

## An Enumeration Of Micronesian Plants

Kanehira, Ryoza  
Department of Agriculture, Kyushu Imperial University

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**Mucuna** ADANSON

**Mucuna gigantea** (WILLD.) DC. Prodr. **2** (1825) 405; MERR. l. c. 92; KANEHIRA l. c. 285.

*Dolichos gigantea* WILLD. Sp. Pl. **3** (1803) 1041.

Palau, Babeldaob 395; Ponape 1504; Palau Marikyoku 2035; Rota 1732; Pagan 2207. In forests at low altitudes. *Distrib.* India, Philippines to Polynesia.

**Mucuna pacifica** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 123.

Saipan HOSOKAWA 6725; 935 (KANEHIRA). *Distrib.* Endemic.

**Mucuna ponapeana** HOSOKAWA l. c. 122.

Ponape HOSOKAWA 6036. *Distrib.* Endemic.

**Mucuna pruriens** (LINN.) DC. Prodr. **2** (1825) 405; MERR. l. c. 92.

*Dolichos pruriens* LINN. Stickm. Herb. Amb. (1754) 23.

Guam. *Distrib.* Otherwise known only from the Philippines and the Moluccas.

**Ormocarpum** BEAUVOIS

**Ormocarpum cochinchinense** (LOUR.) MERR. in Philip. Journ. Sci. **5** (1910) Bot. 76.

*Diphaca cochinchinensis* LOUR. Fl. Cochinch. (1790) 454.

*Ormocarpum senoides* DC. Prodr. **2** (1825) 315; VOLKENS l. c. 464.

*Ormocarpum glabrum* (non T. et B.) KANEHIRA l. c. 291 (non *Euphorbiaceae*).

Yap 1258. Probably introduced, planted as a hedge plant. *Distrib.* Tropical Africa. India to southern China through Malaya to tropical Australia.

**Ormosia** JACKSON

**Ormosia calavensis** AZAOLA ex BLANCO, Fl. Filip. ed. 2 (1845) 230; KANEHIRA l. c. 285, Fl. Micr. (1933) 144, f. 49.

Palau, a coral island 220, Aimiriik 259, 1956, Marikyoku 407, Garamiscan 2104. In forests near the sea. *Distrib.* Philippines to the Moluccas. *Nat. name*: "adapsung-erket" (Palau).

**Pachyrrhizus** RICHARD

**Pachyrrhizus erosus** (LINN.) URB. Symb. Antill. **4** (1905) 311; MERR. I. c. 94.

*Dolichos erosus* LINN. Sp. Pl. (1753) 726.

Guam. *Distrib.* A native of tropical America, now pantropic. *Jap. name*: Kuzu-imo.

#### **Parkia** R. BROWN

**Parkia korom** KANEHIRA in Bot. Mag. Tokyo **45** (1981), 276, Fl. Micr. (1933) 145, f. 50.

Ponape, Kolonia 673!, 1670. In primary forests near Kolonia. *Distrib.* Known only from Ponape. *Nat. name*: "korom" (Ponape).

#### **Peltophorum** VOGEL

**Peltophorum inerme** (ROXB.) NAVES in BLANCO Fl. Filip. ed. 3 (1877-83) t. 335; MERR. I. c. 89.

*Caesalpinia inermis* ROXB. Fl. Ind. **2** (1832) 367.

Guam; Kusai 1422. *Distrib.* Widely distributed in the Indo-Malayan region, frequently cultivated for ornamental purposes.

#### **Phaseolus** TOURNEFORT

**Phaseolus adenanthus** G. W. F. MEY. Prim. Fl. Esseq. (1818) 239; MERR. I. c. 93.

Guam. *Distrib.* Pantropic.

**Phaseolus lunatus** LINN. Sp. Pl. (1753) 724; MERR. I. c. 94.

Guam. *Distrib.* A native of tropical America, now cultivated in all warm countries. *Jap. name*: Aui-mame.

**Phaseolus radiatus** LINN. Sp. Pl. (1753) 725; MERR. I. c. 94.

Guam. *Distrib.* Cultivated in all tropical countries. *Jap. name*: Azuki.

#### **Pithecellobium** MARTIUS

**Pithecellobium dulce** (ROXB.) BENTH. in HOOK. Journ. Bot. **3** (1844) 199; VOLKENS I. c. 463; MERR. I. c. 85; KANEHIRA I. c. 286.

*Mimosa dulcis* ROXB. Pl. Coromandel **1** (1795) 67, t. 99.

Saipan 956. Planted in avenues, about houses, etc. *Distrib.* Introduced from Mexico, now pantropic. *Nat. name*: "kamatiire." *Jap. name*: Kinkizyu.

**Pithecellobium palauense** KANEHIRA in Bot. Mag. Tokyo **48** (1934) (Oct.) 733 f. 3,

- Pithecolobium palauense* HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) (Dec.) 414.  
Palau, Korrer 3353! S. NISIDA. In forests of an uninhabited coral island. *Distrib.* Endemic.

**Pongamia** VENTENANT

- Pongamia pinnata** (LINN.) MERR. Interpret. Herb. Amb. (1917) 271, Enum. Philip. Fl. Pl. **2** (1923) 298; KANEHIRA l. c. **45** (1931) 286.  
*Cytisus pinnatus* LINN. Sp. Pl. (1753) 298.  
*Pongamia glabra* VENT. Jard. Malam. **1** (1803) 28, t. 28; VOLKENS l. c. 464.  
Palau Korrer 359; Yap 1197; Tinian 1048, 2272. In sea-side forests. *Distrib.* Mascarene Islands, tropical Asia, Malaya to Australia. *Nat. name*: "mirak" (Yap).

? **Pongamia** sp.

- Ponape Kolonia 747. In thickets.

**Psophocarpus** NECKER

- Psophocarpus tetragonolobus** (LINN.) DC. Prodr. **2** (1825) 403; MERR. l. c. 94.  
*Dolichos tetