighia augustifolia*, *Bunchosia nitida*, whereas there occur also in great quantity, *Samyda serrulata*, *Pisonia subcordata*, *Capparis frondosa* and *Capparis jamaicensis*.

CROTONVEGETATION.

The *Croton* vegetation is characterised by *Croton*, *Acacia*, *Lantana*, *Solanum racemosum*, *Melochia tomentosa*, *Opuntia triacantha*, *Opuntia Tuna*, *Opuntia Ficus indica* and *Melocactus*.

St. Eustatius.

The level country and the lower parts of the slopes of the hills

which are not used by man for agricultural purposes, are covered with the Crotonvegetation. Moreover this vegetation is to be seen also in the northern hilly country as well on the slopes of the hills as on the higher localities viz. Boven.

Especially in the hilly country there is not a great difference between a poorly developed Crotonvegetation and that of the rocky slopes. The Crotonvegetation on St. Eustatius has not the same aspect over the whole Island.

Where *Croton flavens* is predominant and but a few trees like *Pisonia subcordata* are growing among the lower shrubs, the Crotonvegetation has a very monotonous aspect and it is not very difficult to walk through it; we find this form of the Crotonvegetation near Boven.

In the lower parts of St. Eustatius the Croton is much more intermixed with other plants such as *Acacia tortuosa*, *Solanum racemosum* and *igneum*, *Pisonia subcordata*, *Tecoma leucoxyton*, *Crescentia Cujete*, *Ceiba pentandra*, *Leucaena glauca*, *Plumbago scandens*, *Randia aculeata*, *Jatropha gossypifolia*, *Lochnera rosea*, *Cassia bicapsularis* and other ruderalplants. From the Cactaceae there are to be seen *Opuntia Tuna*, *Opuntia Ficus Indica*, *Opuntia triacantha* and *Melocactus communis*.

Moreover there is a great quantity of *Lantana Camara*, *Lantana involucrata*, *Waltheria americana*, *Melochia tomentosa*, *Stigmaphyllon periplocifolium* and *Tournefortia volubilis*. This type of the Crotonvegetation, is to be seen especially near Bengalen and between Oranjestad and Fort de Wind.

Still another feature of the Crotonvegetation is to be mentioned where *Krameria ixina* is predominant; this typical Crotonvegetation is only to be seen near Fort de Wind; here the plants are much smaller and the soil is covered by ruderalplants.

Saba.

The Crotonvegetation of Saba is not well developed; from the plants typical for this vegetation on St. Eustatius *Acacia Farnesiana* is not to be seen in Saba, whereas the other plants although they occur in Saba are nowhere in such quantities as to predominate and to form a real Crotonvegetation.

St. Martin.

The level part of St. Martin as far as it is not used for agricultural purposes and the slopes of the surrounding hills are covered with the Crotonvegetation.

This Crotonvegetation has another aspect as the one of St. Eustatius, owing to different other plants that are intermixed with the St. Eustatiusplants viz. *Croton betulinus*, *Euphorbia petiolaris*, *Plumiera alba*, *Fagara spinifex*, *Fagara trifoliata*, *Ditaxis fasciculata*, *Argithamnia candicans*, *Adelia ricinella*, *Comocladia ilicifolia*, *Melochia tomentosa*, *Phyllanthus epyphyllanthus*, *Coccoloba Krugii*, *Jacquinia Berteri*.

Here also the Crotonvegetation shows some likeness with the Eriodendronvegetation and especially in the Lowlands and near Orientbay we see the Crotonvegetation gradually intermixed with or replaced by the Eriodendronvegetation; there we find the following plants: *Eugenia axillaris*, *Capparis frondosa*, *Chiococca racemosa*, *Picramnia pentandra*, *Capparis cynophallophora*, *Pithecolobium ungius-cati*, *Comocladia ilicifolia*, *Casearia parvifolia*, *Samyda serrulata*, *Croton flavens*, *Melochia tomentosa*, *Plumiera alba*, *Acacia Farnesia*, *Lantana Camara*, *Lantana involucrata*, *Argithania candicans*, *Rauwolfia Lamarkiana*, *Clerodendron aculeatum*, *Comocladia ilicifolia*, *Capparis jamaicensis*, *Byrsonima lucida*, *Eugenia axillaris*, *Myrcia coriacea*, *Calyptranthes Boldinghii*, *Terntroemia peduncularis*, *Chrysobalanus Icaco*, *Eugenia ligustrina*, *Ficus laevigata*, *Clusia alba*, *Psidium Guajava*, *Randia aculeata*, *Pisonia subcordata*, *Bursera simaruba*, *Euphorbia petiolaris*, *Cassia polyadena*, *Paspalum paniculatum*, *Stigmatophyllon sericeum*, *Croton betulinus*, *Ruellia tuberosa*, *Cassia occidentalis*, *Stachytarpheta jamaicensis*, *Melocactus communis*.

LITTORAL VEGETATION.

The Littoralvegetation may easily be divided into:

1. **Vegetation of the beach.**
2. **Vegetation of the rocky slopes near the seashore.**
3. **Vegetation of the lagoons and the saltponds.**

I. **Vegetation of the Beach.**

This vegetation is characterised by:

Hippomane mancinella, *Erithalis fruticosa*, *Exostemma caribaeum*, *Suriana maritima*, *Canella alba*, *Tournefortia gnaphalodes*, *Scaevola Plumieri*, *Coccoloba uvifera*, *Ipomoea pescaprae*, *Heliotropium curasavicum*, *Sporobolus virginicus*.

St. Eustatius.

This vegetation is only to be seen at the different Bays.

The trees which mostly occur are *Hippomane mancinella* and *Coccoloba uvifera*. The smaller plants are *Tournefortia gnaphalodes*, *Suriana maritima* and *Clerodendron aculeatum*, *Ipomoea pescaprae*, *Canavalia obtusifolia*, *Sporobolus virginicus*, *Heliotropium curassavicum* and *Lithophila muscoides*.

On localities where the ruderal plants have also invaded into the seashore we see the following plants: *Caesalpinia ciliata*, *Jatropha gossypifolia*, *Lantana Camara*, *Acacia macracantha*, *Plumbago scandens* and *Solanum racemosum igneum*. Where the seashore does not consist of sand but only of stones the vegetation is still less developed and we only find *Portulaca halimoides*, *Euphorbia buxifolia*, *Tephrosia cinerea* and *Borreria podocephala*.

Saba.

The seashore and accordingly also the Seashorevegetation is almost not developed on Saba; only at Flatpoint there is a small beach and the plants to be found there are: *Lithophila muscoides*, *Sesuvium portulacastrum*, *Stylosanthes hamata* and *Turnera ulmifolia*.

St. Martin.

Here the beach is very well developed along the southern part of the Island near Grande Case and near Orientbay; the typical plants to be met with are: *Erithalis fruticosa*, *Exostemma caribaeum*, *Canella alba*, *Borrchia argentea*, *Jacquinia armillaris*, *Suriana maritima*, *Chrysobalanus icaco*, *Conocarpus erectus*, *Strumpfia maritima*, *Jacquinia Berteri*, *Phyllanthus epiphyllanthus*, *Caesalpinia ciliata*, *Caesalpinia crista*, *Tournefortia gnaphalodes*, *Scaevola Plumierii*, *Bumelia obovata*, *Coccoloba uvifera*, *Ernodea litoralis*, *Ipomoea pescaprae*, *Heliotropium curassavicum*, *Sporobolus virginicus*.

II. Vegetation of the Rocky Slopes near the Seashore.

I refer to the Geographical and Orological Section where may be seen where these rocks are to be found.

The plants typical for this vegetation are: *Coccoloba uvifera*, *Jacquinia armillaris*, *Tecoma leucoxydon*, *Rhacoma crossopetalum*, *Conocarpus erectus*, *Erythalis fruticosa*, *Melocactus communis*, Pe-

dilanthus tithymaloides, *Dactyloctenium aegyptium*, *Aristida americana*.

St. Eustatius.

This vegetation is formed here by the following plants: *Pedilanthus tithymaloides*, *Fourcroya gigantea*, *Opuntia spinosissima*, *Lochnera rosea*, *Croton flavens*, *Jacquinia armillaris*, *Erythalis fruticosa*, *Melocactus communis*, *Opuntia triacantha*, *Opuntia Tuna*, *Opuntia Ficus indica*, *Jacquinia armillaris*, *Conocarpus erecta*, *Acacia macracantha*, *Tecoma leucoxydon*, *Dactyloctenium aegyptium*, *Pappophorum alopecuroideum*, *Euphorbia articulata*, *Eragrostis ciliaris*, *Aristida americana*, *Pectis humusa*. *Ernodea littoralis* and *Strumpfia maritima* are to be seen on the White Wall only.

Saba and St. Martin.

Whereas the plants occurring on the rocky parts of these Islands do not differ from those on St. Eustatius this vegetation needs no further description.

I will only mention that *Jacquinia armillaris* has not been seen on Saba. The following summary of the plants found on the small Islands Green Island, Green Key and Tintamarre may give an idea of the vegetation there.

On Green Island I collected the following plants:

Euphorbia articulata, *Coccoloba uvifera*, *Tecoma leucoxydon*, *Mariscus brizaeus*, *Opuntia Funa*.

On Green Key I collected the following plants: *Euphorbia buxifolia*, *Portulaca halimoides*, *Lantana involucrata*, *Croton flavens*, *Acacia Farnesiana*, *Beloperone eustachiana*, *Lithophila muscoides*, *Tournefortia gnaphalodes*, *Batis maritima*, *Hippomane mancinella*, *Opuntia Ficus indica*, *Melocactus communis*, *Coccoloba uvifera*. The vegetation is a mixture of Croton- and Littoralvegetation.

The Island of Tintamarre that partly is used for cultivation of Cotton and consists also out of limestone I saw the following plants: *Mariscus brizaeus*, *Guajacum officinale*, *Evolvulus argyraeus*, *Heliotropium microphyllum*, *Borrchia arborescens*, *Jacquemontia pentantha*, *Desmanthus depressus*, *Fagara flava*, *Panicum prostratum*, *Beureria succulenta*, *Tournefortia volubilis*, *Plumiera alba*, *Pedilanthus tithymaloides*, *Bignonia ungius-cati*, *Hippomane mancinella*, *Rauwolfia Lamarekii*, *Melochia tomentosa*, *Croton flavens*, *Croton betulinus*, *Amarantus polygonoides*, *Cenchrus tribuloides*, *Pappophorum alopecuroideum*, *Sesuvium portulacastrum*, *Erythalis fruti-*

cosa, *Myrcia splendens*, *Rhacoma crossopetalum*, *Stigmatophyllon periplocifolium*, *Argithamnia candicans*, *Turnera ulmifolia*.

On this Island as may be seen from the above mentioned species there is a typical Littoral- and Crotonvegetation which wholly resembles the one on St. Martin.

III. Vegetation of the Lagoons and the Saltponds.

This Vegetation is to be seen on St. Martin only; the typical plants are *Rhizophora* Mangle, *Laguncularia racemosa*, *Avicennia nitida*. Accordingly we find here a Mangrovevegetation whereas in the neighbourhood of the Saltponds are to be seen *Batis maritima*, *Pycreus flavescens*, *Eleocharis capitata* together with other small plants of the beach.

VEGETATION OF THE CULTIVATED REGION.

This vegetation needs no further explanation as it is of no phyto-geographical interest; for further details I refer to page 270, 274, 275, 280 and 281.

From the data given by *Feenstra* in his: *De Nederlandsche West-Indische eilanden* etc. as well as from the data gathered by myself when collecting the plants on the different parts of the Islands it is evident that in former time a much greater part of St. Eustatius was in cultivation; I refer also to the Rapport of *Went*; not only the northern hilly country but also the inner part of the Quill shows some plants that certainly were introduced there by man.

The greater part of the localities of Saba that are apt for cultivation is used for that purpose whereas on St. Martin the greater part of the level plains and the lower slopes of the hills are in cultivation; the top of Mount Paradis certainly was used in former times for the same purposes.

The well developed meadows in St. Martin take up a great part of this Island.

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VERNACULAR NAMES.

- Adam's needle = *Yucca aloifolia* Linn. 36.
Adonis = *Duranta repens* Linn. 170. ✓
Adonisabbot = *Leonotis nepetaefolia* R. Br. 172.
Almond tree = *Terminalia Catappa* Linn. 143.
Aloe = *Aloe vera* Linn. 36.
Antigua balsam = *Rauwolfia Lamarkii* DC. 157.
Arrowroot = *Maranta arundinacea* Linn. 40.
Avocado = *Persea americana* Mill. 70.
Bachelor's button = *Gomphrena globosa* Linn. 58.
Bahama grass = *Cynodon dactylon* Pers. 22.
Balsam tree = *Bursera simaruba* Sarg. 103.
Banso = *Samyda serrulata* Linn. 136.
Basil = *Ocimum basilicum* Linn. 175.
Basket hibisc = *Hibiscus schizopetalus* Hook. f. 130.
Basket hoop = *Smilax guianensis* Vitman. 37.
Bastard black berry = *Eugenia procera* Poir. 148.
Bastard bough = *Picramnia pentandra* Sw. 103.
Bastard cancker berry = *Psychotria rufescens* H. B. et K. 192.
Bastard catclauw = *Polypodium lycopodioides* Linn. 8.
Bastard cherry = *Malpighia augustifolia* Linn. 105.
Bastard cinnamom = *Ardisia coriacea* Sw. 151.
Bastard nettle = *Acalypha chamaedrifolia* Müll-Arg. 110.
Bastard white root = *Aegiphyla martinicensis* Jacq. 171.
Bayberry = *Amomis caryophyllata* Kr. et Urban. 144.
Bellapple = *Passiflora laurifolia* Linn. 138.
Big yellow popbush = *Crotalaria retusa* Linn. 87.
Billyache = *Rauwolfia Lamarkii* DC. 157.
Bitterroot = *Cassia occidentalis* Linn. 84.
Birdsberry = *Eugenia monticola* DC. 147.
= *Myrcia paniculata* Kr. et Urban. 145.
Bitterpot = *Urechites suberecta* Müll-Arg. 157.
Blackberry = *Eugenia ligustrina* Willd. 147.

- Blackcherry = *Eugenia ligustrina* Willd. 147.
 = *Randia aculeata* Linn. 188.
- Black lobloly tree = *Pisonia fragrans* Dumont. 61.
- Black mangeniel = *Euphorbia petiolaris* Curt. 116.
- Black sage = *Croton betulinus* Vahl. 109.
- Black sweetwood = *Nectandra Krugii* Mez. 71.
- Black toarch = *Melochia tomentosa* Linn. 132.
- Blisterbush = *Plumbago scandens* Linn. 152.
- Birdpepper = *Capsicum dulce* Hort. 176.
- Blueberry = *Symplocos martinicensis* Jacq. 153.
- Blydog = *Cassia bicapsularis* Linn. 83.
- Boulangier = *Solanum Melongena* Linn. 177.
- Boxwood = *Murraya exotica* Linn. 101.
 = *Schaefferia frutescens* Jacq. 121.
- Bracelet = *Erythroxylum havanense* Jacq. 99.
- Breadfruit tree = *Artocarpus incisa* Linn. f. 48.
- Bridgo tree = *Linociera compacta* R. Br. 154.
- Bruckroot = *Chiococca racemosa* Jacq. 190.
- Bugal plant = *Russelia juncea* Zuccar. 180.
- Bullgrass = *Mariscus brizaeus* C. B. Clarke. 27.
- Burrgrass = *Cenchrus tribuloides* Linn. 20.
- Button wood = *Conocarpus erectus* Linn. 143.
- Calabash = *Crescentia Cujete* Linn. 183.
- Calaloe = *Amarantus tristis* Linn. 57.
- Canckerberry = *Solanum racemosum* Jacq. 177.
- Candle wood = *Guettarda scabra* Lam. 189.
- Cane grass = *Panicum divaricatum* Linn. 16.
- Cannon = *Canna indica* Linn. 40.
- Casha = *Acacia Farnesiana* Willd. 79.
- Cashew = *Anacardium occidentale* Linn. 118.
- Cassave = *Manihot utilissima* Pohl. 114.
- Castoroil plant = *Ricinus communis* Linn. 112.
- Casuarine = *Casuarina equisetifolia* Linn. 44.
- Cat claw = *Bignonia unguis—cati* Linn. 181.
- Cat nip = *Salvia serotina* Linn. 173.
- Centeepeplant = *Comocladia ilicifolia* Sw. 119.
- Charlotten = *Allium ascalonicum* Linn. 36.
- Cherry = *Anacardium occidentale* Linn. 118.
 = *Malpighia puniceifolia* Linn. 106.
- Choaky berry = *Eugenia axillaris* Willd. 146.
- Chickenweed = *Euphorbia pilulifera* Linn. 116.
- Children chickenweed = *Euphorbia thymifolia* Linn. 117.

- Churchblossom = *Capparis frondosa* Jacq. 75.
 Churchyardblossom = *Lochnera rosea* Reichb. 156.
 Cinnamon tree = *Amomis caryophyllata* Kr. et Urban. 144.
 Cockspur = *Pisonia aculeata* Linn. 61.
 = *Xylosma buxifolium* A. Gray 136.
 Cocoa = *Theobroma Cacao* Linn. 133.
 Cocoaplum = *Chrysobalanus icaco* Linn. 77.
 Coffee = *Coffea arabica* Linn. 191.
 Coralita = *Antigonon leptopus* Hook. et Arn. 55.
 Coralplant = *Jatropha multifida* Linn. 113.
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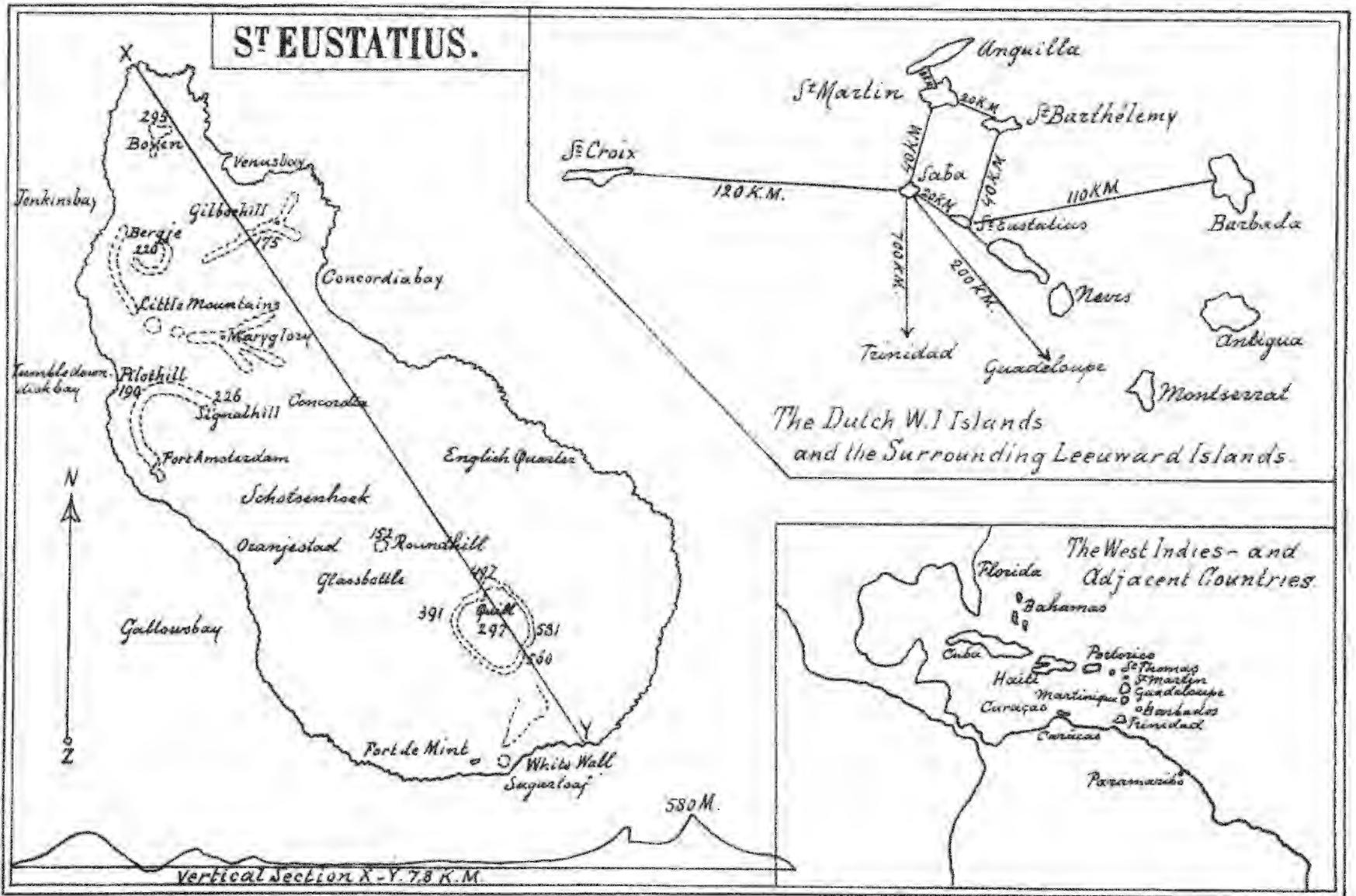
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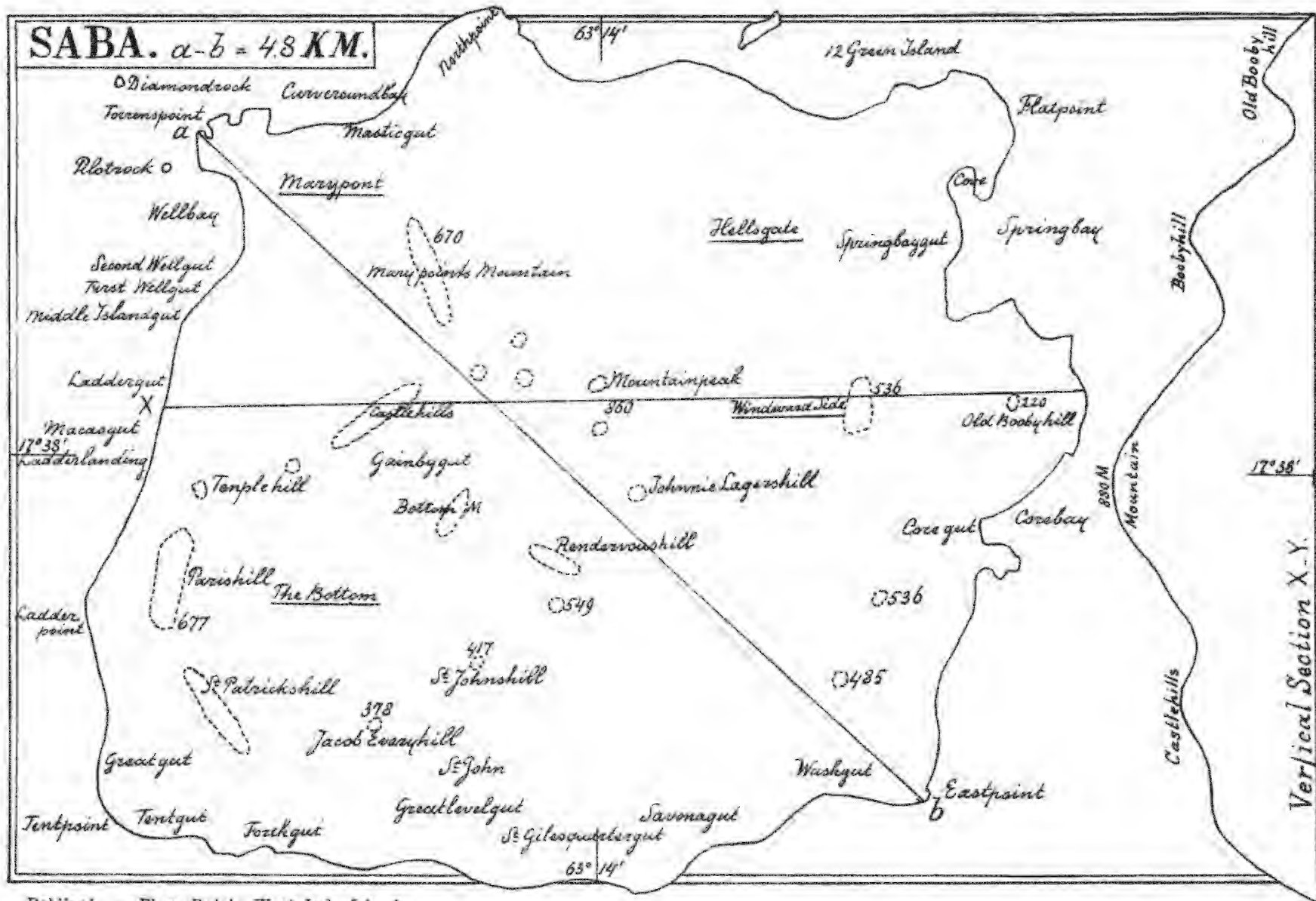
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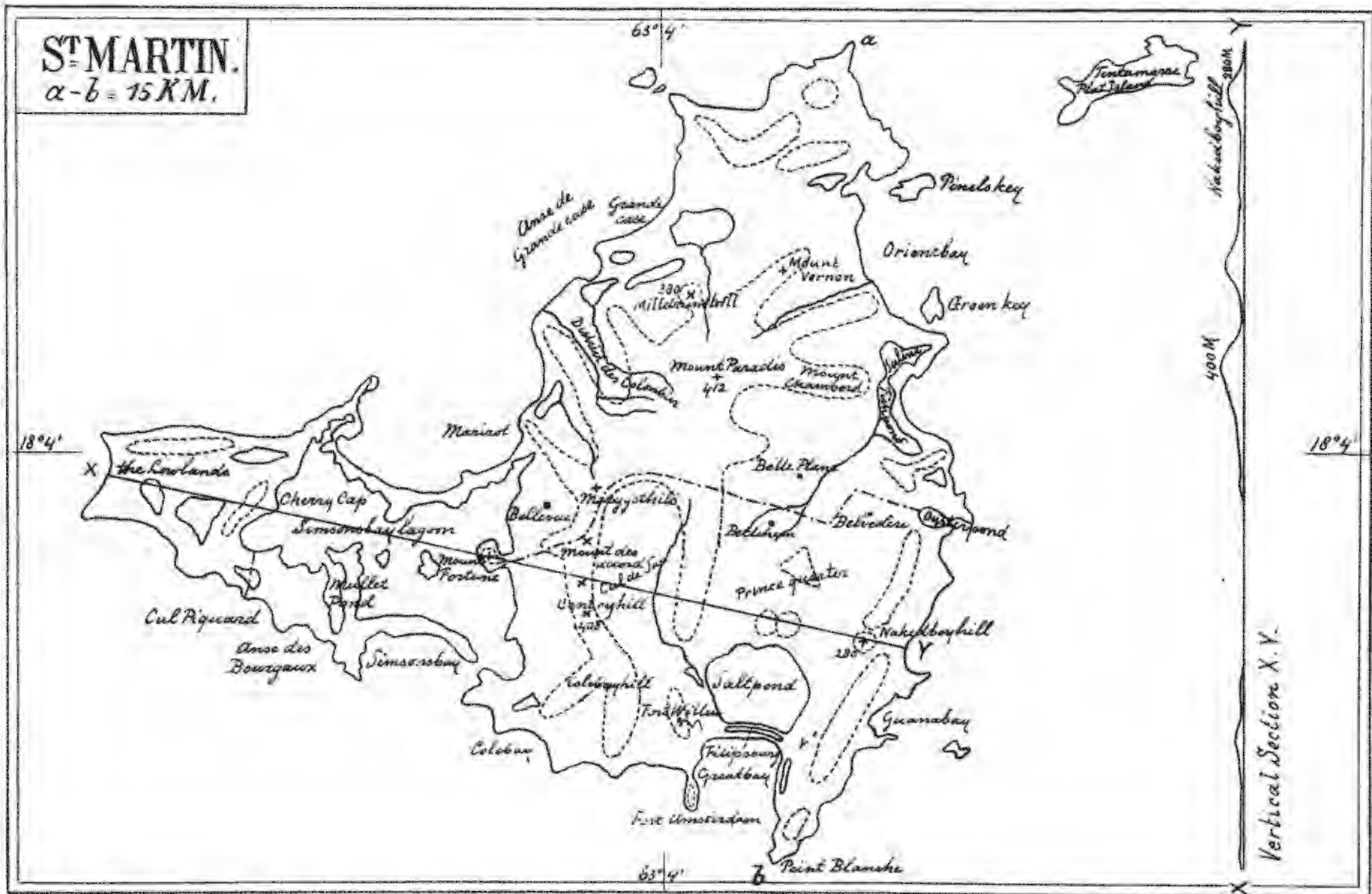
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Bolding. — Flora Dutch, West Ind., Islands.



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THE FLORA OF CURAÇAO, ARUBA AND BONAIRE

BY

I. BOLDINGH,

Phil. Nat. Dr.

BOEKHANDEL EN DRUKKERIJ
voorheen
E. J. BRILL — LEIDEN
1914.





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INDIAN ISLANDS.**

**II. The Flora of Curaçao, Aruba and
Bonaire.**

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SECOND VOLUME
Curaçao, Aruba and Bonaire

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PREFACE.

In continuation of his voyage to the Dutch West Indian Islands St. Eustatius, Saba and St. Martin, about which particulars are to be found in the first part of the Flora of the West Indian Islands¹⁾, the author undertook a second voyage in 1909—1910 in order to study the flora of the Islands Curaçao, Aruba and Bonaire.

It was again on the suggestion of Dr. F. A. F. C. Went, Professor of Botany in Utrecht University, that this voyage was undertaken and it is principally owing to his exertions that the following corporations gave financial support: de Maatschappij ter bevordering van het Natuurkundig onderzoek der Nederlandsche koloniën (Society for promoting the Physical investigation of the Dutch colonies), de Koninklijke Academie van Wetenschappen te Amsterdam (Royal Society at Amsterdam) which put the P. W. Korthals fund at my disposal, the Committee for the F. W. van Eeden fund, het Koninklijk Nederlandsch Aardrijkskundig Genootschap (Royal Dutch Geographical Society), het Nederlandsch Natuur- en Geneeskundig Congres (the Dutch Physical and Medical Congress) and het Provinciaal Utrechtsch Genootschap van Kunsten en Wetenschappen (Provincial Utrecht Society of Arts and Sciences); also the Botanical laboratory contributed towards the expense of transporting the plant collections in exchange for which it received the collections. To all these corporations I wish to express here my sincere thanks. Het Provinciaal Utrechtsch Genootschap van Kunsten en Wetenschappen again subsidized in order to have this flora printed.

Besides to the corporations mentioned the author is greatly indebted to Prof. Dr. F. A. F. C. Went and to his Excellency the Colonial Minister for his recommendation to the Governor of Curaçao.

¹⁾ I. Boldingh. The Flora of the Dutch West Indian Islands. First Volume. St. Eustatius, Saba and St. Martin. Brill, Leyden, 1909.

He further has to thank all who during his voyage occupied the posts of Governor of Curaçao and Commander of the Islands Aruba and Bonaire, namely:

the Governors of Curaçao: Jhr. J. O. de Jong van Beek en Donk and Th. J. A. Nuyens LL. D., the Commanders of Aruba: Mr. H. J. Beaujon and of Bonaire: Mr. A. E. J. van den Brandhof and the Hon. District Masters of Curaçao: Mr. A. Thiele, Mr. J. J. Beaujon, of Bonaire: Mr. J. L. J. C. Cadières. Moreover the Rev. Termaat, Apostolic Vicar at Curaçao has been so kind to recommend me to the Rev. R. C. Clergy in the Colony of Curaçao.

I especially appreciate the very helpful assistance and information received before starting on my journey from Prof. J. Boeke, Dr. P. J. van Breemen at Curaçao, Mr. W. Versluys at Curaçao, Pastor P. A. Euwens at Bonaire and Mr. J. H. J. Hamelberg.

In the Colony Surinam, where I stayed a fortnight on my outward voyage I received the kindest help, for which I have to thank His Excellency the Governor of Surinam, D. Fock LL. D. and Dr. C. J. J. van Hall.

While the other officials of the Agricultural Department often assisted me, I wish specially to mention Mr. J. B. Wigmann, director of the Government Garden.

During my stay on land in British Guyana and Venezuela I also received highly valued help, in Br. Guyana from Dr. Stockdale.

I now want to mention the names of all those who made these short stays pleasant and comfortable for me. In the first place I am thinking of Mr. A. R. Nyboer, commander with the Dutch Royal West Indian Mail who had given me introductions to the Hon. Agents of this society in their various stations and who had also introduced me to Mr. A. Stadius Muller and Mr. H. J. Cohen Henriquez at Curaçao, who did so much afterwards to render my stay there pleasant. I further mention more particularly Messrs. de Brot, Perret and de Veer in the coast places of Venezuela.

Messrs. G. D. Nieman and N. H. C. van Baaren, commanders with the Dutch Royal W. Ind. Mail also made my voyage along Venezuela pleasant in various ways.

On Oct. 16 I arrived at Curaçao where I was at once hospitably received by Dr. P. J. van Breemen, whom I wish specially to thank here. The Government Agriculturist Mr. W. Versluys gave me immediately all the information I wanted.

I have great pleasure in mentioning the names of all those who assisted my either by offering hospitality or as guides and so

made my investigation easy. These are: Messrs. C. C. B. Gorsira of Malpais, Pastor Hendriks of Westpunt, H. van der Linde Schotborgh of Savonet, Joubert of Wacao and Barber, A. Stadius Muller of Siberie, I. van Lier of Hato, H. H. R. Chapman of Valentyn, A. Land of Klein-Davelaar, Ch. Debrot of Choloma, J. H. Penha of Koraal Tabak, Henriquez of van Engelen, de Wind of Waterloo, Ph. de Haseth of Patrick, G. Heldewier Vignon of Knip, M. van Uytrecht of St. Kruis, C. S. Gorsira of Klein St. Martha, G. H. van der Linde Schotborgh of St. Jan.

On Dec. 20 I went to Aruba. Here I particularly mention Messrs. Ecurie and W. F. Peiliker, Pastor Th. van Sadelhoff, R. J. Beaujon jun., Pastor A. Ellis at St. Cruz, Beaujon of Belaski, Pastor G. Potter of Savaneta, de Veer of Seroe Colorado, C. de Veer of St. Nicolaas.

On Jan. 18 I departed to Curaçao, from where I left for Bonaire on Jan. 28. There I was from Jan. 30 to Febr. 14 the guest of Pastor P. A. Euwens at Rincon. I further mention here Mr. P. van Teeckelenburg who put his house at my disposal for the remainder of the time I spent on Bonaire.

On Febr. 20 I went to Curaçao and returned to Holland on Febr. 27. On Bonaire I received valuable help from Mr. Abelgaardo Eleonora, fusilier of the Infantry Corps of Curaçao, whom Captain van Hombracht had given me as guide.

Data about the vernacular names and the medicinal use of plants were chiefly furnished by Messrs. G. R. van Dussel, Dr. P. de Haseth Möller, F. J. C. Beaujon, J. L. J. C. Cadières, de Wind, A. Hermus, H. J. Cohen Henriquez, Th. van Sadelhoff and P. A. Euwens. Mr. Duyfjes gave me much informations about the geology of the islands.

In the elaboration of the collected plants I was helped by Prof. I. Urban who gave a number of indications for forms not directly known to me, while Dr. F. Niedenzu, Dr. L. Radlkofer and Mr. O. E. Schulz named a number of the Malpighiaceae, Sapindaceae and Solanaceae. Dr. H. Hallier determined by far the greater part of the Convolvulaceae. Prof. W. Trelease determined the Agave species and Dr. A. S. Hitchcock some Gramineae.

To the Director of the State Herbarium at Leyden I am indebted for the loan of the plants of the Suringar collection.

I have particularly to thank Prof. N. L. Britton who sent me the plants collected by himself in Curaçao to work out and with whom I had

an extensive correspondence on forms that were difficult to determine. Thanks to his communications and assistance with the determinations a number of plants have now been named with greater certainty, than would have been possible without his valuable help which was especially necessary with the Cactaceae.

This Flora is divided in Three Parts; whereas the different Parts, Sections and Chapters need no further explanation, a short account of the methods I followed in nomenclature, synonymy and distribution of plants is given here.

The enumeration of Families and Genera is very nearly given after the order of De Dalle Torre et Harms: *Genera siphonogamarum ad systema Englerianum Conscripta* (1908).

In a few cases I thought it better to follow:

Urban: *Symbolae Antillanae* and Urban: *Additamenta ad Cognitionem Florae Indiae Occidentalis 1892—97*.

The names of the species used are mostly drawn from these two papers and Engler und Prantl.: *Die natürlichen Pflanzenfamilien* up to 1914, Engler: *Regnum Vegetabile* up to 1914, or from other monographs.

Whenever I could not find any name in the above mentioned publications I took the name I thought best after the International rules for Botanical Nomenclature chiefly of Vascular Plants. Wien 1905. (*Verh. Int. Bot. Congr. 1805 Wien*).

Besides the names thus given I also mention the synonyms that are used in: Grisebach: *Flora of the British West Indian Islands*, and in a very few cases still another one.

I tried to arrive at the greatest completeness possible in giving the data about the names thus used, and I also mentioned the pages where the plants occur in: Grisebach: *Flora of the British West Indian Islands*.

To every plant is added the name of the Dutch West Indian Windward Island where it is found in this order: Curaçao, Aruba, Bonaire.

I have mentioned as much as I could find about the distribution of the plants in all parts of the world, and these data are taken from the following publications in this order:

Urban: *Symbolae Antillanae*, and *Additamenta ad Cognitionem*

Florae Indiae Occidentalis (1892—97), Engler: *Regnum vegetabile* and Engler und Prantl: *Die Natürlichen Pflanzenfamilien*, newer Monographs and Jackson: *Index Kewensis*.

For the abbreviated names see under Literature.

Whenever I could not find that a plant was known in other parts of the world besides the Antilles, then the names of all the Islands where it is found are enumerated; I have added the name „Margarita” to the plants occurring in the flora of the Islands of Margarita and Coche by Johnston.

The Systematic Part consists of the plants belonging to all the collections mentioned in Chap. 11, p. 116.

The plants collected in the different islands are thus given: collection Boldingh in the order of the day of collecting, and the names of the other collectors are given in chronological order. Not all the vernacular names people told me are given here, but the names I have given in this Flora are used without any doubt. Whenever a plant struck my attention although I did not think it necessary to collect it, I made some notes about it; these notes are also to be found in this Flora, printed with small type.

As to the flowering and fruiting time of the plants I did not think it necessary to mention with every plant whether I collected flowers or fruits as the greater part of the plants have been collected with flowers.

I wish to draw attention to the fact that I have tried to render also this Flora of the Dutch West Indian Islands as complete as possible, both by what my own investigations have taught me and what I could find elsewhere.

Only the genus *Melocactus* has not been studied with the same care, as I was sure I could not add anything to the work done by Suringar on this head by the data I could bring together without giving too much time to it. So I refer to the studies of F. W. R. Suringar on *Melocactus* and those of J. Valckenier Suringar.

Botanical Laboratory of the University
in Utrecht.

1913.

Additions.

The plant mentioned on pg. 3 as *Andropogon brevifolius* Sw. has been studied by Mr. V. Nash, who gave it the name of *Schizachyrium curasavicum* sp. nov.

Annual. Stems 1—2 dm. tall, branched, glabrous; leaf-sheaths smooth and glabrous, keeled; blades up to 8 cm. long, 3—4 mm. wide, flat, linear, gradually narrowed above to an acute point, glabrous on the keeled lower surface, the upper surface sparingly tuberculate-hirsute with long hairs; spathes 2—3 cm. long; racemes about 2 cm. long, the internodes oblique at the deeply cup-shaped apex, these and the pedicels appressed-hirsute with long hairs below on the back, the internodes long barbate at the base; sessile spikelets 5—6 mm. long; first scale involute, appressed-hirsute with long hairs, long-acuminate, strongly 2-nerved at the apex, these nerves and the intermediate ones very faint below; flowering scale hyaline, delicate, cleft to below the middle, the awn 8—12 mm. long, the tightly spiral deep brown column about as long as the yellowish subula; pedicellate spikelet about 1.5 mm. long, with a scabrous awn about 3 mm. long.

Rocky hill, St. Joris Bay, Curaçao, Britton & Shafer, March 20—27, 1913, No. 3101.

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FIRST PART

SYSTEMATICAL

Pteridophyta.

Polypodiaceae.

68. **Doryopteris** J. Smith.

Doryopteris concolor Kuhn, v. Deck. Reis. 33. Bot. (1879) 19.
Bonaire: Brh (7319); Brh (7321).
In tropical countries of both hem. (C. Christensen).

72. **Cheilanthes** Swartz.

Cheilanthes microphylla Sw. Syn. Fil. (1806) 127; Gris. Fl. 667.
Curaçao: Heh (5647). — Britton & Shafer.
Bonaire: Rk (7049); Rk (7053); Zkr (7387).
Antill., Amer. cont. trop. (Symb.).

100. **Polypodium** Linn.

Polypodium aureum Linn. Spec. (1753) 1087; Gris. Fl. 698.
Curaçao: C (5012); C (5020). — Suringar.
Baham., Antill., Amer. cont. trop. (Symb.).

Monocotyledoneae.

9. Typhaceae.

49. **Typha** Linn.

Typha domingensis Pers. Synops. II (1807) 532.
Typha angustifolia β *domingensis* Griseb. Fl. Br. W. I. Isl.
(1864) 512.
Curaçao: Kr (5586).
Antill., Americ. cont. (Graebner 1900).

II. Potamogetonaceae.

59. *Ruppia* Linn.

Ruppia maritima Linn. Spec. I (1753) 127; Gris. Fl. 506.

Curaçao: Hawt (5348a). — Britton & Shafer 2952.

Aruba: Font (6440).

Bonaire: Plh (7288); Plh (7290).

Trop. and temp. zones. (Symb.).

60. *Cymodocea* Ch. Koenig.

Cymodocea manatorum Aschers. in Sitsber. Ges. naturf. Fr. Berlin (1868) 19.

Curaçao: Britton & Shafer 3128.

Bermud., Key West, Antill. (Symb.).

12. Najadaceae.

64. *Najas* L.

Najas guadalupensis Morong. in Mem. Torr. bot. Club III. 2 (1893) p. 60. t. 67;

Najas microdon A. Br. var. *curassavica* A. Br. in Sitzungsber. ges. naturforsch. Freunde Berlin (1868) 17.

Curaçao: Britton & Shafer 3083.

Cuba, Florida, Mexico, Venezuela. (Symb.).

15. Alismaceae.

75. *Echinodorus* Engelm.

Echinodorus cordifolius Gris. Kar. (1857) 109; Gris. Fl. 505;

Echinodorus rostratus Engelm. in Gray Man. of Bot. II. ed. (1856) 438; Buch. in Eng. Pflanzenr. Heft 17 (Alismataceae) 31.

Curaçao: Md (4893); Malpais. — Britton & Shafer 3115.

Baham., Antill., Amer. sept. (Symb.).

17. Hydrocharitaceae.

85. *Halophila* Thou.

Halophila Baillonis Aschers. Journ. Linn. Soc. XIV (1874) 317.

Curaçao: v. Breemen: Spaansche water near Brakkeput.

St. Thomas, Guadeloupe, Martinique. (Symb.).

92. **Thalassia** Banks.

Thalassia testudinum Sol. in König. Ann. of Bot. 11 (1805) 96;
Gris Fl. 507. Jeerba die kaania.

Curaçao: v. Breemen. — Britton & Shafer 3094.
Key West, Baham., Antill., Venezuela. (Symb.).

19. **Gramineae.**102. **Zea** Linn.

Zea Mays Linn. Spec. (1753) 971. Maisji grandi.
Cultivated. [Amer. austr. Peru?] (Symb.).

111. **Saccharum** Linn.

Saccharum officinarum Linn. Spec. (1753) 54. Kanja.
Cultivated. [Asia austro-orient.?] (Symb.).

134. **Andropogon** Linn.

Andropogon brevifolius Sw. Prodr. (1788) 26; Gris. Fl. 558.

Curaçao: Britton & Shafer 3101.
Trop. countries of both hemisph. (Symb.).

Andropogon contortus Linn. Sp. (1753) 1045.

Andropogon secundus Willd. ex Nees Agrost. Bras. (1829) 346.
Gris. Fl. 558.

Curaçao: Caz (4784); Zt (5382).

St. Eustatius. (Bold. I); Domingo, Haiti, Antigua, Guadeloupe.
(Herb. Krug et Urban).

Andropogon Ischaemum Linn. Spec. I. p. 1047. var. **americanus**
in Hack. D C. Mon. Ph. VI. 476.

Curaçao: Vd (4742); Bh (4762).
Venezuela, Antigua. (Hack. D C. Mon. Ph. VI).

Andropogon Schoenanthus Linn. Spec. (1753) 1046. Jeerba
die lamoen, Lemoengras, Malohie.

Cultivated. [Ind. Orient. Afr. trop. Asia.] (Hack. D C. Mon.
Ph. VI).

Andropogon sorghum Brot. Flor. Lusit. I (1804) 88. Maisji
raboe, Maisji sjeete simàn, Maisji sjikietoe.

Cultivated.

var. α **halepensis** Hack. D C. Mon. Ph. VI (1889) 502.
Johnsongras.

Cultivated. [Trop. et temper. zones.] (Hack. D C. Mon. Ph. VI).

140. **Anthephora** Schreb.

Anthephora hermaphoditica O. Ktze. Rev. II (1891) 759;

Anthephora elegans Schreb. Besch. Gräs. III (1810) 105 t. 44; Gris. Fl. 556.

Curaçao: Vw (4713); W (4926b); Hk (5320); Kit (5500); Huk (5569). — Suringar, — Lens 828, — Versluys 1412, — Britton & Shafer 2918.

Aruba: Mankz (6278); Siw (6329). — Suringar.

Bonaire: R (7025e); Rk (7095a); Rt (7154); Rt (7159); Krak (7445).

Of general occurrence; 30 finding places noted.

Margarita. (Johnston).

Antill., Amer. cont. trop. (Symb.).

143. **Tragus** Hall.

Tragus racemosus Haller Hist. Stirp. Helv. II (1768) 203;

Lappago aliena Spreng. Neue Entd. III (1822) 15; Gris Fl. 557.

Curaçao: Cas (4790); W₂ (5065); Vat (5372). — Suringar, — Britton & Shafer 2960.

Aruba: Ok₂ (6236); Siv (6313a). — Suringar.

Bonaire: R (7025b); R (7380).

Pretty scarce; of the 18 finding places only 5 were noted on lime.

Margarita. (Johnston).

Antill., trop. and subtrop. countries of both hemisph. (Symb.).

161. **Paspalum** Linn.

Paspalum glabrum Poir. in Lam. Encycl. V (1804) 30.

Curaçao: Bh (4765); Cas (4785); Mok (4821); Mk (4889); Ms (4896); H₂ (5110b); Hz (5134); Pek (5282); Pez (5292); Pih (5326); Vat (5367); Kk (5404); Be (5555). — Britton & Shafer 3027.

Aruba: Mand (6292); Camk (6372); Nick (6495a).

Bonaire: Rk (7046); Tolcz (7279); Bolko (7370).

Occurring scattered on Curaçao, not on lime soil, especially in courts; 23 finding places noted; rarely seen on Aruba and Bonaire.

Baham., Antill., Guiana. (Symb.).

166. **Panicum** Linn.

Panicum colonum Linn. Syst. X. ed. II (1759) 870; Gris. Fl. 545.

Curaçao: St (5054g); Vat (5349); Zt (5380); Ent (5433); Ent (5434); Jt (5423a). — Suringar, — Versluys 1407.

Antill., trop. and warmer countries of both hemisph. (Symb.).

Panicum distantiflorum A. Rich. Fl. Cub. Fanerog. II 304.

Curaçao: Britton & Shafer 3088.

Cuba. (Hitchcock 1909).

Panicum geminatum Forsk. Flor. Aeg. Arab. (1775) 18;

Panicum paspaloides Pers. Syn. I (1805) 81; Gris. Fl. 545.

Curaçao: Mt (4868); St (4963); St (5054*m*); Mrt.

Aruba: Bakk (6342*a*). — Suringar.

Florida, Bermud., Baham., Antill., trop. countries of both hemisph. (excl. Australia). (Symb.).

Panicum hirticaule Presl. in Rel. Haenk. I. 308.

Curaçao: Vat (5094); Hk (5322); Zt (5379); Jt (5423).

Mexico. (Hitchc.).

Panicum insulare G. F. W. Mey. Prim. Esseq. (1818) 60.

Tricholaena insularis Gris. Fl. W. I. (1864) 557.

Curaçao: W (4927*g*); Hh (5131*h*); Hh (5131*g*); Krh (5600); W (4929); Huk (5569).

Aruba: Beaujon.

Bonaire: Bolko (7362).

Margarita. (Johnston).

Florida austr., Baham., Amer. cont. from Texas to Patagonia. (Symb.).

Panicum lachnanthum Torr. Pac. Rail. Rep. VII. 3. 21.

Valota saccharata A. Chase in Proc. Biol. Soc. Washington XIX (1906) 188.

Aruba: Serk (6483). — Suringar.

Bonaire: Joh (7209).

Western parts of North. America. (Ind. Kew.).

Panicum maximum Jacq. Ic. pl. rar. I (1781) z. t. 13; cult. Gris. Fl. 549. Guini gras.

Cultivated. [Baham., Antill., Amer. cont. trop., Afr. trop. and subtrop.] (Symb.).

Panicum molle Sw. Prodr. (1788) 2; Gris. Fl. 547. Paragras.

Cultivated. [Baham., Antill., Amer. cont. trop.] (Symb.).

Panicum reptans L. Syst. X. ed. II (1759) 870;

Panicum prostratum Lam. Ill. III. 1 (1791) 171; Gris. Fl. 546.

Curaçao: St (5054*s*); Jt (5423*b*). — Aschenberg, — Suringar, — Versluys 1414, — Britton & Shafer 2987, 3002, 3145.

Margarita. (Johnston).

Antill., trop. countries of both hemisph. (Symb.).

Panicum sanguinale Linn. Spec. (1753) 57;

Digitaria marginata Lk. Enum. I (1821) 102 et *Digitaria setigera* Roth. ap. R. et Sch. Syst. II (1817) 474?; Gris. Fl. 544. Piea die galiinja sjimarón.

Curaçao: St (5054*k*); Zt (5383*a*); Ent (5433*b*). — Versluys 1413.

Aruba: Font t (6475*a*). — Suringar.

Margarita. (Johnston).

Antill., trop. countries of both hemisph. (Symb.).

Panicum stenodes Gris. Fl. W. I. (1864) 547.

Curaçao: Rih (4654); Vd (4737); Ms (4897); H₂ (5110).

Bonaire: Rk (7070); Soebh (7261*a*); Soebh (7272); Bonk (7485). — Suringar.

Jamaica, Cuba, Brasil. (Gris. Fl. W. I.).

Panicum velutinosum Nees. Agrost. bras. 121.

Maisji totalieka.

Curaçao: Mok (4819); W (4927*f*); St (5054*e*); Aw (5163); Bah (5169); Bat (5232*b*); Be (5398); Jh (5428); Jh (5428*b*); Krh (5597). — Aschenberg, — Suringar, — Versluys 1401, 1404, 1405, — Britton & Shafer 2986, 3004.

Aruba: How (6362).

Bonaire: R (7095*b*); R (7384). — Suringar.

Brasil., Mexico. (Steud. Plant. Glum.).

171. **Setaria** Beauv.

Setaria setosa Beauv. Agrost. (1812) 51; Gris. Fl. 555.

Curaçao: C (4995).

Antill., Amer. cont. trop. (Symb.).

174. **Cenchrus** Linn.

Cenchrus echinatus Linn. Spec. I. ed. II (1753) 1050; Gris. Fl. 556. Peega saaja mohee.

Curaçao: Vat (5091); Vat (5374). — Suringar, — Lens 834, — Versluys 1408, — Britton & Shafer 3156.

Aruba: Mankz (6278*a*); Siw (6324). — Koolwijk.

Bonaire: Bolko (7374).

Margarita. (Johnston).

Antill., all tropical countries. (Symb.).

Cenchrus carolinianus Walt. in Flora Caroliniana (1788). Peega saaja boobo.

Curaçao: W (4927*c*); St (5054*f*); Vat (5375); Zt (5380); Zt (5382*b*); Jh (5428*a*); Ent (5433*a*). — Aschenberg, — Versluys 1409, — Britton & Shafer 2916.

Aruba: Siw (6325); Savk (6523). — Koolwijk.

Bonaire: Rt (7155). — Suringar.

Bermud., Baham., Antill., Amer. cont. trop. (Symb.).

195. **Bouteloua** Lag.

Bouteloua aristidoides Gris. Fl. Br. W. I. 537.

Aruba: Ajw (6344); Andh (6395); Mirh (6455). — Suringar.

Arizona. (Herb. Utrecht); Mexico. (Hitche.).

Bouteloua Humboldtiana Gris. Pl. Wright II (1862) 532;

Heterostega juncifolia H. B. K. Nov. Gen. I (1815) p. 175 t. 54.

Curaçao: Bh (4769); W₂ (5067); Sik₃ (5262c); Pih (5327).

Aruba: Mankz (6297); Altavista (6340). — Suringar.

On Curaçao 6 finding places of which one on lime soil; on Aruba scattered, 7 finding places; on Bonaire not found at all.

Portorico, Cuba, Hispaniola. (Symb.).

208. **Aristida** Linn.

Aristida Swartziana Steud. Syn. Pl. Gram. (1855) 137;

Aristida purpurascens Poir. Encycl. Supp. 1.452; Gris. Fl. 534.

Curaçao: Bh (4763); Bh (4772); Cas (4782); Cas (4783); Mah (4852a); W (4927a); H (5069); Wa₃ (5103a); Hk (5131m); Si k₂ (5264); Hk (5319); Pi k (5327a); Zt (5381); Zt (5383b); Huk (5569a). — Suringar, — Britton & Shafer 2958.

Aruba: Ok₂ (6235); Bakh (6333).

Bonaire: R (7009); Macb (7120); Lash (7227); PRw (7355); Bolko (7366); Krak (7443a); Bact (7473c). — Suringar.

Over a hundred finding places noted.

Jamaica. (Steud. Pl. Gram.); St. Eustatius, Saba, St. Martin. (Bold. I).

230. **Sporobolus** R. Br.

Sporobolus argutus, Kth. Enum. I (1833). 215. Brakgras; Jeerba fieni.

Curaçao: Rud (4608); Vw (4717); Blw (4754); B (4779); Mok (4825); Pit (4835); Mt (4862); W (4927); Sk (5044); Hk (5131b); Bat (5210); Bat (5230); Vat (5365a); Ent (5433d). — Aschenberg, — Suringar, — Versluys 1415, — Britton & Shafer 3051.

Aruba: Mankz (6280); Bushir (6342); Bek (6424). — Suringar, — Koolwijk.

Bonaire: R (7025a); R (7025c); R (7091); R (7183a); Kra k (7443c); Lac k (7477). — Suringar.

Noted in 82 finding places.

Brasilia. (Kunth. Enum.) (Symb.).

282. **Cynodon** Pers.

Cynodon dactylon Pers. Syn. I (1805) 85; Gris. Fl. 540. Brak-gras saaloe.

Curaçao: Suringar, — Versluys 1417.

Bermud.; Baham., Antill., trop. and warmer countries of both hemisph. (Symb.).

288. **Chloris** Sw.

Chloris leptantha Hitchc. in Symb. Antill. VII (1912) 166.

Curaçao: H₂ (5115); Beh (5531); Dh (5636); Be (5556); Huk (5569); Krk (5591*b*). — Britton & Shafer 2906.

Aruba: Siw (6322); Ok₂ (6233); How (6360); Bek (6421*a*); Beh (6428 *h*); Mirh (6445*a*); Savw (6520); Savh (6535*a*).

Bonaire: R (7031); Joh (7208); Krak (7444).

Chloris paraguayensis Steud. Gram. (1855) 204;

Chloris barbata Sw. Flor. I (1797) 200; Gris. Fl. 549.

Curaçao: Sik (5188); Bat (5232*c*); Zt (5383). — Suringar, — Lens 829, — Versluys 1410, — Britton & Shafer 2989.

Aruba: Siw (6305).

Bonaire: Rt (7152); Bact (7473).

Noted in 17 finding places; Scarce.

Baham., Antill., trop. countries of both hemisph. (Symb.).

Chloris Suringari Hitchc. in Symb. Antill. VII (1912) 167.

Curaçao: Mk (4888); Mk (4895); Sik (5187); Pek (5281).

304. **Eleusine** Gärtn.

Eleusine indica Gärtn. Fruct. I (1788) 8; Gris. Fl. 540. Kamoesti, Piea die galiinja.

Curaçao: Cas (4807); St (5041*i*). — Aschenberg, — Suringar, — Went 1099, — Versluys 1406.

Bonaire: Suringar.

Baham., Antill., trop. and warmer countries of both hemisph. (Symb.).

305. **Dactyloctenium** Willd.

Dactyloctenium aegyptium Willd. Enum. Hort. Berol. (1809) 1029; Gris. Fl. 540;

Eleusine aegyptiaca Desf. Flor. atl. I (1798) 85.

Bosopaata, Haabriman, Maria bokee beendeemi, Piea waarawaara.

Curaçao: W (4926*c*); St (5054*a*); Bat (5232*d*); Huk (5569*d*);

Krk (5591). — Aschenberg, — Suringar, — Went 1102, — Lens 811, — Versluys 1403.

Aruba: Ok₂ (6231); Siw (6331); Siw (7342*d*). — Suringar.

Bonaire: R (7025*d*); R (7059); Rt (7151); Krak (7443); Krak (7444*a*). — Suringar.

Of general occurrence in the three islands.

Margarita. (Johnston).

Baham., Antill., trop. and warmer countries of both hemisph. (Symb.).

307. **Leptochloa** Beauv.

Leptochloa filiformis Beauv. Agrost. (1812) 71;

Leplochloa mucronata Kth. Rév. Gram. I (1829) 91; Gris. Fl. 537.

Curaçao: St (5054*v*); St (5054*h*); Wa₃ (5101*a*); A (5145); Bat (5232*a*); Ent (5433*c*). — Aschenberg, — Suringar, — Lens 830, — Versluys 1411, 1421.

Bonaire: Rh (7035).

Occurring scattered outside the lime on Curaçao and Bonaire.

Margarita. (Johnston).

Bermud., Antill., Amer. sept., Nova Granata, Asia and Afr. trop. (Symb.).

310. **Pappophorum** Schreb.

Pappophorum alopecuroideum Vahl. Symb. bot. III (1794) 10. t. 51; Gris Fl. 537.

Bonaire: Fh (7253); (7424); Skr (7438).

Trinidad, La Tinta, Bras. to Uruguay. (Gris. Fl.).

341. **Eragrostis** Host.

Eragrostis ciliaris Lk. Hort. Berol. I (1827) 192; Gris. Fl. 532.

Curaçao: Rif (4024*a*); Mt (4864); W (4927*e*); Wa₃ (5103*b*); Pe (5305); Beh (5529); Huk (5569*e*); Dh (5637). — Suringar, — Went 1097, — Britton & Shafer 2908, 3139.

Aruba: (6205); Siv (6334); Bakh (6336); Ajw (6343); Bek (6433*a*); Nick (6495*c*); Savw (6519*d*); Mansz (6555). — Suringar.

Bonaire: Rh (7036); R (7115*a*); R (7147); Soebh (7260); Soebh (7261); Brw (7314*a*); Krak (7443*b*); Zoutkg (7501*a*). — Suringar.

Generally spread; 40 finding places noted.

Margarita. (Johnston).

Baham., Antill., Amer. trop., Afr. trop., Ind. orient. (Symb.).

Eragrostis diversiflora Vasey in Contrib. U. S. Nat. Herb. I (1893) 285.

Aruba: Crr; Jabh (6275); Bakk (6342).

Bonaire: Zout kg (7501).

Mexico. (Ind. Kew.).

Eragrostis pilosa Beauv. Agrost. (1812) 71; Gris. Fl. 532.

Curaçao: Krk (5590). — Suringar.

Aruba: Suringar.

Bonaire: Bolko (7375); Bact (7473a).

Antill., warmer countries of both hemisph. (Symb.).

Eragrostis Urbaniana Hitchc. in Symb. Antill. VII (1912) 167.

Curaçao: Nask (4692); Pek (5285). — Suringar, — Britton & Shafer 2939, 3058.

Aruba: Mankz (6277); Nick (6495); Font k (6565).

Bonaire: Rk (7064); Grk (7170); Soebkr (7258); Tolksz (7277); Krak (7446). — Suringar.

Baham.: (South Caicos). (Symb.).

20. Cyperaceae.

Cyperus elegans Linn. Spec. (1762) 68;

Cyperus viscosus Swartz. Prod. (1788) 20; Gris. Fl. 563.

Curaçao: Suringar.

Bonaire: Suringar.

Florida, Antill., Amer. centr., Argentina. (Symb.).

Cyperus esculentus Linn. Spec. ed. II. 67; Gris. Fl. 565.

Jeerba die kooko, Kooko die amiena.

Curaçao: Blw (4747); St (5054w).

Aruba: Bakk (6342); Ajw (6343a).

Bonaire: R (7131); R (7140); Rt (7148); Brw (7314); Tk (7333). — Suringar.

Southern parts of Europa, in Africa, Asia, Oceania and America in the warmer parts. (Symb.).

Cyperus articulatus Linn. Spec. ed. I (1753) 44; Gris. Fl. 564.

Oenkoe.

Curaçao: Mh (4869). — Aschenberg.

In warmer and tropical countries of both hemisph. (Symb.).

Cyperus compressus Linn. Spec. Pl. ed. II 68; Gris. Fl. 562.

Curaçao: Kit (5487).

In all warmer countries of both hemisph. (Symb.)

Cyperus oligostachys H. B. K. Nov. Gen. et Sp. I. 164.

Curaçao: Kit (5540); Kr k (5592). — Britton & Shafer 3095.

Aruba: Sav k (6523).

Bonaire: R (7115); Mont kr (7413); Bact (7473f).

N. Andalusia. (H. B. K. Nov. Gen. et Sp.).

Cyperus oxylepis Nees in Linnaea IX (1834) 285.

Curaçao: M₂. — Britton & Shafer 2924.

Bonaire: Karkz (7440).

Jamaica, Equador, Guiana. (Symb.).

Cyperus rotundus Linn. Spec (1762) 67; Gris Fl. 564.

Curaçao: Aschenberg, — Lens 822, — Versluys 1402, — Britton & Shafer 3097.

Aruba: Fontt (6475); Fontt (6475b).

Baham., Antill., warmer countries of both hemisph. (Symb.).

Cyperus uncinatus Poir. in Lam. Encycl. VII (1806) 247;

Cyperus cuspidatus H. B. K. Nov. Gen. et Sp. I (1815) 204.

Curaçao: Krk (5590a).

Aruba: Bek (6424c).

Bonaire: Tolcz (7277c).

In all tropical and warmer countries. (Symb.).

459*. **Mariscus** Gärtn.

cf. 459. **Cyperus** Linn. sect. 6.

Mariscus brizaeus C. B. Clarke in Symbolae Antillanae II (1900) 52.

Kamoe, Korta mán, Jeerba die koetsjôe.

Curaçao: C (5004); Pez (5289); Be (5558). — Suringar.

Aruba: Bakk (6342c). — Suringar.

Bonaire: Grkz (7176); Skz (7435).

Baham., Antill., Florida. (Symb.).

Mariscus bruneus C. B. Clarke in Symb. Antill. II (1900) 51;

Cyperus brunneus Sw. Fl. Ind. Occid. I (1797) 116 partim;
Gris. Fl. 565.

Curaçao: Britton & Shafer 2938.

Trop. America. (Symb.).

Mariscus confertus Clarke in Symb. Antill. II (1900) 50;

Cyperus confertus Sw. Prodr. (1788) 20; Gris. Fl. 563.

Curaçao: Hk (5320); Kit (5505); W (4926). — Aschenberg, — Went 1091, — Lens 812, — Versluys 1416, — Britton & Shafer 2907, 3028.

Aruba: Jabh (6272); Siv (6304); Suph (6392); Bek (6424); Serk (6483); Mansz (6557).

Antill., Columbia, Venezuela, Ins. Galapagos. (Symb.).

Mariscus fuliginus (Chapm.) C. B. Clarke in Symb. Antill. V (1907) 290;

Cyperus fuliginus Chapm. in Fl. S. U. St. 551. Jeerba maisji sjikietoe.

Curaçao: Rih (4656); Kk (5402); Jak (5640). — Suringar, — Britton & Shafer 2947.

Bonaire: Soebh (7259); Soebh (7261*b*); Skz (7439); Lack (7477*a*). — Suringar.

22 finding places in all; noted as spread, not on Aruba.

Amer. boreal. (Ind. Kew.).

Mariscus gracilis Vahl. Enum. II (1806) 372.

Curaçao: C (4996); H₂ (5109); Sih (5191); Kit (5504). — Suringar, — Britton & Shafer 2971.

Bonaire: Macb (7119); Tolgz (7277*b*); Fh (7255); Brh (7322); Bonk (7490). — Suringar.

Cuba, Jamaica, Hispaniola. (Symb.).

Mariscus ligularis Urb. Symb. Antill. II (1900) 165;

Mariscus rufus H. B. K. Nov. Gen. et Spec. I (1815) p. 216. t. 67; *Cyperus ligularis* Linn. Amoen. Acad. V (1759) 391; Gris. Fl. 566.

Curaçao: Britton & Shafer 3017.

Margarita. (Johnston).

In trop. countries of Africa and America. (Symb.).

Mariscus planifolius Urb. in Symb. Antill. II (1900) 165;

Mariscus purpurascens C. B. Clarke in Symb. Ant. II (1900) 51; *Cyperus bruneus* Gris. Flor. (1864) 565 p.p.

Curaçao: Suringar.

Aruba: Suringar.

Bonaire: Zoutz (7498). — Suringar.

Portorico, Antigua, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Trinidad. (Symb.).

459**. **Torulinium** Desv.

cf. 459. **Cyperus** sect. 5.

Torulinium ferax Urb. in Symb. Antill. II (1900) 165;

Cyperus odoratus Linn. Spec. I (1753) 46; Gris. Fl. 565.

Curaçao: Britton & Shafer 3114.

Aruba: (Symb.).

In all warmer countries of both hemisph. (Symb.).

Torulium filiforme C. B. Clarke in Symbolae Antillanae II (1900) 57;

Cyperus filiformis Swartz Prodr. (1788) 20; Gris. Fl. 565.

Curaçao: Wh (5573).

Aruba: Bek (6423).

Baham., Antill. (Symb.).

468. **Scirpus** Linn.

Scirpus micranthus Vahl. Enum. II (1806) 254;

Hemicarpha subsquarrosa Nees in Mart. Fl. Bras. II pars I (1843) p. 61. t. 4 fig. 1; Gris. Fl. 372.

Aruba: Mankz (6279a); Ajw (6341); Ajw (6343); Savw (6519).

Bonaire: R (7139); Grkz (7174a); Tolgz (7277a); Brw (7314b).

Not seen on Curaçao; on Aruba and Bonaire together 16 finding places noted.

In all parts of America, Angola. (Symb.).

469. **Heleocharis** R. Br.

Heleocharis capitata R.Br. Prod. (1810) 225;

Scirpus capitatus Linn. Spec. (1762) 70; Gris. Fl. 570 partim.

Curaçao: Mt (4867); Asc (5296); Krt (5584). — Aschenberg, — Britton & Shafer 3014, 3078.

Margarita. (Johnston).

Tropical and subtropical countries. (Symb.).

469*. **Bulbostylis** Kunth.

cf. 469. **Heleocharis** R. Br.

Bulbostylis floccosa var. β **pumillio** C. B. Clarke in Symbolae Antillanae V (1907) 290.

Curaçao: Sik₃ (5242); Hk (5315). — Suringar, — Britton & Shafer (2946).

Bonaire: Grk (7171); Plak (7260); Bon k (7488).

471. **Fimbristylis** Vahl.

Fimbristylis annua R. et Sch. Syst. II (1817) 95;

Fimbristylis diphylla Vahl Enum. II (1806) 289;

Fimbristylis brizoides Nees in Linnaea IX (1834) 290; Gris. Fl. 572.

Bonaire: Zoutkg (7503).

In all warmer and tropical countries. (Symb.).

Fimbristylis monostachya Hassk. Pl. Jav. Rar. (1848) 61;

Cyperus monostachyus Linn. Mant. (1771) 180; H. B. et K. Nov. Gen. et Spec. I. 203;

Abildgaardia monostachya Vahl Enum. II (1806) 296; Gris. Fl. 569.

Curaçao: Mah (4852); Mh (4883); Krh (5596).

Bonaire: Soebh (7280); Bolko (7367).

In all warmer and tropical countries. (Symb.).

Fimbristylis ferruginea Vahl Enum. II (1806) 291; *Scirpus ferrugineus* Linn. Spec. Ed. II 74; Gris. Fl. 572.

Curaçao: Asc (5293); Krt (5585). — Aschenberg, — Britton & Shafer 3018.

In warmer and tropical countries of America. (Symb.).

21. Palmae.

528. **Phoenix** Linn.

Phoenix dactylifera Linn. Spec. (1753) 1188. Daader.

Cultivated. [Afr. sept.] (Symb.).

549. **Copernicia** Mart.

Copernicia tectorum Mart. Hist. Nat. Palm. III. 243. Palmiet.

Cultivated. [N. Granata.] (Kunth).

613. **Oreodoxa** Wild.

Oreodoxa regia H. B. K. Nov. Gen. et Spec. I. 305.

Cultivated. [Antill.] (Ind. Kew.).

663. **Cocos** Linn.

Cocos nucifera Linn. Spec. (1753) 1188. Kokos.

Cultivated. [Amer. austr. sept. occid.?] (Symb.).

22. Cycianthaceae.

678. **Carludovica** Ruiz. et Pav.

Carludovica palmata Ruiz. et Pav. Syst. 291.

Cultivated. [Amer. austr.] (Ind. Kew.).

24. Lemnaceae.795. **Lemna** Linn.

Lemna paucicostata Hegelm. ex Engelm. in A. Gray Man. Bot. V. ed. (Jan. 1868) 681;

Lemna minor Gris. Fl. W. I. (1864) 512. (p.p.) (Symb.).

Curaçao: Noord. — Britton & Shafer 2993.

Antill., Amer. cont., Afr., Asia austro-orient., Japon., Australia. (Symb.).

796. **Wolffia** Hork. et Schleid.

Wolffia punctata Gris. Fl. Br. W. I. (1864) 512.

Curaçao: Britton & Shafer 2994.

Jamaica. (Gris. Fl.); Americ. sept. (Thompson. Amer. Lemn.).

32. Bromeliaceae.840. **Bromelia** Linn.

Bromelia lasiantha Willd. ap. R. et Sch. Syst. VII (1830) 1233.

Curaçao: C (4991); Sik₃ (5249); Sik₃ (5250); Wah (5256); Sik₃ (5257); Sik₃ (5258). — Britton & Shafer 3093.

Aruba: Cam.

On Curaçao especially occurring in the Western part with 11 finding places; in the remaining part 2. Not observed on Bonaire.

Venezuela. (Mez. Bromeliac.).

851. **Ananas** Adans.

Ananas sativus Schult. f. in R. et Sch. Syst. VII (1830) 1283. Cultivated. [Brasilia]. (Symb.).

890. **Tillandsia** Linn.

Tillandsia fasciculata Sw. Prodr. (1788) 56; Gris. Fl. 595.

Curaçao: locality unknown.

Florida austral., Baham., Antill., Mexico, Amer. centr. and austro-sept. (Symb.).

Tillandsia recurvata Linn. Spec. (1762) 410; Gris. Fl. 598. Barba die Kadoesji, Marie die paaloe.

Curaçao: Blw (4750); Mir (6450). — Went 1319, — Britton & Shafer 3024.

Bonaire: Rk (7060); Macb (7125).

On Aruba also 4 finding places noted; on Curaçao and Bonaire especially in the Western parts.

Margarita. (Johnston).

Baham., Antill., warmer countries of America. (Symb.).

Tillandsia usneoides Linn. Spec. (1762) 411; Gris Fl. 598.

Curaçao: seen on the Christoffel Mountain.

Antill., warmer countries of Amer. (Symb.).

Tillandsia utriculata Linn. Spec. (1753) 286; Gris. Fl. 596.
Teekoe die paaloe.

Curaçao: Wo (4939); C (5010); C (5053); Beh (5525); Mirh (6448).

Bonaire: Lash (7223).

On Aruba also 2 finding places noted, occurring especially in the wooded parts, 11 finding places in all.

Margarita. (Johnston).

Florida austral., Baham., Antill., Mexico, Venezuela, Guiana. (Symb.).

33. Commelinaceae.

896. **Commelina** Linn.

Commelina virginica Linn. Spec. (1762) 62;

Commelina elegans H. B. K. Nov. Gen. I (1815) 259; Gris. Fl. 525. Maisji grandi sjimarón.

Curaçao: Blt (4903); Wk (4958); Kit (5499); Be (5551). — Suringar, — Lens 813, — Versluys 1420.

Aruba: Ok₂ (6241); Beh (6428). — Suringar.

Bonaire: R (7093); R (7385).

Occurring on Curaçao especially in the Western part: 13 finding places, hardly ever on lime; on Aruba 5 finding places, on Bonaire 2.

Antill., warmer countries of Amer. cont. (Symb.).

912. **Callisia** Linn.

Callisia repens Linn. Spec. (1752) 62; Gris. Fl. 524.

Curaçao; Suringar.

Aruba: Beh (6428); Savk (6552).

Antill., Mexico, Amer. centr., Venezuela, Peru, Bras. (Symb.).

38. Liliaceae.1026. **Aloe** Linn.**Aloe vera** Linn. Spec. (1753) 320;*Aloe vulgaris* Lam. Encycl. I (1784) 86; Gris. Fl. 582. Sinte biebo.**Curaçao**: Went 1318.**Aruba**: Suringar.**Bonaire**: Bact (7474).

On Curaçao especially in the middle part, 14 finding places; on Aruba 4 finding places noted, on Bonaire 2.

Cultivated and escaped. [Indig. in mediterr. countries and Canar. Isl.] (Symb.).

1110. **Sansevieria** Thunb.**Sansevieria guineensis** Willd. Spec. Plant. II (1799) 159. Jeerba koeleebra.

Cultivated. [Afr. trop.] (Symb.).

40. Amaryllidaceae.1194. **Hymenocallis** Salisb.**Hymenocallis caribaea** Herb. App. Bot. Reg. (1821) 14;*Pancratium caribaeum* Linn. Spec. (1753) 291; Gris. Fl. 583.

Cultivated. [Florida, Baham., Antill.] (Symb.).

1196. **Eucharis** Planch.**Eucharis grandiflora** Planch. et Linden in Fl. des Serres. Sér. I. (IX) (1853—1854) 255.

Cultivated. [New Granada.] (Ind. Kew.).

1208. **Hippeastrum** Herb.**Hippeastrum puniceum** Urb. in Symb. Antill. IV (1903) 151.

Cultivated. [Antill., Amer. trop.] (Symb.).

1219. **Agave** Linn.**Agave Boldinghiana** Trelease, Agave in the West Indies in: Mem. Nat. Acad. Sc. XI (1913) p. 21. t. 11, 12, 13. Koeki spanjool, Koeki indian.

Cultivated.

Agave Cantula Roxb. Fl. Ind. II 167.

Cultivated.

Agave fourcroydes Lemaire Ill. Hort. vol. 11, miscell. (1864) 65.

Cultivated.

Agave petiolata Trelease, Agave in the West Indies in: Mem. Nat. Acad. Sc. XI (1913) p. 20, t. 8.

Cultivated.

Agave sisalana Perrine, House Doc. No. 564, pp. 8, 9 e.a. (1838). Pieta.

Cultivated.

Agave Trankeera Trelease, Agave in the West Indies in: Mem. Nat. Acad. Sc. XI (1913) p. 26, t. 25, 26, 27, 28. Pieta die trankeer.

Curaçao: Boldingh. — Ecker, — Britton & Shafer 2924.

Aruba: Boldingh.

Bonaire: Boldingh.

Agave vicina Trelease, Agave in the West Indies in: Mem. Nat. Acad. Sc. XI (1913) p. 19, t. 4, 10. Koeki spanjool, Koekoe indian.

Aruba: Boldingh.

Agave vivipara Linn. Spec. (1753) 323. Koeki indian.

Curaçao: Boldingh. — Ecker, — Britton & Shafer 3060.

1222. **Furcraea** Vent.

Furcraea gigantea Vent. in Bull. Soc. Philom. (1793). Pieta vlas. Cultivated.

45. Musaceae.

1318. **Musa** Linn.

Musa paradisiaca Linn. Spec. (1753) 1043. Banana, Bakooba. Cultivated. [India orient.] (Symb.).

47. Cannaceae.

1363. **Canna** Linn.

Canna indica Linn. Spec. (1753) 1. Canna. Cultivated. [Cosmop. trop.] (Ind. Kew.).

48. Marantaceae.1370. **Maranta** Linn.

Maranta arundinacea Linn. Spec. (1753) 2. Arraroot.
Cultivated. [Baham., Antill., Amer. cont. trop.] (Symb.).

50. Orchidaceae.1618. **Schomburgkia** Lindl.

Schomburgkia tibicinis Batem. Orchid. Mex. et Guat. t. 30.
Banana sjimaròn.

Curaçao: C (5005). — Aschenberg.

Bonaire: Lash (7225).

Honduras. (Walp. Ann. Bot. VI).

1619. **Brassavola** R. Br.

Brassavola nodosa Lindl. Gen. and Sp. Orch. (1831) 114, in Bot.
Reg. XVIII t. 1465; Gris. Fl. 621:

Curaçao: locality unknown. — Aschenberg.

Antill., Mexic. austr., Amer. centr., Columbia, Venez., Peru.
(Symb.).

Dicotyledoneae.**53. Piperaceae.**1866. **Peperomia** Ruiz. et Pav.

Peperomia petiolaris C. DC. in Seem. Journ. of Bot. IV (1866) 138.
Cultivated. [Cuba, Paraguay.] (Symb.).

63. Ulmaceae.1898. **Celtis** Linn.

Celtis Iguanaea Sarg. Silva VII (1895) 64;

Celtis aculeata Sw. Prodr. (1788) 53; Gris. Fl. 149. Bessji
igoeaana, Jeerba igoeaana, Raambessji.

Curaçao: Sh (4970); H₂ (5113). — Suringar, — Britton & Shafer
3104.

Aruba: Bek (6432); Bek (7055).

Bonaire: Bonk (7492). — Suringar.

On Curaçao in the wooded part 11 finding places outside the lime district; on Aruba 2 finding places noted, on Bonaire 7.

Margarita. (Johnston).

Antill., Amer. cont. trop. (Symb.).

64. Moraceae.

1919. **Chlorophora** Gaudich.

Chlorophora tinctoria Gaudich. in Freyc. Voy. Bot. (1829) 508;

Maclura tinctoria D. Don ex Steud. Nomencl. II ed. II (1814) 87; Gris. Fl. 153;

Maclura xanthoxylon Endl. Gen. Suppl. IV. II (1847) 34; Gris. Fl. 153. Paaloe die moora, Paaloe doesji.

Curaçao: Vw (4702). — Suringar, — Went 1830.

Bonaire: Suringar.

On Curaçao alone 13 finding places noted, nearly always in courts and not on lime soil.

Antill., Amer. cont. trop. (Symb.).

1961. **Ficus** Linn.

Ficus Brittonii Boldingh. (n. sp.) ramulis tenuibus, in sicco subrugoso-sulcatis; stipulis glabris caducis; foliis membranaceis vel subpergamaceis, glabris, oblongis ovato-oblongis usque ellipticis, basi cuneato-subacutis, apice apiculatis usque mucronatis, basi trinerviis, venis primariis haud crebris; petiolis longis; receptaculis binis vel solitariis axillaribus, pisiformibus, globosis, basi bracteis 2 parvis connatis suffultis; ostiolo elevato; pedunculis quam receptacula longioribus glabris.

Arbor vel planta scandens.

Ramuli 3–4 mm. lati, in sicco cinereo-brunei. Stipulae 1 cm. longae, lanceolatae acutae in sicco brunescens. Petioli glabri 0,5–2,5 cm. longi, 1–2 mm. lati, in sicco brunei; folia 3–9 cm. longa, 2–4 cm. lata, in sicco brunea, subtus haud pallidiora, nervis basalibus vulgo $\frac{1}{3}$ folii haud superantibus, venis utrinque 6–8 patentibus tenuibus ad marginem arcuato-connexis, utrinque prominulis, interspersis parallelis tenuioribus, nervis tertiaribus conspicuis, reticulatione subtus conspicua. Receptacula 6 mm. in diametro. Pedunculi 4–6 mm. longi, 1 mm. lati, in sicco brunei, bracteis 1 mm. longis, patentibus in sicco brunei. Ostiolum 2 mm. latum, squamis rotundatis vel acutis in sicco bruneis clausum. Florum ♀ sepala rotundata, 0,5 mm. longa.

Mata paaloe. Plate I.

Curaçao: Hofje Klein Piscadera (4832); Mount Christoffel (5023); Slope of the Hieronymusberg (5116); Calcareous hills near Siberie

(5169); Hofje Hato (5342); Calcareous hills near St.-Jan (5642). — Britton & Shafer 3106.

Bonaire: Calcareous plateau of Montagna (7423). — Suringar.

Ficus Carica Linn. Sp. Pl. 1059.

Cultivated. [Eur., Oriens.] (Ind. Kew.).

Ficus elastica Roxb. Hort. beng. (1814) 65.

Cultivated. [Ex Assam vel Malesia.] (Symb.).

65. Urticaceæ

1984. **Pilea** Lindl.

Pilea herniarioides Lindl. Coll. bot. (1821) sub tab. 4.

Curaçao: H₂ (5114); Wh (5573); Heh (5648). — Suringar, — Britton & Shafer 2949.

Aruba: Camk (6371); Camk (6379); Bek (6433); Nick (6500). — Suringar.

Bonaire: Rk (7041).

Key Ins., Baham., Antill., Costarica. (Symb.).

Pilea microphylla Liebm. in Vidensk. Selsk. Skr. Kopenh. V. Ser. Vol. II (1851) 286; Gris. Fl. 155.

Cultivated. [Florida austr., Bermud., Baham., Antill., Amer. cont. trop.] (Symb.).

Pilea nummularifolia Wedd. in Ann. Sc. nat. III Ser. XVIII (1852) 225.

Cultivated. [Antill.] (Symb.).

67. Loranthaceæ.

2089. **Phoradendron** Nutt.

Phoradendron trinervium Gris Flor. W. I. (1860) 314.

Curaçao: Hk (5123).

Bonaire: Montkz (7394).

Antill., Costarica. (Symb.).

72. Olacaceæ.

2129. **Schoepfia** Schreb.

Schoepfia Schreberi J. F. Gmel. Syst. (1791) 376.

Curaçao: Moh (4853); Bah (5181); Pew (5277); M_g. — Britton & Shafer 3086.

Aruba: Mirh (6446).

Bonaire: Rk (7069); Rk (7072); Montkr (7421).

Antill., Mexico? San Salvador? Venezuela. (Symb.).

77. Polygonaceae.

2205. *Antigonon* Endl.

Antigonon leptopus Hook. et Arn. Bot. Beech. (1841) 308 t. 69.
Begissima.

Cultivated. [Jamaica.] (Gris. Fl.).

2209. *Coccoloba* Linn.

Coccoloba diversifolia Jacq. Enum. Syst. (1760) 19;

Coccoloba punctata Gris. (non L.) Flor. W. I. (1859) 163;

Coccoloba diversifolia Gris. (non Jacq.) pr. p. Flor. W. I. (1859) 163. (Symb.). Dreifi die kalakoena, Dreifi sjimarón, Kamaalia, Kamaari, Manggel die sabaana, Paaloe die lamán, Red mangel, Witte mangel.

Curaçao: Mok (4827); Mh (4881); Mh (4882); H (5070); Sik₃ (5240); R (5330); K (5463). — Aschenberg, — Suringar, — Britton & Shafer (3082).

Aruba: Jám (6306); Cank (6384). — Suringar.

Bonaire: Rk (7051); Macb (7122); Soebh (7274); Bonk (7489). — Suringar.

Generally spread in parts with well developed woods; on Curaçao 28 finding places noted, especially in the Western part and on the Western border of the Eastern half; on Aruba 7 finding places noted and on Bonaire 18.

Baham., Antill. (Symb.).

Coccoloba uvifera Jacq. Enum. Syst. 19; Gris. Fl. 161. Dreifi die lamán, Zeedreifi.

Curaçao: Suringar, — Britton & Shafer 2951.

Aruba: Mand (6290).

Bermud., Florida, Baham., Antill., Mexico, Amer. centr., Venezuela, Guiana. (Symb.).

2210. *Triplaris* Loefl.

Triplaris coriacea Krst. in Fl. Columbiae II (1862—69) 131.
Manggel die sabaana.

Curaçao: C (4943); C (5003); C (5024); Hz (5139); Wah (5255); Sit (5298); Ch (5415); Ch (5416); Be (5506); Beh (5509).

On Curaçao 13 finding places noted in the Western part and near Choloma; not observed on Aruba and Bonaire.

Barcelona, Caracas. (Karsten Fl. Columb.).

78. Chenopodiaceae.

2223. *Chenopodium* Linn.

Chenopodium ambrosioides Linn. Spec. (1753) 219; Gris. Fl. 60. Jeerba froemingga, Passoota, Sagradoo.

Curaçao: Suringar.

Aruba: Suringar.

Margarita. (Johnston).

Trop. and warmer countries of both hemisph. (Symb.).

Chenopodium murale Linn. Spec. (1753) 219; Gris. Fl. 60.

Curaçao: Aschenberg, — Suringar, — Britton & Shafer 3059.

Aruba: locality unknown. — Suringar.

Baham., Antill., Indig. in the Old World. (Symb.).

2229. *Atriplex* Linn.

Atriplex cristata H. B. in Willd. Spec. IV. II (1806) 959.

Curaçao: Suringar, — Britton & Shafer 2926.

Aruba: locality unknown.

Bermud., Florida austral., Baham., Antill., Venezuela, Nova Granata, Peruvia. (Symb.).

2257. *Salicornia* Linn.

Salicornia ambigua Michx. Flor. Bor. Amer. I. 2.

Curaçao: Suringar, — Britton & Shafer 2929.

Aruba: Serkz (6507). — Suringar.

Bonaire: Lack (7478). — Suringar.

Margarita. (Johnston).

Amer. sept. (Eng. u. Prntl.).

79. Amarantaceae.

2299. *Amarantus* Linn.

Amarantus crassipes Schlecht. in Linnaea VI (1831) 757;

Scleropus amarantoides Schrad. in Ind. Sem. hort. Götting. (1835); Gris. Fl. 68.

Curaçao: Bat (5234); (5737). — Britton & Shafer.

Margarita. (Johnston).

Florida, Key West, Antill., Amer. cont. from Mexico to Peru. (Symb.).

Amaranthus gracilis Desf. Tabl. I ed. (1804) 43;

Euxolus caudatus Moq. in DC. Prodr. XIII, II (1849) 247; Gris. Fl. 68;

Amarantus caudatus Linn. Spec. (1753) 990.

Curaçao: A (5154). — Suringar, — Britton & Shafer.

Bonaire: Suringar.

Baham., Antill., trop. countries of both hemisph. (Symb.).

Amarantus polygonoides Linn. Pl. Jam. Pugil. II (1759) 27;

Amblogyne polygonoides Raf. Fl. Tellur. III (1836) 42; Gris. Fl. 68. Kalaloe die poorko.

Curaçao: Hk (5082). — Suringar, — Britton & Shafer 3123.

Aruba: Savk (6542). — Suringar.

Bonaire: Suringar.

Florida, Key, Baham., Antill. (Symb.).

Amarantus tristis Linn. Spec. (1753) 989; Gris. Fl. 69. Kalaloe.

Curaçao: Cas (4793); St (4964); TC (5434b); M 6. — Suringar, — Britton & Shafer 2983, 3136.

Aruba: Siv (6310). — Suringar.

Bonaire: R (7164). — Suringar.

Margarita. (Johnston).

Antill., Chile. (Symb.).

2328. **Achyranthes** Linn.

Achyranthes obtusifolia Lam. Enc. I (1783) 545;

Achyranthes aspera var. *obtusifolia* Gris. Flor. W. I. (1860) 220.

Curaçao: Hw (5562).

Margarita. (Johnston).

Antill., Afr., Asia trop., Ins. Paul. (Symb.).

2335. **Alternanthera** Forsk.

Alternanthera brasiliiana O. Ktze. Rev. II (1891) 537 p.p. (Symb.);

Mogiphanes straminea Mart. Nov. Gen. II (1826) 35, t. 135; Gris. Fl. 64.

Aruba: Bek (6434); Mirh (6453). — Suringar.

Bonaire: R (7186). — Suringar.

Florida, Antill., Amer. cont. trop. (Symb.).

Alternanthera ficoidea R. Br. Prodr. I (1810) 417, vel affn.;

Alternanthera polygonoides Gris. Flor. W. I. (1859) 67.

Curaçao: Nasw (4684); Pit (4834); Asc (5295). — Suringar, — Britton & Shafer 3067.

Aruba: Siw (6308). — Suringar.

Margarita. (Johnston).

Antill., Amer. austr., Ins. Philip. (Symb.).

2338. **Gomphrena** Linn.

Gomphrena globosa Linn. Spec. (1753) 224.

Cultivated. [Indig. Asia orient. and austr. from Ins. Sundaic. to Nova Guinea.] (Symb.).

2339*. **Philoxerus** R. Br.

cf. 2339. **Iresine** Linn. Sect. 1.

Philoxerus vermicularis R. Br. Prodr. I (1810) 410; Gris. Fl. 65.

Curaçao: Suringar, — Britton & Shafer 2923.

Margarita. (Johnston).

Florida austr., Key Ins., Baham.; Antill., Amer. cont. trop., Afr. occid. (Symb.).

2339** **Lithophila** Swartz.

cf. 2339. **Iresine** Linn.

Lithophila muscoides Sw. Prodr. (1788) 14; Gris. Fl. 66;

Alternanthera muscoides Bent. et Hook. f. Gen. vol. 3 (1880) 39. Jeerba koessientsji, Polet die piedadra.

Curaçao: Vd (4736); Pk (5483); Hwk (5567). — Suringar, — Britton & Shafer 2925.

Aruba: Ok₂ (6219); Mankz (6276); Mankz (6282); Bakk (6338); Bakk (6339); Bek (6421b); Fontz (6471); Ser (6513); Savh (6525); Fontk (6566). — Suringar.

Bonaire: Grk (7173); R (7180); Grkz (7174); Savkz (7346); Lack (7477); Zoutz (7499). — Suringar.

Margarita. (Johnston).

Very widely spread; on Curaçao 15 finding places noted, on Aruba 19 and on Bonaire 11.

From the Bahamas to the Dutch W. I. Islands Curaçao, Aruba and Bonaire. (Symb.).

80. Nyctaginaceae.

2347. **Mirabilis** Linn.

Mirabilis Jalapa Linn. Spec. (1753) 177.

Cultivated. [Amer. trop.] (Symb.).

2349. **Boerhaavea** Linn.

Boerhaavea coccinea Mill. Gard. Dict. VIII ed. (1768) n. 4;

Boerhaavea hirsuta Willd. Phytogr. (1794) 1; Gris. Fl. 69;

Boerhaavea repens Linn. Spec. (1753) 3. Bataata die poorko, Mata poorko, Waada waada, Waada waada maatsjoe.

Curaçao: Suringar.

Antill., Amer. sept. and centr. (Symb.).

Boerhaavea erecta Linn. Spec. (1753) 3; Gris. Fl. 69. Bataata die poorko, Mata poorko, Waada waada, Waada waada maatsjoe.

Curaçao: Mo (4815); St (4961); Jt (5422). — Aschenberg, — Suringar.

Aruba: Siw (6316). — Suringar.

Margarita. (Johnston).

Bermud., Baham., Antill., Amer. cont. (Symb.).

Boerhaavea paniculata L. Cl. Rich. in Act. Hist. Nat. Par. I (1792) 105; Gris. Fl. 69. Bataata die poorko, Mata poorko, Waada waada, Waada waada maatsjoe.

Curaçao: V (4728); Mo (4816); St (4960). — Lens 815.

Aruba: Mirh (6457a); Fontz (6473).

Margarita. (Johnston).

Baham., Antill., Amer. centr. and austral. (Symb.).

Boerhaavea scandens Linn. Spec. (1753) 3; Gris. Fl. 69. Jeerba die piepa, Jeerba kanggrœeuw, Kwareel.

Curaçao: Bh (4759). — Aschenberg, — Suringar; — Went 1336, — Britton & Shafer 2912.

Aruba: (6206); Nick (6491). — Suringar.

Bonaire: R (7089). — Suringar.

Baham., Antill., Amer. cont. from Arizona to Peru. (Symb.).

2350. **Bougainvillea** Comm.

Bougainvillea spectabilis Willd. Spec. Pl. II (1799) 348. Trinararia. Cultivated. [Trop. Americ.] (Johnston).

2354. **Pisonia** Linn.

Pisonia bonairensis Boldingh. (n. sp.) foliis ellipticis vel oblongo-ellipticis, basi breviter in petiolum 1—2 cm. longum attenuatis, apice in acumine attenuatis, 4—8 cm. longis, 2—4 cm. latis, coriaceis, superne nitidis. Inflorescentiis pedunculo tenui, plurifloris, corymbiformis vel subumbellatis. Floribus puberulis, pedicellis 0,1—0,3 cm. longis. Perianthiis ♂ 0,4 cm. longis, infundibuliformis. Stamina 6—8, perianthio plus quam duplo longioribus. Perianthiis ♀ 0,3 cm. longis, cylindraceis. Anthocarpiis ignotis.

Arbor; rami grisei brunescens; folia vivo viridia superne opaca, nervo mediano conspicuo prominente, nervis lateralibus 5—7 utrinque vix prominentibus. Inflorescentia pedunculo communi 3—6 cm. longo, ramulis ultimis umbellulas plerumque trifloras gerentibus. Flores basi 2—3 bracteolis, minutissimis circumdati. Perianthia ♂ apice aperta acuto 5 lobata. Stamina ad 0,5—0,7 cm. longa, excerta, libera.

Perianthia ♀ supra distincte contracta, limbo 5 lobulato, parcissime puberula cylindracea. Germen 0,2 cm. longum, strigmate digitatim fimbriato.

Laabra, Mahoebaari, Masjiboeri, Moesti sámbo. Plate II.

Curaçao: Calcareous hills near Hermanus 5077; Hills between Hieronymusberg and Savonet 5124, 5128; Antonyberg 5146; Hills near Barber 5180, 5182*; near Davelaar 5401*; Hills near Blein 5515; Hofje of Knip 5539; Hills near Brakkeput ariba 5548.

Aruba: Slope of Jamanota 6299; Slope of Hooiberg 6365; Calcareous hills near Belashi 6430*; Hills near Savaneta 6532.

Bonaire: Slope of Joewa 7200, 7222; Rincon 7022; Calcareous plateau near Fontein 7248; Hills near Salina Playa Grandi 7293.

Occuring only in the wooded parts; on Curaçao 20 finding places noted on Aruba 6, on Bonaire 12.

* Description after no. 5401, 5182 and 6430.

Pisonia fragrans Dumont Cours. Bot. Cult. II ed. Vol. VII (1814) 114;

Pisonia obtusata Sw. Flor. III (1806) 1960 (non Jacq. 1798); Gris. Fl. 71 p.p. (Symb.);

Pisonia inermis Gris. Flor. W. I. (1859) 7 (p.p. non Jacq.) (Symb.) (Johnston).

Curaçao: Mah (4857); C (5002); K (5464); Hwk (5564); Wh (5577).

Aruba: Savh (6533).

Bonaire: Macb (7123); Bolko (7360); Bolko (7372); Montkz (7412); Montkr (7416).

Margarita. (Johnston).

Florida austr., Antill., Amer. centr., Columbia, Guiana. (Symb.).

81. Batidaceae.2362. **Batis** Linn.

Batis maritima Linn. Syst. X. ed. II (1759) 1380; Gris. Fl. 61.
Banana die rif.

Curaçao: Rif, Lagoen Labadera. — Suringar, — Britton & Shafer 2927.

Aruba: Bez (6439); Serkz (6509). — Suringar.

Bonaire: Krakz (7442). — Suringar.

Margarita. (Johnston).

Florida, Baham., Antill., Amer. cont. trop. orient., Californ.,
Ins Sandw. (Symb.).

83. Phytolaccaceae.2370. **Rivina** Linn.

Rivina humilis Linn. Spec. (1753) 121;

Rivina laevis Linn. Mant. I (1767) 41; Gris. Fl. 59. Stakama-
hatsji.

Curaçao: C (5016). — Suringar.

Aruba: Savk (6523a). — Suringar.

Bonaire: Rk (7045); Rk (7047); Joh (7210); Joh (7214). — Su-
ringar.

Margarita. (Johnston).

Flora austr., Baham., Antill., Amer. cont. trop. and sub trop.
(Symb.).

84. Aizoaceae.2387. **Mollugo** Linn.

Mollugo verticillata Linn. Spec. (1753) 89; Gris. Fl. 56.

Curaçao: Vat (5373). — Suringar, — Britton & Shafer 3036.

Aruba: L (6251); Mirh (6459). — Suringar.

Bonaire: Suringar.

Margarita. (Johnston).

Antill., Amer. cont. (Symb.).

2394. **Sesuvium** Linn.

Sesuvium portulacastrum Linn. Syst. X. ed. II (1759) 1058;
Gris. Fl. 57.

Curaçao: Ms (4899); Hz (5137). — Suringar, — Britton & Shafer 2928.

Aruba: Mankz (6281); Fontt (6472). — Suringar.

Bonaire: Okz (7240); Mat (7300); Lagz (7464); Lagz (7465); Lagk (7481). — Suringar.

Observed only on lime; 18 finding places noted in all.

Margarita. (Johnston).

Bermud., Baham., Antill., trop. and sub trop. countries of both hemisph. (Symb.).

2395. **Trianthema** Linn.

Trianthema portulacastrum Linn. Spec. (1753) 223;

Trianthema monogynum Linn. Mant. I (1767) 69; Gris. Fl. 58.

Curaçao: Suringar, — Britton & Shafer 3063.

Aruba: Siv (6314); Siw (6320). — Suringar.

Bonaire: Mat (7298). — Suringar.

Margarita. (Johnston).

Key, Antill., Amer. cont. trop., Afr. and Asia trop. (Symb.).

85. **Portulacaceae.**

2406. **Talinum** Adans.

Talinum triangulare Willd. Spec. II (1800) 862; Gris. Fl. 56.

Curaçao: A (5147); A (5148).

Margarita. (Johnston).

Antill., Amer. austr. (Symb.).

2421. **Portulaca** Linn.

Portulaca halimoides Linn. Spec. (1762) 639; Gris. Fl. 57. Jeerba kaneeuw, Jeerba konijntsji, Jeerba poesji, Piea pa-looma.

Curaçao: Mh (4873); Pek (5287); Hwk (5567*a*). — Suringar, — Went 1344, — Lens 837, — Britton & Shafer 3045.

Aruba: Ok₂ (6258); Mankz (6294); Ajw (6343*f*); Bek (6424*a*). — Suringar.

Bonaire: Savk (7345). — Suringar.

Scarce, 8 finding places noted in all.

Margarita. (Johnston).

Antill., Mexico. (Symb.).

Portulaca oleracea Linn. Spec. (1753) 445; Gris. Fl. 57. Beembee.

Curaçao: Suringar.

Aruba: Suringar.

Margarita. (Johnston).

Bermud., Baham., Antill., trop. and warmer countries of both hemisph. (Symb.).

Portulaca phaeosperma Urb. in Symb. Antill. IV (1905) 233.

Curaçao: V (4732); Sk (5040); Zt (5382). — Suringar.

Portorico, Hispaniola. (Symb.).

Portulaca venezuelensis Urb. in Symb. Antill. V (1907) 344.

Beembee sjimarón, Jeerba kaneeuw maatsjoe, Piea palooma.

Curaçao: W (4928); Bah (5176); Beh (5528); Be (5550); Wh (5575). — Suringar, — Britton & Shafer 3038.

Aruba: Jabh (6273); Nick (6497). — Suringar.

Bonaire: Joh (7220); Bolko (7356). — Suringar.

On Curaçao 13 finding places noted outside lime, on Aruba 4, on Bonaire 3.

Margarita. (Johnston).

Venezuela. (Symb.).

88. Nymphaeaceae.

2513. **Nymphaea** Linn.

Nymphaea ampla DC. Syst. II (1821) 54; Gris. Fl. 11.

Curaçao: M 23.

Baham., Antill., Amer. cent., Amer. merid. (Symb.).

94. Menispermaceae.

2574. **Cissampelos** Linn.

Cissampelos Pareira Linn. Spec. (1753) 1031; Gris. Fl. 10. Jeerba pataaka, Rais die pataaka.

Curaçao: Wo (5448).

Bonaire: Montkz (7411).

Margarita. (Johnston).

All tropical countries. (Symb.).

98. Anonaceae.

2729. **Anona** Linn.

Anona muricata Linn. Spec. (1753) 536; Gris. Fl. 4. Sorsaaka. Cultivated. [Antill.] (Symb.).

Anona palustris Linn. Spec. II ed. I (1762) 757; Gris. Fl. 5. Kajoeda.

Cultivated? [Antill., Amer. austr., Afr. occid.] (Symb.).

Anona reticulata Linn. Spec. (1753) 537; Gris. Fl. 5.

Cultivated. [Antill.] (Symb.).

Anona squamosa Linn. Spec. (1753) 537; Gris. Fl. 5. Sk opappel.
Cultivated [Antill.] (Symb.).

102. Lauraceae.

2783. **Persea** Gärtn.

Persea americana Mill. Gard. Dict. VIII ed. (1768).
Cultivated. [Mexico.] (Symb.).

104. Papaveraceae.

2852. **Argemone** Linn.

Argemone mexicana Linn. Spec. (1753) 508; Gris. Fl. 13. Pol-
ber sjimarón, Tjimitjimi.

Curaçao: Aschenberg, — Suringar.

Bonaire: R (7088). — Suringar.

Margarita. (Johnston).

Bermud., Baham., Antill., Amer. cont. trop. and from there
in trop. countries of the Old World. (Symb.).

105. Cruciferae.

3003 **Greggia** A. Gray.

Greggia Urbaniana Muschler in Urb. Symb. Antill. VII (1912) 226.
Aruba: Suringar.

107. Capparidaceae.

3082. **Cleome** Linn.

Cleome stenophylla Klotzsch ex Symb. Antill. IV (1905) 251.
in Rich. Schomb. Reise III (1848) 1164.

Curaçao: Cas (4800); Mo (4816); Aw (5164); Bat (5224); Hk
(5319a); Kit (5489). — Suringar, — Britton & Shafer 3046.

Aruba: Suringar.

Bonaire: Rt (7158).

Portorico, St. Barthélémy, Guiana. (Symb.).

3087. **Gynandropsis** D C.

Gynandropsis pentaphylla D C. Prodr. I (1824) 238;

Cleome pentaphylla Linn. Spec. (1763) 938; Gris. Fl. 15.
Jeerba kaaja.

Curaçao: St (4959). — Suringar, — Went 1352.

Bonaire: Zoutkg (7505).

Margarita. (Johnston).

Baham., Antill., Amer. cont. calid., indig. in Afr. and Asia trop. (Symb.).

3095. **Crataeva** Linn.

Crataeva gynandra Linn. Spec. ed. II. I (1762) 636; Gris Fl. 17.
Soeroen die moondi.

Bonaire: R (7114).

Aruba: seen near Canashito.

Margarita. (Johnston).

Common in tropical America. (Johnston).

3101. **Capparis** Linn.

Capparis Breynia Jacq. Sel. Amer. (1763) 161 t. 103; .

Capparis amygdalina Lam. Enc. I (1783) 608; Gris. Fl. 17.
Jeerba mosterd, Olieba maatsjoe, Paaloe preetoe,
Raaba, Horse radish.

Curaçao: Pit (4837); Mo (4898); C (4994); Beh (5519). — Aschenberg, — Suringar, — Britton & Shafer 3133.

Aruba: Jam (6302); Fonth (6463).

Bonaire: Rk (7040); Lash (7217). — Suringar.

Occurring in the wooded part; on Curaçao 10 finding places almost exclusively outside the lime region; on Aruba 6, on Bonaire 12 finding places.

Margarita. (Johnston).

Antill., Amer. centr., Nova Granata, Venezuela. (Symb.).

Capparis cynophallophora var. **latifolia** Griseb. Flor. W.I. (1859) 18. p.p. (Symb.). Hoerihoeri, Jeerba mosterd, Paaloe die loora, Raaba, Stokki.

Curaçao: Pit (4838); Sik₂ (5259); Krk (5593). — Aschenberg, — Suringar.

Aruba: Savk (6544).

Bonaire: R (7021); Joh (7218); Joh (7219); R (7284); Tolcz (7285); Montkz (7404). — Suringar.

Margarita. (Johnston).

Occurring in the wooded part; on Curaçao 13 finding places noted; on Aruba 3 and on Bonaire 16.

Antill., Venezuela. (Symb.).

Capparis jamaicensis Jacq. Enum. (1760) 23; Gris. Fl. 18. Olieba.
Curaçao: Vd (4738); Wh (4947); H (5071); Hk (5133); Sik₂ (5197); Vat (5351); Caz (5414); Kit (5474). — Aschenberg, — Suringar.

Aruba: Ajh (6346); Camk (6382); Bek (6425); Nick (6493). — Suringar.

Bonaire: R (7023). — Suringar.

Margarita. (Johnston).

Generally occurring in the wooded part; on Curaçao 21 finding places noted, on Aruba 16, on Bonaire 23.

Florida austr., Baham., Antill. (Symb.).

Capparis linearis Jacq. Enum. pl. Carib., (1760) 24. Keedebessji.

Curaçao: Wh (4946); H (5072); H₂ (5117). — Suringar.

Aruba: Bek (6426).

On Curaçao especially in the Christoffel complex; 8 finding places noted; on Aruba 7 in the wooded part; not observed on Bonaire.

Margarita. (Johnston).

Venezuela and Northern South America. (Johnston).

Capparis tenuisiliqua Jacq. Enum. pl. Carib. (1760) 24.

Curaçao: C (4999); C (5001); C (5014).

Bonaire: Joh (7207); Joh (7221).

Margarita. (Johnston).

Venezuela, Columbia. (Johnston).

3104. **Morisonia** Linn.

Morisonia americana Linn. Spec. (1753) 503; Gris. Fl. 19.

Aruba: Fonth (6441); Savk (6522). — Suringar.

Margarita. (Johnston).

Venezuela, West Indies. (Johnston).

109. **Moringaceae.**

3128. **Moringa** Juss.

Moringa oleifera Lam. Encyc. I (1783) 398;

Moringa pterygosperma Gärtn. Fruct. II (1791) 314 t. 147 f. 2;
 Gris. Fl. 16. Ben boom, Orengga, Salaster.

Cultivated. [Indig. in India orient.] (Symb.).

126. Rosaceae.

3398. **Chrysobalanus** Linn.

Chrysobalanus icaco Linn. Spec. (1753) 513; Gris. Fl. 229. Ekaakes.

Cultivated. [Florida austr., Baham., Antill., Amer. austr., Afr. austr.] (Symb.).

128. Leguminosae.

3441. **Pithecolobium** Mart.

Pithecolobium ligustrinum Klotzsch ex Benth. Trans. Linn. Soc. vol. 30 (1875) 571.

Cultivated. [American tropics.] (Johnston).

Pithecolobium platylobum Urb. in Symb. Antill. V (1908) 360. Daabaroeieda, Jaaga.

Aruba: Ajw (6355); Fontk (6480); Nick (6502). — Suringar.

Only observed on Aruba; 10 finding places noted, especially in the mountainous part.

Venezuela. Nova Granata. (Symb.).

Pithecolobium ungius-cati Benth. in Hook. Lond. Journ. Bot. III (1844) 200; Gris. Fl. 226. Unguis die poesji, Unguis gaati.

Curaçao: Bh (4764); B (4775); Vat (5369); Beh (5524); Jaz (5644a). — Suringar, — Britton & Shafer 3131.

Aruba: L (6268); Jam (6300); How (6358); Fonth (6443); Mirh (6462); Nick (6486). — Suringar.

Bonaire: R (7111); Ri (7105); R (7146). — Suringar.

Spread; on Curaçao 11 finding places noted; on Aruba 8, on Bonaire 24.

Margarita. (Johnston).

Florida austr., Key ins., Antill., Venezuela, Nova Granata. (Symb.).

3443. **Albizzia** Durazz.

Albizzia lebbek Benth. in Hook. Lond. Journ. Bot. III (1844) 87. Barba die jonkeman.

Cultivated. [Baham., Antill., Asia austr. and orient., Afr. trop.] (Symb.).

3446. **Acacia** Willd.

Acacia tortuosa Willd. Spec. Plant. IV (1805) 1083; Gris. Fl. 222. Oebaada, Waabi.

Curaçao: Rih (4652); S (5030); Hk (5131*a*); Rih (5324); Pk (5467); (5735). — Suringar, — Went 1120, — Lens 845, — Britton & Shafer.

Aruba: Hoh (6363); Savh (6534). — Suringar.

Bonaire: Rk (7068); R (7090); R (7142); Plh (7292); Math (7308); Montkz (7403). — Suringar.

On all the islands observed in nearly all places visited.

Margarita. (Johnston).

Antill., Mexico, Venezuela, Equador, Peru, Buenos Ayres, Galapagos. (Gris. Fl.).

Acacia villosa Willd. Spec. Plant. IV (1805) 1067; Gris. Fl. 221. Matagalienja, Nigieta die Malpais, Watapaana sjimarón, Wild divi divi.

Curaçao: Ri (4647); Nasw (4689); Cas (4787); Mah (4860); Sc (4978); Hk (5131*e*); Hw (5560); M 7. — Aschenberg, — Suringar, — Went 1118, 1320, — Lens 820, -- Britton & Shafer 2943.

Observed only on Curaçao in the Western part and in the Western half of the Eastern part; 45 finding places noted.

Cuba, Jamaica, Mexico to Panama. (Gris. Flor.).

3447. **Leucaena** Benth.

Leucaena glauca Benth. in Hook. Journ. Bot. IV (1842) 416; Gris. Fl. 220. Toembaraboe.

Cultivated. [In Amer. trop. indigen. ?] (Symb.).

3449. **Mimosa** Linn.

Mimosa distachya Cav. Ic. III. 48. t. 295. Unguis die gaatoe.

Curaçao: Kd (5338). — Suringar, — Went 1340.

Aruba: (5751). — Suringar.

Mexico. (Ind. Kew.).

3450. **Desmanthus** Willd.

Desmanthus depressus Humb. et Bonpl. ex Willd. Spec. Plant. IV (1805) 1046; Gris. Fl. 218. Montánja.

Curaçao: Pit (4841); Blt (4905); S (5032); Hk (5131*a*). — Aschenberg, — Suringar, — Britton & Shafer 2991.

Aruba: Suringar.

Florida, Antill., Texas to Peru, Galapagos. (Gris. Fl.).

Desmanthus virgatus Willd. Spec. IV. 2 (1806) 1047; Gris. Fl. 218.

Curaçao: Cas (4804); Mo (4816*e*); Hk (5080); Vat (5092); Wa₃ (5105); Hk (5131*e*); Bat (5206); Bat (5217); Hatot (5339); Vat (5354*d*). — Suringar.

Aruba: Siv (6317); Siv (6318); Mansz (6558).

Bonaire: Rt (7161); Fh (7245); Bact (7973*d*). — Suringar.

Margarita. (Johnston).

Bermud., Baham., Antill., (Amer. cont. trop. and subtrop., India orient.) (Symb.).

3451. **Neptunia** Lour.

Neptunia plena Benth. in Hook. Journ. Bot. IV (1842) 355; Gris. Fl. 218.

Curaçao: Si (5193).

Antill., Amer. austr., Asia trop. (introd.) (Symb.).

3454. **Prosopis** Linn.

Prosopis juliflora D C. Prod. vol. 2 (1825) 447; Gris. Fl. 217;

Prosopis cumanensis H. B. K. Nov. Gen. et Spec. vol. 6 (1823) 310. Indjoe, Koeieda, Koeiegi.

Curaçao: S (5026). — Aschenberg, — Suringar, — Britton & Shafer 3053.

Aruba: Fontk (6478). — Suringar.

Bonaire: Plh (7297).

On Curaçao 17 finding places noted, on Aruba 13 and on Bonaire 24; generally spread in these last two islands.

Margarita. (Johnston).

Venezuela, Mexico to Guajaquil, Jamaica. (Johnston).

3459. **Adenanthera** Linn.

Adenanthera pavonina Linn. Spec. (1753) 384.

Cultivated. [Asia trop.] (Symb.).

3508. **Tamarindus** Linn.

Tamarindus indica Linn. Spec. (1753) 34; Gris. Fl. 213. Tamarijn.

Cultivated. [Indig. veris. in Africa trop.] (Symb.).

3536. **Cassia** Linn.

Cassia Absus Linn. Spec. Pl. (1753) 376; Gris. Fl. 210.

Curaçao: Bat (5207); K (5465).

Bonaire: Bolko (7363).

Cosmop. trop. (Ind. Kew.).

Cassia bicapsularis Linn. Spec. (1753) 376; Gris Fl. 207. Broeska doesji, Tamarijn sjimarón, Wild trommelstok.

Curaçao: Sik₃ (5265); Sik₃ (5266). — Aschenberg, — Britton & Shafer 3089.

Bonaire: Gh (7311). — Suringar.

Bermud., Baham., Antill., Amer. cont. trop., Inquil. in India orient. and Madeira. (Symb.).

Cassia nictitans Linn. Spec. I (1753) 380; Gris. Fl. 211 (p.p.).

Curaçao: Cas (4799); Cas (4803); St (5054*m*); Wa₂ (5105); Bat (5233); Bat (5228); M 12. — Suringar, — Went 1338, — Britton & Shafer 2919, 2988.

Aruba: Siw (6326); Siw (6328*a*); Savk (6539). — Suringar.

Bonaire: R (7029); Rt (7157); Rt (7162); Fk (7334).

Margarita. (Johnston).

Baham., Antill., Amer. sept. subtrop., Mexico. (Symb.).

Cassia obovata Collad; Gris. Fl. 209. Senneblaar.

Curaçao: Sh (4969); W₂ (5061). — Suringar.

Aruba: Ok₂ (6215). — Suringar.

From trop. Africa. (Gris. Fl.).

Cassia Sophera Linn. Spec. Pl. 542. Broeska.

Curaçao: Vp (4745); Pe (5306); Kit (5488). — Suringar.

Bonaire: Slk (7312); Fk (7332*a*).

Aruba: locality unknown. — Beaujon.

In tropical countries of both hemisph. (Benth. Rev. Cassia).

3543. **Krameria** Loefl.

Krameria ixina Linn. Spec. (1762) 117; Gris. Fl. 31. Peega saaja sjimarón, Rathania.

Curaçao: Blt (4916); Sk (5039). — Suringar, — Britton & Shafer 3035.

Bonaire: Soebh (7281); Bolko (7357). — Suringar.

On Curaçao 11 finding places noted, not seen on Aruba, on Bonaire 5 finding places.

Hispaniola, St. Thomas, Antigua, Columbia. (Symb.).

St. Eustatius. (Boldingh I).

3551. **Parkinsonia** Linn.

Parkinsonia aculeata Linn. Spec. (1753) 375; Gris. Fl. 204.
Boontsjî streena.

Cultivated. [Key Ins., Antill., Amer. cont. trop.] (Symb.).

3552. **Haematoxylon** Linn.

Haematoxylon Brasiletto Karst. Flor. Columb. II (1858—69)
27, t. 114.

Curaçao: Rih (4653); V (4727); Blw (4748); Hk (5131*d*); Mrh (5625). — Suringar, — Went 1321, — Britton & Shafer 3054.

Aruba: Nick (6496).

Bonaire: Grk (7172); Joh (7202); Lagz (7468). — Suringar.

On Curaçao 66 finding places noted, on Aruba only observed in one place, on Bonaire in 19.

Haiti, Columbia, Guatemala, Mexico. (Symb.); St. Eustatius. (Boldingh).

3554. **Cercidium** Tulasne.

Cercidium viride Taub. in Eng. & Prantl. Natürl. Pflanzenfam. III. 3 (1892) 172;

Retinophloeum viride Karst. Fl. Columb. II (1862) 25. t. 113.

Cultivated. [Northern South America.] (Symb.).

3556. **Poinciana** Linn.

Poinciana regia Boj. ex Hook. Bot. Mag. (1829) tab. 2284. Flamboyant.

Cultivated. [Madagascar.] (Symb.).

3559. **Caesalpinia** Linn.

Caesalpinia ciliata Urb. in Symbolae Antillanae II (1900) 275;
Guilandina Bonduc Gris. Kar. (1857) n. 466 p. 60. Djoeekoe.

Curaçao: Sh (4966); W₂ (5062). — Aschenberg, — Suringar, — Britton & Shafer 3020.

Bonaire: Suringar.

Barthélémy, Antigua, Guadeloupe, Désirade, Marie Galante, Martinique. (Symb.); St. Eustatius, Saba, St. Martin. (Boldingh I).

Caesalpinia coriaria Willd. Spec. Plant II (1799) 532;

Lebidibia coriaria Schlecht. in Linnaea V (1830) 193; Gris. Fl. 231. Divi divi, Watapana.

Curaçao: Rih (4651); Sh (4967). — Suringar, — Went 1329, — Britton & Shafer 3025.

Aruba: Fonth (6444). — Suringar.

Bonaire: Lagz (7461). — Suringar.

In each of the islands observed in all places visited.

Margarita. (Johnston).

Baham., Antill., Mexico, Venezuela, Nova Granata. (Symb.).

Caesalpinia pulcherrina Sw. Obs. (1791) 166; Gris. Fl. 205. Toetoeroetóe.

Cultivated. [Patria ignot.] (Symb.).

3561. **Peltophorum** Walp.

Peltophorum Suringari Urb. Symb. Ant. V (1908) 363;
Peltophorum acutifolium Johnst. in Proc. Bost. Soc. Nat. Hist. Flora of Margarita Island 221;

Caesalpinia acutifolia Johnston, Proc. Amer. Acad. Arts and Sci., vol. 40 (1905) 686. Cura hout.

Curaçao: Sit (5299); Wo (5451); Krt (5616). — Suringar, — Britton & Shafer 3084.

Aruba: (5751); Jam (6301); Bek (6435); Fontk (6479). — Suringar.

On Curaçao only observed in a few places, on Aruba 9 finding places were noted, in the Eastern part; not observed on Bonaire.

Margarita. (Johnston).

3602. **Sophora** Linn.

Sophora tomentosa Linn. Spec. (1753) 373; Gris. Fl. 203.

Aruba: Along the seashore. — Suringar.

Bonaire: Skr (7436).

In warmer countries of both hemisph. (Symb.).

3669. **Crotalaria** Linn.

Crotalaria incana Linn. Spec. (1753) 716; Gris. Fl. 180.

Curaçao: Bat (5227); Kit (5490). — Aschenberg, — Suringar, — Britton & Shafer.

Aruba: Ok₂ (6223). — Suringar.

Bonaire: R (7128). — Suringar.

Margarita. (Johnston).

Warmer countries of both hemisp. (Symb.).

Crotolaria retusa Linn. Spec. (1753) 715; Gris. Fl. 179.

Curaçao: Suringar.

Warmer countries of both hemisph. (Symb.).

3688. **Medicago** Linn.

Medicago sativa Linn. Spec. (1753) 778. Alfalfa.

Cultivated. [Europa.] (Ind. Kew.).

3702. **Indigofera** Linn.

Indigofera suffruticosa Mill. Gard. Dict. VIII ed. (1768) n. 2;

Indogofera anil Linn. Mant. II (1771) 272; Gris. Fl. 181.

Jeerba die seis.

Curaçao: V (4722); Bah (5183); Hwk (5565*a*). — Suringar.

Aruba: Ok₂ (6255); Mansz (6560). — Suringar.

Bonaire: R (7026); Montkr (7409). — Suringar.

Spread; 25 finding places noted in all.

Margarita. (Johnston).

In tropical and warmer countries. (Johnston).

Indigofera tinctoria Linn.

Curaçao: Kd (5334).

Trop. countries of both hemisph. (Eng. und Prantl).

3709. **Dalea** Linn.

Dalea phymatodes Willd. Spec. 3 (1797) 1338; Jeerba die sonja.

Curaçao: Bah (5178); Krh C (5605); M. 1. — Britton & Shafer 3143.

Venezuela. (DC. Prodr. 2).

3718. **Tephrosia** Pers.

Tephrosia cinerea Pers. Syn. II (1807) 328; Gris. Fl. 182.
Mankeman seeboe.

Curaçao: V (4724); Cas (4791); W (4927*d*); A (5158); Vat (5354*c*). — Aschenberg, — Suringar, — Britton & Shafer 3001.

Aruba: Siw (6309); Siv (6328); Bez (6438). — Suringar.

Bonaire: R (7127); Fz (7244); (7326). — Suringar.

Spread over Curaçao, 27 finding places noted, on Aruba 3, on Bonaire 4.

Margarita. (Johnston).

Baham., Antill., Bay of Honduras, Cartagena. (Symb.).

3734. **Gliricidia** H. B. K.

Gliricidia sepium Steud. Nomencl. II ed. I (1841) 688. Jeerba tónka, Mataratón, Ratoneera.

Curaçao: Blw (4755). — Suringar, — Britton & Shafer 3132. Cultivated? [Mexico, Amer. centr., Nov. Granata.] (Symb.).

3747. **Sesbania** Scop.

Sesbania aculeata Poir. Encycl. VII. 128; Gris. Fl. 184.

Curaçao: Bat (5219). — Britton & Shafer 3120. Cosmop. trop. (Gris. Flor.).

Sesbania grandiflora Pers. Syn. II (1807) 316.

Cultivated. [India orient., Austral. sept.] (Symb.).

3793. **Aeschynomene** Linn.

Aeschynomene americana Linn. Spec. (1753) 713; Gris. Fl. 185.

Curaçao: M., — Suringar, — Britton & Shafer 3015. Antill., Amer. cont. trop. (Symb.).

Aeschynomene falcata P. DC. Prodr. II (1825) 322.

Curaçao: Si (5194); Bat (5215); Vat (5362); Krh (5599a). — Britton & Shafer 3041.

Brasilia, Amer. meridion. (Flor. Brasil. XV. 1).

Bolivia. (coll. Fiebrig).

3802. **Stylosanthes** Sw.

Stylosanthes hamata Taubert Mon. Stylos. (Nov. 1889) 22;

Stylosanthes procumbens Sw. Prodr. (1788) 108; Gris. Fl. 188. Pienda sjimarón.

Curaçao: Bh (4767); S (5036); Vat (5097); Bat (5210a). — Britton & Shafer 3013.

Aruba: Siv (6313). — Suringar.

Bonaire: Fh (7246); Bolko (7364).

Baham., Antill., Amer. sept., Mexico, Amer. cētr., Nova Granata. (Symb.).

3803. **Arachis** Linn.

Arachis hypogaea Linn. Spec. (1753) 741; Gris. Fl. 189. Pienda.

Cultivated. [Patria ignot.] (Symb.).

3807. **Desmodium** Desv.

Desmodium molle P. DC. Prodr. II (1825) 332; Gris. Fl. 188.
Boontsji kabaai, Foengfoeng, Goorda kapaa.

Curaçao: Cas (4796); Kit (5491). — Aschenberg, — Suringar, —
Lens 818, — Britton & Shafer 3099.

Bonaire: Rt (7160).

Antill., Amer. centr. and austr. (Symb.).

Desmodium spirale P. DC. Prodr. II (1825) 332; Gris. Fl. 188.

Curaçao: Kit (5496); M 18; M 13. — Suringar, — Britton &
Shafer 2909.

Aruba: Mirh (6449); Mirh (6452*b*); Mirh (6453*i*); Nick (6490). —
Suringar.

Bonaire: R (7027); Rh (7078).

Margarita. (Johnston).

Antill., Amer. cont. trop., Afr. trop., Ind. orient. and Ins.
Pacif. (Symb.).

Desmodium supinum P. DC. Prodr. II (1825) 332;

Desmodium incanum P. DC. Prodr. II (1825) 332; Gris. Fl. 186.

Curaçao: Zt (5388).

Margarita. (Johnston).

Baham., Antill., Amer. cont. trop., Afr. trop. (Symb.).

3842. **Geoffraea** Linn.

Geoffraea superba H. et B. Pl. Aequin. II 69. t. 100. Paaloe
die takki, Takki takki.

Curaçao: Cas (4808); Pit (4842); Sik₂ (5202*a*). — Suringar.

Bonaire: R (7141). — Suringar.

On Curaçao 9 finding places noted, on Bonaire 5; not seen on Aruba.

Amer. austr. (Ind. Kew.).

3856. **Abrus** Linn.

Abrus precatorius Linn. Syst. XII ed. II (1767) 472; Gris. Fl.
190. Makoeraa.

Curaçao: Be (5392). — Suringar.

Margarita. (Johnston).

Baham., Antill., Amer. cont. calid., Afr., Asia calid. (Symb.).

3857. **Clitoria** Linn.

Clitoria ternatea Linn. Spec. (1753) 753. Blomtsji die koka-
liesji, Boontsji palooma, Jamaani tobaako.

Cultivated. [Afr. orient.] (Symb.).

3870. **Erythrina** Linn.

Erythrina velutina Willd. in Ges. Naturf. Freunde. Neue Schr. III (1801) 426; Gris. Fl. 199. Boontji die paaloe, Boontsjikarta.

Curaçao: Bh (4773). — Aschenberg, — Suringar, — Britton & Shafer.

Aruba: Fonth (6465). — Suringar.

Jamaica, Venezuela to Brasil. (Gris. Fl.).

3882. **Galactia** Adans.

Galactia rubra Urb. in Symb. Antill. II (1900) 309;

Galactia longiflora Gris. Flor. W. I. (1860) p. 194 (p.p.). (Symb.).

Curaçao: Sh (4975).

Bonaire: Fk (7331).

Antill. (Symb.).

3892. **Cajanus** P. D C.

Cajanus indicus Spreng. Syst. III (1826) 248; Gris. Fl. 191. Wándoe.

Cultivated. [Warmer countries of both hemisph.] (Symb.).

3897. **Rhynchosia** Lour.

Rhynchosia minima P. D C. Prodr. II (1825) 385; Gris. Fl. 190. Jeerba ragädiesji.

Curaçao: Vw (4714); Cas (4794); Cas (4801); Wa₃ (5105f); Kit (5535). — Aschenberg, — Suringar, — Britton & Shafer 2977.

Aruba: L (6254). — Suringar.

Bonaire: R (7104); Rt (7152a). — Suringar.

Margarita. (Johnston).

Warmer countries of both hemisph. (Symb.).

3901. **Phaseolus** Linn.

Phaseolus longepedunculatus Mart. ex Benth. in Ann. Wien. Mus. II (1838) 141.

Curaçao: Hk (5081); Kit (5494); Kit (5498); M 20. — Went 1346.

Aruba: Siv (6328); Nick (6489). — Suringar.

Bonaire: Rt (7149); Rt (7156).

Brasilia. (Ind. Kew.).

Phaseolus lunatus Linn. Spec. (1753) 724.

Cultivated. [All trop. countries.] (Symb.).

Phaseolus vulgaris Linn. Spec. (1753) 723.

Cultivated. [Everywhere] (Ind. Kew.).

3905. **Vigna Savi**.

Vigna unguiculata Walp. Rep. I (1842) 779.

Cultivated. [Afr. trop.] (Symb.).

3909. **Lablab Adans.**

Lablab vulgaris Savi Diss. (1821) 19 t. 19 f. 8.

Cultivated. [Afr. trop.?] (Symb.).

134. Erythroxylaceae.

3956. **Erythroxylum** Linn.

Erythroxylum havanense Jacq. Enum. Pl. Carib. (1760) 21 ;

Erythroxylum obtusum DC. Prodr. I (1824) 574; Gris. Fl. 113.
p.p. (Symb.).

Curaçao: C (5008); Hh (5125).

Margarita. (Johnston).

Cuba, Isla de Pinos. (Symb.); St. Eustatius, Saba, St. Martin.
(Boldingh I); Dominica, Trinidad, Bahia, Guiana. (Johnston).

135. Zygophyllaceae.

3968. **Guaicum** Linn.

Guaicum officinale Linn. Spec. (1753) 381; Gris. Fl. 134.
Wajakaa.

Curaçao: Mah (4856). — Suringar, — Britton & Shafer 3023.

Aruba: Ajw (6345). — Suringar.

Bonaire: Joh (7216). — Suringar.

Observed on Curaçao especially in the Western part, 19 finding places,
on Aruba 7, on Bonaire 4.

Margarita. (Johnston).

Baham., Antill., Amer. austr. (Symb.).

Guaicum sanctum Linn. Spec. (1753) 382; Gris. Fl. 134.
Beera, Boeloebarie, Wajakaa maatsjoe, Wajakaa
sjimarón.

Curaçao: Hk (5073); Hk (5076); Kd (5332); Mrh (5623).

Aruba: Bek (6431); Savk (6547).

Bonaire: Soebh (7257). — Suringar.

On Curaçao 6 finding places noted, on Aruba 3, on Bonaire 3.

Florida austr., Key, Baham., Portorico, Cuba, Hispaniola. (Symb.).

3978. *Tribulus* Linn.

Tribulus terrestris Linn. Spec. (1753) 387, var. **cistoides** (L.) Olive, Fl. trop. Afr. vol. I (1868) 284; (Johnston);

Tribulus cistoides Linn. Spec. (1753) 387; Gris, Fl. 134. A ng glo.

Curaçao: Rud (4606); Mo (4816*d*). — Suringar, — Went 1104, — Lens 807, — Britton & Shafer 3077.

Aruba: Siv (6320). — Suringar.

Margarita. (Johnston).

Trop. countries of both hemisph. (Symb.).

3979. *Kallstroemia* Scop. 1)

Kallstroemia caribaea Rydb. in Britton & Brown, an Ill. Fl. U. S. Sec. Edition.

Curaçao: Mo (4814).

Bonaire: Rt (7163).

Antill.

Kallstroemia curta Rydb. sp. nov. (in manuscr.)

A diffuse, branched annual; stems about 1 m. long, slender, prostrate, soon straw-coloured, sparingly hirsute; stipules small, subulate, about 2 mm. long, hirsute; leaves short, 1—2 cm. long; leaflets mostly 3 pairs, or on some of the branches only 2 pairs, obliquely oval, 3—10 mm. long, mucronate, denticulate, yellowish-green, glabrate above, hirsute beneath, the hairs in age with pustulate bases; peduncles 5 mm. long or less; sepals subulate, about 3 mm. long; petals not seen; fruit strigose, body 2—3 mm. high; beak about 1 mm., truncate conic, broader than high; nutlets when ripe dark-brown, with small, but rather acute tubercles on the back, strongly reticulate on the faces, with rather large and deep faveoles.

The fruit of this species resembles most that of *Kallstroemia brachystylis* Vail. of Southwestern United States and Northern Mexico, but the beak is still shorter and thicker, the tubercles smaller but rather more acute and

1) Dr. Rydberg has named my *Kallstroemia* species and was so kind as to give me his description of *K. curta* n. sp.

the reticulations stronger. It is also characterized by its short leaves, few, small and crowded leaflets, short peduncles, and hairs with pustulate bases. These characters and the short beak separate it from the two other West Indian species, viz., *K. maxima* (L.) T. & G. and *K. caribaea* Rydb.

Curaçao: Rocky coastal hill, St. Joris Bay, March 20—27, 1913, Britton & Shafer 3096; Boldingh: near Mahoema, 4780.

Aruba: Boldingh: court of Sivi Sivi 6311.

137. Rutaceae.

3991. *Fagara* Linn.

Fagara flava Kr. et Urb. in Engl. Jahrb. XXI (1896) 571. Kalabarie.

Bonaire: (7324); (7328); Bonk(7487); Bonk (7494); Bonk (7495). — Suringar.

Bermud., Key Ins., Baham., Antill. (Symb.).

Fagara monophylla Lam. Ill. 1 (1791) p. 334 n. 1643;

Xanthoxylum ochroxylum P. D C. Prodr. I (1824) 725; Gris. Fl. 138. Bossoea, Kaubaati.

Curaçao: Hk (5078); H₂ (5118); Sih (5189); Sik₂ (5263); Dh (5634).

Bonaire: Rk (7048); Soebh (7266).

Besides the finding places mentioned, still 4 noted on Bonaire; not seen on Aruba.

Antill., Venezuela, Nova Granata. (Symb.).

4047. *Pilocarpus* Vahl.

Pilocarpus racemosus Vahl Eclog. I (1796) p. 29 t. 10; Gris. Fl. 135. Boeraatsji.

Aruba: Fontk (6481).

Antill. (Symb.).

4084. *Amyris* Linn.

Amyris simplicifolia Karst. Flor. Columb. II (1858—69) p. 109. t. 158 f. 1;

Amyris maritima Gris. Flor. (1859) p. 174 (p.p.) (Urb. Engl. Jahrb. XXI. p. 609). Kauwbaati.

Curaçao: Beh (5523). — Suringar.

Bonaire: Montkr (7390).

Margarita? (Johnston).

Trinidad, Venezuela. (Urb. Engl. Jahrb. XXI).

4090. **Murraya** Linn.

Murraya exotica Linn. Mant. II (1771) 563.

Cultivated. [Ind. in Asia austro-orient., Austr. sept., Polynesie.] (Symb.).

4094. **Triphasia** Lour.

Triphasia trifoliata P. D C. Prodr. I (1824) 536. Lamoentsj die Surinaam, Lamoentsji sjimarón.

Cultivated. [Ind. in India orient.] (Symb.).

4100. **Citrus** Linn.

Citrus aurantium Linn. Spec. (1753) 782.

Cultivated. [Asia austr.] (Symb.).

Citrus bigaradia Loisel. in Duham. Arb. ed. nov. VII (1819) 99.

Cultivated. (Symb.).

Citrus decumana Linn. Syst. XII ed. II (1767) 508. Pompelmoes.

Cultivated. (Symb.).

Citrus limetta Risso in Ann. Mus. Par. XX (1813) 195.

Cultivated. (Symb.).

Citrus limonum Risso in Ann. Mus. Par. XX (1813) 201. Lamoentsji.

Cultivated. (Symb.).

Citrus medica Linn. Spec. (1753) 782. Citroen.

Cultivated. [Asia austr.] (Symb.).

138. Simarubaceae.4106. **Suriana** Linn.

Suriana maritima Linn. Spec. (1753) 284; Gris. Fl. 58.

Curaçao: Suringar, — Britton & Shafer 2931.

Aruba: Mankr (6286). — Suringar.

Bonaire: R (7182). — Suringar.

Margarita. (Johnston).

Trop. countries of both hemisph. (Symb.).

139. Burseraceae.

4150. *Bursera* Linn.

Bursera bonariensis Boldingh (n. sp.) ramulis crassiusculis, rufescentibus, glabris; foliis apice ramorum congestis, pinnatis 3—5 jugis, petiolo anguloso, foliolis distincte petiolatis, facile deciduis, oblongo-ovatis, basi parum obliqua, apice longius acuminatis, ramis floriferis ramosis multifloris, glabris; floribus ignotis; fructibus trigonis. Foliorum petiolus a basi usque ad jugum infimum usque 10 cm. longus, interstitia inter foliola 3—7 cm. longa, petioluli 0,3—0,5 cm. longi; foliola adulta 14 cm. longitudine, 3—8 cm. latitudine assequentia.

Fructus trigonus, valvis circ. 1,2 cm. longus, 0,7 cm. diametens, pyrena loculo uno completo.

Sieja korraa. Plate III.

Curaçao: Suringar.

Aruba: Hills near Ajo (6345); Calcareous hills near Savaneta (6545).

Bonaire: Rincon (7062); Slope of Macutacao (7126) (type); Calcareous plateau of Bolivia (7273). — Suringar.

On Curaçao 14 finding places noted; on Aruba 5, on Bonaire 9.

Bursera simaruba Sarg. Gard. and For. III (1890) 260;

Bursera gummifera Jacq. Sel. (1763) 94 t. 65; Gris. Fl. 173. Paaloe sieja doesji, Paaloe sieja maatsjoe, Sieja blanko.

Curaçao: Nask (4690); Vw (4705); Vw (4715); Blw (4751); H₂ (5121b); Beh (5526). — Britton & Shafer 3103.

Aruba: Suph (6391); Nick (6492).

Widely spread on Curaçao, 34 finding places noted there, on Aruba 9, on Bonaire 14.

Margarita. (Johnston).

Florida, Key Ins., Baham., Antill., from Mexico to Nova Granata and Venezuela. (Symb.).

Bursera tomentosa Triana et Planchon in Prodr. Fl. Novae Granatensis. Ann. Sc. Nat. Ser. V. XIV (1872) 304;

Elaphrium Jacquinianum H. B. K. Nov. Gen. et Sp. VII. 23. t 613. Takamahak.

Curaçao; Nask (4695). — Suringar, — Britton & Shafer 3146.

Aruba: Ok₂ (6240); Hoh (6367).

Bonaire: R (7110). — Suringar.

Very general; on Curaçao 36 finding places noted, on Aruba 7, on Bonaire 16. Nova Granata, Venezuela. (Triana et Planch.).

140. Meliaceae.4164. **Swietenia** Jacq.**Swietenia mahagoni** Jacq. Enum. (1760) 20; Gris. Fl. 131. Mahók.

Cultivated. [Key Ins., Baham., Antill., Mexico, Amer. centr., Peru.] (Symb.).

4175. **Melia** Linn.**Melia azedarach** Linn. Spec. (1753) 384.

Cultivated. [Warmer countries of both hemisph.] (Symb.).

4195. **Trichilia** Linn.**Trichilia trifolia** Linn. Syst. Ed. X. 1020. Ceraasji maatsjoe, Sjimaroekoe maatsjoe.**Curaçao:** Vw (4699); Bh (4759c); Wd (4940); Pk (5479). — Suringar, — Britton & Shafer 2911.

Observed on Curaçao only; 34 finding places noted, nearly always outside the lime region.

Venezuela, Cumana. (C. DC. Monogr. Ph. I).

141. Malpighiaceae.4251. **Malpighia** Linn.**Malpighia glabra** Linn. Spec. (1753) 425; Gris. Fl. 116. Sjimaroekoe.**Curaçao:** Zt (5389); Be (5393); Be (5394); Be (5394). — Suringar.**Bonaire:** R (7383); Fh (7335).

Margarita. (Johnston).

Tropical America. (Johnston).

Malpighia punicifolia Linn. Spec. (1762) 609; Gris. Fl. 116. Sjimaroekoe, Sjimaroekoe maatsjoe.**Curaçao:** Vw (4704); Vw (4711); Bh (4757); Mh (4874); Seh (5692). — Aschenberg, — Suringar.**Aruba:** Ok₂ (6230); Savh (6524); Savk (6551).**Bonaire:** R (7106); Joh (7210); Joh (7213); Savk (7344). — Suringar.

Generally spread; on Curaçao 31 finding places noted, on Aruba 16, on Bonaire 17.

Margarita. (Johnston).

In Northern South America. (Johnston).

4252. **Bunchosia** L. Cl. Rich.

Bunchosia nitida L. Cl. Rich. ap. Jussieu in Ann. Mus. Par. XVIII (1811) 481. Sjimaroekoe kaasjoe.

Curaçao: Sik₂ (5244); Pew (5275); Pew (5276); K (5460).
Antill. (Symb.); Surinam. (Pulle).

4255. **Byrsonima** L. Cl. Rich.

Byrsonima crassifolia H. B. K. Nov. Gen. V (1821) 149; Gris. Fl. 114.

Curaçao: W (4925); Beh (5517).
Antill., Amer. austr. sept. (Symb.).

145. Polygalaceae.

4273. **Polygala** Linn.

Polygala angustifolia H. B. K. Nov. Gen. et Sp. V. 405, t. 511; Gris Fl. 28.

Curaçao: Bat (5209); Krh (5599). — Suringar, — Britton & Schafer 2917.

Aruba: Mirh (6453).

Bonaire: R (7025); Prw (7348).

Cuba and Mexico to Brasil. (Gris. Fl.).

147. Euphorbiaceae.

4299. **Phyllanthus** Linn.

Phyllanthus Euwensii Boldingh. (n. sp.) ramulis glabris in sicco brunis, teretibus vel crassiusculis, plus minus tortuosis; stipulis aegre discernendis 0,5 mm. longis; foliis 2—4 mm. longe petiolatis, ellipticis usque lanceolatis, ad basin angustatis, apice acutatis vel obtusiusculis, 2,5—5,5 cm. longis 1,5—4 cm. latis, coriaceis, atroviridibus, supra lucentibus; fasciculis 2—7 floris ex axillis squamarum prodeuntibus in racemum elongatum collectis; pedicellis flor. masc. 1—3 mm. longis; sepalis 1 mm. longis, disci glandulis 6, planis, areolatis; staminibus 3 plane in columnam coalitis; pedicellis flor. fem. 1—3 cm. longis, sepalis 1 mm. longis, acutis; disco breviter cupuliformi, margine crenulato, basin ovarii

cingente; stylis in columnam ovario dimidio longiorem connatis.

Frutex; folia nervis prominulis; racemus masculinus usque ad 8 cm. longus; flores fasciculatae; racemus femininus usque ad 12 cm. longus; flores solitariae; fructus usque 8 mm. in diam.

Karkidaaki, Lokki-lokki. Plate IV.

Curaçao: Calcareous hills near Mahoema (4822); Slope of the Hieronymusberg (5121a); Road near Antonyberg (5141); Road near Wacao (5252); Calcareous soil near San Pedro (5279) (type); Calcareous hills and plateau Kleine Berg (5456). — Went, — Britton & Shafer 3108.

Aruba: Hills near Fontein (6442).

Bonaire: Rincon (7167); Road from Slagbaai to the Brandaris.

On Curaçao 25 finding places noted outside the lime region, 10 in it; on Aruba 19 finding places; on Bonaire 11.

Phyllanthus niruri Linn. Spec. (1753) 981; Gris. Fl. 34.

Curaçao: (6545).

Margarita. (Johnston).

In almost all warmer countries of both hemisph. (Symb.).

Phyllanthus polycladus Urb. Symb. I (1899) 333. var. γ **curassavicus** Urb. Symb. V (1908) 384.

Curaçao: Pek (5283); Hk (5313). — Suringar, — Britton & Shafer 2948.

Bonaire: Rk (7052); Rk (7053); Tolcz (7278); Zkr (7388).

In Curaçao on the higher calcareous table-lands 3 finding places were noted, on Bonaire 10, mostly on the higher calcareous table-lands; not observed on Aruba.

Ph. polycladus: Portorico, Guadeloupe. (Symb.).

4348. **Croton** Linn.

Croton curassavicus Boldingh. (n. sp.) monoecus, ramis, petiolis, foliis subtus, pedunculis pilis patentibus obsolete villosis; foliis 0,5—3,5 cm. longe petiolatis, ovato cordatis, apice acutis, margine grossodentatis, 2,5—8 cm. longis 1,5—5 cm. latis, supra glabratis, vel minute villosis; inflorescentibus cr. 5 cm. longis, inferne femineis, superne masculis; floribus solitariis, pedicellis 0,1 cm. longis; alabastris masculis 0,2—0,3 cm. longis; staminibus cr. 8—10; sepalis floribus femineis lanceolatis; stylis fere usque ad basin quadripartitis, ramis filiformibus; capsulis globulosis.

Frutex 0,1—0,5 m. altus. Folia petiolis subteretibus, glandulis basalibus

minutissimis, nervis lateralibus utroque latere 3—8 abeuntibus, chartacea, supra mox glabrata, pilis subtus obsolete villosis.

Inflorescentiae in apice ramorum et in axillis foliorum multiflorae, usque ad insertionem floriferae, flores solitarii. Flores masculi: sepala 0,25 cm. longa, 0,1 cm. lata, apice ciliata. Petala 0,25 cm. longa, 0,1 cm. lata, apice obsolete ciliata.

Disci glandulae crassiusculi. Filamenta 0,2 cm. longa; antherae 1 cm. longae. Flores feminei: sepala usque 0,5 cm. longa, 0,2 cm. lata, glandulosa. Petala non observata. Discus carnosus, quinque glandulis

Styli 0,5 cm. longi, ramis 4, 3—4 cm. longis. Capsulae 0,4—0,5 cm. longae. Semina 0,4 cm. longa, brunea.

Plate V.

Curaçao: Calcareous hills to the north of the road from Westpunt to Savonet (4955); Hills near Barber (5179) (type.); Hills near Choloma (5417, 5418).

Croton flavens Linn. Syst. X ed. II (1759) 1276; Gris. Fl. 38. Wilde salie.

Curaçao: Rih (4648); Mok (4826); H₂ (5121e); Hk (5131d); Pk (5475). — Aschenberg, — Suringar, — Went 1114, — Lens 839, — Britton & Shafer 2954.

Aruba: (6211); How (6359). — Suringar.

Bonaire: R (7087); Fk (7340). — Suringar.

Occurs in all the islands in nearly all the places visited.

Margarita. (Johnston).

Hispaniola, Portorico, St. Thomas, St. Jan. (Symb.); St. Eustatius, Saba, St. Martin. (Boldingh I); Baham. (Herb. Leiden).

Croton glandulosus Linn. Syst. X ed. II (1759) 1275; Gris. Fl. 41. Jeerba kareeta.

Curaçao: Bah (5175); Bah (5177); Wo (5446); Pk (5482); Hwk (5566); Krh C (5606); Dh (5627); (5733).

Bonaire: Montkr (7392); Montkr (7410).

Margarita. (Johnston).

Antill., Amer. cont. (Symb.).

Croton lobatus Linn. Spec. (1753) 1005; Gris Fl. 42. Jeerba kraabo.

Curaçao: Nasw (4685). — Suringar, — Britton & Shafer 3006.

Aruba: Fontt (6475g). — Suringar.

Bonaire: Suringar.

Margarita. (Johnston).

Antill., Amer. cont. trop. (Symb.).

Croton niveus Jacq. Enum. (1760) 32; Gris. Fl. 40. Barra blanko, Kiviet, Loembra blanko.

Curaçao: Vd (4740); C (4993); H₂ (5122); Sik₂ (5201); Kd (5333). — Aschenberg, — Suringar, — Britton & Shafer 3140.

Aruba: Bakk (6341); Hoh (6364); Mirh (6451).

Bonaire: Joh (7206); Soebh (7267); Brw (7317).

Occurs in Curaçao especially in the Western part, 12 finding places noted; on Aruba 8; on Bonaire 5.

Margarita. (Johnston).

Jamaica, Dominica, Columbia. (Johnston).

Croton ovalifolius Vahl in West. Bidr. Ste. Croix (1793) 307; Gris Fl. 41. Jeerba die seeroe, Jeerba tsjoebaatoe.

Curaçao: Cas (4788); Mok (4820); S (5035); Pk (5480); Kit (5536). — Suringar, — Went 1357, — Britton & Shafer 3070.

Aruba: Bakk (6340); Ajh (6349); Ajw (6354). — Suringar.

Bonaire: R (7102); PRw (7352). — Suringar.

Spread; 36 finding places noted.

Margarita. (Johnston).

West Indies and Venezuela. (Johnston).

4360. **Argithamnia** Sw.

Argithamnia candicans Sw. Prodr. (1788) 39; Gris. Fl. 44.

Curaçao: Wa₃ (5105e); Hk (5131k). — Suringar, — Britton & Shafer 2963.

Aruba: Jabh (6274); Bakk (6334); Ajh (6350); Fontt (6475e); Nick (6495b). — Suringar.

Margarita. (Johnston).

West Indies and Caribbean Islands. (Johnston).

4374. **Bernardia** Adans.

Bernardia corensis Müll.-Arg. in Linnaea XXXIV (1865, 66) 173; *Polyboea corensis* Klotzsch in Endl. Suppl. IV. III (1850) 88; Gris. Fl. 46.

Curaçao: W (4927h); Wo (4931); C (5022).

Bonaire: Bolko (7373); Zkr (7386).

Antill. (Herb. Krug et Urban).

4397. **Adelia** Linn.

Adelia ricinella Linn. Syst. X ed. II (1759) 1298; Gris. Fl. 45.

Curaçao: Mk (4891); W (4925); C (4989); A (5161); Hk (5420); Beh (5510); Beh (5512); Mrh₂ (5618).

Margarita. (Johnston).

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Jan. (Symb.); St. Martin, St. Croix. (Boldingh I).

4407. **Acalypha** Linn.

Acalypha cuspidata Müll.-Arg. in D C. Prodr. XV. 2 p. 858. v. aff.

Curaçao: Vd (4739); Wo (4934); Kk (5409); Beh (5534).

Aruba: Ajh (6347); Hoh (6368).

Bonaire: Macb (7121); Joh (7211).

Antill., Brasilia. (D.C. Prodr. XV).

Acalypha Poiretii Spreng Syst. III (1826) 879.

Curaçao: W (4927*b*); Hatot (5341); Krk (5591*a*). — Aschenberg, — Suringar, — Britton & Shafer 2955.

Aruba: Bek (6429); Mirh (6445); Savw (6519).

Bonaire: Plah (7295).

St. Martin, Anguilla. (Boldingh I); St. Thomas. (Herb. Krug et Urban).

4422. **Dalechampia** Linn.

Dalechampia scandens Linn. Spec. (1753) 1054; Gris. Fl. 51. Treesdeede.

Curaçao: W₂ (5064); Sk (4974).

Bonaire: R (7112).

Antill., Amer. cont. trop., (Afr. trop. and India or.) (Symb.).

4424. **Ricinus** Linn.

Ricinus communis Linn. Spec. (1753) 1007; Gris. Fl. 37. Karpata.

Cultivated. [Indig. veris. in Africa.] (Symb.).

4433. **Jatropha** Linn.

Jatropha curcas Linn. Spec. (1753) 1006; Gris. Fl. 36. Schijtnoot.

Cultated. [Bermud., Antill., Amer. cont. trop.] (Symb.).

Jatropha gossypifolia Linn. Spec. (1753) 1006; Gris. Fl. 36. Flaira.

Curaçao: Rih (4649). — Suringar, — Lens 801, — Britton & Shafer.

Aruba: Ok₂ (6221). — Suringar.

Bonaire: R (7166).

Generally spread; on Curaçao 33 spots noted, on Aruba 15, on Bonaire 11.

Margarita. (Johnston).

Key Ins., Baham., Antill., Amer. cont. trop., Afr. occ. (Symb.).

Jatropha multifida Linn. Spec. (1753) 1000.

Cultivated. [Amer. cont. trop.] (Symb.).

Jatropha urens Linn. Spec. (1753) 1007. Bringga moosa.

Curaçao: Mok (4829); Sh (4971). — Britton & Shafer 3091.

Aruba: Hoh (6369). — Suringar.

Bonaire: Karh (7302).

On Curaçao especially frequent in the mountainous part of the Western half; 19 finding places noted; on Aruba generally spread, 11 spots noted; on Bonaire found in one place only, but there in great numbers.

Margarita. (Johnston).

Common in American tropics. (Johnston).

4444. **Manihot** Adans.

Manihot carthaginensis Müll.-Arg. in D C. Prodr. XV. 2 (1866) 1073. Bittere cassave, Cassave die moondi, Marihoeri, Yucca amaara.

Bonaire: Fk (7332); Skr (7430).

Amer. trop. centr. and austr. (Pax. Pflanzenr. IV. 147. II.).

Manihot utilissima Pohl. Plant. Bras. I (1827) p. 32 t. 24.

Cultivated. [Amer. cont. trop.] (Symb.).

4454. **Codiaeum** A. Juss.

Codiaeum variegatum Bl. Bijdr. XII (1825) 606.

Cultivated. [Ins. Sundaic.] (Symb.).

4468. **Hippomane** Linn.

Hippomane mancinella Linn. Spec. (1753) 1191; Gris. Fl. 50. Manzalienja.

Curaçao: Mo (4812). — Aschenberg, — Suringar, — Britton & Shafer 2981.

Aruba: Daz (6398).

Bonaire: Grkz (7175). — Suringar.

On Curaçao also occurring in the interior, 33 spots noted there; on Aruba 2; on Bonaire 4.

Margarita. (Johnston).

Florida austr., Baham., Antill., from Mexico to Venezuela. (Symb.).

4493. **Hura** Linn.

Hura crepitans Linn. Spec. (1753) 1008; Gris. Fl. 50. Zandkerboom.

Cultivated. [Baham., Antill., Amer. cont. trop.] (Symb.).

4498. **Euphorbia** Linn. Jeerba die leetsji.

Euphorbia adenoptera Bertol. Misc. Bot. III. 20, t. 23, vel affn.

Curaçao: Mt (4862a); St (5056); Wa₃ (5103); H₂ (5121); Jt (5424); Jt (5425). — Britton & Shafer 2920, 2950, 3141.

Am. trop. (Ind. Kew.).

Euphorbia buxifolia Lam. Encycl. II (1786) 421; Gris. Fl. 53;

Euphorbia litoralis H. B. K. Nov. Gen. II (1817) 54.

Curaçao: Suringar, — Britton & Shafer 2933.

Aruba: Ser (6511); Mansz (6554). — Suringar.

Bonaire: Okz (7237). — Suringar.

Margarita. (Johnston).

Bermud., Florida, Key Ins., Baham., Antill., Yucatan, Honduras, Venezuela, Brasilia. (Symb.).

Euphorbia cotinifolia Linn. Spec. (1753) 453; Gris. Fl. 52. Manzalienja boobo.

Curaçao: St (5051); Sik₃ (5260); Wo (5436). — Suringar.

Bonaire: Montkr (7402); Montkr (7415).

Trinidad, Venezuela, Nova Granata, Guiana. (Gris. Flor.).

Euphorbia heterophylla Linn. Spec. (1753) 453; Gris. Fl. 54.

Cultivated. [Baham., Antill., Amer. cont.] (Symb.).

Euphorbia hypericifolia Linn. Spec. (1753) 454; Gris. Fl. 54.

Curaçao: Suringar.

Aruba: Suringar.

Margarita. (Johnston).

Bermudas, Key Ins., Baham., Antill., from Mexico to Venezuela and Guiana. (Symb.).

Euphorbia hyssopifolia Linn. Syst. X ed. II (1759) 1048;
Euphorbia hypericifolia var. *hyssopifolia* Griseb. Flor. (1859) 54.
Curaçao: V (4730); Mo (4816*a*); St (5054*m*); Wa₃ (5101); Bat
 (5222); Pez (5290); Hk (5321); Ent (5434*c*); Krh C (5594); M 8; M 19. —
 Suringar, — Went 1351, — Lens 826, — Britton & Shafer 2996, 3098.
Aruba: Savh (6526).
Bonaire: Rt (7150); Bact (7473*e*).
 Antill., Amer. cont. (Symb.).

Euphorbia pilulifera Linn. Spec. (1753) 454; Gris. Fl. 54.
Curaçao: Vat (5368). — Suringar, — Lens 821.
Aruba: Siv (6315*a*). — Suringar.
 Margarita. (Johnston).
 In warmer countries of both hemisph. (Symb.).

Euphorbia thymifolia Linn. Spec. (1753) 454, vel affn.;
Euphorbia maculata var. *thymifolia* Griseb. Flor. (1859) 53.
Curaçao: St (5055); Wa₃ (5101); Hk (5131*f*); Pek (5284); Hk
 (5317); Pik (5325); Kk (5405); Pk (5469). — Suringar, — Went
 1107, — Britton & Shafer 2953.
Aruba: (5749); Ok₂ (6222); Mankz (6283); Back (6337); Camk
 (6381); Beh (6428*c*); Bez (6437); Fontz (6470); Serk (6483); Savw
 (6514). — Suringar.
Bonaire: Rk (7044); R (7179); Okz (7238); Grkz (7174*b*); Fz
 (7243); Soebh (7260); Bolko (7368); Skr (7437); Lagw (7453); Zoutz
 (7497). — Suringar.

Generally spread; 70 spots noted.

Margarita. (Johnston).

Tropical countries of both hemisph. (Symb.).

4501. **Pedilanthus** Neck.

Pedilanthus tithymaloides Poit. in Ann. Mus. Par. XIX (1812)
 390. t. 19.

Cultivated. [Florida, Baham., Antill., Venezuela.] (Symb.).

153. **Anacardiaceae.**

4545. **Mangifera** Linn.

Mangifera indica Linn. Spec. (1753) 200; Gris. Fl. 176. Manggo.
 Cultivated. [Asia austro-orient.] (Symb.).

4546. **Anacardium** Linn.

Anacardium occidentale Linn. Spec. (1753) 383; Gris. Fl. 176. Kaasjoe.

Cultivated. [In all warmer countries of America.] (Engler 1885).

4552. **Spondias** Linn.

Spondias Mombin Linn. Spec. (1753) 371;

Spondias lutea Linn. Spec. (1762) 613; Gris. Fl. 175. Hooba.

Seems to occur wild in non-calcareous regions on Curaçao; 8 spots noted.

Cultivated. [Tropical countries of both hemisph.] (Symb.).

Spondias purpurea Linn. Spec. (1762) 613; Gris. Fl. 175. Makka pruim.

Cultivated. [Antill., Mexico, Peru, Nova Granata.] (Engler 1883).

4591. **Metopium** Engl.

Metopium Brownei Urb. in Symb. Antill. V (1908) 402;

Rhus metopium Linn. Syst. X ed. II (1759) 964; Gris. Fl. 175. Manzalienja boobo.

Curaçao: Sik₂ (5203d); Hk (5311); R (5331); K (5458). — Britton & Shafer 3080.

Bonaire: Soebh (7268); Soebh (7283). — Suringar.

Occurs in Curaçao especially on high calcareous table-lands, 8 spots noted; not observed on Aruba; on Bonaire 9 places, mostly on lime.

Antill., Yucatan. (Symb.).

158. **Celastraceae.**4626. **Maytenus** Molina.

Maytenus Versluysii Boldingh (n. sp.) ramulis hornotinis angulatis; foliis 3—6 mm. longe petiolatis, obovatis vel ellipticis, basi acutis et in petiolum protractis, apice rotundatis, 4—7 cm. longis, 1,5—3 cm. latis, nervo medio supra prominente, lateralibus prominulis, subtus paullo magis prominentibus, reticulato-anastomosantibus, coriaceis, margine paullo serratis; floribus fasciculatis, pedicellis floriferis 1—4 mm. longis; petalis 1—1,5 mm. longis.

Rami vetustiores nigro-grisei. Stipulae non vidi. Folia distiche alterna, utrinque nitida. Flores 5-meri, in axillis foliorum et ad nodos defoliatos ∞; pedicelli floriferi 0,3 mm. crassi. Sepala margine imbricata ± 1 mm. longa, margine denticellata. Petala apice rotundata, 1,5 mm. longa. Filamenta 0,5

mm. longa, antherac reniformes, 0,2 mm. longae. Discus ovarium cingens, 5-gonus. Stylus nullus: stigma crasse tuberculiforme. Ovarium 2-loculare. Fructus clavatus, 1,5–2 cm. longus, 0,7–1 cm. latus, in basi longe attenuatus, dehiscens, monospermus.

Plate VI.

Curaçao: Hills along the road from Westpunt to Savonet (4949); Mount Christoffel (4998); Hills near rooi Behoenda (5508).

Bonaire: Slope of Mount Lasalle (7232); Calcareous plateau Klein Bonaire (7491) (type.).

Maytenus Sieberiana Kr. et Urb. in Symb. Ant. V (1904) 60. vel affin.

Bonaire: Joh (7199); Joh (7201); Joh (7203); Soebh (7271); Montkr (7420).

Trinidad. (Symb.).

4649*. **Rhacoma** Linn.

cf. 4649. **Myginda** Jacq.

Rhacoma crossopetalum Linn. Syst. X ed. II (1759) 896;

Myginda rhacoma Sw. Prodr. I (1788) 39; Gris. Fl. 146; Johnston 232.

Myginda pallens Smith in Rees Cycl. XXV (1813) n. 4; Gris. Fl. 146. Plaaka sjikietoe.

Curaçao: Rih (4661); Mok (4828); Mk (4887); Sik (5184); Tk (5270); Hk (5316); Vat (5350). — Suringar.

Bonaire: R (7192); Soebh (7262). — Suringar.

On Curaçao 24 places noted; not observed on Aruba; on Bonaire 8 places.

Margarita. (Johnston).

Venezuela. (Johnston); Florida austr., Key, Baham., Antill., Columbia. (Symb.).

165. Sapindaceae.

4723. **Serjania** Plum.

Serjania curassavica Radlk. in Serjan. Sapind. monographice descript. (1875) 311. Behoekoe.

Curaçao: Wo (4933); Wo (4939); Sik₂ (5246); Dh (5635). — Suringar, — Britton & Shafer 3137.

Aruba: Jam (6298); Mirh (6460). — Suringar.

Bonaire: Macb (7124). — Suringar.

On Curaçao 12 finding places noted, on Aruba 2, on Bonaire 6.

Nova Granata. (Radlk. Serjan.).

4724. **Paullinia** Linn.

Paullinia pinnata Linn. Spec. (1753) 366; Gris. Fl. 124.

Curaçao: Beh (5513).

Antill., Amer. cont. trop., Afr. trop. (Symb.).

4726. **Cardiospermum** Linn.

Cardiospermum corindum Linn. Spec. (1762) 526. Kaboeja makoeto.

Curaçao: Kk (5408); Pk (5485). — Aschenberg, — Went 1328, — Britton & Shafer 3138.

Bonaire: Rk (7067). — Suringar.

All tropical countries. (Eng. und Prantl).

4739. **Sapindus** Linn.

Sapindus saponaria Linn. Spec. (1753) 367; Gris. Fl. 126. Savonetappel.

Curaçao: Aschenberg, — Suringar.

Margarita. (Johnston).

Cultivated? [In warmer parts of Americ.] (Symb.).

4760. **Melicocca** Linn.

Melicocca bijuga Linn. Spec. (1753) 495; Gris. Fl. 127. Keneepa.

Cultivated. [Amer. trop. from Nicaragua to Surinam.] (Symb.).

4800. **Blighia** Koen.

Blighia sapida Koen. in Koen. and Sims. Ann. bot. II (1806) 571; Gris. Fl. 125.

Cultivated. [Africa.] (Ind. Kew.).

169. Rhamnaceae.

4861. **Zizyphus** Adans.

Zizyphus spina cristi Willd. Spec. Pl. I. 1105.

Cultivated. [Afr. bor., Oriens.] (Ind. Kew.).

4862. **Condalia** Cav.

Condalia Henriquezii Boldingh (n. sp.) glaberrima; ramis patentibus spinescentibus; foliis breviter petiolatis cuneato-obovatis retusis, apice breviter distincte mucronulatis, integris; fasciculis 2—vel multifloris; pedicellis calyce duplo vel triplo longioribus; drupa globosa.

Arbor, rami numerosi, crassiusculi, annotini et biennes bruneo-cinerascentes, laeves. Spinae 6 cm. longae et longiores. Folia sparsa vel fasciculata, at latera spinarum una cum floribus propullantia, 2 cm. longa, 1,3 cm. lata, basis angustata, nervis lateralibus 2 vel 3, coriacea. Stipulae petiolo breviores, sessiles, trigonae, dense tomentosae. Flores in fasciculos collecti. Alabastra mitraeformia perpauce acuminata. Pedicelli filiformes. Calyx expansus 0,6 cm. latus, laciniis patentibus, acuminatis. Discus planus pentagonus. Stamina laciniis calycinis multo breviora. Filamenta antheris duplo vel triplo longiora. Antherae ovoideae. Ovarium disco semi immersum, stylus conicus. Drupa globosa, 0,6 cm. longa.

Bessji kabrieto, Paaloe die bessji. Plate VII.

Curaçao: Calcareous hills near Malpais (4894); Hills near Siberie (4976) (type.); Calcareous hills near Siberie (5267); Calcareous soil near Knip (5580); Hills to the east of Westpunt (5441); Seashore near St. Jan (5693). — Suringar, — Britton & Shafer 3056.

Bonaire: Rincon (7063, 7060).

Occurs only on Curaçao and Bonaire, 15 finding places noted.

4875a. **Krugiodendron** Urb.

Krugiodendron ferreum Urb. Symb. Ant. III (1902) 314;

Condalia ferrea Gris. Fl. W. I. (1859) 100.

Bonaire: Fk (7334); Bolko (7369). — Suringar.

Florida, Key Ins., Baham., Antill. (Symb.).

4882. **Colubrina** L. Cl. Rich.

Colubrina reclinata Brongn. in Ann. Sc. nat. I sér. X (1827) 369; Gris. Fl. 101.

Aruba: coll. Beaujon.

Florida, Key Ins., Baham., Antill., Venezuela. (Symb.).

170. **Vitaceae.**4918. **Cissus** Linn.

Cissus sicyoides Linn. Syst. ed. X (1759) 897; Gris. Fl. 102;

Vitis sicyoides Miq. in Ann. Mus. Bot. Lugd. Bat. I (1863) 83.
Kaboeja die klimop, Kaboeja die trankeer, Kaboeja korraa, Kaboeja makoeto, Wareeroe.

Curaçao: Vw (4716); Pit (4847); C (4988). — Aschenberg, — Suringar, — Britton & Shafer 3100.

Aruba: (6214). — Suringar.

Bonaire: Gh (7193). — Suringar.

Margarita. (Johnston).

Florida, Baham., Antill., Amer. cont. trop. (Symb.).

Cissus trifoliata Linn. Syst. X ed. II (1759) 897;

Cissus acida Linn. Spec. (1762) 170; Gris. Fl. 102. Wareeroe kroes.

Aruba: (6210). — Suringar.

Florida, Antill., Nova Granata, Guiana. (Symb.).

174. Tiliaceae.

4953. **Corchorus** Linn.

Corchorus acutangulus Lam. Encycl. (1786) II. 104; Gris. Fl. 97.

Bonaire: R (7084).

Margarita. (Johnston).

Common to all tropical countries. (Johnston).

Corchorus hirsutus Linn. Spec. (1753) 530; Gris. Fl. 97.

Curaçao: Cas (4797); Beh (4921); W₂ (5066); Sik₃ (5262d); Vat (5365); Be (5400); Hwz (5563). — Britton & Shafer 3073.

Aruba: Fonth (6465); Fontz (6469); Ser (6508). — Suringar.

Bonaire: Rk (7056); Rk (7075); Okz (7236); Plh (7286). — Suringar.

Found spread on Curaçao, 37 spots noted; on Bonaire 15; only 3 on Aruba, within the Fontein district.

Margarita. (Johnston).

Baham., Antill., Afr. trop. (Symb.).

Venezuela. (Johnston).

Corchorus orinocensis H. B. K. Nov. Gen. V (1821) 337.

Curaçao: Hato (5345); Be (5396); Ent (5434). — Aschenberg, — Suringar, — Britton & Shafer 3134.

Bonaire: R (7020); R (7113).

Antill., Arizona, Mexico, Nova Granata, Venezuela, Peru, Bolivia. (Symb.).

175. **Malvaceae.**4983. **Abutilon** Adans.

Abutilon hirtum Sweet. Hort. Brit. I ed. I (1826) 53;

Abutilon indicum var. *hirtum* Griseb. Flor. (1859) 78.

Curaçao: Suringar.

Aruba: locality unknown.

Florida, Key Ins., Antill., Peru, Afr. trop., Asia austro-orient.
(Symb.).

Abutilon umbellatum Sweet. Hort. Brit. I ed. I (1826) 53; Gris.
Fl. 78.

Curaçao: Vw (4718); Mo (4810); Mo (4811); Sc (4984); A (5150);
Bat (5235); Krh C (5607). — Suringar, — Britton & Shafer.

Aruba: (5751*b*); — L (6253). — Suringar.

Bonaire: R (7015). — Suringar.

Margaritã. (Johnston).

Antill., Mexico, Nova Granata. (Symb.).

4995. **Malvastrum** A. Gray.

Malvastrum coromandelianum Garcke in Bonplandia V (1857) 295;

Malvastrum tricuspdatum A. Gray Pl. Wright. I (1852) 16;
Gris. Fl. 72.

Curaçao: Hato (5347). — Suringar.

Tropical countries of both hemisph. (Symb.).

Malvastrum spicatum A. Gray in Mem. Am. Acad. N. S. IV
(1849) 22; Gris. Fl. 72. Jeerba die sjon ija, Jeerba gra-
watadoo, Leleeko.

Curaçao: Rud (4610); Mo (4809); Wa₃ (5105*b*); A (5151*a*); Bat
(5237); Vat (5354*b*). — Aschenberg, — Suringar, — Went 1348, —
Lens 703, 828; — Britton & Shafer 2959.

Aruba: Siv (6327); Suph (6404); Mirh (6445*b*); Mirh (6453*e*). —
Suringar.

Bonaire; R (7012); R (7024). — Suringar.

Spread; on Curaçao 11 places noted, on Aruba 4, on Bonaire 6.

Margarita. (Johnston).

Tropical countries of both hemisph. (Symb.).

4998. **Sida** Linn.

Sida acuta Burm. Flor. Ind. (1768) 147;

Sida carpinifolia Linn. fl. Suppl. (1781) 307; Gris. Fl. 73; Boldingh I 127.

Curaçao: Aschenberg.

Margarita. (Johnston).

In warmer countries of both hemisph. (Symb.).

Sida ciliaris Linn. Syst. Ed. X (1759) 1145; Gris. Fl. 73.

Curaçao: V (4723); S (5034); Wa₃ (5105*d*); Pih (5328*a*). — Suringar, — Britton & Shafer 3125.

Aruba: locality unknown. — Suringar.

Margarita. (Johnston).

In tropical America. (Symb.).

Sida procumbens Sw. Prodr. (1788) 101;

Sida supina l'Hér. Stirp. Nov. (1789) 109 bis; Gris. Fl. 75; Boldingh I 129.

Curaçao: V (4725); Bh (4770*a*); Mok (4818); S (5033); Wa₃ (5105*c*). — Aschenberg, — Suringar, — Lens 704, — Britton & Shafer 3048.

Aruba: (6204); Siv (6306); Bek (6421); Mirh (6453*g*); Mansz (6557). — Suringar.

On Curaçao 19 finding places noted, on Aruba 4, on Bonaire 10.

Key Ins., Baham., Antill., from Mexico to Venezuela. (Symb.).

Sida spinosa Linn. Spec. (1753) 683; Gris. Flor. 74. Jeerba foekoe.

Curaçao: Cas (4805); Mok (4817); St (5060). — Aschenberg, — Suringar, — Went 1343, — Britton & Shafer 2921, 3007.

Aruba: Suringar.

Bonaire: R (7032); R (7085). — Suringar.

Asia, Africa, America. (E. u. P.).

Sida spinosa var. **angustifolia** Griseb. Fl. W. I. 74;

Sida angustifolia Lam. Encycl. vol. I (1783) 4. Bassoor a pleintsji, Foengfoeng homber.

Curaçao: Mo (4815*a*); St (5054*p*); Si (5195); Pe (5307). — Aschenberg, — Suringar.

Aruba: Ok₂ (6234); Siv (6321); Mirh (6445*g*); Mirh (6452*a*).

Bonaire: R (7101).

Margarita. (Johnston).

Trop. countries of both hemisph. (Johnston).

5001. **Bastardia** H. B. K.

Bastardia viscosa H. B. K. Nov. Gen. V (1821) 199; Gris. Fl. 80.

Curaçao: Vw (4720); Bh (4760); S (5031); A (5157); Bat (5236); Vat (5354 a). — Suringar, — Britton & Shafer 2976.

Aruba: Mirh (6457). — Suringar.

Bonaire: R (7006); Karh (7305). — Suringar.

29 Finding places noted.

Margarita. (Johnston).

Baham., Antill., from Mexico to Peru. (Symb.).

Venezuela. (Johnston).

5005. **Malachra** Linn.

Malachra alceifolia Jacq. Coll. II (1788) 350. Giamba sjimarón.

Curaçao: S₂ (5047); Bat (5229); Hatot. — Britton & Shafer 3075.

Aruba: Fontt (6475 d).

Bonaire: (7325).

Antill., from Panama to Guiana. (Symb.).

5006. **Urena** Linn.

Urena lobata Linn. Spec. (1753) 692; Gris. Fl. 81.

Aruba: locality unknown.

Warmer countries of both hemisph. (Symb.).

5013. **Hibiscus** Linn.

Hibiscus brasiliensis Linn. Spec. (1763) 977;

Hibiscus phoeniceus Jacq. Hort. Vind. III (1776) 11 t. 14; Gris. Fl. 85.

Curaçao: Vw (4709); Mok (4822); A (5144); A (5156). — Suringar, — Britton & Shafer.

Baham., Antill., Amer. centr., Nova Granata, Venezuela, Guiana. (Symb.)

Hibiscus esculentus Linn. Spec. (1753) 696. Giamba.

Cultivated. [Tropical countries of the Old World.] (Symb.).

Hibiscus Rosa-sinensis Linn. Spec. (1753) 694.
Cultivated. [Asia trop.] (Symb.).

5018. **Thespesia** Soland.

Thespesia populnea Soland. ex Corra in Ann. Mus. Par. IX (1807) 290; Gris. Fl. 87. Otaheite.

Curaçao: Rif (4642). — Aschenberg, — Suringar.
Margarita. (Johnston).
All tropical countries. (Johnston).

5019. **Cienfuegosia** Cav.

Cienfuegosia heterophylla Garcke in Bonplandia vol. 8. (1860) 150.

Aruba: Camk (6383).
Margarita. (Johnston).
Brazilia, **Venezuela**, **Columbia**, **Peruvia**, **Antill.**, **Florida**. (Gürke in Mart. Flor. Bras. XII).

5020. **Gossypium** Linn.

Gossypium hirsutum Linn. Spec. (1763) 975. Katoena.

Curaçao: Be (5395).
Aruba: locality unknown.
Bonaire: Montkr (7391).
Antill. (Symb.).

177. Bombacaceae.

5026. **Ceiba** Médik.

Ceiba pentandra Gärtner. Fruct. II (1791) 244 t. 133;
Eriodendron anfractuosum DC. Prodr. I (1824) 479; Gris. Fl. 88. Katoenboom.
Cultivated. [Amer. trop., Afr. trop., Asia trop.] (Symb.).

5034. **Ochroma** Swartz.

Ochroma lagopus Sw. Prodr. (1788) 98; Gris. Fl. 88.
Cultivated. [From Mexico to Bolivia.] (Symb.).

178. Sterculiaceae.

5057. **Melochia** Linn.

Melochia pyramidata Linn. Spec. (1753) 774; Gris. Fl. 93.

Curaçao: Symb.

In warmer countries of both hemisph. (Symb.).

Melochia tomentosa Linn. Syst. ed. X (1759) 1140; Gris. Fl. 93. *Bassoora korraa*, *Betoonika*.

Curaçao: Vp (4743); Bh (4759c); Hh (5130); Si (5192); Vat (5354); Hwk (5565). — Suringar, — Lens 814, — Britton & Shafer 2913.

Aruba: Ok₂ (6243); Mirh (6461); Nick (6498). — Suringar.

Bonaire: R (7010); Pl h (7287); Montkr (7418). — Suringar.

Spread; 80 finding places noted.

Margarita. (Johnston).

Baham., Antill., Amer. cont. trop. (Symb.).

5059. **Waltheria** Linn.

Waltheria americana Linn. Spec. (1753) 673; Gris. Fl. 95;

Waltheria indica Linn. Spec. (1753) 673. *Jeerba die leeba*.

Curaçao: St (5057); Jt (5426); Krh C (5603); (5730).

Bonaire: R (7116); Zoutkg (7502). — Suringar.

6 Finding places noted on Curaçao and Bonaire each; not observed on Aruba.

Margarita. (Johnston).

In all warmer countries of both hemisph. (Symb.).

5063. **Ayenia** Loefl.

Ayenia magna Linn. Syst. ed. X. (1759) 1247; Gris. Fl. 91.

Curaçao: Vw (4703); Bh (4759); Vat (5098). — Aschenberg, — Suringar, — Britton & Shafer 3118.

Bonaire: R (7099); Montkr (7405).

On Curaçao 18 finding places noted, on Aruba 1, on Bonaire 3.

Jamaica, Mexico, Yucatan, Venezuela. (Gris. Fl.).

5069. **Guazuma** Adans.

Guazuma ulmifolia Lam. Enc. III (1789) 52; Gris. Fl. 91. *Goeaazoema*.

Cultivated. [Amer. trop.] (Symb.).

187. Guttiferae.5176. **Mammea** Linn.

Mammea americana Linn. Spec. (1753) 512; Gris. Fl. 108.
Mammeia.

Cultivated. [Baham., Antill., Nova Granata, Guiana, cultivated in tropical countries of both hemisph.] (Symb.).

5181. **Clusia** Linn.

Clusia rosea Jacq. Enum. Pl. Carib. (1760) 34; Gris. Fl. 107.
Dam maatsjoe, Koetsjoe, Kopijk, Tam maatsjoe.

Curaçao: C (5018).

Bonaire: Fk (7336); Fk (7338); Fk (7343).

Baham., Antill., Panama, Venezuela. (Symb.).

195. Cochlospermaceae.5251. **Amoreuxia** Moç. et Sessé.

Amoreuxia palmatifida Moç. et Sessé ex D C. Prodr. II (1825) 638;

Amoreuxia Schiedeana Planch. in Hook. Lond. Journ. Bot. (1846) 140. t. 1;

Euryanthe Schiedeana Cham. et Schlechtd. in Linnaea V (1830) 224. Manoeeweeri.

Curaçao: Sk (5045); Sk (5046).

Amer. bor. (Ind. Kew.); Mexico. (Cham. et Schlechtd. l. c.).

199. Flacourtiaceae.5337. **Samyda** Linn.

Samyda dodecandra Jacq. Enum. (1760) 21;

Samyda serrulata Linn. Spec. (1762) 558; Gris. Fl. 25;
Boldingh I 136.

Curaçao: Wo (4938); Wd (4941); Beh (5530).

Bonaire: Soebh (7269).

Antill. (Symb.).

5343. **Casearia** Jacq.

Casearia bonaiensis Boldingh. (n. sp.) inermis, ramis glabris, stipulis filiformis 0,5 cm. longis; foliis 1—1,7 cm. longe petiolatis,

ellipticis, basi et apice acuminatis, 4—9 cm. longis, 2,5—5 cm. latis, margine crenulatis, maturis rigide coriaceis; inflorescentiis axillaribus, corymbose 3—6 floris, pedicellis 1,5 cm. longis, supra basin articulatis; calyce 0,7—0,8 cm. longo, in $\frac{1}{5}$ alt. gamosépalo, lobis cucullatis; staminibus circ. 12 ex ore tubi calycinis abeuntibus; staminodiis cum staminibus insertis iisque alternantibus, pilosulis; ovario fusiforme, stylo duplo longiore, stigmatate capitato; fructu globoso 3—4 cm. longo et crasso.

Frutex vel arbor parvus, rami vetustiores grisei vel brunei. Folia coriacea, nervo medio supra immerso, subtus prominente, lateralibus 4—12 prominulis, adulte nitida. Pedunculus parvus, bracteeae 0,3 cm. longae; pedicelli ca. 0,1 cm. supra basin articulati. Calyx glaberrimus. Stamina et staminodia perigyna; filamenta 0,4—0,5 cm. longa, glaberrima; antherae basi affixae 0,15 cm. longae. Staminodia 0,05 cm. longa et lata, dense pilosa. Ovarium 0,2 cm. longum, longiscule pilosum; stylus 0,1 cm. longus. Fructus exocarpio carnosio, 3—4 cm. longus. Semina numerosa, 0,5 cm. longa.

Paaloe die Bonaire, Geelhout. Plate VIII.

Curaçao: Hills near Rif (4696); Hills to the east of Westpunt (4942) (type). — Suringar, — Britton & Shafer 3055.

Aruba: Slope of Hooiberg (6366). — Suringar.

Bonaire: Rincon (7038). — Suringar.

On Curaçao 30 finding places noted; not seen eastward of the Schottegat; on Aruba 18, on Bonaire 16 places.

201. Turneraceae.

5357. *Piriqueta* Aubl.

Piriqueta ovata Urb. Turner. Jahrb. Bot. Gart. u. Mus. Berlin II. (1883) 76.

Curaçao: Vp (4744); Mo (4816f); St (5059); Vat (5097a); Aw (5164a). — Suringar, — Britton & Shafer 2967.

Bonaire: R (7030); R (7382); PRw (7350).

Portorico, Hispaniola. (Symb.).

5360. *Turnera* Linn.

Turnera pumilea Linn. Syst. X ed. II (1759) 965; Gris. Fl. 297.

Curaçao: Vat (5097b); Bah (5172). — Suringar, — Britton & Shafer 3049.

Aruba: Mirh (6453c); Savk (6543).

Portorico, Cuba, Pinos, Jamaica, Amer. austr. (Symb.).

Turnera ulmifolia Linn. Spec. (1753) 271; Gris. Fl. 296.

Curaçao: Wo (5452). — Suringar, — Britton & Shafer 3155.
Margarita. (Johnston).

Antill., from Amer. centr. to Guiana. (Symb.).

203. Passifloraceae.

5372. **Passiflora** Linn.

Passiflora foetida Linn. Spec. (1753) 959; Gris. Fl. 294. Bel
appel, Koroona die la birgi, Kruizebloem, Maraaka,
Markoesa, Sjonsjon, Sosoro.

Curaçao: Vw (4701); Hz (5108). — Suringar, — Britton &
Shafer 2970.

Aruba: (6216). — Suringar.

Bonaire: R (7107); Montkr (7407). — Suringar.

17 Finding places noted.

Margarita. (Johnston).

Baham., Antill., warmer countries of America, Afr. trop.,
Asia austro-orient. (Symb.).

Passiflora suberosa Linn. Spec. (1753) 958; Gris. Fl. 290. Bessji
die tinta, Nehoeba.

Curaçao: V (4726); W (4926); Wa₃ (5107). — Britton & Shafer 2975.

Aruba: Savw (6515).

Bonaire: Rk (7042); Soebh (7263); Montkr (7396).

17 Finding places noted.

Florida austr., Key Ins., Baham., Antill., Amer. cont. trop.
to Argentina. (Symb.).

205. Caricaceae.

5377. **Carica** Linn.

Carica Papaya Linn. Spec. (1753) 1026. Papay.

Cultivated. [Patria ignota.] (Symb.).

206. Loasaceae.

5383. **Mentzelia** Linn.

Mentzelia aspera Linn. Spec. (1753) 516; Gris. Fl. 298. A mooro

falso, Daalpeega, Moora, Peega peega, Peega saaja sjimarón, Pessji pessji.

Curaçao: Cas (4802); Wk (4957); Aw (5140); Ent (5432); Kit (5538); Kit (5542); M 4. — Aschenberg, — Suringar, — Leñs 840, — Britton & Shafer 2914.

Aruba: Ok₂ (6237). — Suringar.

Bonaire: Suringar.

17 Finding places noted in all, of which 2 on Bonaire.

Margarita. (Johnston).

Antill., warmer countries of Amer. cont. (Symb.).

210. Cactaceae.

5401. *Cereus* Mill.

Cereus griseus Haw. Syn. Pl. Succ. (1812) 182;

Lemairocereus griseus Britton & Rose in Contr. U. St. Nat. Herb. vol. XII (1909). Daatoe, Kadoesji, Jaatoe.

Curaçao: {

Aruba: {

Bonaire: }

Widely dispersed over the three Islands.

Margarita. (Johnston).

Mexico, Venezuela. (Schumann Mon. Cact.).

Cereus Napoleonis Grah. in Bot. Mag. t. 3458.

Aruba: only seen and collected near Tankie Leendert.

Antill. (Schumann Mon. Cact.).

Cereus repandus Haw. Syn. Pl. Succ. (1812) 183;

Cereus Hermannianus Suringar in Melocacti Novi. in Versl. en Med. Kon. Akad. 3^e Reeks. Deel II (1865) 194. Kadoesji.

Curaçao: {

Aruba: {

Bonaire: }

Widely dispersed over the three Islands.

5403. *Cephalocereus* Pfeiff.

Cephalocereus lanuginosus Britton & Rose in Contr. U. S. Nat. Herb. vol. XII (1909). Breebee die poesji, Kadoesji die poesji, Kadoesji spanjool.

Curaçao: {

Aruba: {

Bonaire: }

Dispersed over the three Islands, but not in such quantities like the two *Cereus* species.

5409. **Melocactus** Link et Otto.¹⁾

Boesji, Kabeez indian, Kabeez inglees, Melon die seeroe.

Melocactus aciculosus J. V. Suringar in Contributions Melocactus (1901) 23.

Curaçao.

Melocactus albispinus W. F. R. Suringar in Melocacti novi (1889) 446.

Aruba.

Melocactus albispinus forma **quadrispina** W. F. R. Suringar in Melocacti novi (1889) 446.

Aruba.

Melocactus appropinquatus J. V. Suringar in Contributions Melocactus (1901) 20.

Curaçao.

Melocactus approximatus W. F. R. Suringar in Melocacti novi (1885) 189.

Aruba.

Melocactus arcuatus W. F. R. Suringar in Melocacti novi (1889) 450.

Aruba.

Melocactus argenteus W. F. R. Suringar in Melocacti novi (1889) 439.

Aruba.

Melocactus argenteus var. **tenuispina** W. F. R. Suringar in Melocacti novi (1889) 439.

Aruba.

Melocactus armatus W. F. R. Suringar in Melocacti novi (1889) 458.

Aruba.

Melocactus Baarsianus W. F. R. Suringar in Melocacti novi (1889) 448.

Aruba.

Melocactus Bargei J. V. Suringar in Contributions Melocactus (1901) 9.

Curaçao.

¹⁾ I did not study the species of *Melocactus* but compiled this enumeration from the quoted publications of W. F. R. and J. V. Suringar.

Melocactus Besleri Miq. in Monogr. Generis Melocacti. (1841).
Aruba.

Melocactus Buysianus J. V. Suringar in Contributions Melocactus (1901) 38.
Curaçao.

Melocactus capillaris W. F. R. Suringar in Melocacti novi (1889) 442.
Aruba.

Melocactus communiformis W. F. R. Suringar in Vijfde Bijdrage tot de kennis der Melocacti (1897) 186.
Curaçao.

Melocactus compactus W. F. R. Suringar in Melocacti novi (1889) 444.
Aruba.

Melocactus (radiatus) contortus W. F. R. Suringar in Melocacti novi (1889) 445.
Aruba.

Melocactus cordatus J. V. Suringar in Nouvelles Contributions Melocactus (1910) 5.
Aruba.

Melocactus cornutus W. F. R. Suringar in Melocacti novi (1885) 191.
Curaçao.

Melocactus cylindricus J. V. Suringar in Nouvelles Contributions Melocactus (1910) 19.
Curaçao.

Melocactus (stellatus) dilatatus W. F. R. Suringar in Melocacti novi (1889) 454.
Aruba.

Melocactus dilatatus var. **leucanthus** W. F. R. Suringar in Melocacti novi (1889) 454.
Aruba.

Melocactus eburneus W. F. R. Suringar in Melocacti novi (1889) 447.
Aruba.

Melocactus eburneus forma **plurispina** W. F. R. Suringar in Melocacti novi (1889) 447.

Aruba.

Melocactus elongatus W. F. R. Suringar in Melocacti novi (1889) 451.

Aruba.

Melocactus euryacanthus W. F. R. Suringar in Melocacti novi (1889) 447.

Aruba.

Melocactus Evertszianus W. F. R. Suringar in Melocacti novi (1885) 190.

Aruba.

Melocactus exsertus W. F. R. Suringar in Vijfde Bijdrage tot de kennis der Melocacti (1897) 189.

Curaçao.

Melocactus exsertus forma **plurispina** W. F. R. Suringar in Vijfde Bijdrage tot de kennis der Melocacti (1897) 189.

Curaçao.

Melocactus extensus W. F. R. Suringar in Melocacti novi (1889) 442.

Aruba.

Melocactus (rubellus) ferox W. F. R. Suringar in Melocacti novi (1885) 185.

Aruba.

Melocactus (rubellus) ferus W. F. R. Suringar in Melocacti novi (1889) 444.

Aruba.

Melocactus firmus J. V. Suringar in Contributions Melocactus (1901) 17.

Curaçao.

Melocactus flammeus W. F. R. Suringar in Melocacti novi (1889) 457.

Aruba.

Melocactus (stellatus) flavispinus W. F. R. Suringar in Melocacti novi (1889) 453.

Aruba.

Melocactus flexilis W. F. R. Suringar Melocacti novi (1889) 453.
Aruba.

Melocactus flexus W. F. R. Suringar in Melocacti novi (1889) 441.
Aruba.

Melocactus gilvispinus J. V. Suringar in Contributions Melocactus (1901) 28.
Curaçao.

Melocactus gracilis J. V. Suringar in Nouvelles Contributions Melocactus (1910) 16.
Curaçao.

Melocactus grandis J. V. Suringar in Nouvelles Contributions Melocactus (1910) 11.
Curaçao.

Melocactus grandispinus J. V. Suringar in Nouvelles Contributions Melocactus (1910) 12.
Curaçao.

Melocactus grollianus W. F. R. Suringar in Vijfde Bijdrage tot de kennis der Melocacti (1897) 190.
Curaçao.

Melocactus (rubellus) hexacanthus W. F. R. Suringar in Melocacti novi (1885) 185.
Aruba.

Melocactus humilis J. V. Suringar in Nouvelles contributions Melocactus (1910) 17.
Aruba.

Melocactus incurvus W. F. R. Suringar in Melocacti novi (1889) 441.
Aruba.

Melocactus incurvus var? **nanus** W. F. R. Suringar in Melocacti novi (1889) 441.
Aruba.

Melocactus (stellatus?) inflatus W. F. R. Suringar in Melocacti novi (1889) 454.
Aruba.

Melocactus intermedius W. F. R. Suringar in Melocacti novi (1885) 192.
Curaçao.

Melocactus intermedius var. **laticostatus** J. V. Suringar in Contributions Melocactus (1901) 15.

Curaçao.

Melocactus intermedius var. **rotundatus** J. V. Suringar in Nouvelles Contributions Melocactus (1910) 9.

Curaçao.

Melocactus intermedius var. **tenuispinus** J. V. Suringar in Contributions Melocactus (1901) 17.

Curaçao.

Melocactus inversus J. V. Suringar in Contributions Melocactus (1901) 19.

Curaçao.

Melocactus Koolwijkianus W. F. R. Suringar in Melocacti novi (1885) 184.

Aruba.

Melocactus Koolwijkianus var. **adustus** W. F. R. Suringar in Melocacti novi (1889) 438.

Aruba.

Melocactus Koolwijkianus forma **4-spina** W. F. R. Suringar in Melocacti novi (1889) 438.

Aruba.

Melocactus Koolwijkianus forma **plurispina** W. F. R. Suringar in Melocacti novi (1889) 439.

Aruba.

Melocactus limis W. F. R. Suringar in Melocacti novi (1889) 440.

Aruba.

Melocactus Lehmannii Miq. Monogr. Gen. Melocacti (1841) 71.

Curaçao.

Melocactus lutescens J. V. Suringar in Nouvelles Contributions Melocactus (1910) 13.

Curaçao.

Melocactus macracanthus forma **elegans** W. F. R. Suringar in Melocacti novi (1885) 191.

Bonaire.

Melocactus macracanthus var. **miacanthus** J. V. Suringar in Contributions Melocactus (1901) 30.

Curaçao.

Melocactus martialis W. F. R. Suringar in *Melocacti novi* (1889) 443.

Aruba.

Melocactus microcarpus J. V. Suringar in *Nouvelles Contributions Melocactus* (1910) 3.

Aruba.

Melocactus microcephalus var. **olivascens** W. F. R. Suringar in *Melocacti novi* (1889) 461.

Curaçao.

Melocactus Monvilleanus Miq. in *Nov. Act. Nat. Cur.* XVIII. Suppl. 1 (1841) 113.

Aruba.

Melocactus obliquus W. F. R. Suringar in *Melocacti novi* (1889) 440.

Aruba.

Melocactus obliquus forma **4-spina** W. F. R. Suringar in *Melocacti novi* (1889) 440.

Aruba.

Melocactus obovatus W. F. R. Suringar in *Melocacti novi* (1889) 453.

Aruba.

Melocactus ovatus W. F. R. Suringar in *Melocacti novi* (1889) 456.

Aruba.

Melocactus parvispinus W. F. R. Suringar in *Melocacti novi* (1885) 183.

Bonaire.

Melocactus patens W. F. R. Suringar in *Melocacti novi* (1885) 190.

Bonaire.

Melocactus pentacanthus W. F. R. Suringar in *Melocacti novi* (1889) 445.

Aruba.

Melocactus pinguis J. V. Suringar in *Contributions Melocactus* (1901) 11.

Curaçao.

Melocactus pinguis var. **areolosus** J. V. Suringar in *Nouvelles Contributions Melocactus* (1910) 7.

Curaçao.

Melocactus pinguis var. **laticostatus** J. V. Suringar in Nouvelles Contributions Melocactus (1910) 19.

Curaçao.

Melocactus pinguis var. **planispinus** J. V. Suringar in Nouvelles Contributions Melocactus (1910) 15.

Curaçao.

Melocactus pinguis var. **tenuissimus** J. V. Suringar in Nouvelles Contributions Melocactus (1910) 20.

Curaçao.

Melocactus pulvinosus W. F. R. Suringar in Melocacti novi (1889) 458.

Aruba.

Melocactus pusillus W. F. R. Suringar in Melocacti novi (1885) 192.

Curaçao.

Melocactus pyramidalis Salm-Dyck. Obs. bot. p. 4.

Curaçao.

Melocactus pyramidalis var. **compressus** J. V. Suringar in Nouvelles Contributions Melocactus (1910) 4.

Curaçao.

Melocactus pyramidalis var. **costis angustioribus** J. V. Suringar in Contributions Melocactus (1901) 35.

Curaçao.

Melocactus pyramidalis var. **pumilus** W. F. R. Suringar in Vijfde Bijdrage tot de kennis der Melocacti (1897) 191.

Curaçao.

Melocactus radiatus W. F. R. Suringar in Melocacti novi (1889) 446.

Aruba.

Melocactus rectiusculus W. F. R. Suringar in Melocacti novi (1885) 187.

Aruba.

Melocactus reticulatus W. F. R. Suringar in Melocacti novi (1889) 453.

Aruba.

Melocactus reversus W. F. R. Suringar in Melocacti novi (1885) 187.

Aruba.

Melocactus roseus W. F. R. Suringar in *Melocacti novi* (1889) 439.
Aruba.

Melocactus rotatus W. F. R. Suringar in *Vijfde Bijdrage tot de kennis der Melocacti* (1897) 191.
Aruba.

Melocactus rotifer W. F. R. Suringar in *Vijfde Bijdrage tot de kennis der Melocacti* (1897) 188.
Curaçao.

Melocactus rotifer var. **angustior** J. V. Suringar in *Nouvelles Contributions Melocactus* (1910) 14.
Curaçao.

Melocactus rotula W. F. R. Suringar in *Vijfde Bijdrage tot de kennis der Melocacti* (1897) 186.
Curaçao.

Melocactus rotula var. **angusticostata** J. V. Suringar in *Nouvelles Contributions Melocactus* (1910) 8.
Curaçao.

Melocactus rotula var. **validispinus** J. V. Suringar in *Nouvelles Contributions Melocactus* (1910) 10.
Curaçao.

Melocactus rubellus W. F. R. Suringar in *Melocacti novi* (1885) 184.
Aruba.

Melocactus rudis W. F. R. Suringar in *Melocacti novi* (1889) 442.
Aruba.

Melocactus Salmianus var. **adauctus** W. F. R. Suringar in *Melocacti novi* (1889) 460.
Aruba.

Melocactus Salmianus var. **aciculosus** W. F. R. Suringar in *Vijfde Bijdrage tot de kennis der Melocacti* (1897) 187.
Curaçao.

Melocactus Salmianus var. **spectabilis** J. V. Suringar in *Contributions Melocactus* (1901) 22.
Curaçao.

Melocactus (stellatus?) sordidus W. F. R. Suringar in *Melocacti novi* (1889) 451.
Aruba.

Melocactus spatanginus W. F. R. Suringar in *Melocacti novi* (1885) 193.

Bonaire.

Melocactus spatanginus forma **tenuispina** W. F. R. Suringar in *Melocacti novi* (1885) 194.

Curaçao.

Melocactus stellatus W. F. R. Suringar in *Melocacti novi* (1889) 452.

Aruba.

Melocactus stramineus W. F. R. Suringar in *Melocacti novi* (1885) 185.

Aruba.

Melocactus tenuissimus J. V. Suringar in *Nouvelles Contributions Melocactus* (1910) 6.

Curaçao.

Melocactus trachycephalus W. F. R. Suringar in *Melocacti novi* (1889) 455.

Aruba.

Melocactus (stramineus) trichacanthus W. F. R. Suringar in *Melocacti novi* (1885)-186.

Aruba.

Melocactus trigonaster J. V. Suringar in *Nouvelles Contributions Melocactus* (1910) 4.

Curaçao.

Melocactus trigonus W. F. R. Suringar in *Melocacti novi* (1889) 456.

Aruba.

Melocactus uncinatus W. F. R. Suringar in *Melocacti novi* (1889) 450.

Aruba.

Melocactus Zuccarini Miq. in *Linnaea* XI 345. (ex. Schumann).

Curaçao.

5411. **Mamillaria** Haw.

Mamillaria simplex Haw. *Suppl.* 71 (1819); *Gris. Fl.* 300.

Curaçao: Britton & Shafer 3085.

Margarita. (Johnston).

Antill., Venezuela. (*Gris. Fl.*).

5417. **Opuntia** Mill.

Opuntia curassavica Mill. Gard. Dict. ed. VIII n. 7. Juffrouw, Kalieber, Kaaka die poesji.

Curaçao: Blt (4900); S (5028).

Aruba: Cank (6377).

Bonaire: locality unknown.

Widely dispersed on the three Islands.

Antill. (Schumann Monogr. Cact.).

Opuntia tunoides Britton et Rose in manuscr. Juffrouw, Friekampeeuw, Sjangran, Toena, Toena spanjool.

Curaçao: } Widely dispersed over the three Islands.

Aruba: } Type, Britton & Shafer 2904.

Bonaire: }

Opuntia elatior Mill. Dict. VIII. n. 4;

Tuna elatior, spinis validis nigricantibus, in Dill. Hort. Eltham. p. 395, t. 294.

Curaçao: } Not widely dispersed.

Bonaire: }

5421. **Peireskia** Mill.

Peireskia bleo D C. Prodr. III (1828) 475. Goeamaatsjoe.

Cultivated. [Nova Granata, Brasilia.] (Schumann Monogr. Cact.).

216. **Lythraceae.**5474. **Ammannia** Linn.

Ammannia auriculata Willd. Hort. Berol. I (1806) t. 7.

Bonaire: Rk (7153); R (7233); Bonk (7486).

In warmer countries of both hemisph. (Koehne Pflanzenr. IV. 216).

Ammannia coccinea Rottb. Plant. hort. Univ. Havn. Progr. descr. (1773) 7.

Curaçao: Britton & Shafer 3010.

America and Asia. (Koehne Pflanzenr. IV. 216).

Ammannia latifolia Linn. Spec. (1753) 119; Gris. Fl. 270.

Curaçao: Bat (5226).

Bonaire: Macb (7122); Plah (7296).

Warmer and tropical countries of America. (Symb.).

5494. **Lawsonia** Linn.

Lawsonia inermis Linn. Spec. (1753) 349. Reseda.
Cultivated. [Africa, Asia, Australia.] (Koehne 1903).

218. Punicaceae.

5501. **Punica** Linn.

Punica Granatum Linn. Spec. (1753) 472. Granaatappel.
Cultivated. [Mediterran. countries.] (Symb.).

220. Rhizophoraceae.

5523. **Rhizophora** Linn.

Rhizophora Mangle Linn. Spec. (1753) 443; Gris. Fl. 274.
Manggel tán.

Curaçao: Suringar.

Aruba: Mansz (6555).

Bonaire: Lack (7480).

7 Finding places noted.

Margarita. (Johnston).

Amer. trop., Afr. occ. trop. (Symb.).

221. Combretaceae.

5541. **Quisqualis** Linn.

Quisqualis indica Linn. Spec. (1762) 556.
Cultivated. [Asia austro-orient., Philipp., Afr. occid.] (Symb.).

5544. **Terminalia** Linn.

Terminalia Catappa Linn. Mant. II (1771) 519. Wilde amandel.
Cultivated. [Malay. Ins.] (Symb.).

5548. **Conocarpus** Gärtn.

Conocarpus erectus Linn. Spec. (1753) 76; Gris. Fl. 277. Grije manggel, Manggel, Manggel blanko, Witte manggel.

Curaçao: Mk (4892); Vat (5366); Cak (5411); Pk (5484). —
Suringar, — Went 1325.

Aruba: Mankz (6285).

Bonaire: Grkz (7178). — Suringar.

Margarita. (Johnston).

Amer. trop., Galapagos, Afr. trop. occ. (Symb.).

5551. **Laguncularia** Gärtn.

Laguncularia racemosa Gärtn. f. Fruct. III (1805) 209, t. 217, f. 2; Gris. Fl. 276.

Curaçao: Vht (5363). — Suringar, — Britton & Shafer 2937.

Aruba: Mankz (6287).

Bonaire: R (7185).

8 Finding places noted.

Margarita. (Johnston).

Amer. trop., Afr. trop. occ. (Symb.).

222. Myrtaceae.

5559. **Psidium** Linn.

Psidium Guajava Linn. Spec. (1753) 470. Goeajaaba.
Cultivated. [Amer. trop.] (Symb.).

5578. **Eugenia** Linn.

Eugenia javanica Lam. Dict. III. 200. Kaasjoe die Surinaam.
Cultivated. [Ind. orient.].

224. Oenotheraceae.

5791. **Jussieua** Murr.

Jussieua erecta Linn. Spec (1753) 388;

Jussieua acuminata Sw. Flor. II (1800) 745; Gris. Fl. 272.

Bonaire: Zkr (7337).

Tropical countries of Africa and America. (Symb.).

228. Umbelliferae.5893. **Hydrocotyle** Linn.**Hydrocotyle hirsuta** Sw. Prodr. (1788) 54.

Curaçao: (Symb.).

Baham., Antill., Brasilia. (Symb.).

235a. Theophrastaceae.6282. **Jacquinia** Linn.**Jacquinia barbasco** Mez. in Pflanzenr. (1903) 32;*Jacquinia armillaris* Jacq. Enum. Pl. Carib. (1760) 15; Gris. Fl. 397; Boldingh I 150. Mata piskaa, Paaloe hóekoe, Sjiengool, Steenhout.Curaçao: Wk (4954); C (5006); Sk (5042); Hk (5075); H₂ (5121c); Hz (5135); Sik₃ (5257); Sik₃ (5262a); Fk (5271); K (5459). — Aschenberg, — Suringar, — Went 1323, — Britton & Shafer 3029.

Aruba: Fonth (6469); Serk (6483).

Bonaire: Suringar.

Spread; on Curaçao 16 spots noted, on Aruba 7, on Bonaire 9.

Antill. (Symb.).

239. Sapotaceae.6361. **Achras** Linn.**Achras sapota** Linn. Syst. X ed. II (1759) 988;*Sapota Achras* Mill. Gard. Dict. VIII ed. (1768) n. 1; Gris. Fl. 399. Mispoe.

Cultivated. [Cultiv. in trop. countries of both hemisph.] (Symb.).

6374. **Bumelia** Sw.**Bumelia obovata** A. DC. Prodr. VIII (1844) 191;*Bumelia cuneata* Sw. Flor. I (1797) 496; Gris. Fl. 401; Johnston (Margarita). Paaloe die leetsji, Paaloe ploeta, Raambessji.Curaçao: Mah (4854); Wk (4951); C (5017); Hk (5132); Hk (5310); Hk (5312); Ch₂ (5419); K (5453); K (5455). — Suringar, — Britton & Shafer 3109.

Aruba: Mand (6289); Nick (6494).

Bonaire: Montkr (7422); Okz (7235); Montkr (7425); Skr (7431);
Skr (7432).

On Curaçao 28 finding places noted, on Aruba 14, on Bonaire 15.

Margarita. (Johnston).

Antill. (Symb.).

243. Oleaceae.

6440. **Jasminum** Linn.

Jasminum azoricum Linn. Spec. (1753) 7.

Cultivated. [Ins. Azor. and Madeira.] (E. u. P.).

Jasminum pubescens Willd. Sp. Pl. I (1798) 37.

Cultivated. [Ind. Orient., Birma, China.] (E. u. P.).

245. Loganiaceae.

6453. **Spigelia** Linn.

Spigelia anthelmia Linn. Spec. (1753) 149; Gris. Fl. 331. Leengga
die baaka.

Curaçao: Cas (4789); H₂ (5119); Zt (5382e). — Aschenberg, —
Suringar, — Britton & Shafer 3040.

Aruba: Beh (6428d). — Suringar.

Bonaire: R (7028).

Amer. trop. (Symb.).

247. Apocynaceae.

6578. **Plumiera** Linn.

Plumiera rubra Linn. Spec. (1753) 209.

Cultivated. [Amer. trop.] (Symb.).

6619. **Rauwolfia** Linn.

Rauwolfia Lamarkii DC. Prodr. VIII (1844) 337; Gris. Fl. 408.

Aruba: Savw (6516); Savw (6517).

Margarita. (Johnston).

Antill. (Symb.); Ecuador. (Gris. Fl.).

6632. **Thevetia** Adans.

Thevetia neriifolia Juss. ex Steud. Nom. ed. II, II (1841) 680.

Cultivated. [Amer. trop.] (Symb.).

6687. **Nerium** Linn.

Nerium Oleander Linn. Spec. (1753) 209.

Cultivated. [Mediterran. countries.] (Symb.).

248. **Asclepiadaceae.**

6736. **Cryptostegia** R.Br.

Cryptostegia grandiflora R. Br. in Bot. Reg. t. 435 (1819).

Cultivated. [Patria ignot.] (Symb.).

6791. **Asclepias** Linn.

Asclepias nivea Linn. Spec. (1753) 215; Gris. Fl. 419.

Asclepias curassavica Linn. Spec. (1753) 215; Gris. Fl. 419; Johnston (Margarita). Komtsji koe skotter.

Curaçao: Aschenberg.

Margarita. (Johnston).

Widely dispersed in both hemisph. (Symb.).

6792. **Calotropis** R. Br.

Calotropis procera R. Br. in Ait. Hort. Kew. ed. 2 (1811) II 78; Gris. Fl. 420. Katoena die seeda, Zijkatoen.

Curaçao: Suringar, — Lens 835.

Aruba: Nick (6488). — Suringar.

On Curaçao 8 finding places noted, on Aruba 3, on Bonaire 1.

Margarita. (Johnston).

Indig. in Afr. sept. and Ind. orient. (Symb.).

6798. **Metastelma** R.Br.

Metastelma Boldinghii Schlecht. in Symb. Antill. VII (1912) 338.

Curaçao: Mok (4831); Sik₃ (5258). — Went 1326.

Bonaire: Fh (7249).

6934. **Omphalophthalmus** Karst.

Omphalophthalmus ruber Karst. Fl. Columb. II (1865) 119. t. 163. Kabeez die mariekoe, Marie pompoen.

Curaçao: Wah (5254). — Suringar.

Aruba: (6212). — Suringar.

Bonaire: R (7098). — Suringar.

On Curaçao 4 finding places noted, on Aruba 2, on Bonaire 1, especially in the hilly country.

Nova Granata. (Karst. Fl. Columb.).

249. Convolvulaceae. *)

6968. **Cuscuta** Linn.

Cuscuta americana Linn. Spec. (1753) 124; Gris. Fl. 476. Hielo die diaabel.

Curaçao: Bh (4759); Sih (5191). — Suringar, — Went 1322, — Britton & Shafer 3065.

Bonaire: Bolko (7377); R (7381).

Amer. trop. (Symb.).

Cuscuta arvensis Beyr. ap. Hook. Flor. bor. amer. II (1840) 77.

Curaçao: Vat (5099); Hz (5136); Bat (5220); Pk (5473); Pk (5481). — Britton & Shafer 2915.

Bonaire: R (7081); PRw (7349); Bact (7476).

Baham., Martinique, Amer. cont. from U. S. to Brasilia. (Symb.).

Cuscuta partita Choisy Cusc. 188 t. 5. f. 3.

Curaçao: Britton & Shafer 3096.

Bonaire: R (7379).

Brasilia, Venezuela. (Engelmann Gen. Cuscutae).

6973. **Evolvulus** Linn.

Evolvulus alsinoides Linn. Spec. (1762) 392; Gris. Fl. 475. Jeerba plaata, Jeerba sjieko.

Curaçao: Bh (4766); Sk (5038); Pk (5471). — Britton & Shafer 3037.

Aruba: Andh. (6397); Mirh (6456).

In tropical and subtrop. countries of both hemisph. (Hall. Bull. Bois. VII).

Evolvulus Columbianus Meissn. in Mart. Fl. Bras. III (1869) 347.

Curaçao: C (4997); C (5007). — Suringar.

Columbia, Venezuela, Trinidad, St Kitts. (Hallier m.'s.).

Evolvulus glaber Spreng. Syst. I (1825) 862;

Evolvulus mucronatus Sw. ex Wikstr. in Vet. Acad. Handl.

*) The greater part of the Convolvulaceae has been elaborated by Dr. H. Hallier.

Stockholm (1827) 61; Gris. Fl. 475; Johnston (Margarita).
Tsjananaa.

Curaçao: Sk (5037); Hz (5138); Ba (5165); Bat (5216). —
Britton & Shafer 3079.

Aruba: Mirh (6453b); Fontz (6474); Savk (6541). — Suringar.

Bonaire: R (7103); Mat (7301). — Suringar.

Margarita. (Johnston).

Amer. trop. (Symb.).

Evolvulus nummularius Linn. Spec. (1762) 391; Gris. Fl. 475.

Curaçao: Britton & Shafer 3047.

Trop. Amer. and Afr. (Symb.).

6986. **Porana** Burm.

Porana paniculata Roxb. Hort. Beng. (1814) 13.

Cultivated. [India orient. Malay.] (Ind. Kew.).

6991. **Jacquemontia** Choisy.

Jacquemontia cumanensis O. K. Rev. Gen. I (1891) 441.

Curaçao: Vd (4741); Be (5399). — Lens 823.

Bonaire: Fz (7241); Bolkg (7376).

Nicaragua, Venezuela. (Hallier ms.).

Jacquemontia evolvuloides Meissn.

α. longepedunculata Meissn. in Mart. Fl. Bras III (1889) 307. t. 112.

Curaçao: Bat (5218); Krh C (5610). — Aschenberg, — Suringar, —
Britton & Shafer 3119.

β. brevipedunculata Meissn. l. c. 307.

Bonaire: R (7100).

Brit. Guyana, Brasilia, Bolivia, Paraguay, Argentina. (Hallier ms.).

Jacquemontia nodiflora Don. Gen. Syst. IV (1838) 283;

Convolvulus nodiflorus Desr. in Lam. Enc. III (1789) 557; Gris.
Fl. 475.

Curaçao: Sc (4983); A (5160); Dh (5631). — Britton & Shafer
3064.

Aruba: Serk (6483).

Bonaire: R (7109).

Antill., Amer. cont. trop. from Mexico to Ecuador. (Symb.).

- Jacquemontia pentantha** G. Don. Gen. Syst. IV (1838) 283;
Convolvulus pentanthus Jacq. Coll. IV (1790) 210; Gris. Fl. 474;
Jacquemontia violacea Choisy in Mem. Soc. Phys. Genève. vol.
 8. (1838) 61. (Johnston).
Curaçao: Aschenberg.
 Margarita. (Johnston).
 Ant., Amer. trop. cont. from Mexico to Peru. (Symb.).

6997. **Merremia** Dennst.

- Merremia aegyptia** Urb. in Symb. Antill. IV (1910) 505;
Merremia pentaphylla Hallier f. in Engl. Jahrb. XVI (1893) 552;
Ipomoea pentaphylla Jacq. Col. II (1788) 297; Gris. Fl. 467;
 Boldingh I 162.
Curaçao: St (5054c); M 17; M 22. — Britton & Shafer 3003.
 Antil., Amer. cont. trop., Afr. trop., India orient., Ins. Sandw.
 (Symb.).

7003. **Ipomoea** Linn.

- Ipomoea acuminata** R. et Sch. Syst. IV (1819) 228;
Ipomoea jamaicensis var. *glabrata* Gris. Flor. Br. W. I. (1861)
 474.
Curaçao: (Symb.).
 Bermud., Florida, Baham., Antill., Mexico, Amer. centr. (Symb.).
- Ipomoea batatas** Poir. Encycl. VI (1804) 14.
 Cultivated. [Amer. centr.] (E. u. P.).
- Ipomoea calantha** Gris. Cat. (1866) 202.
Curaçao: (Symb.).
 Cuba, Columbia. (Symb.).
- Ipomoea carnea** Jacq. Enum. (1760) 13; Gris. Fl. 469.
Curaçao: Aschenberg.
Aruba: (Symb.).
 Margarita: (Symb.).
 Jamaica, St. Vincent, from Nicaragua to Nova Granata and
 Venezuela. (Symb.).
- Ipomoea commutata** R. et Sch. Syst. IV (1819) 228.
Curaçao: Kit (5497). — Suringar.
Aruba: Ok₂ (6242); Ok₂ (6245); Savh (6535). — Suringar.
Bonaire: Rt (7159).
 Amer. sept., St. Thomas. (Hallier, Wiss. Aust. Hamb. 1898).

Ipomoea heptaphylla Voigt Hort. Suburb. Calc. (1845) 360;

Ipomoea pulchella Gris. Flor. (1861) 470;

Ipomoea pulchella Roth. Nov. pl. sp. (1821) 115.

Curaçao: Blt (4913); Bat (5212); Wo (5434a); M 11; M 12. — Suringar, — Britton & Shafer 2999.

Tropical countries of both hemisph. (Symb.).

Ipomoea incarnata Choisy in DC. Prodr. IX (1845) 360.

Curaçao: CaC (4806); Ma (4880); S (5029); Bat (5208); Wo (5439). — Aschenberg, — Suringar, — Britton & Shafer 2968, 3008.

Aruba: (5758).

Bonaire: R (7108); Bolko (7371).

St. Martha, Galapag. Ins., Abington, Chatham, Indefastigable, Ecuador, Brasilia.

Ipomoea muricata Jacq. Hort. Schönbr. II (1798) 40. Kaboeja igoeaana.

Curaçao: St (5054); St (5054b). — Aschenberg.

Bonaire: R (7096); R (7097); Montk (7399).

In warmer countries of both hemisph. (Hallier Bull. herb. Bois. V).

Ipomoea nil Roth. Cat. I (1797) 36; Gris. Fl. 473. Trompet.

Curaçao: Bat (5211); Kit (5495); M 22. — Aschenberg, — Britton & Shafer 3061.

Aruba: (5741).

Bonaire: Rk (7094).

Warmer parts of America, Afr. trop., Asia austro-or., Ins. Sandw.

Ipomoea pes caprae Roth. Nov. Pl. Sp. (1821) 109; Gris. Fl. 470.

Curaçao: van Breemen.

Margarita. (Johnston).

Warmer and tropical countries of both hemisph. (Symb.).

Ipomoea triloba Linn. Spec. (1753) 161; Gris. Fl. 470.

Curaçao: M 25; M 26. — Lens 804.

Florida, Baham., Antill., warmer parts of Amer. centr. and sept., Galapagos. (Symb.).

Ipomoea tuba G. Don. Gen. Syst. IV (1838) 271; Gris. Fl. 467;

Ipomoea glaberrima Boj. in Hook. Journ. I (1834) 357.

Curaçao: Rif (4640). — Britton & Shafer.

Aruba: (5739).

Key Ins., Baham., Antill., from Mexico to Guiana, Afr. trop., Asia austro-orient., Ins. pacif. (Symb.).

7005. **Quamoclit** Moench.**Quamoclit coccinea** Moench. Meth. (1794) 154.

Cultivated. [In tropical countries of both hemisph.] (Symb.).

Quamoclit pinnata Boj. Hort. Maur. (1837) 224.

Cultivated. [In tropical countries of both hemisph.] (Symb.).

251. Hydrophyllaceae.7037*. **Nama** Linn.cf. 7037. **Hydrolea** Linn.**Nama jamaicense** Linn. Syst. X ed. II (1759) 950; Gris. Fl. 477;*Hydrolea jamaicensis* Raeusch. Nom. ed. III (1797) 76;

Boldingh I 163.

Curaçao: Nas W (4687); M 5. — Aschenberg, — Suringar, — Britton & Shafer 3033.

Bermud., Florida, Key West, Baham., Antill., from Texas to Venezuela. (Symb.).

252. Borraginaceae.7038. **Cordia** Linn.**Cordia alba** R. et Sch. Syst. (1819) 466; Gris. Fl. 478. Kara-waara.**Curaçao**: Vw (4700); Blw (4753). — Suringar, — Went 1332, — Lens 810, — Britton & Shafer 2982.**Aruba**: Ok₂ (6229); Nick (6487). — Suringar.**Bonaire**: Rk (7065); Montkr (7417). — Suringar.

On Curaçao 37 finding places noted, on Aruba 14, on Bonaire 15.

Margarita (Johnston).

Baham., Antill., from Mexico to Columbia and Venezuela. (Symb.).

Cordia cylindrostachya R. et Schult. Syst. IV (1819) 459; Gris. Fl. 480. Karisjoeri.**Curaçao**: Rif (4643); B (4776); Mh (4885); Pih (5324b). — Aschenberg, — Suringar, — Britton & Shafer 2962.**Aruba**: Fonth (6466). — Suringar.**Bonaire**: R (7092); Kra (7447). — Suringar.

On Curaçao 47 finding places noted, on Aruba 8, on Bonaire 15.

Margarita. (Johnston).

Antill., Amer. cont. trop. (Symb.).

Cordia globosa H. B. K. Nov. Gen. III (1818) 76; Gris. Fl. 481. Oreegano.

Curaçao: Vw (4706); Blw (4749); Bh (4759*d*). — Aschenberg, — Suringar, — Britton & Shafer 2973.

Aruba: Ok₂ (6225).

Bonaire: Rk (7054); Fk (7339*d*); Montkr (7389).

On Curaçao 31 finding places noted, on Aruba 1, on Bonaire 4.

Margarita. (Johnston).

Key Ins., Baham., Antill., Amer. cont. trop. (Symb.).

Cordia Sebestena Linn. Spec. (1753) 190; Gris. Fl. 478. Kara-waara spanjool, Manhage.

Cultivated. [Key Ins., Baham., Antill., Amer. centr. to Guiana.] (Symb.).

7042. **Beureria** Jacq.

Beureria succulenta Jacq. Enum. (1760) 14; Gris. Fl. 481. Goeaana, Watakeeli, Watakeeri.

Curaçao: Vw (4712); Vd (4734); W₂ (5063); K (5454); K (5457). — Suringar, — Went 1333, — Britton & Shafer 2965.

Aruba: Mankz (6296); Ajh (6348). — Suringar.

Bonaire: Rk (7073). — Suringar.

On Curaçao 47 finding places noted, on Aruba 21, on Bonaire 12.

Antill. (Symb.); Baham. (Herb. Leiden).

7051. **Tournefortia** Linn.

Tournefortia gnaphalodes R. Br. Prod. (1810) 496; Gris. Fl. 483. Kokorobaana, Tabaako die piskadoo.

Curaçao: Jh (5429). — Suringar.

Aruba: Mankz (6284); Serz (6510). — Suringar.

Bonaire: R (7181).

On lime near the sea; on Curaçao 4 finding places noted, on Aruba 6, on Bonaire 7.

Margarita. (Johnston).

Bermud., Florida austr., Key Ins., Baham., Antill., Mexico, Amer. centr. (Symb.).

Tournefortia volubilis Linn. Spec. (1753) 140; Gris. Fl. 484. Klaas moelaato, Raboe die kabaai.

Curaçao: Vw (4708); Blw (4746); Sc (4977); A (5143); Pek (5280). — Suringar, — Britton & Shafer 2972.

Bonaire: Rk (7058); Rk (7059); Montkr (7400); Montkr (7408). — Suringar.

On Curaçao 14 finding places noted, on Aruba 1, on Bonaire 9.

Margarita. (Johnston).

Key Ins., Baham., Antill., Yucatan, Amer. austr. (Symb.).

7052. **Heliotropium** Linn.

Heliotropium campechianum H. B. K. Nov. Gen. III (1818) 68;
Heliotropium filiforme Gris. Flor. (1861) 486.

Curaçao: V (4731); Cas (4798); M (4813); Wa₃ (5101b); Vat (5364). — Suringar, — Went 1346, — Britton & Shafer 3044.

Aruba: Ser k (6483a); Sav w (6518); Sav k (6542c). — Suringar.

On Curaçao 13 finding places noted, on Aruba 5, on Bonaire 1.

Margarita. (Johnston).

Antill., Campeche, Guatemala, Columbia, Galapagos. (Symb.).

Heliotropium curassavicum Linn. Spec. (1753) 130; Gris. Fl. 486. Kokolodee sjimarón.

Curaçao: Rud (4603). — Suringar, — Britton & Shafer.

Aruba: Mankz (6293a); Bak k (6342). — Suringar.

Bonaire: Mat (7299). — Suringar.

Near the sea on Curaçao 6 finding places noted, on Aruba 4, on Bonaire 2.

Margarita. (Johnston).

Bermud., Key Ins., Baham., Antill., Amer. cont., Europ. austr., Africa, Australia, Ins. Pacif. (Symb.).

Heliotropium humile R. Br. Prodr. I (1810) 497;

Heliotropium fruticosum Linn. Syst. X ed. II (1759) 913;
Gris. Fl. 486. Salie.

Curaçao: Bh (4770); Hk (5131); KrhC (5601). — Suringar, — Lens 817, — Britton & Shafer 2961, 3039.

Aruba: Fontk (6477); Savk (6540). — Suringar.

Bonaire: Rk (7074); P Rw (7351). — Suringar.

On Curaçao 40 finding places noted, on Aruba 3, on Bonaire 5.

Antill., Amer. cont. trop. (Symb.).

Heliotropium indicum Linn. Spec. (1753) 130; Gris. Fl. 485.
Kokolodee.

Curaçao: Sh (4968). — Aschenberg, — Suringar.

Bonaire: (7327).

Margarita. (Johnston).

Tropical countries of both hemisph. (Symb.).

Heliotropium parviflorum Linn. Mant. II (1771) 201; Gris. Fl. 485.

Curaçao: Vw (4698); Bh (4759a); Pk (5476). — Suringar, — Lens 701, 808.

Aruba: (6213). — Suringar.

Bonaire: R. (7011). — Suringar.

Margarita. (Johnston).

Amer. trop. (Symb.).

253. Verbenaceae.

7142. **Tamonea** Aubl.

Tamonea curassavica Pers. Syn. II. 139;

Tamonea spinosa Sw. Prod. Veg. Ind. Occ. 94;

Tamonea verbenacea Sw. Fl. Ind. Occ. II 1089; Gris. Fl. 493.

Curaçao: Gris. Fl.

Antigua. (Gris. Fl.).

7144. **Lantana** Linn.

Lantana camara Linn. Spec. (1753) 627; Gris. Fl. 495. Floor die sangger.

Curaçao: Mah (4859); Hk (5314); Kd (5336); Pk (5472). — Suringar, — Britton & Shafer 2964.

Aruba: Ok₂ (6223). — Suringar.

Bonaire: Rk (7037); Soebh (7264). — Suringar.

On Curaçao 33 finding places noted, on Aruba 9, on Bonaire 10.

Margarita. (Johnston).

In tropical America. (Symb.).

Lantana canescens H. B. K. Nov. Gen. et Spec. II. (1817) 209.

Curaçao: Hk (5131); Pik (5324a); Pk (5470). — Aschenberg, — Britton & Shafer 3151.

Bonaire: Rh (7033).

Venezuela. (H. B. K. Nov. Gen. et Spec.).

Lantana involucrata Linn. Cent. Pl. II (1756) 22; Gris. Fl. 496.

Curaçao: Riw (4686). — Went 1111, — Britton & Shafer 2944.

Aruba: Bakk (6335).

Bonaire: Suringar.

On Curaçao 16 finding places noted, on Aruba 10, on Bonaire 18.

Bermud., Florida austr., Key Ins., Baham., Antill., Amer. centr., Galapagos. (Symb.).

7145. **Lippia** Linn.

Lippia reptans H. B. K. Nov. Gen. et Spec. II (1817) 263; Gris. Fl. 495. Kamille sjimarón, Maisji raboe.

Curaçao: St (5054r). — Suringar, — Went 1347, 1339, — Lens 843, — Britton & Shafer 2990.

Aruba: Siv (6307). — Suringar.

Bonaire: R (7137).

Baham., Antill., Amer. cont. trop. (Symb.).

7148. **Bouchea** Cham.

Bouchea Ehrenbergii Cham. in Linnaea VII (1832) 253; Gris. Fl. 493. Jeerba staasia, Sjonleena.

Curaçao: Mo (4816b); Bah (5167); Mi (5308); Ent (5434f). — Aschenberg, — Suringar.

Margarita. (Johnston).

Baham., Antill., from Mexico to Venezuela. (Symb.).

7151. **Stachytarpheta** Vahl.

Stachytarpheta jamaicensis Vahl. Enum. I (1804) 206; Gris. Fl. 494;

Stachytarpheta indica Vahl. Enum. I (1804) 206.

Curaçao: Vat (5349a).

Bonaire: Fh (7247). — Suringar.

Margarita. (Johnston).

Bermud., Florida austr., Key Ins., Baham., Antill., Amer. centr. to Guiana, Afr. and Asia trop. (Symb.).

Stachytarpheta sanguinea Mart. et Schau in DC. Prodr. XI. (1847) 564.

Aruba: Ajw (6352); Ajw (6353).

Brasilia. (Ind. Kew.).

7153. **Priva** Adans.

Priva lappulacea Pers. Syn. II (1807) 139;

Priva echinata Juss. in Ann. Mus. Par. VII (1806) 69; Gris. Fl. 493; Boldingh. I 170.

Curaçao: Hatot (5340a). — Suringar.

Margarita. (Johnston).

Bermud., Florid. austr., Baham., Antill., Amer. cont. trop.
(Symb.).

7162. **Duranta** Linn.

Duranta erecta Linn. Spec. (1753) 637. Adonis.

Cultivated. [Amer. trop.] (Symb.).

7186. **Vitex** Linn.

Vitex umbrosa Sw. Prod. Veg. Ind. Occ. 93; Gris. Fl. 502. Foema.

Curaçao: Wk (4945); C (5015); Beh (5514); Beh (5533). —
Suringar.

Jamaica, Cuba. (Gris Fl.).

7205. **Avicennia** Linn.

Avicennia nitida Jacq. Enum. Pl. Carib. (1760) 25; Gris. Fl. 502.
Manggel blanko.

Curaçao: Suringar.

Bonaire: Lagz (7462), Zoutz (7500).

On Curaçao 4 finding places noted, on Bonaire 3; not observed on Aruba.

Margarita. (Johnston).

Amer. trop., Afr. trop. (Symb.).

254. Labiatae.

7264. **Leonotis** R. Br.

Leonotis nepetifolia R. Br. in Ait. Hort. Kew. ed. II, III (1811)
409; Gris. Fl. 492. Sabadieja.

Curaçao: Suringar.

Bonaire: Suringar.

Margarita. (Johnston).

Warmer countries of both hemisph. (Symb.).

7342. **Hyptis** Jacq.

Hyptis pectinata Poit in Ann. Mus. Par. VII (1806) 474. t. 30;
Gris. Fl. 489.

Curaçao: W (4930); Kit (5501).

Margarita. (Johnston).

Amer. trop., Afr. trop., Asia austro-or., Ins. Marian. (Symb.).

Hyptis suaveolens Poit. in Ann. Mus. Par. VII (1806) 472. t. 29. f. 2; Gris. Fl. 489. Sanggoera.

Curaçao: Hk (5074); Wa₃ (5106); Aw (5162); Dh (5630). — Suringar, — Went 1350, — Lens 833, — Britton & Shafer 2995.

Aruba: Sav (6405); Ajw (6453). — Suringar.

Bonaire: R (7129); Sergh (7458).

Baham., Antill., Amer. cont. trop., Asia austro-or. (Symb.).

7343. **Marsypianthes** Mart.

Marsypianthes chamaedrys O. Ktze. Rev. II (1891) 524;

Marsypianthes hyptoides Mart. in Benth. Lab. (1832) 64; Gris. Fl. 487.

Aruba: (6207); L (6264a); Beh (6428i); Savh (6531).

Antill., Amer. cont. trop. (Symb.).

7366. **Ocimum** Linn.

Ocimum gratissimum Linn. Spec. (1753) 597.

Cultivated. [India orient.] (Ind. Kew.).

Ocimum sanctum Linn. Mant. I (1767) 85.

Cultivated. [Asia trop. and Nova Guinea.] (Symb.).

256. **Solanaceae.**

7401. **Physalis** Linn.

Physalis angulata Linn. Spec. (1753) 183; Gris. Fl. 436.

Curaçao: Bah (5170); Bat (5238); Kit (5503). — Aschenberg, — Went 1335, — Britton & Shafer 3076.

Aruba: Suph (6392); Beh (6428).

Warmer countries of both hemisph. (Symb.).

Physalis pubescens Linn. Spec. (1753) 183; Gris. Fl. 435.

Curaçao: (5736). — Aschenberg.

Aruba: Mankz (6280); Ajh (6351); Beh (6428).

Bonaire: Karh (7304).

Tropical America. (Symb.).

Physalis turbinata Medik. in Act. Acad. Theod. Palat. IV (1780) 188. t. 5. f. 2.

Curaçao: Britton & Shafer. 3072, 3107.

Bonaire: R (7083); Joh (7303).

Antill., Nova Granata. (Symb.).

7404. **Capsicum** Linn.

Capsicum frutescens Linn. Spec. (1753) 189; Gris. Fl. 436.
Cultivated. [Tropical countries of both hemisph.] (Symb.).

7407. **Solanum** Linn.

Solanum argillicolum Dunal. in A. D. C. Prodr. XIII. 1 (1852)
236. Bataata die soembi.

Curaçao: Vw (4719); V (4721); (5052); A (5151). — Suringar, —
Read, — Von Rohr, — Britton & Shafer 2979.

Aruba: Ok₂ (6239); Nic k (6499). — Suringar.

Bonaire: Rh (7077).

On Curaçao found in 19 places, on Aruba in 9, on Bonaire in 3.

St. Barthélemy, Brasilia. (Symb.).

Solanum lycopersicum Linn. Spec. (1753) 185. Tomati.
Cultivated. [Amer. cont. trop.] (Symb.).

Solanum Melongena Linn. Spec. (1753) 186. Berrehein, Bou-
langer.

Cultivated. [Asia trop.] (Symb.).

Solanum nigrum var. **americanum** O. E. Schulz in Urb. Symb.
VI (1909) 160;

Solanum nigrum var. *nodiflorum* Linn. Spec. (1753) 186;
Bolangh I 177;

Solanum nodiflorum Dunal Hist. Sol. (1813) 151; Gris. Fl. 437.
Maloieda.

Curaçao: St (5054a); Kit (5502). — Suringar.

Aruba: Savw (6521).

Bonaire: R (7135).

Margarita. (Johnston).

Baham., Antill., from Mexico to Guiana. (Symb.).

Solanum odoriferum Vell. Fl. Flum. 85.

Cultivated. [Brasilia.] (Ind. Kew.).

Solanum torvum Sw. Prod. Veg. Ind. Occ. (1788) 47; Gris. Fl. 441.

Curaçao: (Symb.).

Key Ins., Baham., Antill., Amer. centr. and austro-sept.,
Guinea, Asia austro-orient. (Symb.).

Solanum tuberosum Linn. Spec. (1753) 185.

Cultivated. [Andes americ.] (Symb.).

7415. **Datura** Linn.

Datura Metel Linn. Spec. (1753) 179; Gris. Fl. 434. Belladonna, Jeerba stinki.

Curaçao: Suringar.

Aruba: Ok₂ (6220); Paardw (6560). — Aschenberg, — Suringar. Margarita. (Johnston).

Amer. trop., Afr. trop., Eur. austr., India or. (Symb.).

7434. **Nicotiana** Linn.

Nicotiana Tabacum Linn. Spec. (1753) 180.

Cultivated. [Amer. austr.] (Symb.).

7436. **Petunia** Juss.

Petunia violacea Lindl. Bot. Reg. t. 1626.

Cultivated. [Argentina.] (Ind. Kew.).

257. **Scrophulariaceae.**7496. **Russelia** Jacq.

Russelia juncea Zuccar in Flora XV (1832) II Beibl. 99.

Cultivated. [Mexico.] (Symb.).

7534. **Stemodia** Linn.

Stemodia durantifolia Sw. Obs. (1791) 240; Gris. Fl. 429.

Curaçao: Suringar, — Britton & Shafer 3016.

Americ. tropic. (Symb.).

Stemodia maritima Linn. Syst. X ed. II (1759) 1118; Gris. Fl. 429. Torra.

Curaçao: Nasw (4683); Mt (4863); Bat (5233). — Aschenberg, — Suringar, — Britton & Shafer 3031.

Baham., Antill., Amer. austr. trop. (Symb.).

7574. **Capraria** Linn.

Capraria biflora Linn. Spec. (1753) 628; Gris. Fl. 427. Tantsji.

Curaçao: Rud (4605). — Suringar, — Went 1106, 1355, — Lens 702, — Britton & Shafer 2932.

Aruba: Mankz (6293); Siw (6315). — Suringar.

Bonaire: Rk (7032). — Suringar.

On Curaçao noted in 20 places, on Aruba in 11, on Bonaire in 6.

Margarita. (Johnston).

Bermud., Florida austr., Key Ins., Baham., Antill., Amer. cont. trop. (Symb.).

7576. **Scoparia** Linn.

Scoparia annua Cham. et Schl. in Linnaea II. (1827) 603.

Curaçao: W (5581). — Aschenberg, — Britton & Shafer 3022.

Aruba: Ok₂ (6226); Mankz (6279); Ajw (6343g); Savw (6519a); Mansz (6557). — Suringar.

Bonaire: R (7134).

Brasilia. (D C. Prodr. X).

258. Bignoniaceae.

7733. **Tecoma** Juss.

Tecoma Chrysantha DC. in Prodr. IX (1845) 221. Kiebrahaatsja.

Curaçao: Mah (4861); Sc (4979); Aw (5142); Hk (5309); Beh (5511); Beh (5516).

Aruba: L (6265); Mirh (6458).

Bonaire: Macb (7118); Joh (7204). — Suringar.

On Curaçao 10 finding places noted, all in the Western part, on Aruba 4, on Bonaire 10.

Venezuela. (DC. Prodr. IX).

7740. **Stenolobium** D. Don.

Stenolobium stans Seem. Journ. Bot. I (1863) 88. Kelki heel. Cultivated. [Warmer countries of America.] (Symb.).

7759. **Crescentia** Linn.

Crescentia Cujete Linn. Spec. (1753) 626; Gris. Fl. 445. Kallebas rondo.

Curaçao: Suringar.

Aruba: C (6414); C (6416).

Bonaire: Johw (7196). — Suringar.

On Curaçao noticed in 27 places, on Aruba in 5, on Bonaire in 11.

Margarita. (Johnston).

Bermud., Key Ins., Antill., Amer. cont. trop. (Symb.).

259. Pedaliaceae.7777. **Sesamum** Linn.

Sesamum orientale Linn. Spec. (1753) 634; Gris. Fl. 458.
Sjosjolie.

Cultivated. [Asia austro-orient.] (Symb.).

266. Acanthaceae.7908. **Elytraria** Michx.

Elytraria squamosa Lindau in Engl. u. Prantl, Nat. Pflanzenfam. Nachtr. (1897) 304;

Tubiflora squamosa O Ktze. Rev. 500; Lindau in Engl. u. Prantl. Nat. Pflanzenfam. IV. 3b. 289;

Elytraria tridentata Vahl Enum. (1804) I. 107; Gris. Fl. 451.

Curaçao: Vw (4697); Mk (4886); Vat (5093); Wo (5438). — Suringar, — Went 1317, — Lens 809, — Britton & Shafer 2978.

Aruba: L (6266); Mirh (6453f).

Bonaire: R (7016).

Noticed on Curaçao in 21 places, on Aruba in 9, on Bonaire in 11.

Tropic. Americ. and Afr. occid. trop. (Symb.).

7965. **Ruellia** Linn.

Ruellia paniculata Linn. Spec. (1753) 635; Gris. Fl. 451.

Curaçao: Suringar.

Cuba, Jamaica, from Columbia and Venezuela to Mexico. (Symb.).

Ruellia tuberosa Linn. Spec. (1753) 635; Gris. Fl. 452. Pistol, Skopèt.

Curaçao: B (4778); Mok (4820a); St (5054g); A (5153); Bat (5225); Sit (5297); Hatot (5344); Ent (5434e). — Suringar, — Went 1337, — Lens 805, — Britton & Shafer.

Bonaire: R (7113).

Margarita. (Johnston).

Antill., from Guiana, Venezuela, Peru and Columbia to Mexico. (Symb.).

267. Myoporaceae.

8111. **Bontia** Linn.

Bontia daphnoides Linn. Spec. (1753) 638; Gris. Fl. 503. Olieba, Olijfi, Parwa.

Curaçao: Nask (4691). — Suringar, — Britton & Shafer 3052.

Aruba: Paardw (6556). — Suringar.

Bonaire: Bonz (7496). — Suringar.

On Curaçao 20 finding places noted, on Aruba 5, on Bonaire 2.

Baham., Antill., Guiana. (Symb.).

269. Plantaginaceae

8116. **Plantago** Linn.

Plantago major Linn. Spec. (1753) 112; Gris. Fl. 389.

Cultivated. [In almost all parts of both hemisp.] (Symb.).

270. Rubiaceae.

8283. **Randia** Linn.

Randia aculeata Linn. Spec. (1753) 1192; Gris. Fl. 318. Leele, Raboe die kabaai, Wakoera.

Curaçao: Blw (4752); Mh (4870). — Suringar, — Britton & Shafer 3043.

Bonaire: Rh (7034); R (7165). — Suringar.

On Curaçao 48 finding places noted, on Bonaire 25; not observed on Aruba.

Margarita. (Johnston).

Bermud., Florida austr., Key Ins., Baham., Antill. (Symb.).

Venezuela. (Johnston).

8363. **Antirrhoea** Comm.

Antirrhoea acutata DC. Symb. I (1899) 439;

Stenostomum viscosum Gris. Fl. (1861) 334. Koetsjaara, Plaaka sjikietoe.

Curaçao: Sik₂ (5202); Sik₂ (5243). — Suringar, — Britton & Shafer 3081.

Aruba: Fonth (6467); Fontt (6475). — Suringar.

Bonaire: Rk (7061). — Suringar.

On calcareous soil; on Curaçao found in 13 places, on Aruba in 6, on Bonaire in 4.

Anguilla, Guadeloupe, Désirade. (Symb.).

8370. **Machaonia** H. B.

Machaonia Ottonis Urb. in Symb. Antill. V (1908) 511. Paaloe die heeroe.

Curaçao: (4024b); Mh (4879); Wo (4932); Sc (4982); Kk (5406); Kk (5410). — Suringar, — Britton & Shafer 3144.

Bonaire: Rk (7076); Soebh (7282). — Suringar.

Found on Curaçao in 23 places, on Bonaire in 11 in the hilly part. Not observed on Aruba.

Venezuela. (Symb.).

8371. **Erithalis** Linn.

Erithalis fruticosa Linn. Syst. X ed. II (1759) 930; Gris. Fl. 336. Loembra blanco.

Curaçao: Rif (4646); Vd (4733); Mk (4890); Bat (5241). — Suringar, — Britton & Shafer 2940.

Aruba: Mand (6288); Mand (6291); Camk (6370). — Suringar.

Bonaire: Soebh (7270); Fk (7341); Lagz (7469).

On Curaçao 21 finding places noted, on Aruba 3, on Bonaire 3.

Margarita. (Johnston).

Florida, Key Ins., Baham., Antill., Amer. centr. (Symb.).

8384. **Ixora** Linn.

Ixora coccinea Linn. Spec. (1753) 110.

Cultivated. [Asia austro-orient.] (Symb.).

8391. **Strumpfia** Jacq.

Strumpfia maritima Jacq. Enum. Pl. Carib. (1760) 28; Gris. Fl. 336. Bai no boolbee.

Curaçao: Sk (5043); Kk (5403). — Suringar, — Britton & Shafer 3030.

Aruba: Locality unknown. — Suringar.

Bonaire: Montkr (7426); Skr (7428); Skr (7433).

Key Ins., Baham., Antill., Yucatan. (Symb.).

8463. **Morinda** Linn.

Morinda Royoc Linn. Spec. (1753) 176; Gris. Fl. 347;

Morinda umbellata Linn. Spec. 176. Bataata heel, Loembra maatsjoe, Paaloe zapateero, Pam die diaabel.

Curaçao: Bh (4761). — Suringar, — Went 1334, — Lens 827, — Britton & Shafer 2941.

Aruba: Fontk (6482); Serk (6505).

Bonaire: Plak (7276); Bolko (7365). — Suringar.

Especially on lime; on Curaçao 21 finding places noted, on Aruba 2, on Bonaire 2.

Jamaica, Cuba, Haiti. (Gris. Fl.).

8468. **Ernodea** Swartz.

Ernodea litoralis Sw. Prodr. (1788) 29; Gris. Fl. 347.

Bonaire: Montkr (7393); Skr (7429); Skr (7434).

Florida austr., Key Ins., Baham., Antill., Honduras, Yucatan. (Symb.).

8471. **Diodia** Linn.

Diodia rigida Cham. et Schlecht. in Linnaea III (1828) 341; Gris. Fl. 348.

Curaçao: Cas Ch (4795); H (5068); Bah (5171); Sik₂ (5262 b); Pih (5328); Krh (5599b); KrhC (5610a); Dh (5629). — Suringar, — Britton & Shafer 3154.

Aruba: Mirh (6452c); Savk (6546). — Suringar.

Bonaire: PRw (7347).

Margarita. (Johnston).

Antill., Amer. cont. trop. (Symb.).

8473. **Borreria** G. F. W. Mey.

Borreria laevis Gris. Kar. in Goett. Abh. VII (1857) 231.

Curaçao: Blt (4901); Hatot (5343); Vat (5354); Zt (5387). — Aschenberg, — Britton & Shafer 2997, 3005.

Bonaire: Brw (7314).

Amer. tropic. (Symb.).

Borreria ocymoides DC. Prodr. IV (1830) 544;

Borreria parviflora G. F. W. Mey Prim. Ess. (1818) 83. t. 1. f. 1; Gris. Fl. 349.

Curaçao: M9, M15.

Aruba: (6201) Bek (6420).

Bonaire: R (7004).

Amer. trop., Java. (Symb.).

8475. **Spermacoce** Gärtn.

Spermacoce tenuior Linn. Spec. (1753) 102; Gris. Fl. 349.

Curaçao: H₂ (5120); Bah (5173); Bat (5221a); Ent (5434); Krk (5591c). — Suringar, — Britton & Shafer 2984, 3071.

Aruba: Siw (6311a); Siw (6319); Bek (6422); Mirh (6453h); Nick (6503). — Suringar.

Bonaire: R (7005); R (7136); Bolko (7359).

Margarita. (Johnston).

Bermud., Baham., Antill., from Caroliniana and Louisiana to Brasilia. (Symb.).

8479. **Mitracarpus** Zucc.

Mitracarpus hirtus D C. Prodr. IV (1830) 572 ex Schumann Flor. Bras. VI. 6. p. 84;

Mitracarpus villosus Cham. et Schlecht. in Linnaea III (1828) 363; Boldingh I 194; Gris. Fl. 350.

Curaçao: Beh (5534a); Wh (5572); M 16. — Suringar, — Britton & Shafer 3026.

Aruba: L (6264); Ajw (6343d); Mirh (6445e); Nick (6485); Savw (6519c); Savh (6528). — Suringar.

Antill., Cuba and Mexico to Equador and Venezuela. (Gris. Fl.).

275. **Cucurbitaceae.**

8580. **Ceratosanthes** Adans.

Ceratosanthes corniculata Cogn. in D C. Monogr. III (1881) 724;

Ceratosanthes tuberosa Spreng. Syst. Veg. 3. (1774) 18; Gris. Fl. 289; Johnston (Margarita). Bataata djoekoe, Fantasiea, Leengga die tsoetsjoebi.

Curaçao: Vw (4707); Si (5196). — Suringar, — Lens 838, — Britton & Shafer 3116.

Aruba: Ok₂ (6224).

Margarita. (Johnston).

Martinica, Grenada, Trinidad, Venezuela. (Cogn. 1881).

8591. **Momordica** Linn.

Momordica Charantia Linn. Spec. (1753) 1009; Gris. Fl. 287.
Mammootika.

Curaçao: (5084).

Margarita. (Johnston).

In all tropical and subtropical countries. (Symb.).

8598. **Citrullus** Forsk.

Citrullus vulgaris Schrad. in Eckl. et Zeyh. Enum. II (1836)
279. Patieja.

Cultivated. [Afr. trop. and austr.] (Symb.).

8599. **Cucumis** Linn.

Cucumis Anguria Linn. Spec. (1753) 1011; Gris. Fl. 288. Wild
komkommer.

Curaçao: Suringar, — Britton & Shafer 3142.

Aruba: Locality unknown, — Suringar.

Margarita. (Johnston).

Key Ins., Baham., Antill., Amer. cont. calidior. (Symb.).

Cucumis Melo Linn. Spec. (1753) 1011.

Cultivated. [Afr. and Asia trop.] (Symb.).

8622. **Cucurbita** Linn.

Cucurbita maxima Duchesne in Lam. Encycl. II (1786) 151.
Pompoen.

Cultivated. [Asia merid.] (Cogn. 1881).

280. Compositae.

8818. **Mikania** Willd.

Mikania scandens Wild. III. 3 (1804) 1743;

Mikania orinocensis H. B. K. Nov. Gen. IV (1820) 134; Gris.
Fl. 364.

Curaçao: Aschenberg.

Cultivated. [America.] (Symb.).

8873. **Egletes** Cass.

Egletes prostrata O. K. in Rev. Gen. plant. I (1891) 334;

Egletes domingensis Cass. in Dict. Sc. Nat. XIV. 256; Gris.
Fl. 380.

Curaçao: Pit (4840). — Aschenberg, — von Rohr, — Britton &
Shafer 3011, 3129.

Aruba: (6202). — Suringar.

Jamaica, Antigua, Haiti to French Islands, Trinidad, Vene-
zuela equat., Brasilia. (Gris. Fl.).

8915. **Gundlachia** A. Gray.

Gundlachia corymbosa Britton in manusc.

Curaçao: Wo (4937); Pek (5286); Pez (5288); Wh (5579). — Suringar, — Britton & Shafer 2936.

Aruba: Serk (6506).

Portorico. (Britton).

9101. **Lagascea** Cav.

Lagascea mollis Cav. in Anal. Cienc. Nat. VI (1803) 333. t. 44.

Curaçao: Bat (5214); Hatot (5340). — Aschenberg, — Suringar, — Britton & Shafer 3122.

Antill., Amer. cont. trop. (from. Ind. or.) (Symb.).

9129. **Melampodium** Linn.

Melampodium bonairense Boldingh. (n. sp.) herbaceum; ramis linea pilosa instructis; foliis petiolatis, deltoideis ovatis, basis cuneatis, crenato-serratis, supra scabris, subtus hispidulis; palea akenium obtegente apice obsolete spinuloso-dentata.

Herba ramis dichotomis, sulcatis, linea pubescente notatis. Folia opposita, pedunculata, deltoidea ovata, basi cuneata, crenato-serrata, membranacea, supra calloso punctata et scabra, subtus hispidula, 2–5 cm. longa, 1–2 cm. lata.

Capitula corymbosa, pedunculata, 0,3 cm. longa. Pedunculi 1–3 cm. longi, puberuli. Involucrum pentaphyllum, foliolis inaequalibus, acutis, integerrimis, nervosis, hispidulis. Receptaculum planum, paleaceum; paleis oblongis, obtusis, nervosis, glabris, margine ciliatis.

Flosculi masculi non vidi. Flosculi feminei: Corolla flava, tubo 0,05 cm. longo, ligula 0,15 cm. longa. Stigma 0,1–0,15 cm. longa. Akenia palea arcte inclusa, 0,25 cm. longa, trigona, apice irregulariter tuberculata.

Plate IX.

Curaçao: Hills near Domingito (5638); Malpais (M. 14) (type).

Bonaire: Rincon (7003, 7401).

9138. **Parthenium** Linn.

Parthenium Hysterophorus Linn. Spec. (1753) 988; Gris. Fl. 369. Bassoora die lieber.

Curaçao: No (5434); Ent (5440). — Aschenberg, — Suringar, — Lens 816, — Versluys 1422.

Aruba: Locality unknown. — Suringar.

Bonaire: Suringar.

Margarita. (Johnston).

Bermud., Florida, Key Ins., Baham., Antill., Amer. cont. trop. (Symb.).

9146. **Ambrosia** Linn.

Ambrosia paniculata L. Cl. Rich. in Michx. Flor. Bor. Americ. II (1803) 183. (Symb. Antill. VII, p. 84).

Cultivated. [Antill., Mexico, Guatemala, Nicaragua, Columbia, Ecuador, Peruvia, Venezuela.] (Symb.).

9166. **Eclipta** Linn.

Eclipta alba Hassk. Pl. Jav. Rar. (1848) 528; Gris. Fl. 370.

Curacao: Bat (5221); M6; Kl. St. Martha. — Suringar, — Britton & Shafer 2985.

Aruba: Fontt (6475c). — Suringar.

Bonaire: R (7138). — Suringar.

Margarita. (Johnston).

In warmer countries of both hemisph. (Symb.).

9174. **Isocarpha** R. Br.

Isocarpha oppositifolia R. Br. Trans. Linn. Soc. vol. 12 (1816) 110; Gris. Fl. 376. Magdalena.

Curacao: C (5013); H₂ (5110a); A (5149); A (5159); Pk (6378); Jak (5641). — Suringar, — Lens 841, — Britton & Shafer 2945.

Aruba: Suringar.

Bonaire: R (7007); Fk (7342). — Suringar.

On Curacao 18 finding places noted, on Aruba 1, on Bonaire 18.

Margarita. (Johnston).

Baham., Jamaica, Trinidad. (Johnston).

9192. **Wedelia** Jacq.

Wedelia Jacquini L. Cl. Rich. in Pers. Syn. II (1807) 490;

Wedelia buphthalmoides Gris. Flor. (1861) 372; Boldingh I 202; Johnston (Margarita) 269.

Curacao: Vd (4735); Wh (4950); Be (5559).

Margarita. (Johnston).

Antill., Panama, Venezuela, Guiana. (Symb.).

9207. **Spilanthes** Jacq.

Spilanthes urens Jacq. Enum. Pl. Carib. (1760) 28; Gris. Fl. 376.

Curacao: Pit (4839). — Suringar.

St. Vincent, Haiti, New-Granada, Peru, Brasilia. (Gris. Flor.).

9218. **Verbesina** Linn.

Verbesina alata Linn. Spec. (1753) 901; Gris Fl. 374.

Curacao: (Symb.).

Margarita. (Johnston).

Antill. (Symb.).

9224. **Synedrella** Gärtn.

Synedrella nodiflora Gärtn. Fruct. II (1791) 456. t. 171; Gris. Fl. 377.

Curaçao: H₂ (5112); Hatot (5346). — Aschenberg, — Suringar.

Aruba: (6208); Mirh (6445); Mirh (6447b); Savh (6537). — Suringar.

Bonaire: R (7015).

Margarita. (Johnston).

Florida, Baham., Antill., Amer. cont. trop. (Symb.).

9237. **Bidens** Linn.

Bidens cynapiifolius H. B. K. Nov. Gen. et Spec. IV (1820) 235; *Bidens bipinnatus* Linn. Spec. (1753) 832; Gris. Fl. 373. Pieterselie.

Curaçao: Hk (5083); KrhC (5608). — Aschenberg, — Suringar, — Britton & Shafer 3117.

Aruba: Suph (6392a); Mirh (6445c); Mirh (6447a). — Suringar.

Bonaire: R (7014).

Warmer countries of both hemisph. (Symb.).

9316. **Porophyllum** Adans.

Porophyllum macrocephalum P. DC. Prodr. V (1836) 648. Mampoerietoe.

Curaçao: Cas (4768); Zt (5382f); Kit (5493). — Suringar, — Lens 831, — Britton & Shafer.

Bonaire: R (7008); Sergh (7459).

Arizona, Mexico, Amer. centr. (Symb.).

9319. **Pectis** Linn.

Pectis brachycephala Urb. Symb. Antill. V (1907) 268.

Aruba: Nick (6501). — Suringar.

Pectis febrifuga van Hall. in Ann. Hort. et Bot. ou Flore Jard. des Pays-Bas vol. IV (1861) 33 with tabl. Theebiek.

Curaçao: V (4729); Vat (5377); Zt (5382). — Aschenberg, — Suringar, — Went 1345, — Lens 824, — Versluys 1418, — Britton & Shafer 3050.

Aruba: Ok₂ (6249); Beh (6428e). — Suringar.

Bonaire: R (7144); Plh (7296). — Suringar.

Jamaica, St. Thomas, Water Island, St. Croix, Columbia. (Symb.); Saba (Boldingh I).

Pectis linifolia Linn. Syst. X ed. II (1759) 1221;

Pectis punctata Jacq. Enum. (1760) 28; Gris. Fl. 377. Theebiek maatsjoe.

Curaçao: Bah (5168); Vat (5378); Zt (5382a); Caz (5413). — Aschenberg, — Suringar, — Lens 825, — Versluys 1419, — Britton & Shafer 2910.

Aruba: Mirh (6445f); Mirh (6447); Savk (6542b).

Bonaire: R (7019); PRw (7354).

Margarita. (Symb.).

Baham., Antill., Venezuela, Nova Granata, Galapagos, Yucatan, California infer., Arizona. (Symb.).

Pectis prostrata Cav. Icon. IV (1797) p. 12, tab. 324; Gris. Fl. 378. Theebiek maatsjoe.

Curaçao: Sk (5044a); Wa₃ (5104); Vat (5376); Krk (5591d). — Britton & Shafer 2974.

Bonaire: Rh (7079); Rh (7080); R (7143); PRw (7353).

Florida, Amer. sept., Cuba, Arizona and New Mexico, Mexico, Yucatan, Guatemala, Venezuela. (Symb.).

9540. **Trixis** Gmel.

Trixis frutescens P. Br. ex Spreng. Syst. vol. 3 (1826) 501;

Trixis radiale Lag. Amen. nat. vol. 1 (1811) 36.

Aruba: Camk (6378). — Suringar.

Margarita. (Johnston).

Trop. Amer. (Johnston).

9596. **Lactuca** Linn.

Lactuca intybacea Jacq. Icon. Pl. Rar. I (1781) t. 162;

Brachyramphus intybaceus P. DC. Prodr. VII (1838) 177; Gris. Fl. 384. Salade andijvie.

Curaçao: Sc (4981); Sik (5186). — Suringar, — Britton & Shafer.

Aruba: Ok₂ (6238); Paardw (6559).

Bonaire: R (7378).

Margarita. (Johnston).

Baham., Antill., Amer. centr. (Symb.).

SECOND PART

HISTORICAL



HISTORICAL

CHAPTER I

HISTORICAL SKETCH.

The islands Aruba and Bonaire have rarely been visited by botanists; from Curaçao several collections exist. In the Dutch botanical literature I did not see other publications except those mentioned in this Chapter.

I. Urban, *Symbolae Antillanae*, mentions that *J. Ph. B. von Rohr* (about 1737—1793) collected in Curaçao and that also *F. Bredemeyer* (1758—1839), *J. Read* and *H. F. A. Baron von Eggers* (1893) visited Curaçao.

For the collections of these persons I refer to Ch. II.

Later botanists who visited the colony Curaçao are:

Prof. Dr. W. F. R. Suringar 1884—1885.

Prof. Dr. F. A. F. C. Went 1901.

Miss A. Lens 1907.

Dr. I. Boldingh 1909—1910.

Prof. Dr. N. L. Britton and *Dr. J. A. Shafer* 1913,

while *Aschenberg* and *W. Versluys* made collections as inhabitants of Curaçao and *Dr. P. J. van Breemen* has been especially meritorious by accurately studying the marine phanerogamous plants. Their work as well as the collections of the other persons mentioned are treated in Ch. II.

About the results of these investigations and collections the following may suffice.

An account of *Suringar's* journey, published in the *Kon. Ned. Aandr. Gen.* (Royal Dutch Geogr. Soc.) Series II, Part II and III (1885—1886) contains an introduction; the publication has not been continued beyond the first 50 pages and only a small part of the flora has been described.

Published in the *Verslagen en Verhandelingen der Kon. Academie van Wetenschappen te Amsterdam* (Proc. Royal Acad. Amsterdam)

are articles on the Melocacti of the Dutch West Indian Islands. Of these *W. F. R. Suringar* and *J. V. Suringar* published the following series:

W. F. R. Suringar: Melocacti novi ex insulis archipelagi indici-occidentalis neerlandicis Curaçao, Aruba et Bonaire vel Bydrage tot de Kennis der Melocacti, in:

Verlagen en Mededeelingen der Koninklijke Academie van Wetenschappen Afd. Natuurkunde, Amsterdam.

3^{de} Reeks Deel II (1885) p. 183—195.

Deel VI (1889) p. 408—461 c. tab.

Deel IX (1892) p. 406—412 c. tab. geogr.

Verhandelingen der Koninklijke Akademie van Wetenschappen te Amsterdam. II Sectie. Deel V (1896) Nr. 3. p. 1—46. c. tab. 2.

Verlagen der Natuurkundige afdeling der Koninklijke Akademie van Wetenschappen. Amsterdam. Deel VI (1897) p. 178—192 c. tab.

Illustrations du genre Melocactus Livr. I.

J. Valckenier Suringar:

Contributions à l'étude des espèces du genre Melocactus des Indes Néerlandaises occidentales: Verhandelingen der Koninklijke Akademie van Wetenschappen. Amsterdam. Deel VIII (1901) p. 1—40.

Het Melocactusonderzoek, in Nederlandsch Kruidkundig Archief. Derde Serie. 2^{de} deel. 1903. p. 1047—1058 c. 1 tab.

Nouvelles contributions à l'étude des espèces du genre Melocactus des Indes Néerlandaises Occidentales. Verhandelingen der Koninklijke Akademie van Wetenschappen. Amsterdam. Tweede Sectie. Deel XVI. Nr. 3. 1910.

Illustrations du genre Melocactus. Livr. II.

Part of the plants collected by *Suringar* are mentioned by *Urban* in his *Symbolæ Antillanæ*.

The other collections hat not been used by authors yet; they are treated in this flora together with *Suringar*'s collection. In the older literature on the Dutch W. I. Islands something is found on the flora there. With real pleasure I read and re-read after my journey *Teenstra*'s work ¹⁾, in which some 90 plants are described in a manner which for a non-botanist is very sufficient. From most of the descriptions the plants may be recognised, especially since their wellknown indigenous names are given. Like in *Teenstra*'s work much attention is paid to the medi-

1) M. D. Teenstra: De Nederlandsche West Indische eilanden in derzelver tegenwoordige toestand. Amsterdam 1836—1837.

cinal use of many plants in *Simon's* book ¹⁾ which also gives an extensive list of vernacular and Latin plant names, composed by *Dr. N. Anslin*, military physician. That in such a list many inaccuracies in the determinations occur is obvious.

I also became acquainted with a publication by *Hurtado* ²⁾, who in an appendix gives a survey of the Curaçao flora. This appendix contains a very large number of mistakes. It seemed preferable not to quote the plants from the three publications mentioned and to elaborate in this flora only the data from recent collections, found in the Utrecht herbarium.

1) G. J. Simons. Beschrijving van het eiland Curaçao. Oosterwolde 1868.

2) C. Hurtado. Compendio di botanica elemental. Curazao. Benthencourt e Hyos. 1891.

CHAPTER II

NOTES ON THE COLLECTIONS.

Collection W. F. R. Suringar.

Dr. J. Valckenier Suringar has been so kind to put at my disposal the diary of his late father *Prof. W. F. R. Suringar* about his journey to the Dutch W. I. Islands in 1885.

From these data it has been possible to point out the expeditions of this botanist in the three islands.

Suringar visited Curaçao in 1885 from Jan. 10—28, Febr. 11—17, Febr. 27—March 11, March 28—29, and made the following expeditions:

- | | | |
|--------|----|--|
| Jan. | 10 | Ft. Nassau, Altena, Pieter Maai. |
| " | 12 | Rif, plain near 't Hospitaal, Priesterberg. |
| " | 13 | Hato, Gasparito. |
| " | 14 | Beekenburg, Spaansche water, Kabrietenberg, Zuurzak. |
| " | 17 | Veeris. |
| " | 19 | Westpuntbaai, Savonet. |
| " | 20 | Savonetbaai. |
| " | 21 | Christoffelberg. |
| " | 22 | Savonet. |
| " | 23 | Tafelberg. |
| " | 24 | Tafelberg and Seroe trista. |
| " | 25 | St. Jan. |
| " | 28 | St. Jan, Schottegat. |
| Febr. | 11 | Zuikertuintje. |
| " | 12 | Brievengat, Ronde Klip. |
| " | 13 | Fuik, Fuikbaai. |
| " | 14 | Punt Canon, St. Barbara. |
| " | 17 | Klip near Willemstad, Schottegat, Grootkwartier. |
| March. | 1 | Berg between Schottegat and Hospitaal. |
| " | 4 | Michielsbaai, Veeris. |
| " | 7 | Pieter Maai, Rooi Kanarie. |
| " | 28 | Kleine Berg, Hermanus, Pt. Marie, Willebrordus, Plantage, Rif. |

Suringar visited Aruba from Jan. 30—Febr. 9 and made the following expeditions:

- Jan. 30 Oranjestad.
- ” 31 Rif near Oranjestad.
- Febr. 1 Kristalberg.
- ” 2 Santa Cruz, Hooiberg, Seroe Canashitoe, Warawara berg.
- ” 3 Fontein, Seroe Colorado.
- ” 4 Seroe Colorado, St. Nicolaas, Rooi Frances, St. Cruz.
- ” 5 St. Cruz.
- ” 6 Jamanota.
- ” 7 Noord.
- ” 9 Noord, Tankie.

Suringar visited Bonaire from Febr. 19—25 and made the following expeditions:

- Febr. 19 Fontein.
- ” 20 Rincon, Goto Baai, Slagbaai, Brandaris.
- ” 21 Slagbaai.
- ” 22 Boca Onima, Klein Bonaire (Molengraaff).
- ” 23 Playa.
- ” 24 Bolivia.
- ” 25 Witte pan.
- ” 26 Playa, Klein Curaçao.

Suringar's collections are preserved in the State Herbarium et Leyden, the plants bear no numbers, no more than those from the other islands. Since the sites are only indicated by a single word and consequently nothing can be concluded about the frequency of occurrence, I did not attempt in the Systematical part of this Flora to cite all these plants, as I did in the first part of the Flora of the W. I. Islands. In this latter case *Suringar's* notes sufficiently indicated the place, these islands being so much smaller and easier to survey. It seemed sufficient in the second part of the Flora to mention whether the plants had been collected by *Suringar* in the islands or not.

The circumstance that I could not get the whole of *Suringar's* plants at my disposal during some time, rendered an extensive account of his expeditions impossible and, in my opinion, superfluous, since nearly all parts visited by him were also studied by myself, as will appear when his expeditions are compared with mine. The labels of a great part of the Aruba plants show that many of them were collected by Pastor v. Koolwijk, so that Koolwijk is not a site, as the *Symb. Antill.* wrongly mentions in a few places.

A large portion of the Suringar collection has been determined by Prof. I. Urban and many plants from it are mentioned in his *Symbolae Antillanae*.

Collection Aschenberg.

In the herbarium of the Botanical Laboratory of the University at Utrecht is a fairly large collection of plants, gathered in Curaçao by *Aschenberg*. I have not succeeded in obtaining nearer information about it. It will be seen from the Systematical part of this Flora that a great many of the species, found by Suringar and myself, have also been collected by *Aschenberg*.

Collection F. A. F. C. Went.

A number of plants has been collected by *Prof. Dr. F. A. F. C. Went* during his stay in Curaçao in 1901. In the Systematical list they are indicated by the name *Went*.

Collection Miss A. Lens.

In 1907 *Miss Lens* collected a number of plants in Curaçao; this small collection is conspicuous by its fine specimens, since *Miss Lens* could take much time in drying them. They are chiefly ruderal plants and mentioned in the list by the name *Lens*.

Collection W. Versluys.

In 1907 *Mr. W. Versluys*, Government Agriculturalist made a collection of plants, indicated in the list as *Versluys*. It contains especially grasses.

Collection I. Boldingh.

As in the introduction to this Flora an account is given of my investigation of the Flora of the D. W. I. Islands, it may suffice here to mention the places where I stayed and from where I undertook expeditions. They are given in the same order as the expeditions themselves; for nearer information and for the meaning of the abbreviations in the Systematical Part I refer to the explanatory notes of the maps.

Curaçao: Oct. 16—Dec. 20, Jan. 18—28.

Oct. 22 Rif.

„ 24 Ft. Nassau.

„ 25—27 Casa Chiquito, Veerisberg, Blein, Soea, Mahoema.

- Oct. 28—30 Malpais, Blaauw, Klein Piscadera.
 Nov. 1—2 Westpunt.
 „ 2—4 Savonet, Christoffel.
 „ 5—10 Wacao, Hieronymusberg, Antonieberg.
 „ 11—13 Siberie, St. Pedro, Fontein, Ascention.
 „ 16 Plantersrust.
 „ 18 Hato.
 „ 19 Ronde Klip.
 „ 20 Valentijn, Schottegat.
 „ 21—22 Kl. Davelaar, Zuurrak, Brakkeput ariba, Beekenburg, Choloma.
 „ 23 Choloma, Groot St. Joris, Koraal Tabak.
 „ 24 v. Engelen, Waterloo, Noordkant.
 „ 30—Dec. 1 Kleine Berg, Patrick, St. Kruis, Knip.
 Dec. 2—4 Knip.
 „ 5—6 St. Kruis.
 „ 7—8 Kl. St. Martha, Dokterstuin.
 „ 8—9 St. Jan.
 „ 9 St. Jan, San Sebastian, Siberie, Hermanus.
 „ 14 Priesterberg.
 Jan. 24 Caracasbaai.
 „ 25 Malpais.

Aruba: Dec. 21—Jan. 18.

- Dec. 22 Oranjestad.
 „ 23 Jaboribori.
 „ 24 Jamanota.
 „ 25 Mansheba.
 „ 27—28 Noord, Alta Vista, Calabasha, Seroe Piat, Kristalberg, Boeshiribana, St. Cruz.
 „ 29 St. Cruz—Ajo.
 „ 30 Hooiberg, Canashito.
 Jan. 1 Seroe Soempinja, Andikurie, Daimarie, Sabanilla abau, St. Cruz.
 „ 4 Belashi.
 „ 5 Belashi, Mir la mar, Fontein, Seroe blanco, Belashi.
 „ 6 Savaneta.
 „ 11 Seroe Colorado.
 „ 12 St. Nicolaas, Savaneta.
 „ 13 Savaneta, Jamanota.
 „ 14 Savaneta, Paardenbaai, Seroe blanco, Seroe Kadoesji, Fontein, St. Cruz.

Bonaire: Jan. 28—Febr. 20.

- Jan. 30 Rincon.
 " 31 Makoetakau.
 Febr. 1 Playa grandi.
 " 2 Joewa.
 " 4 Rincon, Onima, Fontein.
 " 5 Rincon, Tola.
 " 7 Karakau.
 " 9 Brandaris, Slagbaai.
 " 10 Bolivia.
 " 11 Rooi Samboe, Seroe montagna.
 " 12 Rooi Samboe.
 " 14 Rincon, Kralendijk.
 " 15 Seroe grandi, Lagoen.
 " 16 Tanki maraka, Seroe montagna.
 " 17 Bacuna, Lac, Klein Bonaire.
 " 18 Zuidzoutpannen.
 " 19 Vuurtoren N. O. Bonaire.

2200 different plant numbers were collected altogether and elaborate notes were taken about the occurrence of conspicuous species, owing to which the descriptions of the vegetation and other notes in the Systematical list give a practically complete survey of the flora of the three islands.

Collection N. L. Britton and J. A. Shafer.

Prof. Dr. N. L. Britton and Dr. J. A. Shafer visited Curaçao in March 1913 and collected some 250 plants. Through the kindness of Dr. Britton the present writer has been able to study nearly all these plants personally, so that this recent collection could be incorporated. The sites mentioned show that the following spots were visited by the above mentioned gentlemen:

Willemstad and environs, Rif, Piscaderabaai, Mount Pleasant, St. Martha, St. Kruis, Ascencion, Wacao, Patrick, St. Peter, St. Jorisbaai, Caracasbaai.

Of nearly all plants doublets are found in the herbarium of the Botanical Laboratory at Utrecht.

It is possible that plants from Curaçao are also present in a few foreign herbaries. It appears, namely, from *I. Urban*, *Symbolae*

Antillanae, III 1902, that the following persons visited Curaçao and collected plants in the various islands:

J. Ph. B. von Rohr (about 1737—1793) visited Curaçao after 1786; he sent plants from the Antilles to *Prof. Vahl* at Copenhagen. It is possible that also in the Banks Herbarium in the British Museum, in the Martius Herbarium at Brussels and in the Wildenow Herbarium at Berlin a number of plants from Curaçao are found.

F. Bredemeyer (1758—1839) visited Curaçao about 1787; his collections are in the K. K. Hofmuseum at Vienna and in the herbarium of the Botanical Museum at Berlin.

J. Read also collected in Curaçao; his collections are in the Academy of Nat. Science at Philadelphia; West-Indian plants also in the Krug und Urban Herbarium at Berlin.

H. F. A. Baron von Eggers visited Curaçao in 1893; it is not known to the present author whether he also collected plants there. It did not seem advisable to spend time on a search for these plants, since in all probability this would not result in any new information.

From *N. J. Jacquin*, *Selectarum stirpium Americanarum historia* (1763), appears that at that time some sixteen plants from Curaçao were already known, while also in *Linn. Spec.* (1753) a number of data about Curaçao plants are spread.

THIRD PART

PHYTOGEOGRAPHICAL

**Section A. Orological, Geological
and Meteorological**

PHYTOGEOGRAPHICAL

A. Orological, Geological and Meteorological

CHAPTER I

GEOLOGICAL AND OROLOGICAL NOTES.

Introduction.

When preparing my journey to the three Leeward Islands I could only avail myself of the Geological and Orological data from K. Martin, Bericht über eine Reise nach Niederländisch West Indien., Leiden 1887.

At the time of my visit the Government was carrying out triangulations on the three islands and also preparing a topographical map of Curaçao.

Besides a general sketch-map of the roads on Curaçao, given me by Mr. Zelle, Head of the Public Works Department there, and a sketch-map of a part of Aruba, given me by Mr. R. J. Beaujon, I had no means of orientation in the three islands.

The lack of maps made itself still seriously felt in 1910 (i. e. 23 years after the publication of Martin's book); hence my topographical determinations are mostly based on local information.

During the preparation of this flora the Topographical map of Curaçao, on a scale 1/200.000 has been finished; this excellent map has still been helpful. Through the kindness of Prof. Grütterink I obtained a map of Aruba after the measurements of captain Lens.

In order to get an impression of the size of the different islands and of their mutual situation I used the map by H. M. van Straate ¹⁾.

1) West Indie, Curaçao, Bonaire en Aruba 1 : 300.000 samengesteld uit verschillende bronnen door den Luitenant ter Zee 2e klasse H. M. van Straate, 's Gravenhage. Ministerie van Marine, afd. Hydrographie. Januari 1899.

About the three small maps at the end of this Flora need only be said that the finding-places are given as exactly as possible; it seemed only necessary to indicate the border of the calcareous territories. The different abbreviations are explained in the extensive list of the sites.

While for more detailed information I refer to the work by K. Martin; Bericht über eine Reise nach Niederländisch West Indien 1887 and 1888, from which the greater part of what follows has been derived, a short account many here suffice.

Curaçao.

Of the terminal points of Curaçao Westpunt lies at $69^{\circ} 11'$ W. Long. and $12^{\circ} 23'$ N. Lat. and Punt Canon at $68^{\circ} 49'$ W. Long. and $12^{\circ} 3'$ N. Lat.; the greatest length of the island is 58 kilometres, its surface ± 450 square kilometres.

The long-drawn island is a hilly country, the hills consisting of diabase or being of cretaceous origin, the whole being surrounded by a layer of a coral-limestone formation. On the narrower part of the island the northern and southern coral-limestone masses join and reach there the considerable height of 90 M.

The inland hills are in East Curaçao lower than in the West and give a general impression of a low undulating hilly country; the tops are not much higher there than 60 M., as a rule; the high top nearer the North side (Ronde klip) is the only inland hill which is covered with a coral mass. It is 130 M. high.

The calcareous territory of East Curaçao reaches a height of 60 M. in some places of the North coast, on the South coast it is much lower and only in the Tafelberg (St. Barbara) reaches a height of 200 M. This Mount Barbara with its gentle slope towards the sea and abrupt vertical termination towards the interior is the type of the many chalk ridges at the South side of Curaçao.

From Seroe Seinpost a large plain extends eastwards and also round the Schottegat we find a fairly large plain, forming a low hilly country to the East and extending to the West as far as Mont Plaisant. The chalk ridge, extending along the North coast from Schottegat to the neighbourhood of Mont Plaisant, reaches 70 metres in some places. At the South coast the chalk ridge is more interrupted in these same parts and isolated mountains like Veerisberg and Seroepretoe are found as chalk rests. (± 140 M.). In the middle of the island a high chalk ridge extends from

Mont Plaisant to beyond the estate Siberie and reaches its highest point in Seroe Kloof and Seroe Dakoe.

From here to St. Kruisbaai and Playa Grandi a hilly country extends, which only in a new places (Dokterstuin) reaches 130 M. Near Anthonieberg (160 M.) a hilly country of greater height begins, forming the centre of the region North of St. Kruisbaai and Anthonieberg; we find there the complexes Tafelberg, 230 M., the top of which consists of chalk, and Christoffelberg, with ramifications extending to Westpuntbaai and St. Kruisbaai.

Anthonieberg, Tafelberg and Christoffelberg are, excepting a few coast mountains, the only heights in West Curaçao which may be properly called mountains; they are the only ones which stand more or less alone. Christoffelberg is 372 M. high and has slopes that cannot be ascended; a road, consisting of sharp prominent rocks, winds from Savonet to the top. All other heights on West Curaçao, on the other hand, are only separated by slightly inclined and gently undulating grounds. The coast mountains, consisting of chalk ridges which surround the whole island, descend on the North coast everywhere in terraces, whereas on the South coast more gently sloping plains are chiefly found. Valleys, perpendicular to the coast, often cut the chalk ridges into isolated mountains. On the South coast of West Curaçao, e. g. near Knip, the chalk ridge is not so high. The perpendicular inland wall is not seen there and the calcareous mass is covered with fragments of the rocks, forming the mountain complex.

The hills of East Curaçao are mostly of a brown red colour and where vegetation is scarce the weathered stone is seen at the surface in small fragments.

The same may be observed about the Eastern middle part. West Curaçao is generally more grown over and less stone is found there at the surface.

Only in all plantations and in their immediate vicinity a more fertile soil is found; the plantations („hofjes”) are mostly situated near the large inland waters.

Aruba.

The West point of the island lies at $\pm 70^{\circ} 4' W.$ Long. and $12^{\circ} 37' N.$ Lat.; the East point at $\pm 69^{\circ} 51' W.$ Long. and $12^{\circ} 24' N.$ Lat. The greatest length of the island is 32 kilometres, its surface ± 170 square kilometres. We may represent it as a fairly large plain of quartz-diorite, rising slowly towards the

middle and highest in the North and which in the North East even develops hills. At the centre of this quartz island a diabase triangle rises, forming a complex of hills which is especially conspicuous in the North.

The quartz-diorite part eastward of the line Belashi — Cashuntie is still partly covered with quaternary riff-chalk, although not nearly to such an extent as is indicated by Martin in his map. There are fairly high hills of quartz-diorite (Paloe Marga 78 M., Seroe Preto 61 M.) between Savaneta and Jamanota and this rock also rises to the surface in many places between Savaneta and Fontein. Part of the South coast of West Aruba is occupied by a large broad seam of riff-chalk, which in some places (Boeroekoe 21 M.) reminds one of the limestone hills on the South coast of Curaçao. The Canashito is a more inwardly situated limestone ridge. From the plain of West Aruba rises isolated the conical Hooiberg, 164 M. Also the Seroe Plat, 94 M., is an isolated mountain and is surmounted by a calcareous table-land.

The diabase hilly complex, extending over a territory, bordered by lines from Matavidiri to Belashi, from there to Boca Prins and then along the North coast to Matavidiri, has a number of high tops, among them Ariekok 175 M. and Jananota 188 M. From these tops the country slowly descends to the South and West and the whole landscape is dominated by cup-shaped hills, separated by gently sloping valleys; in some places we find perpendicular walls. On the North coast we meet in a few places the same limestone terraces which exist on the West coast of Curaçao.

Bonaire.

The West point of the island lies at $\pm 68^{\circ} 12'$ W. Long. and $12^{\circ} 14'$ N. Lat., the most Southern point at $\pm 68^{\circ} 24'$ W. Long. and $12^{\circ} 13'$ N. Lat. The greatest length of the island is 36 kilometres, its surface about 240 square kilometres. It consists of a quaternary limestone formation, pierced in two places by mountainous complexes of cretaceous origin, diabase and glimmer porphyrite.

A limestone mountain-range of semi-circular shape separates the Rincon plain and the part to the West of this latter from the other non-calcareous part, which extends over a much larger surface than Martin's map shows.

The remaining part of the island East of this limestone complex

consists entirely of limestone, with various table-lands and partly covered with fragments of the other rocks, forming the foundation of the island.

Also the North and West margin of the Rincon plain and the mountainous complex of Slagbaai is surrounded by a narrow coral-limestone mass, which is particularly broad South of Rincon and descends in terraces to the sea; in the West this mountain ridge is repeatedly divided into isolated mountains by steep clefts. The high chalk-terrace Langeberg determines the shape of the island; the next terrace extends from Langeberg in all directions to about 2 kilometres from the sea, except in the South, where the third terrace appears a little South of Lac, following a W. E. line. The remaining part of the island consists, like the circumference of Klein Bonaire, of a lower chalk formation. The mountain complex in West Bonaire has its highest top in the Brandaris, 240 M. From this mountain and the Karakao, 158 M., situated a little more to the N. E., two mountainranges proceed in a S. E. direction, consisting of round cup-shaped hills with a few apices and ending in the Joewa and Makakoe.

Besides the large valley of Rincon, bordered to the West by the Brandaris complex, to the South by the high chalk ridge and to the North by the lower chalk ridge we find in East Bonaire a large plain, extending from Karakao to the coast.

General notes.

On account of the occurrence of eruptive rocks in the islands Curaçao, Aruba and Bonaire Sievers¹⁾ is of opinion that these islands must be considered to form one complex with Goajira, which in its turn would cohere with the Sierra Nevada de Santa Martha and extend over the first mentioned islands as far as Los Rocques. When discussing the vegetation we shall see that a few plants occurring in Santa Martha are found in the three islands, forming the subject of this Flora. It should be noted that Aruba is separated from the other islands by a sea-depth of 2000 M. and falls quite within the coast line of Venezuela where the depth is 200 M. Also the isle of Margarita lies inside the coast line of 200 M. depth; contrary to the group Aruba, Curaçao, Bonaire, it consists of archaic rocks and corresponds entirely to the continental land of Arya and Paria.

1) W. Sievers: Karten zur physikalischen Geographie von Venezuela in Dr. A. Petermanns Mitteilungen aus Justus Perthes' Geogr. Anst. 42. Band. 1896. VI. p. 125.

CHAPTER II

METEOROLOGICAL NOTES.

About the Dutch Leeward Islands not much more is known than that a strong N. E. monsoon blows there and that the annual rainfall is usually very small.

The influence of the winds is noticed in the outward appearance of the landscape; the tops of the trees are always stretched in a N. E. — S. W. direction, unless they stand in protected places. This causes these often very poorly looking trees to have a peculiar appearance; the wind seems to be so strong that at the exposed side they have hardly any leaves.

The temperature of the islands varies from 24 to 29° C.

The annual amount of the rainfall remains far behind that of the three Dutch Windward Islands and very dry years have been observed. The following table gives the rainfall for Curaçao, Aruba and Bonaire.

**Rainfall in mm. from January—December of the West
Indian Islands, Curaçao, Aruba, Bonaire. ¹⁾**

Average.	1899.	1909.				
		Curaçao.	Curaçao.	Aruba.	Bonaire.	Bonaire.
Curaçao.	Curaçao.	Hoffe abau.	Fort Amsterdam		Rincon.	Kralendijk
58	60	193	114	131	74	89
27	22	93	93	33	64	56
21	28	8	10	2	6	5
14	1	30	40	19	16	10
3	2	2	4		3	3
18	9	13	21	12	53	30
29	18	41	55	45	58	47
41	46	16	57	19	9	3
33	4	48	11	52	16	19
46	14	141	153	63	15	43
125	66	498	325	358	213	233
81	89	113	100	25	144	108
526	359	1196	983	759	671	646

This table shows that the year 1909 was exceptionally favourable for studying the flora, since, owing to the abundant rains, a very large number of plants were found flowering.

¹⁾ After: Went, Rapport omtrent den toestand van Land- en Tuinbouw op de Nederlandsche Antillen 1902 and Meteorologische Waarnemingen in Suriname en Curaçao in het jaar 1909.

THIRD PART

Section B. Distribution of the Wild Plants enumerated in the First Part



B. Distribution of the Wild Plants enumerated in the First Part

CHAPTER I

DISTRIBUTION OF ALL THE WILD PLANTS ENUMERATED IN THE FIRST PART.

	Both hemisph.	Amer. trop.	Islands and Am. Centr.	Islands and Am. Merid.	Islands.	Indig.	Total.
Filices	1	2	.	.	.	.	3
Typhaceae . . . . .	.	1	.	.	.	.	1
Potamogetonaceae	1	.	.	.	1	.	2
Najadaceae . . . . .	.	.	1	1	.	.	1
Alismataceae . . . . .	.	.	1	.	.	.	1
Hydrocharitaceae . . . . .	.	.	.	1	1	.	2
Gramineae	13	6	.	6	5	4	35
Cyperaceae	12	3	1	3	4	1	23
Lemnaceae	1	1	.	.	.	.	2
Bromeliaceae . . . . .	.	2	1	1	.	.	4
Commelinaceae . . . . .	.	1	1	1	.	.	2
Amaryllidaceae . . . . .	.	.	.	.	.	3	3
Orchidaceae . . . . .	.	.	1	1	.	.	2
Ulmaceae . . . . .	.	1	.	.	.	.	1
Moraceae . . . . .	.	1	.	.	.	1	2
Urticaceae . . . . .	.	.	1	.	.	.	1
Loranthaceae . . . . .	.	.	1	.	.	.	1
Oleaceae . . . . .	.	.	1	1	.	.	1
Polygonaceae . . . . .	.	1	.	1	1	.	3
Chenopodiaceae	2	1	.	1	.	.	4
Amarantaceae	4	2	.	1	2	.	9
Nyctaginaceae . . . . .	.	4	1	1	.	1	6
Batidaceae	1	.	.	.	.	.	1
Phytolaccaceae . . . . .	.	1	.	.	.	.	1
Aizoaceae	2	1	.	.	.	.	3
Portulacaceae	1	.	1	2	1	.	5

	Both hemisph.	Amer. trop.	Islands and Am. Centr.	Islands and Am. Merid.	Islands.	Indig.	Total.
Nymphaeaceae		1					1
Menispermaceae . . .	1						1
Papaveraceae	1						1
Cruciferae						1	1
Capparidaceae	1	1	1	6	1		9
Leguminosae	16	3	9	16	2	1	41
Erythroxylaceae . . .				1			1
Zygophyllaceae	1	1		1	1	1	5
Rutaceae				2	2		4
Simarubaceae	1						1
Burseraceae		1		1		1	3
Meliaceae				1			1
Malpighiaceae		1		3			4
Polygalaceae			1	1			1
Euphorbiaceae	4	9	1	5	6	2	26
Anacardiaceae				1			1
Celastraceae				1	1	1	3
Sapindaceae	2			1			3
Rhamnaceae				1	1	1	3
Vitaceae		1		1			2
Tiliaceae	2		1	1			3
Malvaceae	8	3	2	4	1		16
Sterculiaceae	2	1	1	1			4
Guttiferae				1			1
Cochlospermaceae . . .			1				1
Flacourtiaceae					1		1
Turneraceae			1	2	1		3
Passifloraceae	1	1					2
Loasaceae		1					1
Cactaceae			2		2	4	8
Lythraceae	2	1					3
Rhizophoraceae	1						1
Combretaceae	2						2
Myrtaceae					1		1
Oenotheraceae	1						1
Umbelliferae				1			1

	Both hemisph.	Amer. trop.	Islands and Am. Centr.	Islands and Am. Merid.	Islands.	Indig.	Total.
Theophrastaceae . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	. . . . .	1
Sapotaceae . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	. . . . .	1
Loganiaceae . . . . .	. . . . .	1	. . . . .	. . . . .	. . . . .	. . . . .	1
Apocynaceae . . . . .	. . . . .	. . . . .	. . . . .	1	. . . . .	. . . . .	1
Asclepiadaceae	2	. . . . .	. . . . .	1	. . . . .	1	4
Convolvulaceae	9	5	5	9	. . . . .	. . . . .	25
Hydrophyllaceae . . . . .	. . . . .	1	. . . . .	. . . . .	. . . . .	. . . . .	1
Borraginaceae	2	5	3	2	1	. . . . .	11
Verbenaceae	3	3	2	2	2	. . . . .	11
Labiatae	3	1	. . . . .	. . . . .	. . . . .	. . . . .	4
Solanaceae	3	1	1	3	. . . . .	. . . . .	7
Scrophulariaceae . . . . .	. . . . .	2	. . . . .	2	. . . . .	. . . . .	4
Bignoniaceae . . . . .	. . . . .	1	. . . . .	1	. . . . .	. . . . .	2
Acanthaceae	1	. . . . .	2	2	. . . . .	. . . . .	3
Myoporaceae . . . . .	. . . . .	. . . . .	. . . . .	1	. . . . .	. . . . .	1
Rubiaceae	1	4	4	3	2	. . . . .	13
Cucurbitaceae	1	1	. . . . .	1	. . . . .	. . . . .	3
Compositae	3	3	4	5	3	2	20
Total	113	80	42	106	44 ^c	25	394
	192		37 ^a 5 ¹ | 84 ^b 22 ²)				
			148				
			$a + b + c = 166^3)$				

1) 5 in Americ. Centr.

37 in Americ. Centr. + Antill.

2) 84 in Americ. Merid. + Antill.

22 in Americ. Merid.

3) Antill.

From the preceding list will be seen that in the three Dutch West Indian Islands 394 wild plants occur; of these 25 are indigenous, 44 Curaçao, Aruba and Bonaire have in common with the Antilles only, 84 with the Antilles and South America, 37 with the Antilles and Central America, 5 with Central America only and 22 with South America only. Besides 80 plants are found in

the three islands which grow in the whole of tropical America and 113 which are also found in the Old World.

The following list shows the numerical distribution of the species, occurring in the three islands, over the principal families. For comparison also the numbers for Margarita have been given; the numbers of plants, occurring in the Dutch Islands as well as on Margarita, are placed between brackets.

	Curaçao, Aruba, Bonaire.	Margarita.
Leguminosae	41	65 (16)
Gramineae	35	25 (10)
Convolvulaceae	25	11 (4)
Euphorbiaceae	24	31 (16)
Cyperaceae	23	14 (2)
Compositae	20	30 (10)
Malvaceae	16	13 (8)
Borraginaceae	11	15 (12)
Rubiaceae	13	17 (4)
Verbenaceae	11	19 (6)
Capparidaceae	9	12 (9)
Amarantaceae	9	13 (6)
Cactaceae	8	11 (3)
Solanaceae	7	23 (2)
Nyctaginaceae	6	4 (3)

From this list and still more from the Systematical Part itself appears how in the three Dutch West Indian Islands many families are only represented by a single genus and often by only one species and that, on the whole, only a few genera occur with a large number of species.

The number of species, found on each of the three islands, is given in the following list.

	Curaçao.	Aruba.	Bonaire.	Total.
Total number	357	213	239	394
Antilles plants only	40	25	31	44
South Amer. plants only	20	12	14	22
Indigenous	22	14	18	25

Hence the ratios of total number of the three groups are approximately as 360 : 220 : 250. The present author knows no reason why this should be so; probably there is no connection with the ratio of the surfaces of the islands which is as \pm 360 : 119 : 153.

Taking into consideration all the wild plants, except those which are also found in the Old World and in North and South America, the three Dutch Islands share 106 plants or 25% more with South than North America and 42 plants or 10% more with Central than North America.

Comparing these numbers with the corresponding ones for the flora of Portorico ¹⁾, where they are 15% and 7%, we see that the Dutch West Indian Islands contain relatively more Central and South American plants than Portorico, although this island has already a fairly large number of South American plants. What Urban says (p. 681): „dass die Flora von Portorico die stärksten Beziehungen zu Süd-Amerika aufweist“, holds still more for Curaçao, Aruba and Bonaire.

Moreover we see that in the Dutch W. I. Islands 22 species or 11% occur which are besides only found in South America, while for Portorico these numbers are 6 species or 0.3%.

This clearly proves that the flora of the three Dutch W. I. Islands has a much greater resemblance with that of South America than the Flora of Portorico has with the South American Flora. All this refers only to the numerical distribution of the plants, as given in the lists.

With regard to the flora of Portorico we cannot make comparisons as to the plants, determining the vegetation. Our discussion in the Third Part Section C will show, however, that the flora of Curaçao, Aruba and Bonaire shows in many respects strong tendencies towards that of the Antilles.

¹⁾ I. Urban, l. c., pp. 680, 681.

These lists admit no other conclusion than that the very generally distributed plants, mostly shrubs or trees, occur abundantly in the islands Curaçao, Aruba and Bonaire, particularly *Coccoloba diversifolia*, *Capparis jamaicensis*, *Croton flavens*, *Jacquinia barbasco*, *Bumelia obovata*, *Beureria succulenta*; from which would follow that the vegetation of these islands strongly resembles that of the Antilles.

CHAPTER III

Distribution of the plants only known from South America and Curaçao, Aruba and Bonaire.

<i>Bromelia lasiantha</i>	Cur.	Arub.			Venezuela.
<i>Schomburgkia tibicinis</i> . . .	Cur.		Bon.		Honduras.
<i>Triplaris coriacea</i>	Cur.				Barcelona, Caracas.
<i>Portulaca venezuelensis</i> . . .	Cur.	Arub.	Bon.	Marg.	Venezuela.
<i>Capparis linearis</i>	Cur.	Arub.		Marg.	Venezuela.
<i>Capparis tenuisiliqua</i>	Cur.		Bon.	Marg.	Venezuela.
<i>Pithecolobium platylobum</i> . .		Arub.			St. Martha, Venezuela.
<i>Dalea phymatodes</i>	Cur.				Venezuela.
<i>Aeschynomene falcata</i>	Cur.				Brasilia, Amer. Merid., Bolivia.
<i>Geoffraea superba</i>	Cur.		Bon.		Amer. Austr.
<i>Phaseolus longepedunculatus</i>	Cur.	Arub.	Bon.		Brasilia.
<i>Bursera tomentosa</i>	Cur.	Arub.	Bon.		Nova Granata, Venezuela.
<i>Trichilia trifolia</i>	Cur.				Cumana.
<i>Malpighia puniceifolia</i> . . .	Cur.	Arub.	Bon.	Marg.	North S. America.
<i>Serjania curassavica</i>	Cur.	Arub.	Bon.		Nova Granata.
<i>Omphalophthalmus ruber</i> . . .	Cur.	Arub.	Bon.		Nova Granata.
<i>Jacquemontia cumanensis</i> . . .	Cur.		Bon.		Nicaragua, Venezuela.
<i>Jacquemontia evolvuloides</i> . .	Cur.		Bon.		Br. Guiana, Brasilia, Bolivia, Parag., Arg.
<i>Stachytarpheta sanguinea</i> . .		Arub.			Brasilia.
<i>Scoparia annua</i>	Cur.	Arub.	Bon.		Brasilia.
<i>Tecoma chrysantha</i>	Cur.	Arub.	Bon.		Venezuela.
<i>Machaonia Ottonis</i>	Cur.		Bon.		Venezuela.

Among these there are some which give a typical aspect to the vegetation. These are dealt with in the Third Part Section C.

CHAPTER IV

Distribution of the indigenous plants from Curaçao, Aruba and Bonaire.

<i>Andropogon curassavicus</i>	Curaçao.		
<i>Chloris leptantha</i>	Curaçao.	Aruba.	Bonaire.
<i>Chloris Suringari</i>	Curaçao.		
<i>Eragrostis Urbaniana</i>	Curaçao.	Aruba.	Bonaire.
<i>Bulbostylis floccosa pumilio</i>	Curaçao.		Bonaire.
<i>Agave Trankeera</i>	Curaçao.	Aruba.	Bonaire.
<i>Agave vicina</i>		Aruba.	
<i>Agave vivipara</i>	Curaçao.		
<i>Ficus Brittonii</i>	Curaçao.		Bonaire.
<i>Pisonia bonairensis</i>	Curaçao.	Aruba.	Bonaire.
<i>Greggia Urbaniana</i>		Aruba.	
<i>Kallstroemia curta</i>	Curaçao.	Aruba.	
<i>Bursera bonairensis</i>	Curaçao.	Aruba.	Bonaire.
<i>Phyllanthus Euwensii</i>	Curaçao.	Aruba.	Bonaire.
<i>Croton curassavicus</i>	Curaçao.		
<i>Maytenus Versluysii</i>	Curaçao.		Bonaire.
<i>Condalia Henriquezii</i>	Curaçao.		Bonaire.
<i>Casearia bonairensis</i>	Curaçao.	Aruba.	Bonaire.
<i>Cereus repandus</i>	Curaçao.	Aruba.	Bonaire.
<i>Cephalocereus lanuginosus</i>	Curaçao.	Aruba.	Bonaire.
<i>Melocactus spec.</i>	Curaçao.	Aruba.	Bonaire.
<i>Opuntia tunoides</i>	Curaçao.	Aruba.	Bonaire.
<i>Opuntia elatior</i>	Curaçao.		Bonaire.
<i>Metastelma Boldinghii</i>	Curaçao.		Bonaire.
<i>Melampodium bonairense</i>	Curaçao.		Bonaire.
<i>Pectis brachycephala</i>		Aruba.	

Only a small number of these plants give a typical aspect to the vegetation and occur so abundantly that they are an important factor in imparting to the flora of these islands a character of its own. See on this point Third Part, Section C.



THIRD PART

Section C. The vegetation of Curaçao, Aruba and Bonaire



CHAPTER I

NOTES ON THE ASPECT OF THE VEGETATION OF CURAÇAO, ARUBA AND BONAIRE.

The general impression of the vegetation of the islands Curaçao, Aruba and Bonaire is that of a dry country, where thorny shrubs and cactuses predominate and more or less compete with each other.

When, e.g. on Bonaire we climb one of the hills of the Western part, we see there in their purest, intact condition the pretty thick bushes of shrubs, from which tree-shaped *Cereus* species rise to a great height.

Since everywhere in the three islands a strong N.E. monsoon blows incessantly, the climate is rather dry and there is generally not much variation between high and low, also the vegetation has everywhere a rather uniform aspect.

Excepting a few less exposed parts and the higher tops of Curaçao and Bonaire, the whole vegetation may be said to have a more or less xerophile character; in many places where the soil is covered by hardly any humus, as on the numerous limestone table-lands, it becomes a very poor vegetable cover, made up chiefly of Cactaceae, some Rubiaceae and Euphorbiaceae with sparse Gramineae; a scanty cover is also found on the diabase hills in the East of Curaçao and in the Northern middle part of Aruba, where a few Gramineae, a poor *Corchorus* and *Heliotropium* shrubs form the widely scattered vegetation. In the more sheltered parts or where more humus is found and cattle does not graze off everything, the whole surface is covered with rather low shrubs and low trees, among which especially Leguminosae prevail; nearly everywhere the soil is clearly visible and not covered by a connected vegetation.

In the lower parts, in the neighbourhood of the „Hofjes”, meadows are often found and the plant-cover is more coherent.

In the sheltered parts tree-growth is more prominent and where shrubs are found *Acacia tortuosa* is always noticed; Cactuses

are more or less predominant in the landscape and together with the shrubs give it a uniform type, only modified by variations in the numerical ratio in which the plants occur. This will make it sufficiently clear that in the Leeward Islands differences in the vegetation types as exist on the Windward Islands are not to be expected. The type of vegetation on the Leeward Islands might be generally described as a **Croton** vegetation, here as on the Windward Islands determined by plants like Croton, Acacia, Lantana, Melochia, Opuntia, Melocactus, to which for the Leeward Islands may be added a number of other plants, as will appear from the further description. On the Leeward still more than on the Windward Islands this type of vegetation cannot be distinctly separated from the litoral vegetation which only near the salt-pans assumes a character of its own by the occurrence of Mangrove plants.

In many parts of the Islands culture or traces of former culture are found; also ruderal plants are found everywhere, among which a large number of tropical cosmopolitans. A genuine original vegetation is only found in the higher parts.

We saw that in general there is some difference in the vegetation, depending on shrubs or herbs being more prominent; a division according to the occurrence or non-occurrence on calcareous soil and a characterisation of these vegetation types is possible in exceptional cases only. So we do not or hardly ever find on calcareous soil:

Panicum velutinsum,
Pisonia bonairensis,
Capparis Breynia,
Capparis linearis,
Trichilia trifolia,
Spondias Mombin.

On the other hand we always or nearly always find on lime:

Sesuvium portulacastrum,
Fagara monophylla,
Phyllanthus polycladus,
Metopium Brownei,
Rhacoma crossopetalum,
Tournefortia gnaphalodes,
Antirrhoea acutata.

Of these two groups *Capparis Breynia* is characteristic for the vegetation outside the lime and *Rhacoma crossopetalum* and *Antirrhoea acutata* for lime.

Now, since a large number of other plants abound as well on lime as outside it, without being restricted to either of the two soils, it will be understood that only in a few cases and exactly by the last named plants, when these occur in large quantities, we can settle whether a calcareous or a non-calcareous vegetation is present.

As the result of these observations we have:

A **litoral vegetation**, difficult to separate from the principal form the **Croton-vegetation**; this latter is determined by *Acacia* and *Croton* and has either a *Capparis* type or a *Rhacoma-Antirrhoea* type. In the higher parts this *Croton-vegetation* changes into a more forestlike type; in general the predominant Cactuses are found in the lower parts, although on Bonaire also some hills are covered with them. The characteristic *Rhacoma* type is entirely absent on Aruba, as this plant does not occur there.

The vegetation on Aruba receives a peculiar aspect through *Pithecolobium platylobum*, which occurs there in very large numbers, especially in the mountainous part, while on Curaçao and Bonaire *Randia aculeata* forms a very important constituent of the vegetation.

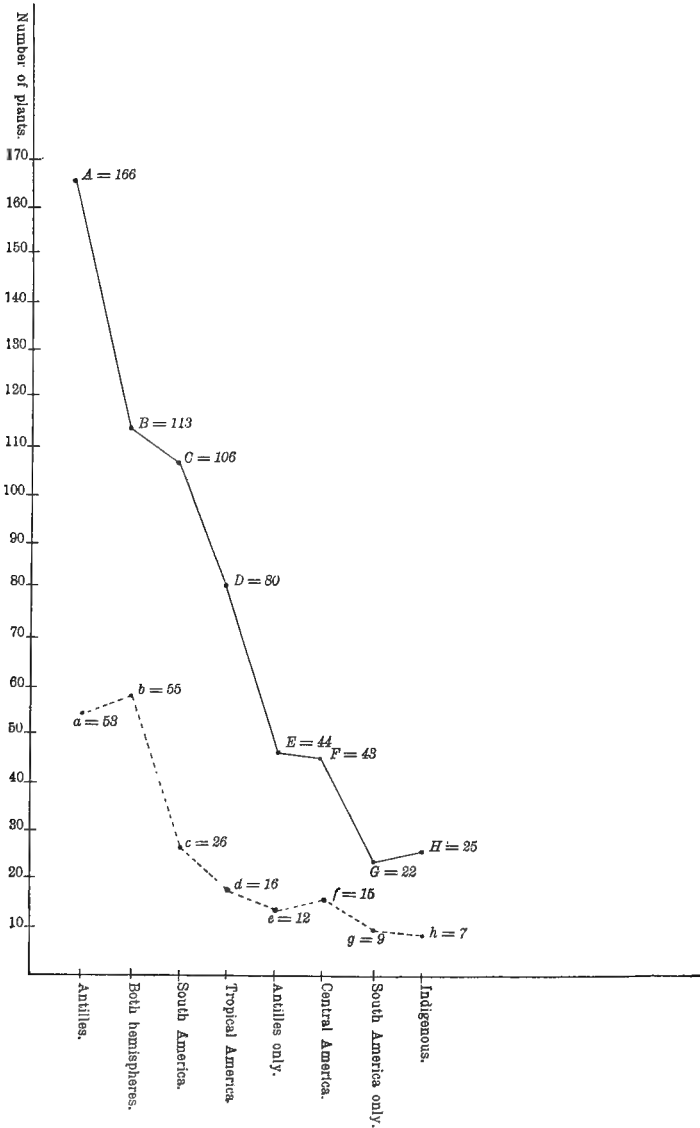
Acacia villosa which predominates in certain parts of Curaçao is on the other hand entirely absent on Aruba and Bonaire.

If only a small number of plants is available to settle a vegetation type, it will be seen on comparison with the list of the plants that are only found in the Dutch W.I. Leeward Islands, that among the plants, typical for this purpose, not a single indigenous one occurs. Hence the aspect of the vegetation in the three Islands is not typically individual by the occurrence of definite indigenous plants but depends on plants that also occur elsewhere.

Now leaving aside certain types of the vegetation and looking at it as a whole, we are particularly struck by the *Cereus* species which are either indigenous or South American, the *Melocacti*, which are indigenous and other indigenous plants that predominate in certain parts, the *Agaves*, *Phyllanthus Euwensii*, *Peltophorum Suringari*, *Chloris leptantha*, *Eragrostis Urbaniana*. Beside this small number of indigenous plants of which the *Cactaceae* may be said to occur everywhere, we have a large number of Antilles plants, as: *Coccoloba diversifolia*, *Lithophila muscoides*, *Capparis jamaicensis*, *Guaiacum sanctum*, *Fagara flava*, *Croton flavens*, *Jacquinia barbasco*, *Bumelia obovata*, *Beureria succulenta*, *Antirrhoea acutata*, *Morinda Royoc*, so that the vegetation is in complete harmony with the flora of the Antilles.

The following graphical representation shows the numbers of different species in relation to their distribution and their share in determining the aspect of the vegetation.

The continuous line joins the numbers relating to the total number of occurring plants, the dotted one joins the corresponding numbers referring to the numbers of plants, conspicuous in the aspect of the vegetation in the Islands.



Hence:

$$A : a = 3,1$$

$$C : c = 4,1$$

$$D : d = 5$$

$$E : e = 3,7$$

$$G : g = 2,4$$

These equations show as well as the general shape of the curves that:

if we compare the total number of plants with the number of those that determine the vegetation, this latter number is relatively smaller with the South American plants than with the indigenous Antilles plants, smaller again with these than with the plants growing in the Antilles and for these again smaller than with the indigenous South American plants.

So we conclude that the influence of the South American flora is strongest; we saw (p. 139) that also numerically this influence is stronger on the flora of the Dutch W. I. Islands than on that of Portorico.

Still I should conclude from what I have personally seen and from the tables about the distribution of the Antilles plants and of the purely South American ones, that the outward appearance of the vegetation, in spite of the typical *Cereus* species which are either indigenous or South American and indigenous plants like *Casearia bonairensis*, *Phyllanthus Euwensii*, is chiefly due to the Antilles plants.

To this should be added, however, that among the typically South American plants there are a number which, although they do not form a typical part of the vegetation, still occur in particularly interesting spots, those namely where culture has least intruded and which are most inaccessible. Such are: *Triplaris coriacea*, *Capparis linearis*, *Tecoma chrysantha*, *Capparis tenuisiliqua*.

Now these are exactly plants which occur in St. Martha and in the part of South America which geologically (see p. 129) related to the three Dutch Islands Curaçao, Aruba and Bonaire.

CHAPTER II

DESCRIPTION OF THE VEGETATION OF CURAÇAO, ARUBA AND BONAIRE.

It appeared in Ch. I, p. 149 that in the three Islands no sharp demarcation lines can be drawn between the various types of vegetation. For this reason I shall not give an enumeration of the plants, belonging to the different vaguely distinguished regions, but prefer to describe some twenty-eight spots in various parts of the islands, following entirely the locally collected notes.

Curaçao.

The Riff.

This extends near Willemstad on the West side along the coast and consists of coral-lime with calcareous sand. It contains a number of ruderal and typical litoral plants along the sea-coast; the small lagunes are rich in *Laguncularia racemosa*, *Avicennia nitida* and *Rhizophora* Mangle; *Philoxerus vermicularis* occurs there as a herb together with *Sesuvium portulacastrum*; also an occasional *Cyperacea* and *Heliotropium curassavicum*. *Morinda Royoc* as a very low shrub together with *Euphorbia thymifolia* occurs frequently on the lime grounds, while *Conocarpus erecta* forms whole complexes; also *Gundlachia corymbosa* and *Suriana maritima* form green globular groups, while *Erithalis fruticosa* with its shining leaves and *Acacia tortuosa* with its sharp prickles are very frequent; the *Acacia* itself reaches the height of a tree here.

Round the smaller water complexes and salt-pans we find in large numbers *Batis maritima* and *Salicornia ambigua*, together again with *Laguncularia racemosa*, *Conocarpus erecta* and *Suriana maritima*. Further on, on the higher parts, we also frequently meet *Cordia cylindrostachya*, while an occasional tree rises high above the shrubs, as *Thespesia populnea*. Also *Coccoloba uvifera* is in some places conspicuous by a somewhat greater height.

Leaving the lower parts we see on the slightly higher lime grounds besides numerous Cactuses especially *Jatropha gossypifolia*, while *Caesalpinia coriaria* and *Haematoxylon Brasiletto* with *Rhacoma crossopetalum* form the higher thicket of shrubs.

In combination with a great many *Phyllanthus Euwensii*, *Beureria succulenta*, *Croton flavens* and *Cordia globosa* they form a vegetation which has entirely the aspect of the *Croton* vegetation, with already an occasional *Randia* in it.

The plant-growth on these lime hills agrees entirely with the typical lime hill vegetation in all parts of Curaçao, of which as a specimen I shall describe:

The lime hills near St. Martha.

When we descend to the sea from the top of one of the lime terraces near it, we are particularly struck by the abundance of high shrubs or low trees like *Malpighia*, *Guaiacum officinale*, while *Croton flavens* with *Phyllanthus Euwensii*, *Randia aculeata*, *Bursera tomentosa*, *Caesalpinia coriaria*, *Haematoxylon Brasiletto*, *Bursera simaruba* are the principal constituents of the pretty dense thickets of shrubs, with *Euphorbia thymifolia* and especially *Capraria biflora* at the bottom.

Nearer the sea, somewhat lower on the incline, *Lantana involu-crata*, *Bumelia obovata* and *Croton* vegetation become prominent and finally *Agave vivipara* with *Cactaceae*.

Especially in the part West of St. Martha the lime hills are highly overgrown and tree-like forms become more prominent.

Similar in its general character to the above mentioned lime hills, but in its details somewhat different is the plant-growth on the

Kabrietenberg near Beekenburg.

Climbing this fairly high lime hill from the land-side we meet again the rather dense shrubs, among which we notice *Malvastrum spicatum*, *Melochia tomentosa*, *Sida*, *Croton flavens*, *Cordia cylindrostachya*, *Lantana camara*; a very dense shrub-growth compared with the much more scantily overgrown parts of Curaçao. *Beureria succulenta* and *Acacia tortuosa* rise above these shrubs together with *Haematoxylon Brasiletto* and *Machaonia Ottonis*; in places where the shrubs are less dense we find the soil pretty thickly covered with *Tephrosia cinerea*, *Heliotropium humile*, *Sida*, *Chloris*, *Mariscus fuliginus*, *Hyptis pectinata* and *Paspalum glabrum*, while *Ipomoea* winds through everywhere.

A few *Bursera bonariensis* and *Antirrhoea acutata* form again, together with a large number of *Casearia bonariensis* and *Haematoxylon Brasiletto*, the higher shrubs or stick out with Hippo-

mane mancinella, *Tecoma chrysantha*, while also *Croton niveus* is conspicuous by its shining leaves amidst *Cordia alba*, *Cordia cylindrostachya* and *Crescentia Cujete*.

More even lime grounds are very numerous in Curaçao; they contain chiefly plant combinations such as I described for the two calcareous districts mentioned.

We next describe

The calcareous district near Fontein.

On a slope, close to a deep cleft, *Bursera*, *Randia aculeata*, *Beureria succulenta*, *Caesalpinia coriaria*, *Acacia villosa*, *Acacia tortuosa*, *Phyllanthus Euwensii*, *Croton flavens*, *Jatropha urens* with its very strong stinging hairs, *Capparis cynophallophora*, *Crescentia Cujete*, *Malpighia*, *Machaonia Ottonis* and a few *Triplaris coriacea* form the high thicket of shrubs. Similar to this is

The calcareous district near Siberie.

It has mainly the same plants, only the following are conspicuous by their large numbers: *Rhacoma crossopetalum*, *Coccoloba diversifolia*, while in more open parts *Heliotropium* and a number of grasses cover the soil. *Croton niveus*, *Malpighia* and especially many *Cephalocereus lanuginosus* are together with *Guaiacum officinale* and *Condalia Henriquezii* the principal plants, while here *Metopium Brownei* is already one of the tallest trees.

The lime district near Savonet.

Here the soil is more open in many places, the shrubs are less high, so that *Evolvulus*, *Heliotropium*, *Croton glandulosus*, *Sida*, and especially *Sporobolus argutus* are conspicuous; as a lower shrub we see *Kramera ixina*; here, as in the above mentioned regions, *Cereus* and *Opuntia* are seen everywhere in varying numbers, while *Cereus repandus* is very frequent; on the grounds towards the sea are many bare parts again, where *Paspalum glabrum* is conspicuous and *Cordia cylindrostachya* is frequent with *Conocarpus erecta* and forms whole complexes; there is also found (the only place known to me) *Amoreuxia palmatifida*; *Jacquinia barbasco* and *Caesalpinia coriaria* often stand quite isolated, all very much with their tops in one direction by the wind. As typical lime regions we have still the high lime table-lands on the top of *Ronde Klip* and *Hieronymusberg*.

Ronde Klip.

Here we meet a shrub-vegetation consisting of *Cordia cylindrostachya*, *Coccoloba diversifolia*, *Haematoxylon Brasiletto*, *Rhacoma crossopetalum*, *Jacquinia barbasco*, *Erithalis fruticosa*, *Metopium Brownei*, *Antirrhoea acutata*, *Condalia Henriquezii* and *Beureria*

succulenta; also *Machaonia Ottonis* and *Bursera* occur there. On the ground grows not much more than a few *Euphorbia thymifolia* and *Phyllanthus polycladus*.

The lime table-land on Hieronymusberg.

This contains a similar vegetation, only somewhat poorer; here, however, *Guaiacum officinale* and *Guaiacum sanctum* are conspicuous, besides *Phyllanthus Euwensii* and *Casearia bonairensis*, *Acalypha Poirerii* and *Pisonia bonairensis*.

Very divergent in its plant-growth by the presence of some forms which are entirely lacking in other places is the

Christoffelberg.

At its base we find again the strongly developed *Croton* vegetation of the lower hilly country, which besides *Cactuses* also contains many *Croton flavens*, *Jatropha gossypifolia*, *Acacia villosa*, *Haemataxylon Brasiletto*, *Cordia cylindrostachya*, *Jatropha urens*, *Acacia tortuosa*, *Melochia tomentosa*, *Randia aculeata* and *Phyllanthus Euwensii*. Also the lower *Sida* species, *Indigofera suffruticosa*, *Convolvulaceae* and *Opuntia curassavica* are found. Higher up this vegetation remains, but more *Coccoloba diversifolia*, *Myrtaceae* and *Capparis linearis* appear, while *Bromelia lasiantha* often covers the ground. Of trees we now see *Machaonia Ottonis* and *Tecoma chrysantha*, *Pisonia fragrans*, *Bumelia obovata* and *Capparis Breynia*, while *Haemataxylon Brasiletto* becomes more prominent; also *Maytenus Sieberiana*, *Fagara monophylla*, *Jacquinia barbasco*, *Erythroxyton havanensis*. At a height of about 200 metres *Coccoloba diversifolia* becomes the principal tree; we also notice the *Schomburgkia tibicinis* and *Trichilia trifolia*, but still the impression is that of a luxurious *Croton* vegetation. *Acacia tortuosa* is still frequent here and also *Phyllanthus Euwensii*, while *Vitex umbrosa* and *Clusia rosea* give a peculiar aspect to the vegetation on the higher parts. On the top *Ficus Brittonii*, *Clusia rosea*, *Maytenus Sieberiana*, *Triplaris coriacea* are frequent, among which *Tecoma chrysantha*, *Caesalpinia coriaria* and many *Lantana camara*, *Cordia cylindrostachya* and *Gundlachia corymbosa*.

So the higher parts especially have a rather different vegetation. The mountainous complex Behoenda and surrounding parts do not reach the same height but in their plant species show much resemblance with the Christoffelberg. The only conspicuous plant I noticed there was *Casearia bonairensis*; besides the bush is somewhat higher and denser in Behoenda than on the lower parts of Christoffelberg.

The poorest vegetation is found on the barer non-calcareous hills,

which are chiefly found in the Eastern part of Curaçao. As a specimen I choose

The Hills near Blauw.

On the almost bare ground stand widely scattered low small plants of *Evolvulus sericeus* and *Heliotropium humile*, *Aristida Swartziana*, *Tragus racemosus*, *Paspalum glabrum*, *Sida procumbens*. The same sort of vegetation is found on

The Hills near Davelaar.

These are almost quite bare and show small complexes of somewhat higher *Acacia villosa*, *Croton flavens* and *Caesalpinia coriaria*, but for the rest the only flora is formed by *Bouteloua Humboldtiana* and *Aristida Swartziana*, small plants of *Jatropha gossypifolia*, *Evolvulus sericeus*, *Corchorus hirsutus*, *Tephrosia cinerea*, some *Cereus* plants, *Sida procumbens* and *Diodia rigida*. When on these hills more *Acacia tortuosa* and some other shrubs develop, they are more overgrown. I mention as a specimen:

The Hills near Malpais.

Here is a rather dense shrub-growth of *Croton flavens*, *Phyllanthus Euwensii*, between which *Cereus griseus* and high shrubs of *Acacia tortuosa*; especially *Acacia villosa* abounds here, while *Caesalpinia coriaria*, *Haematoxylon Brasiletto* and a few *Casearia bonairensis* belong to the higher forms with *Bumelia obovata*, *Randia aculeata* and *Myrtaceae*; an occasional *Guaiacum officinale* is also found on such grounds.

As a more central low hilly part we mention:

The hills between Wacao and Dokterstuin.

The ground is covered with *Chloris*, *Sida*, *Cassia glandulosa*, *Aristida Swartziana*, while also *Krameria ixina* occurs, and the following shrubs, sometimes in dense masses: *Acacia villosa*, *Beureria succulenta*, *Croton flavens*, *Haematoxylon Brasiletto*, *Lantana camara*, *Malpighia*; amidst these more overgrown hills we see again more bare ones, having a vegetation similar to that described above. In some places it becomes an almost pure *Coccoloba diversifolia* bush, in others *Haematoxylon Brasiletto* prevails with *Beureria succulenta*, while occasionally also *Machaonia Ottonis* is frequent; *Pithecolobum unguis-cati*, *Randia aculeata* and also *Vitex umbrosa* occur on the more densely overgrown hills; in other places *Cordia cylindrostachya* is plentiful, while *Crescentia Cujete* and *Trichilia trifolia* also occur on these hills. Like elsewhere *Cactaceae* abound, although they are not so predominant here as in many parts of Bonaire.

Aruba.

As representative for the vegetation of the lower calcareous parts of Aruba I choose

The country near Manshebo.

The coral-lime soil is very bare here and scantily overgrown. Melocacti and *Cereus griseus* prevail with *Aristida Swartziana*, *Euphorbia thymifolia*, *Opuntia* and fairly numerous *Jatropha gossypifolia*; an occasional *Prosopis juliflora* is somewhat higher than the other plants. *Jatropha urens* is frequent here. Of the grasses *Cenchrus echinatus*, *Eragrostis Urbaniana*, *Anthephora hermaphroditica*, *Paspalum glabrum* and *Bouteloua Humboldtiana* are noticed; besides *Lithophila muscoides*, *Heliotropium curassavicum*, *Sesuvium portulacastrum*, *Capraria biflora* and *Scoparia annua* as lower herbs. As shrubs or trees we have widely scattered *Conocarpus erecta*, *Suriana maritima*, *Erithalis fruticosa*, *Bumelia obovata*, *Coccoloba uvifera* and *Beureria succulenta* which nowhere form a dense mass. On the low dune formations *Tournefortia gnaphalodes* abounds. As an example of a more elevated lime district we mention:

The calcareous table-land near Fontein.

Here the soil is very bare in some places or covered with a fairly dense mass of shrubs of *Latana camara* and *Cordia cylindrostachya*; *Prosopis juliflora* is abundant and *Aristida Swartziana* covers the ground; whole fields are densely overgrown with *Antirrhoea acutata*. Above these shrubs *Jacquinia barbasco* and often whole complexes of *Peltophorum Suringarii* rise somewhat higher, while this dense mass of shrubs is further formed by *Beureria succulenta*, *Capparis*, *Crescentia Cujete*, *Guaiacum officinale*, *Bursera simaruba*, *Bumelia obovata* and *Cordia alba*.

On spots where the vegetation is less high see besides *Opuntia* many *Pilocarpus racemosus* and *Croton flavens*, other complexes being formed by *Phyllanthus Euwensii* and *Casearia bonairensis*. On the higher part, especially near **Seroe Kadoesji** we also find *Croton niveus*, *Tecoma chrysantha*, *Bumelia obovata*, *Cordia alba*, *Jacquinia barbasco* and *Beureria succulenta*, which form a true forest there. Also Melocacti occur everywhere. As an example of a somewhat different vegetation on chalk table-lands we mention:

The calcareous table-lands near Belashi.

Here again we find a more or less rich *Croton* vegetation. In the bare parts the vegetation on the ground consists of *Dactyloctenium aegyptium*, *Euphorbia thymifolia*, *Eragrostis ciliaris*, *Torulium*

filiforme, *Cyperus uncinatus*, *Portulaca halimoides*, *Lithophila muscoides*, *Sida supina*, *Spermacoce tenuior*, *Physalis* and *Pilea herniarioides*; shrubs and trees are represented by *Cereus griseus* *Cephalocereus lanuginosus*, *Jatropha gossypifolia*, *Phyllanthus Euwensii*, some *Caesalpinia coriaria*, *Capparis*; also *Guaiacum sanctum* occurs here amidst fairly high *Croton flavens*, *Lantana involucrata*, *Casearia bonairensis*, *Bursera tomentosa*, *Melochia tomentosa* and *Malpighia*, while also *Agave vivipara* is frequent amidst *Cereus* and *Opuntia*; sometimes it even forms with these latter the only cover of the lime soil.

A higher hill than the former is:

Mirlamar.

It shows entirely the typical *Croton* vegetation with *Croton flavens*, *Casearia bonairensis*, *Beureria succulenta*, *Bursera simaruba*, between which also *Schoepfia Schreberi*, *Bumelia obovata*, *Caesalpinia coriaria*, many *Pithecolobium platylobum* and *Malpighia*, *Capparis linearis*, *Bursera tomentosa*, *Peltophorum Surin-gari*, *Tecoma chrysantha*, *Guaiacum officinale* and some, but not many, *Acacia tortuosa*. In many places the shrub vegetation is little developed and the ground is then covered by herbs and low shrubs of which a number of ruderal plants attract notice, like: *Physalis*, *Spigelia anthelmia*, *Hyptis pectinata*, *Commelina virginica*, *Sida supina*, *Mitracarpus villosus*, *Spermacoce tenuior*, *Turnera pumilea*, *Elytraria squamosa*, *Bouteloua aristidoides*, *Evolvulus alsinoides*, *Stylosanthes hamata*, *Pectis*. Of the *Cactaceae* *Cereus griseus* and *Cephalocereus lanuginosus* are conspicuous. In the whole hilly complex of Mirlamar and Jamanota *Pithecolobium platylobum* is very prominent, especially in the flowering season, while also *Malpighia* forms large complexes. Poorer than on Mirlamar and its surroundings is the vegetation of

The Hills near Andikurie.

These are barer and we find on them only solitary trees of *Coccoloba diversifolia*, *Capparis Breynia*, *Capparis jamaicensis*, *Caesalpinia coriaria* and *Beureria succulenta*. The hills are sparsely covered with low plants of *Croton flavens*, *Acalypha*, *Opuntia*, *Bouteloua aristidoides*, *Croton ovalifolius*, *Heliotropium humile*, *Sporobolus argutus*. Much less developed, if possible, is the vegetation on

The Hills in the N.W. part.

Here is hardly any cover but *Aristida Swartziana*, *Bouteloua aristidoides*, *Euphorbia thymifolia*, *Paspalum glabrum*, *Lithophila muscoides* with here and there a few complexes of *Cordia cylindrostachya*. *Cereus* and *Opuntia* also occur everywhere, though only in small quantities.

Bonaire.

For a description of the vegetation of the lower lime regions on Bonaire I choose:

The country round Kralendijk.

Many ruderal plants grow here, e. g. *Parthenium Hysterophorus*. The general impression is that of a poor *Croton* vegetation, consisting of *Acacia tortuosa*, *Prosopis juliflora*, *Croton flavens*, a few *Crescentia Cujete*, *Bursera simaruba*, *Cordia alba* and *Caesalpinia coriaria*; the ground is covered with *Elytraria squamosa*, *Sida*, *Chloris*, *Dactyloctenium aegyptium*, *Eragrostis ciliaris*, *Sporobolus argutus*, *Anthephora hermaphroditica*, *Eragrostis Urbaniana*. A vegetation somewhat similar to this, but without ruderal plants we find in

The district near the Southern salt pans.

Near the sea we see *Conocarpus erecta*, *Avicennia nitida*, *Suriana maritima* and besides *Salicornia ambigua* and *Sesuvium portulacastrum*; in other places we find whole masses of *Metopium Brownei*, whose appearance reminds one of *Hippomane* bushes. At a greater distance from the sea the *Croton* vegetation becomes more prominent, *Lantana involucrata* being very conspicuous and predominating in some places. *Cereus* is not so conspicuous here, but we find many *Haematoxylon Brasiletto*, *Coccoloba diversifolia*, *Antirrhoea acutata*, *Croton flavens*, *Waltheria americana*, also *Jacquinia barbasco*. All the shrubs here are low, however, and widely distant. On the ground we find *Euphorbia thymifolia*, *Paspalum glabrum*, *Aristida Swartziana*, *Eragrostis ciliaris*. On other spots *Krameria ixina* is more prevalent with *Cordia cylindrostachya*, while *Melocacti* are again very numerous. The vegetation with higher shrubs reminds us of the more elevated lime regions, of which as a specimen we may take:

The lower parts of the lime regions along the road from Rincon to Kralendijk.

A dense *Croton* vegetation, chiefly consisting of *Beureria succulenta*, *Capparis jamaicensis*, *Bursera sumaruba*, *Prosopis juliflora*, *Haematoxylon Brasiletto*, *Crescentia Cujete*, *Cordia cylindrostachya*, *Capparis Breynia*, *Bursera bonairensis*, *Jacquinia barbasco*, *Malpighia*, *Randia aculeata*, *Caesalpinia coriaria*, while *Sida*, *Eragrostis ciliaris*, *Euphorbia thymifolia* form the vegetation of the ground. In some places we find *Krameria ixina*, while many *Evolvulus* occur with *Ipomoea* among the other low plants.

On the calcareous soil near Bolivia we find a still denser Croton vegetation. The ground is there in some places densely covered with *Spermacoce tenuior*, *Pectis*, *Pappophorum*, *Sida*, *Aristida Swartziana*, *Croton ovalifolius*, the higher shrubs being mostly *Jacquinia barbasco*, *Bursera simaruba*, *Randia aculeata*, *Malpighia*, *Bursera tomentosa*, *Cordia cylindrostachya*, *Capparis jamaicensis*, *Caesalpinia coriaria*, *Haematoxylon Brasileto*. On the ground we find many *Panicum lachnanthum*, *Krameria ixina*, *Eragrostis ciliaris*. In other places *Rhacoma crossopetalum* and *Coccoloba diversifolia* are the principal shrubs, between which *Pisonia bonairensis*, *Bumelia obovata*, *Guaiaecum sanctum*, *Beureria succulenta*, *Metopium Brownei*, *Casearia bonairensis* and a few *Tecoma chrysantha* as trees. Among the lower plants we notice *Euphorbia thymifolia*, *Morinda Royoc*, *Mariscus fuliginus*, *Corchorus tomentosus*. On the Northern slopes of these lime terraces *Clusia rosea* is very conspicuous.

As an example of the vegetation on the higher lime table-lands I choose:

The lime table-land near Montagna.

Here a dense and high forest of shrubs is found, parts of which remind us of a thick wood. Sometimes we meet *Randia* bushes without any underwood; besides we have here many *Bursera bonairensis*, *Bursera simaruba* and *Bursera tomentosa*, *Casearia bonairensis*, *Bumelia obovata*, *Capparis jamaicensis*, *Machaonia Ottonis*, while *Lantana camara* and *Croton flavens* together with *Rhacoma crossopetalum* form the underwood or the chief constituent in most places. Also *Euphorbia cotinifolia* grows here, while of the Cactaceae especially *Cephalocereus lanuginosus* is conspicuous. On the ground we have *Corchorus hirsutus*, *Sida*, *Eragrostis ciliaris*, *Aristida Swartziana*, *Elytraria squamosa*, while *Mariscus fuliginus* and *Ernodia litoralis* are also found here.

As a higher hill not consisting of lime, we mention

The Joewa hills and surroundings.

We reach these through high dense bushes of shrubs of *Randia aculeata* and *Machaonia Ottonis*, between which hardly any other trees or shrubs occur. On the ground are *Spermacoce tenuior*, *Elytraria squamosa*, *Physalis*, *Opuntia curassavica*. On other spots we find more *Capparis jamaicensis*, *Capparis cynophallophora*, *Prosopis juliflora*, between which many *Cephalocereus lanuginosus*, *Haematoxylon Brasileto*. We further find again whole complexes of *Croton flavens* between which *Casearia bonairensis*, *Lantana camara*, *Maytenus Versluisii*, *Cordia alba*, after which we come again

amidst many *Capparis cynophallophora*. Also *Phyllanthus Euwensii* is frequent in some places with *Cordia alba* and many *Coccoloba diversifolia*. In the higher parts we find lower shrubs and *Rivina humilis*, *Datura Metel*, *Opuntia*, *Dactyloctenium aegyptium*, *Eragrostis ciliaris*, *Physalis* and other more ruderal plants prevail. The highest mountain on Bonaire is:

Brandaris.

We reach it again through a dense forest of shrubs with rather high trees, *Phyllanthus Euwensii*, *Capparis cynophallophora*, *Maytenus Versluysii*, *Pisonia bonairensis*, *Capparis jamaicensis* and *Croton niveus* being frequent, *Randia aculeata* sometimes predominant. When we ascend the mountain we see in many places more scattered shrubs, among which the same plants are chiefly found with *Caesalpinia coriaria*, *Haematoxylon Brasiletto* and *Acacia tortuosa*. On the top are very few trees, excepting *Crescentia Cujete*, *Casearia bonairensis* and *Capparis*, the vegetation on the ground consisting there of *Acalypha Poiretii*, *Euphorbia thymifolia*, *Physalis*, while on other spots a dense mass of *Coccoloba diversifolia* is found. On the top and slope of Brandaris also the little fern *Dryopteris concolor* occurs.

The lower parts of Bonaire outside the lime district.

These show also a *Croton* vegetation with *Acacia tortuosa*, *Croton flavens*, *Melochia tomentosa*, *Phyllanthus Euwensii*, *Randia aculeata* as the most frequent shrubs, while also *Capparis cynophallophora*, *Capparis jamaicensis*, *Croton niveus*, *Malpighia puniceifolia*, *Pithecolobium unguis-cati* are often found. The ground is covered with ruderal plants, the same as in other parts of the island.

CHAPTER III

A comparison of the vegetation of Curaçao, Aruba and Bonaire with that of Margarita.

As Margarita is an island not far from Curaçao, and very elaborately studied with regard to its flora¹⁾, it is certainly worth while to compare the floras of these four islands.

Johnston gives on page 297 a short comparison of the flora of Margarita with that of Curaçao, as it was known in 1909. He arrives at the conclusion, based on the still very incomplete data at his disposal (Suringar's journey) that of the 117 known Curaçao plants 50 had not yet been found on Margarita.

At present it appears from my investigations in the Systematical Part that of the 399 wild plants in the Dutch West Indian Islands 150 have also been found on Margarita. So we have:

Curaçao, Aruba, Bonaire	+	Margarita	150
Curaçao, Aruba, Bonaire			249
		Margarita	440
399		590	

These numbers diverge considerably from those given by Johnston (p. 302), namely 400 for Curaçao, of which 100 not on Margarita. From these numbers and more still from the figures of list p. 138, appears that the flora of Margarita is numerically very different from that of the Dutch W. I. Islands.

Margarita is much larger than the Dutch Islands. It is not only its size, however, which causes the larger number of species but still more the circumstance that higher mountains occur there, reaching a height of 800 metres.

Although Johnston says (p. 301) that his flora probably does not

¹⁾ J. R. Johnston: Flora of the Islands of Margarita and Coche.

Contributions from the Gray Herbarium of Harvard University. New Series. No. XXXVII (Printed June 1909).

contain more than $\frac{3}{4}$ of the real number of species, yet it seemed to be desirable to compare this flora more closely with the plants, mentioned in my Systematical part.

Johnston's flora has 157 genera, not including Filices, which are not found on Curaçao, Aruba and Bonaire and of these some 70 have no representatives at a higher altitude than 300 metres, while about 80 genera are only found above 300 metres.

So, if we compare the floras of the four islands we must not include these genera, occurring above 300 metres.

Overagainst these 70 genera of the lower parts which were found by Johnston and not by me, we have also some 70 which are found on Curaçao, Aruba and Bonaire but not on Margarita.

While the flora of Margarita mainly differs from that of the Dutch Leeward Islands by the occurrence of a peculiar flora in the higher parts, it appears that of the 36 wild indigenous Antilles plants which are also found on Margarita, only 8 occur in the Dutch Islands. So we have

Dutch Leeward Islands	+	Margarita	8
"	"	"	37
		Margarita	28

these numbers being for the South American indigenous plants

Dutch Leeward Islands	+	Margarita	2
"	"	"	20
		Margarita	38

These data prove to some extent that the Dutch Islands have more resemblance to the Antilles and less to South America than Margarita. We refer to what was said on page 129 about the geology of Margarita. As a further peculiarity we mention the very rare occurrence of grasses on Margarita, contrary to Curaçao, where many more species are found and where they are not scarce at all.

Cactaceae cover whole fields in Margarita and this agrees entirely with certain parts of Bonaire; the Bromeliaceae which are so conspicuous on Margarita play a subordinate part in the Dutch W. I. Islands. The typical tropical families like Melastomataceae, Aroideae, Piperaceae are entirely lacking in the Dutch Islands, contrary to Margarita.

As far as can be inferred from Johnston's descriptions (l. c. p. 278 ff.) the vegetation along the sea-coast is similar in type to

that of the Dutch Islands; *Castela* which occurs on Margarita is lacking in the Dutch Islands. Also the Mangrove vegetation is mainly the same. The interior lowland of Margarita is covered by a *Croton* vegetation, similar to that of the Dutch Islands, although in these latter *Heteropteris* and *Sterophoma* are absent and not quite the same *Capparis* species are found.

On the lower hills *Capparis linearis* is characteristic, which occurs in the Dutch Islands on the higher hills.

Above 300 metres we already find on Margarita denser forests which cannot be compared with the vegetation of the Dutch Islands.

Without entering into details it must be observed that a fairly large number of plants, found in the higher parts of Margarita, also occur in the higher parts of the Dutch Islands St. Eustatius and Saba or are represented by related species.

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VERNACULAR NAMES.

- Aardappel = *Solanum tuberosum*.
Adonis = *Duranta erecta*.
Alfalfa = *Medicago sativa*.
Amooro falso = *Mentzelia aspera*.
Angglo = *Tribulus terrester*.
Angglo boobo = *Kallstroemia caribaea* en *Kallstroemia curta*.
Arraroot = *Maranta arundinacea*.
Awakaati = *Persea americana*.
Bai no boolbee = *Strumpfia maritima*.
Bakooba = *Musa paradisiaca*.
Banaana = *Musa paradisiaca*.
Banaana die rif = *Batis maritima*.
Banaana sjimarón = *Schomburgkia tibicinis*.
Barba die jonkeman = *Albizzia lebbek*.
Barba die kadoesji = *Tillandsia recurvata*.
Barra blanko = *Croton niveus*.
Bassoora die lieber = *Parthenium Hysterophorus*.
Bassoora korraa = *Melochia tomentosa*.
Bassoora pleintsji = *Sida spinosa* var. *angustifolia*.
Bataata die poorko = *Boerhaavea erecta*, *Boerhaavea coccinea* and
Boerhaavea paniculata.
Bataata die soembi = *Solanum argillicolum*.
Bataata djoekoe = *Ceratosanthes corniculata*.
Bataata doesji = *Ipomoea batatas*.
Bataata heel = *Morinda Royoc*.
Beembee = *Portulaca oleracea*.
Beembee sjimarón = *Portulaca venezuelensis*.
Beera = *Guaiacum sanctum*.
Begissima = *Antigonon leptopus*.
Behoekoe = *Serjania curassavica*.
Belladonna = *Datura Metel*.
Bell apple = *Passiflora laurifolia*.
Benboom = *Moringa oleifera*.

- Bermuda ceder = *Juniperus bermudianus*.
 Berrehein = *Solanum Melongena*.
 Bessji die kalakoena = *Coccoloba diversifolia*.
 Bessji die tinta = *Passiflora suberosa*.
 Bessji igoeaana = *Celtis Iguanaea*.
 Bessji kabrieto = *Condalia Henriquezii*.
 Betoonika = *Melochia tomentosa*.
 Bittere cassave = *Manihot carthaginensis*.
 Blomtsji die kokaliesji = *Clitoria ternatea*.
 Boeloebarie = *Guaiacum sanctum*.
 Boeraatsji = *Pilocarpus racemosus*.
 Boetsji = *Melocactus*.
 Boontsji die paaloe = *Erythrina velutina*.
 Boontsji jangadoor = *Vigna unguiculata*.
 Boontsji kabaai = *Desmodium molle*.
 Boontsji karta = *Erythrina velutina*.
 Boontsji palooma = *Clitoria ternatea*.
 Boontsji streena = *Parkinsonia aculeata*.
 Bosopaata = *Dactyloctenium aegyptium*.
 Bossoea = *Fagara monophylla*.
 Boulanger = *Solanum Melongena*.
 Brak gras = *Sporobolus argutus*.
 Brak gras saaloe = *Cynodon dactylon*.
 Brazieja = *Haematoxylon Brasileto*.
 Breebee = *Cereus repandus*.
 Breebee die poesji = *Cephalocereus lanuginosus*.
 Bringga moosa = *Jatropha urens*.
 Broeska = *Cassia occidentalis* en *Cassia Sophera*.
 Broeska doesji = *Cassia bicapsularis*.
 Broodboom = *Artocarpus incisa*.
 Campessji = *Haematoxylon Brasileto*.
 Cassave = *Manihot utilissima*.
 Cassave die moondi = *Manihot carthaginensis*.
 Ceraasji maatsjoe = *Trichilia trifolia*.
 Citroen = *Citrus medica*.
 Curahout = *Peltophorum Suringari*.
 Daalpeega = *Mentzelia aspera*.
 Daabaroeieda = *Pithecolobium platylobum*.
 Daader = *Phoenix dactylifera*.
 Daatoe = *Cereus griseus*.
 Dam maatsjoe = *Clusia alba*.
 Dividivi = *Caesalpinia coriaria*.

- Djoekoe = *Caesalpinia ciliata*.
 Dreifi die lamán = *Coccoloba uvifera*.
 Dreifi sjimarón = *Coccoloba diversifolia*.
 Ekaakes = *Chrysobalanus icaco*.
 Elefanti = *Polygala angustifolia*.
 Fantasiea = *Ceratosanthes corniculata*.
 Ficus = *Ficus elastica*.
 Flaira = *Jatropha gossypifolia*.
 Flamboyant = *Poinciana regia*.
 Floor die sangger = *Lantana camara*.
 Foema = *Vitex umbrosa*.
 Foengfoeng = *Desmodium molle*.
 Foengfoeng homber = *Sida spinosa* var. *angustifolia*.
 Frikampeeuw = *Opuntia tunoides*.
 Geelhout = *Casearia bonairensis*.
 Giambo = *Hibiscus esculentus*.
 Giambo sjimarón = *Malachra alceifolia*.
 Gieni gras = *Panicum maximum*.
 Goeaana = *Beureria succulenta*.
 Goeaazoema = *Guazuma ulmifolia*.
 Goeajaaba = *Psidium Guajava*.
 Goeaako = *Mikania scandens*.
 Goeamaatsjoe = *Peireskia bleo*.
 Goorda kapaa = *Desmodium molle*.
 Granaatappel = *Punica Granatum*.
 Grijze manggel = *Conocarpus erecta*.
 Haabriman = *Dactyloctenium aegyptium*.
 Hielo die diaabel = *Cuscuta americana*.
 Hoerihoeri = *Capparis cynophallophora*.
 Hooba = *Spondias Mombin*.
 Horse radish = *Capparis Breynia*.
 Indjoe = *Prosopis juliflora*.
 Jaaga = *Pithecolobium platylobum*.
 Jamaani tobakkoe = *Clitoria ternatea*.
 Jaatoe = *Cereus griseus*.
 Jeerba die glas = *Ipomoea incarnata*.
 Jeerba die kaania = *Thalassia testudinum*.
 Jeerba die koetsjoe = *Mariscus brizaeus*.
 Jeerba die kooko = *Cyperus esculentus*.
 Jeerba die lamóen = *Andropogon Schoenanthus*.
 Jeerba die leebe = *Waltheria americana*.
 Jeerba die leetsji = *Euphorbia spec.*

- Jeerba die piepa = *Boerhaavea scandens*.
 Jeerba die seeroe = *Croton ovalifolius*.
 Jeerba die seis = *Indigofera suffruticosa*.
 Jeerba die sonja = *Dalea phymatodes*.
 Jeerba fieni = *Sporobolus argutus*.
 Jeerba foëkoe = *Sida spinosa*.
 Jeerba froemingga = *Chenopodium ambrosioides*.
 Jeerba holee = *Ocimum gratissimum* and *Ocimum sanctum*.
 Jeerba igoeaana = *Celtis Iguanaea*.
 Jeerba kaaja = *Gynandropsis pentaphylla*.
 Jeerba kaneeuw = *Portulaca halimoides*.
 Jeerba kaneeuw maatsjoe = *Portulaca venezuelensis*.
 Jeerba kanggreeuw = *Boerhaavea scandens*.
 Jeerba kareeta = *Croton glandulosus*.
 Jeerba koessientsji = *Lithophila muscoides*.
 Jeerba koleebra = *Sansevieria guineensis*.
 Jeerba konijntsji = *Portulaca halimoides*.
 Jeerba kraabo = *Croton lobatus*.
 Jeerba maisji sjikietoe = *Mariscus fuliginous*.
 Jeerba mosterd = *Capparis cynophallophora* and *Capparis Breynia*.
 Jeerba pataaka = *Cissampelos Pareira*.
 Jeerba plaata = *Evolvulus alsinoides*.
 Jeerba poesji = *Portulaca halimoides*.
 Jeerba ragadiesji = *Rhynchosia minima*.
 Jeerba staasia = *Bouchea Ehrenbergii*.
 Jeerba stinki = *Datura Metel*.
 Jeerba tónka = *Gliricidia sepium*.
 Jeerba tsjiekoe = *Evolvulus alsinoides*.
 Jeerba tsjoebaatoe = *Croton ovalifolius*.
 Johnsongras = *Andropogon sorghum* var. *halepensis*.
 Juffrouw = *Opuntia tunoides*.
 Kaaka die poesji = *Opuntia curassavica*.
 Kaasjoe = *Anacardium occidentale*.
 Kaasjoe die Surinaam = *Eugenia javanica*.
 Kabeez die seeroe = *Melocactus*.
 Kabeez indian = *Melocactus*.
 Kabeez ingles = *Melocactus*.
 Kabeez die mariekoe = *Omphalophthalmus ruber*.
 Kaboeja die klimop = *Cissus sicyoides*.
 Kaboeja die trankeer = *Cissus sicyoides*.
 Kaboeja igoeaana = *Ipomoea muricata*.
 Kaboeja korraa = *Cissus sicyoides*.

- Kaboeja makoetoe = *Cardiospermum corindum* and *Cissus sicyoides*.
 Kadoesji = *Cereus griseus* and *Cereus repandus*.
 Kadoesji die poesji = *Cephalocereus lanuginosus*.
 Kadoesji spanjool = *Cephalocereus lanuginosus*.
 Kajoeda = *Anona palustris*.
 Kalabarie = *Fagara flava*.
 Kalaloe = *Amarantus tristis*.
 Kalaloe die poorko = *Amarantus polygonoides*.
 Kalieber = *Opuntia curassavica*.
 Kallebas rondo = *Crescentia Cujete*.
 Kamaalia = *Coccoloba diversifolia*.
 Kamaari = *Coccoloba diversifolia*.
 Kamille sjimarón = *Lippia reptans*.
 Kamoe = *Mariscus brizaeus*.
 Kamoesji = *Eleusine indica*.
 Kanja = *Saccharum officinarum*.
 Karawaara = *Cordia alba*.
 Karawaara spanjool = *Cordia Sebestena*.
 Karisjoeri = *Cordia cylindrostachya*.
 Karkidaaki = *Phyllanthus Euwensii*.
 Karpaata = *Ricinus communis*.
 Katoena = *Gossypium hirsutum*.
 Katoena die seeda = *Calotropis procera*.
 Katoenboom = *Ceiba pentandra*.
 Kaubaati = *Fagara monophylla* and *Krugiodendron ferreum*.
 Keedebéssji = *Capparis linearis*.
 Kelki heel = *Stenolobium stans*.
 Keneepa = *Melicocca bijuga*.
 Kiebrahásja = *Tecoma chrysantha*.
 Kivieti = *Croton niveus*.
 Klaas moelaato = *Tournefortia volubilis*.
 Klap = *Physalis angulata*.
 Koeieda = *Prosopis juliflora*.
 Koeiegi = *Prosopis juliflora*.
 Koeki indian = *Agave vicina* and *Agave vivipara*.
 Koeki spanjool = *Agave vicina*.
 Koetsjaara = *Antirrhoea acntata*.
 Koetsjoe = *Clusia alba*.
 Kokolodee = *Heliotropium indicum*.
 Kokolodee sjimarón = *Heliotropium curassavicum*.
 Kokorobaana = *Tournefortia gnaphalodes*.
 Komtsji koe skotter = *Asclepias nivea*.

- Kooko = *Cocos nucifera*.
 Kooko die amiena = *Cyperus esculentus*.
 Kopijk = *Clusia alba*.
 Koroon die la birgi = *Passiflora foetida*.
 Korta mán = *Mariscus brizaeus*.
 Kruizebloem = *Passiflora foetida*.
 Kwareel = *Boerhaavea scandens*.
 Laabra = *Pisonia bonairensis*.
 Larachá = *Citrus*.
 Lamoentsji die Surinaam = *Triphasia trifoliata*.
 Lamoentsji sjimarón = *Triphasia trifoliata*.
 Leele = *Randia aculeata*.
 Leengga die baaka = *Spigelia anthelmia*.
 Leengga die tsoetsjoebi = *Ceratosanthes corniculata*.
 Lemmetje = *Citrus*.
 Lemoen = *Citrus*.
 Lemoengras = *Andropogon Schoenanthus*.
 Loanggo = *Stemodia maritima*.
 Loembra blanko = *Erithalis fruticosa* and *Croton niveus*.
 Loembra maatsjoe = *Morinda Royoc*.
 Logwood = *Haematoxylon Brasiletto*.
 Lokki lokki = *Phyllanthus Euwensii*.
 Magdalena = *Isocarpha oppositifolia*.
 Mahoebaari = *Pisonia bonairensis*.
 Mahók = *Swietenia Mahagoni*.
 Maisji grandi = *Zea Mays*.
 Maisji grandi sjimarón = *Commelina virginica*.
 Maisji raboe = *Lippia reptans* and *Andropogon sorghum* var. *sativus*.
 Maisji sieete simàn = *Andropogon sorghum* var. *sativus*.
 Maisji sjikietoe = *Andropogon sorghum* var. *sativus*.
 Maisji tolalieka = *Panicum velutinsum*.
 Makka pruim = *Spondias purpurea*.
 Makoeraa = *Abrus precatorius*.
 Maloieda = *Solanum nigrum* var. *americanum*.
 Malohie = *Andropogon Schoenanthus*.
 Mammeia = *Mammea americana*.
 Mammootika = *Momordica Charantia*.
 Mampoerietoe = *Porophyllum macrocephalum*.
 Manggel = *Conocarpus erecta*.
 Manggel blanko = *Conocarpus erecta* and *Avicennia nitida*.
 Manggel die sabaana = *Coccoloba diversifolia* and *Triplaris coriacea*.
 Manggel tán = *Rhizophora Mangle*.

- Manggo = *Mangifera indica*.
 Manhage = *Cordia Sebestena*.
 Mankeman seeboe = *Tephrosia cinerea*.
 Manoeweeri = *Amoreuxia palmatifida*.
 Manzalienja = *Hippomane mancinella*.
 Manzalienja boobo = *Euphorbia cotinifolia* and *Metopium Brownei*.
 Maraaka = *Passiflora foetida*.
 Maria bo kee beendeemi = *Dactyloctenium aegyptium*.
 Marie die paaloe = *Tillandsia recurvata*.
 Marie pompoen = *Omphalophthalmus ruber*.
 Marihoeri = *Manihot carthaginensis*.
 Markoesa = *Passiflora foetida*.
 Masjiboeri = *Pisonia bonairensis*.
 Mata galienja = *Acacia villosa*.
 Mata komblees = *Ammannia latifolia*.
 Mata paaloe = *Ficus Brittonii*.
 Mata piskaa = *Jacquinia barbasco*.
 Mata poorko = *Boerhaavea erecta*, *Boerhaavea coccinea* and *Boerhaavea paniculata*.
 Mata ratón = *Gliricidia sepium*.
 Meloen = *Cucumis Melo*.
 Melon die seeroe = *Melocactus*.
 Mispoe = *Achras sapota*.
 Moesti sámbo = *Pisonia bonairensis*.
 Montánja = *Desmanthus depressus*.
 Moora = *Mentzelia aspera*.
 Naranja = *Citrus*.
 Neboeha = *Passiflora suberosa*.
 Nigieta die Malpais = *Acacia villosa*.
 Nopal = *Opuntia tuna*,
 Oebaada = *Acacia tortuosa*.
 Oenkoe = *Cyperus articulatus*.
 Olieba = *Bontia daphnoides* and *Capparis jamaicensis*.
 Olieba maatsjoe = *Capparis Breynia*.
 Olyfi = *Bontia daphnoides*.
 Oreegano = *Cordia globosa*.
 Orengga = *Moringa oleifera*.
 Otaheite = *Thespesia populnea*.
 Oude wijven = *Vigna unguiculata*.
 Paaloe die bessji = *Condalia Henriquezii*.
 Paaloe die Bonaire' = *Casearia bonairensis*.
 Paaloe die heeroe = *Machaonia Ottonis*.

- Paaloe die lamán = *Coccoloba diversifolia*.
 Paaloe die leetsji = *Bumelia obovata*.
 Paaloe die loora = *Capparis cynophallophora*.
 Paaloe die moora = *Chlorophora tinctoria*.
 Paaloe die takki = *Geoffraea superba*.
 Paaloe doesji = *Chlorophora tinctoria*.
 Paaloe hóekoe = *Jacquinia barbasco*.
 Paaloe ploéta = *Bumelia obovata*.
 Paaloe preetoe = *Capparis Breynia*.
 Paloe sieja doesji = *Bursera simaruba*.
 Paaloe sieja maatsjoe = *Bursera simaruba*.
 Paaloe zapateero = *Morinda Royoc*.
 Palmiet = *Copernicia tectorum*.
 Pam die diaabel = *Morinda Royoc*.
 Papaai = *Carica Papaya*.
 Paragras = *Panicum molle*.
 Passoota = *Chenopodium ambrosioides*.
 Patieja = *Citrullus vulgaris*.
 Patieja die soembi = *Solanum argillicolum*.
 Patieja sjimarón = *Solanum argillicolum*.
 Peega peega = *Mentzelia aspera*.
 Peega saaja boobo = *Cenchrus carolinianus*.
 Peega saaja mohee = *Cenchrus echinatus*.
 Peega saaja sjimarón = *Krameria ixina* and *Mentzelia aspera*.
 Pessji pessji = *Mentzelia aspera*.
 Piea die galienja = *Eleusine indica*.
 Piea die galienia sjimarón = *Panicum sanguinale*.
 Piea palooma = *Portulaca halimoides* and *Portulaca venezuelensis*.
 Piea waarawaara = *Dactyloctenium aegyptium*.
 Pienda = *Arachis hypogaea*.
 Pienda sjimarón = *Stylosanthes hamata*.
 Pieta = *Agave sisalana*.
 Pieta die trankeer = *Agave Trankeera*.
 Pieta vlas = *Furcraea gigantea*.
 Pieterselie = *Bidens cynapiifolius*.
 Pistoel = *Ruellia tuberosa*.
 Plaaka sjkietoe = *Antirrhoea acutata* and *Rhacoma crossopetalum*.
 Pokhout = *Guaiacum officinale*.
 Polber sjimarón = *Argemone mexicana*.
 Polet die pieedra = *Lithophila muscoides*.
 Pompoen = *Cucurbita maxima*.
 Promente = *Capsicum frutescens*.

- Raaba = *Capparis cynophallophora* and *Capparis Breynia*.
 Raambessji = *Celtis Iguanaea* and *Bumelia obovata*.
 Raboe die kabaai = *Randia aculeata* and *Tournefortia volubilis*.
 Rais die pataaka = *Cissampelos Pareira*.
 Rathania = *Krameria ixina*.
 Ratoneera = *Gliricidia sepium*.
 Red manggel = *Coccoloba diversifolia*.
 Reseda = *Lawsonia inermis*.
 Sabadieja = *Leonotis nepetifolia*.
 Sagradoo = *Chenopodium ambrosioides*.
 Salade andijvie = *Lactuca intybacea*.
 Salaster = *Moringa oleifera*.
 Salie = *Heliotropium humile*.
 Sanggoéra = *Hyptis suaveolens*.
 Savonetappel = *Sapindus saponaria*.
 Schytnoot = *Jatropha curcas*.
 Senneblaar = *Cassia obovata*.
 Siea blanco = *Bursera simaruba*.
 Siea korraa = *Bursera bonairensis*.
 Sinte biebo = *Aloe vera*.
 Sjangran = *Opuntia tunoides*.
 Sjiengool = *Jacquinia barbasco*.
 Sjimaróekoe = *Malpighia glabra* and *Malpighia puniceifolia*.
 Sjimaróekoe kaasjoe = *Bunchosia nitida*.
 Sjimaróekoe maatsjoe = *Malpighia puniceifolia* and *Trichilla trifolia*.
 Sjonleena = *Bouchea Ehrenbergii*.
 Sjonsjon = *Passiflora foetida*.
 Sjosjolie = *Sesamum orientale*.
 Skoobia = *Scoparia annua*.
 Skop appel = *Anona squamosa*.
 Skopèt = *Ruellia paniculata* and *Ruellia tuberosa*.
 Soempienja die koleebra = *Opuntia curassavica*.
 Soeroen die moondi = *Crataeva gynandra*.
 Sorsaaka = *Anona muricata*.
 Sosoro = *Passiflora foetida*.
 Stakamahatsji = *Rivina humilis*.
 Steenhout = *Jacquinia barbasco*.
 Stokki = *Capparis cynophallophora*.
 Stokvischhout = *Haematoxylon Brasiletto*.
 Tabaako die piskadoo = *Tournefortia gnaphalodes*.
 Takamahak = *Bursera tomentosa*.
 Takki takki = *Geoffraea superba*.

- Tamarijn = *Tamarindus indica*.
 Tamarijn sjimarón = *Cassia bicapsularis*.
 Tam maatsjoe = *Clusia alba*.
 Tampanján = *Cereus griseus*.
 Tantsji = *Capraria biflora*.
 Teekoe = *Bromelia lasiantha*.
 Teekoe die paaloe = *Tillandsia utriculata*.
 Theebiek = *Pectis febrifuga*.
 Theebiek maatsjoe = *Pectis linifolia* and *Pectis prostrata*.
 Tjimitjimi = *Argemone mexicana*.
 Tobakkoe = *Nicotiana Tabacum*.
 Toemba raboe = *Leucaena glauca*.
 Toena = *Opuntia tunoides*.
 Toena spanjool = *Opuntia tunoides*.
 Toetoeroetoé = *Caesalpinia pulcherrima*.
 Tomati = *Solanum lycopersicum*.
 Torra = *Stemodia maritima*.
 Treesdeedee = *Dalechampia scandens*.
 Trinaria = *Bougainvillea spectabilis*.
 Trompet = *Ipomoea nil*.
 Tsjananá = *Evolvulus glaber*.
 Unguis die gaatoe = *Mimosa distachya* and *Pithecolobium platylobum*.
 Unguis die poesji = *Pithecolobium unguis-cati*.
 Unguis gaati = *Pithecolobium unguis-cati*.
 Vier uur bloem = *Mirabilis Jalapa*.
 Vijn = *Ficus Carica*.
 Waabi = *Acacia tortuosa*.
 Waada waada = *Boerhaavea erecta*, *Boerhaavea coccinea* and
Boerhaavea paniculata.
 Waada waada maatsjoe = *Boerhaavea erecta*, *Boerhaavea coccinea*
and *Boerhaavea paniculata*.
 Wajakaa = *Guaiacum officinale*.
 Wajakaa maatsjoe = *Guaiacum sanctum*.
 Wajakaa sjimarón = *Guaiacum sanctum*.
 Wakoera = *Randia aculeata*.
 Wándoe = *Cajanus indicus*.
 Wareeroe = *Cissus sicyoides*.
 Wareeroe kroes = *Cissus trifoliata*.
 Watakeeli = *Beureria succulenta*.
 Watakeeri = *Beureria succulenta*.
 Watapaana = *Caesalpinia coriaria*.
 Watapaana sjimarón = *Acacia villosa*.

- Wild dividivi = *Acacia villosa*.
Wilde amandel = *Terminalia Catappa*.
Wilde salie = *Croton flavens*.
Wild komkommer = *Cucumis Anguria*.
Wild manggel = *Pisonia bonairensis*.
Wild trommelstok = *Cassia bicapsularis*.
Witte manggel = *Conocarpus erecta*.
Yucca amaara = *Manihot carthaginensis*.
Zandkokerboom = *Hura crepitans*.
Zeedreifi = *Coccoloba uvifera*.
Zijkatoen = *Calotropis procera*.
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Ja. z. = seashore near St. Jan, Curaçao	95
J. h. = hills from Groot St. Joris to Koraal Tabak, Curaçao	59
Jo. h. = slope of Joewa, Bonaire	166
Jo. w. = from Playa Grandi to Joewa, Bonaire	165
J. t. = hofje of Groot St. Joris, Curaçao	58
Kar. h. = slope of Karakao, Bonaire	178
K. B. k. = calcareous hills and plateau Kleine Berg, Curaçao	67
K. d. = slope on the northern part of Ronde Klip, Curaçao	36
Ki. Kr. = road from Knip to St. Kruis, Curaçao	82
Ki. t. = hofje of Knip, Curaçao	73
K. k. = calcareous part of Ronde Klip, Curaçao	35
K. k. = top of the calcareous hill Kabrietenberg, Curaçao.	48
K. Kh. = slope of the calcareous hill Kabrietenberg, Curaçao	49
Kr. = neighbourhood of St. Kruis, Curaçao	84
Kra. = neighbourhood of Kralendijk, Bonaire.	199
Kra. k. = calcareous soil near Kralendijk, Bonaire	198
Kra. k.z. = seashore from Tolo to Kralendijk, Bonaire . .	197
Kr. h. = hills near St. Kruis, Curaçao	87
Kr. h. C. = hills between St. Kruis and Christoffelberg, Curaçao.	88

Kr. k. = calcareous hills near St. Kruis, Curaçao	86
Kr. k. = calcareous Soil near Kralendijk, Bonaire	207
Kr. t. = hofje of St. Kruis, Curaçao	83
Kr. w. = road from Kralendijk to Bacune, Bonaire	208
Kr. z. = seashore near St. Kruisbaai, Curaçao	85
L. = tankie Leendert, Aruba.	101
Lac. k. = calcareous soil near Lac, Bonaire	210
Lag. k. = calcareous soil near Laguna, Bonaire	217
Lag. w. = road from Seroe Grandi to Laguna, Bonaire.	202
Lag. z. = seashore near Laguna, Bonaire	203
Lag. z. d. = sandy hills of the seashore near Laguna, Bonaire	219
Lag. z. k. = calcareous soil near Laguna, Bonaire	218
Las. h. = slope of Lasanne, Bonaire	167
Mac. b. = slope of Macutacao, Bonaire	159
Mac. h. = slope of Macutacao, Bonaire	160
Mac. w. = road from Rincon to Seroe Macutacao, Bonaire.	158
Ma. h. = hills near Malpais, Curaçao	317
Ma. ko = calcareous soil near Tanki Maraka, Bonaire	204
Mam. h. = slope of Mamarie, Bonaire	220
Man. d. = sandy seashore near Manshebo, Aruba	105
Man. k. z. = calcareous seashore near Manshebo, Aruba	104
Mans. z. = seashore near Savaneta, Aruba	150
Man. w. = road from Manshebo to Oranjestad, Aruba	106
Mat. = Salina Mathijs, Bonaire	177
Mat. h. = hills near Salina Mathijs, Bonaire	179
M. d. = hills near Malpais, Curaçao.	321
M. d ₂ . = hills near Malpais, Curaçao	322
M. h ₂ . = hills near Malpais, Curaçao	319
Mi. = near San Maria, Curaçao	364
Mir. h. = slope of Miralamar, Aruba	136
Mir. w. = road from Belashi to Miralamar, Aruba	135
M. = Malpais	
M. k. = calcareous hills near Malpais, Curaçao	320
M. k ₂ . = calcareous hills near Malpais, Curaçao	323
M. k ₃ . = calcareous hills near Malpais, Curaçao	324
Mo. = Mahoema, Curaçao	312
Mo. k. = calcareous hills near Mahoema, Curaçao	314
Mon. k. = calcareous plateau Seroe Montagna, Bonaire	206
Mont. kr. = calcareous plateau of Montagna, Bonaire	194
Mr. h. = hills near Klein St. Martha, Curaçao	89
Mr. k. = calcareous hills near Klein St. Martha, Curaçao	91
Mr. t. = hofje of Klein St. Martha, Curaçao	90

M. s. = seashore near Michielsbaai, Curaçao	325
M. t. = hofje of Malpais, Curaçao	818
N. = from Waterloo to Noordkant, Curaçao	65
Nas. k. = calcareous hills near Fort Nassau, Curaçao	304
Nas. w. = road to Fort Nassau, Curaçao	303
Ne = neighbourhood of Newton (Knip), Curaçao.	76
Ne. h. = hills near Newton (Knip) in the direction of Christof- felberg, Curaçao	77
Nic. k. = calcareous soil near St. Nicolaas, Aruba	145
N. k. = calcareous hills near Noordkant, Curaçao	66
N. w. = road from Oranjestad te Noord, Aruba.	107
N. z. = seashore near Noord, Aruba	108
O. k. = calcareous soil near Oranjestad, Aruba	99
O. k ₂ . = calcareous soil near Oranjestad, Aruba.	100
O. k. z. = calcareous hills and seashore near Onima, Bonaire	168
Paard. w. = seashore near Paardenbaai, Aruba	150 <i>a</i>
P. B. = road from St. Patrick to Barber, Curaçao	72 <i>a</i>
P. C. = road from Barber to St. Kruis, Curaçao	72 <i>b</i>
Pe. k. = calcareous soil near San Pedro, Curaçao.	361
Pe. w. = road from Siberië to San Pedro, Curaçao.	360
Pe. z. = seashore near San Pedro, Curaçao	362
Pi. = road near Domingito, Curaçao	30
Pi. d. = hills near Seroe Salinja, Curaçao	29
Pi. h. = hills near Klein Piscadera, Curaçao	316
Pi. h. = hills near Seroe Salinja, Curaçao	369
Pi. k. = calcareous hills near Seroe Salinja, Curaçao	28
Pi. t. = Hofje Klein Piscadera, Curaçao	315
P. h. = hills near St. Patrick, Curaçao	69
P. k. = calcareous hills near St. Patrick, Curaçao	71
P. k. h. = hills near St. Patrick, Curaçao	70
P. k. z. = seashore near St. Patrick, Curaçao	72
Pla. k. = calcareous soil near Playa Grandi, Bonaire	175 <i>a</i>
Pl. d. = sandy seashore near Playa Grandi, Bonaire	180
Pl. h. = hills near Salina Playa Grandi, Bonaire	176
Pl. k. = calcareous hills and plateau near Playa Grandi, Bonaire	181
Pl. k. z. = calcareous seashore near Playa Grandi, Bonaire	182
P. R. w. = road from Fontein to Seroe Grandi, Bonaire	190
R. = neighbourhood of Rincon, Bonaire	155
R. = road near Ronde Klip, Curaçao	32
R. h. = hills near Rincon, Bonaire.	156
R. h. = slope of Ronde Klip, Curaçao	34

Ri = Rif, Curaçao	301
Ri. h. = Rif hill, Curaçao	302
R. k. = calcareous hills near Rincon, Bonaire	157
R. k. = calcareous top of Ronde Klip, Curaçao	33
R. t. = gardens in Rincon, Bonaire	161
S. = hofje of Siberië, Curaçao	340
Sa. h. = hills near Sabanilla abau, Aruba	131
Sav. h. = hills near Savaneta, Aruba	148
Sav. k. = calcareous hills near Savaneta, Aruba	147 and 149
Sav. k. = calcareous soil near Piedra Cruz, Aruba	188
Sav. k. z. = seashore in the neighbourhood of Piedra Cruz, Bonaire	189
Sav. w. = road near Savaneta, Aruba	146
S. C. = road from Savonet to Christoffelberg, Curaçao	338
Se. h. = hills near Seinpost, Curaçao	98
Serg. h. = slope of the Seroe Grandi, Bonaire	200
Serg. t. = hofje near Seroe Grandi, Bonaire	201
Ser. k. = calcareous hill Seroe blanco, Aruba.	141 and 151
S. h. = hills near Savonet, Curaçao	337
Si. = hofje of Siberië, Curaçao	356
Si. A. = road from Siberië to Ascention, Curaçao	358
Si. h. = hills near Siberië, Curaçao	354
Si. k. = calcareous hills near Siberië, Curaçao	355
Si. t. = Hofje of Siberië, Curaçao	363
Siv. = Sivi sivi, Aruba.	
S. k. = calcareous hills and seashore near Savonet, Curaçao	341
S. kr. = calcareous hills of rooi Samboe, Bonaire	195
Sl. k. = calcareous rocks near Slagbaai, Bonaire	184
Soeb. kz. = top of the calcareous plateau Soebi Rincon, Bonaire	174
Sp. = slope of Seroe Plat, Aruba	112
Sp. k. = calcareous top of Seroe Plat, Aruba.	113
S. t. = Hofje of Siberië, Curaçao	336
Sup. h. = slope of Seroe Soempjenja, Aruba	125
S. w. = from Casa chiquito to Sua, Curaçao	313
T. = neighbourhood of Koraal Tabak, Curaçao	60
T. C. = from Koraal Tabak to Choloma, Curaçao.	62
T. k. z ₂ . = calcareous plateau near Tolo, Bonaire	196
Tol. k. z. = calcareous plateau near the seashore in the neighbourhood of Tola, Bonaire	175
T. z. = seashore near Koraal Tabak, Curaçao	61
V. = Veerisberg, Curaçao	306

Va. S. = Schottegat near Valentijn, Curaçao	38
Va. t. = hofje of Valentijn, Curaçao	37 and 39
V. d. = Veerisberg, Curaçao	307
V. h. = slope of Alta Vista, Aruba.	110
V. p. = from Veerisberg to Piscadera, Curaçao	308
V. w. = road from Casa chiquito to Veerisberg, Curaçao	305
W. = neighbourhood of Westpunt, Curaçao	329
Wa. = road near Wacao, Curaçao	343
Wa. h. = hills near Wacao, Curaçao	342
W. d. = hills to the east of Westpunt, Curaçao	332
W. h. = hills along the road from Westpunt to Savonet, Curaçao.	334
W. h. = road from Knip to Westpunt, Curaçao	81
W. k. = calcareous hills to the north of the road from Westpunt to Savonet, Curaçao.	335
Wo. = from van Engelen to Waterloo, Curaçao	64
Wo. = hills to the east of Westpunt, Curaçao	330
Wo ₂ . = hills to the east of Westpunt, Curaçao	331
W. s. = road from Westpunt to Savonet, Curaçao	333
Z. = in the neighbourhood of Zuurzak, Curaçao	43
Z. h. = hills near Zuurzak, Curaçao.	42
Z. h. = slope of rooi Samboe, Bonaire	192
Z. kr. = calcareous plateau near rooi Samboe, Bonaire	193
Zout k. g. = along the lower plateaus near the Saltponds in the southern parts of Bonaire	215
Zout. kor. = calcareous plateaus near the Saltponds in the southern parts of Bonaire	214
Zout. kw. = roads in the inner parts of southern Bonaire.	216
Zout. z. = seashore near the Saltponds in the southern parts of Bonaire	213
Z. t. = Hofje of Zuurzak, Curaçao	41

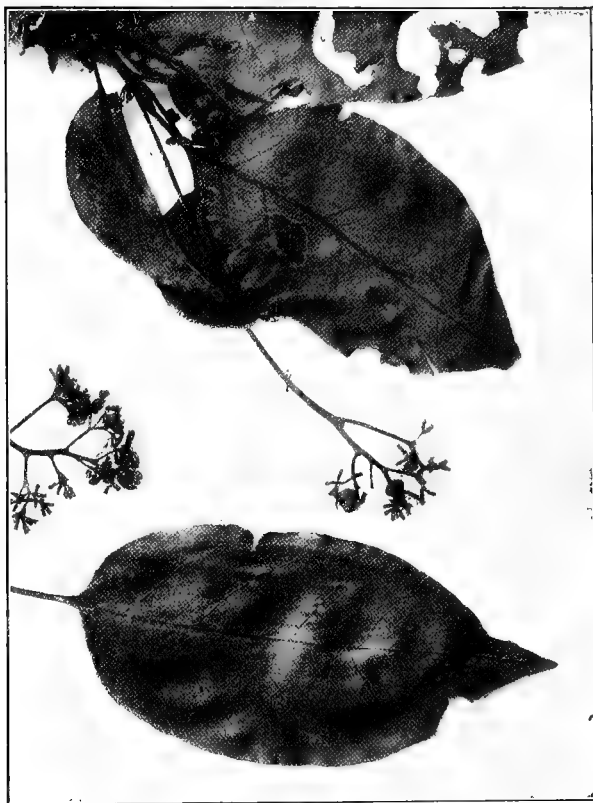


PLATE I. *Ficus Brittonii* Bold.



Phot. I. BOLDINGH.

PLATE II. *Pisonia bonairensis* Bold.



Phot. I. BOLDINGH.

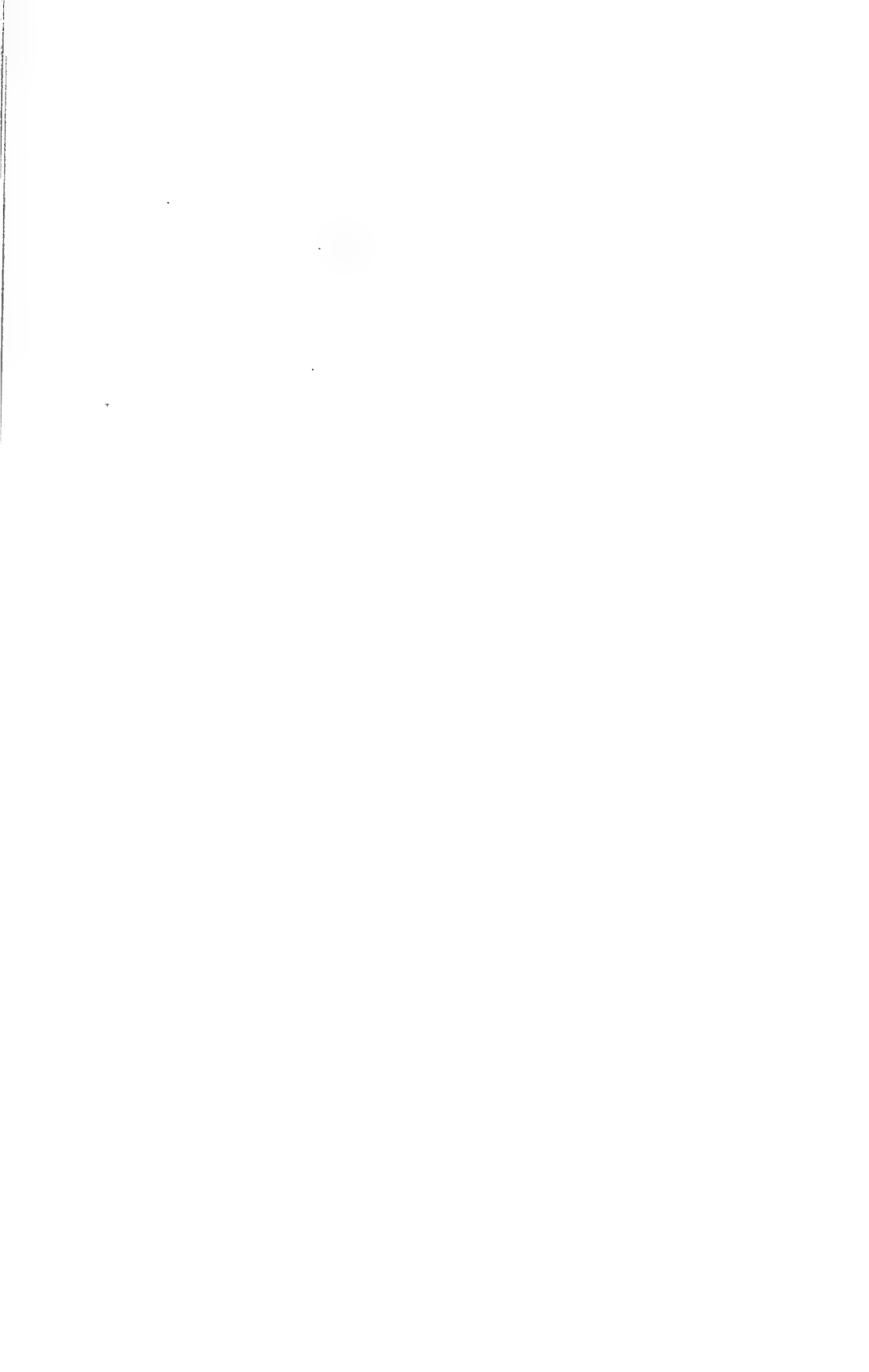


PLATE III. *Bursera bonariensis* Bold.



Phot. I. BOLDINGH.

PLATE IV. *Phyllanthus Euvensii* Bold.



Phot. I. BOLDINGII.

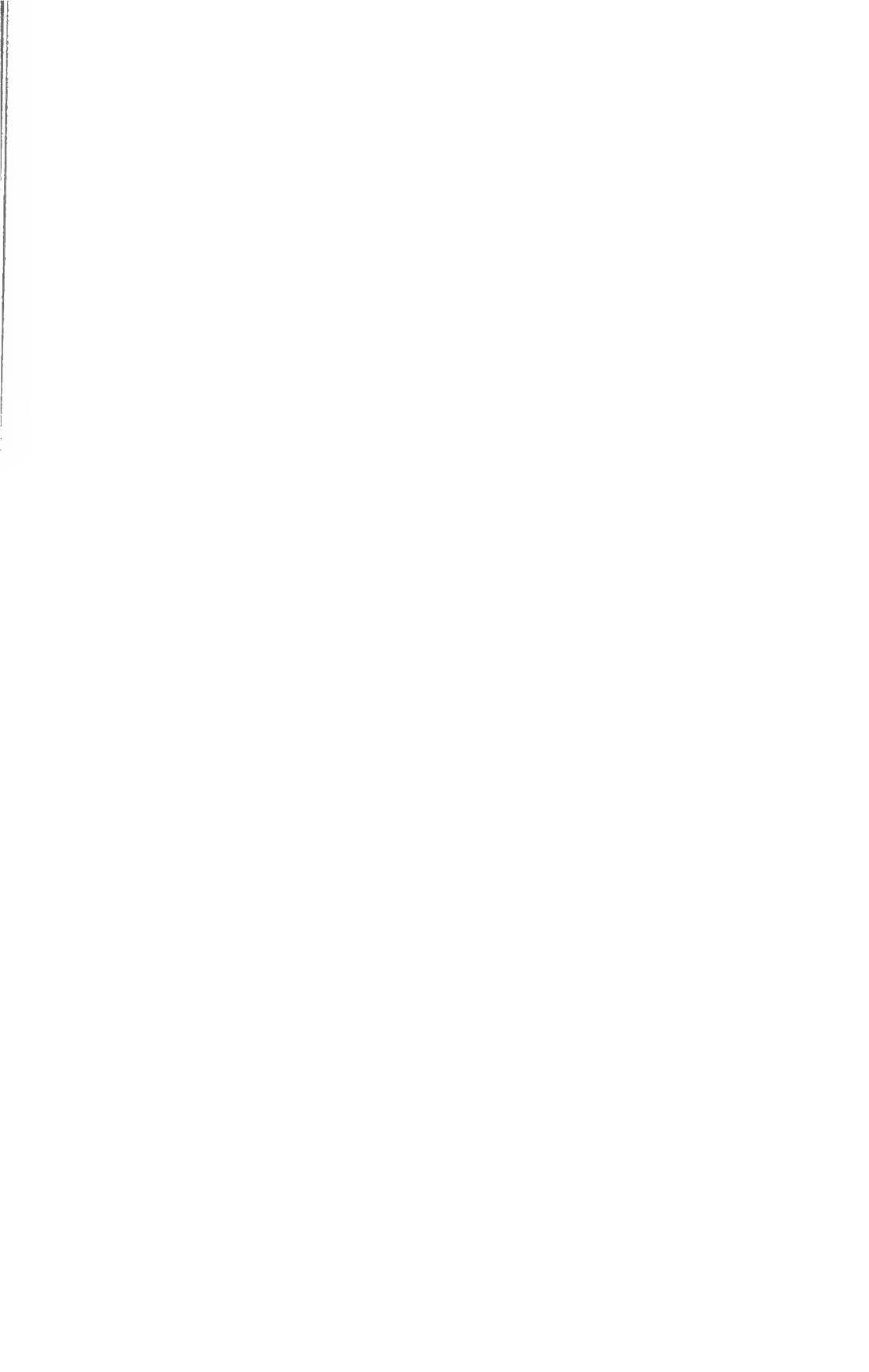


PLATE V. *Croton curassavica* Bold.



Phot. I. BOLDINGII.

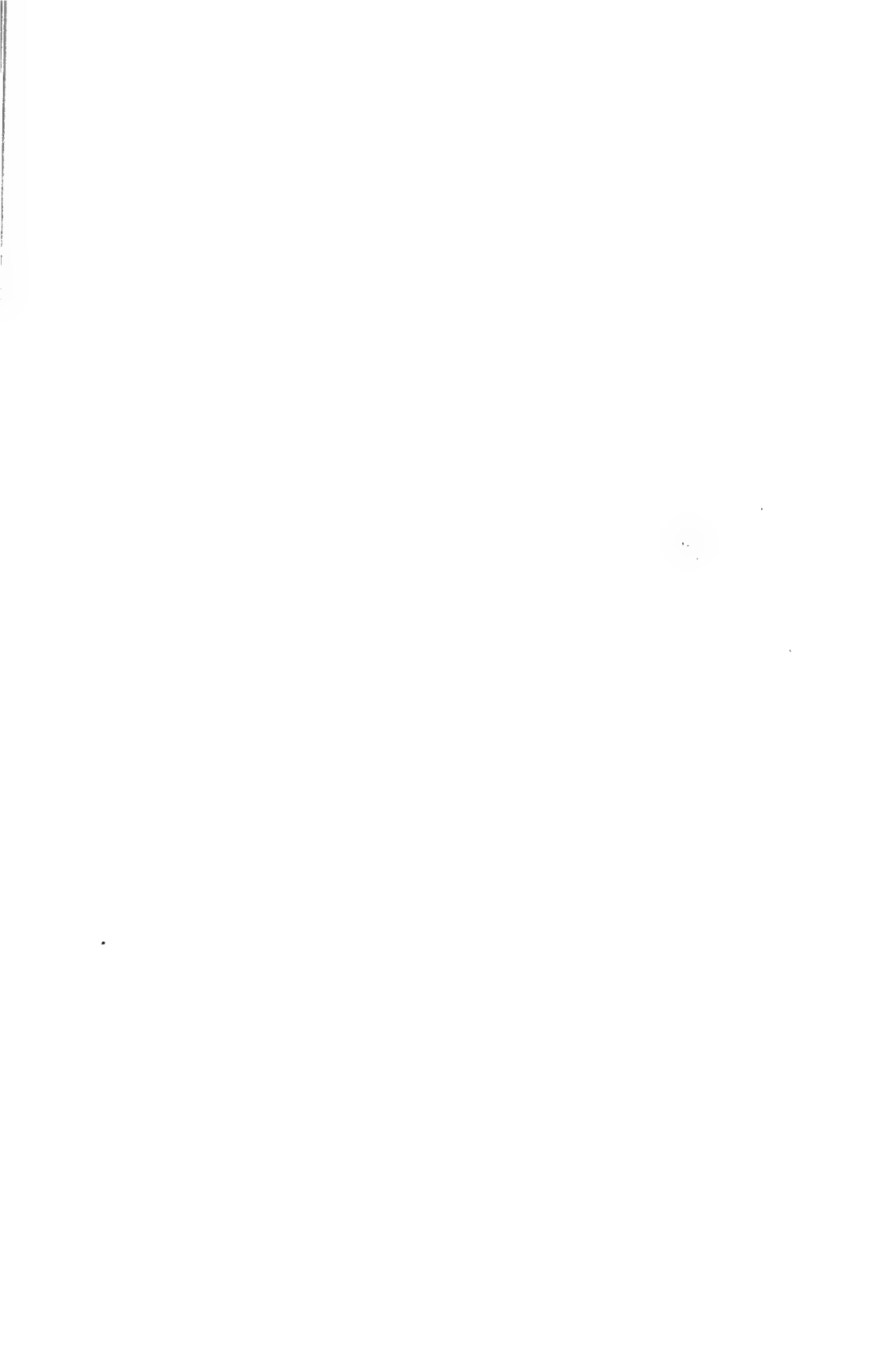
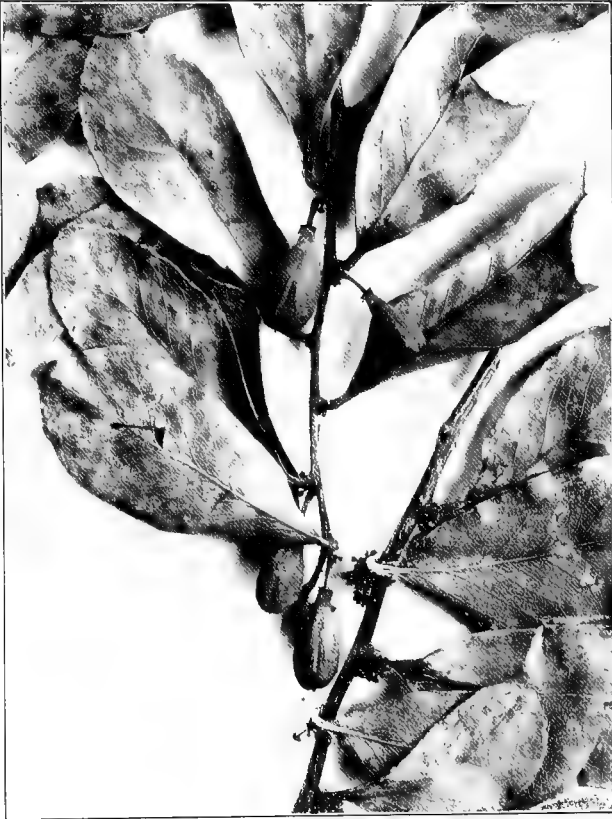


PLATE VI. *Maytenus Versluysii* Bold.



Phot. I. BOLDINGII.

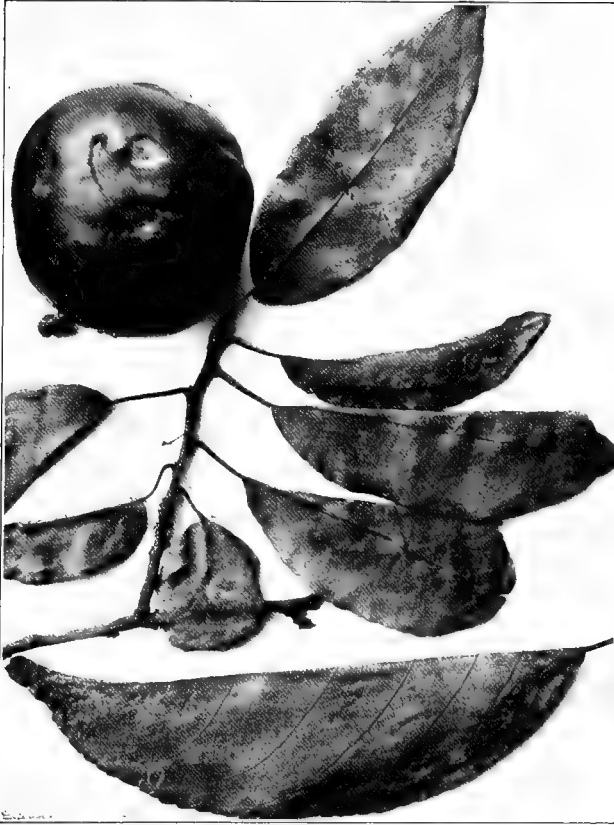


PLATE VII. *Condalea Henriquezii* Bold.



Phot. I. BOLDINGH.

PLATE VIII. *Casearia bonairensis* Bold.



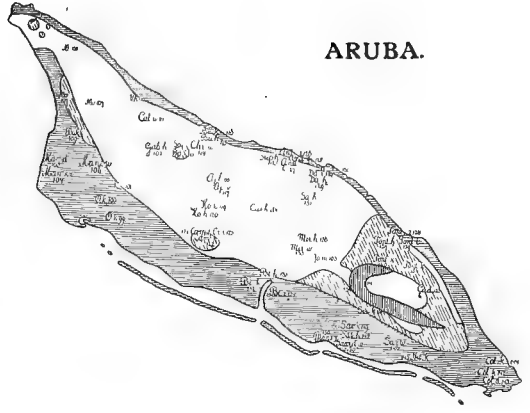
Phot. I. BOLDINGII.

PLATE IX. *Melanpodium bonaireense* Bold.

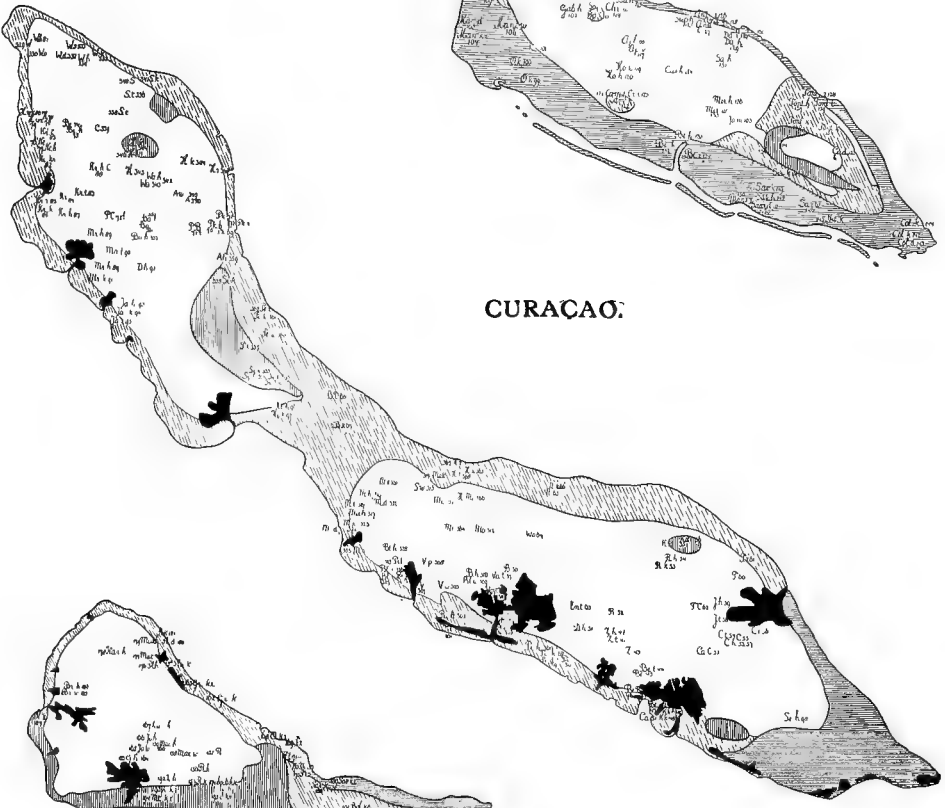


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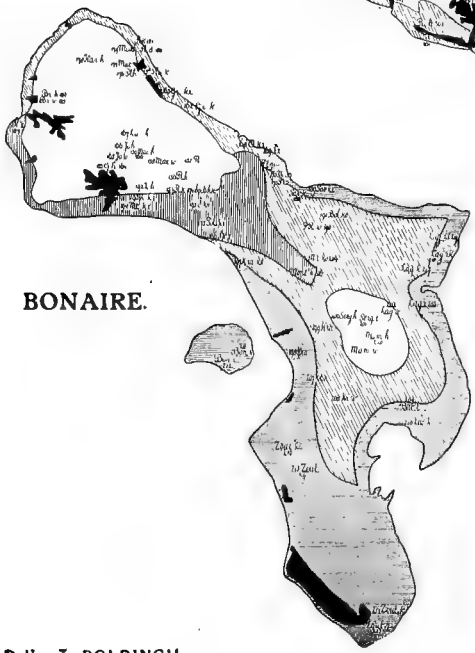
ARUBA.








CURACAO.



BONAIRE.



-  lowest calcareous soil.
-  middle calcareous plateau.
-  highest calcareous plateau.
-  non calcareous soil.
-  bays and lagoons.

DeIn. I, BOLDINGH.



FEB 20 1949

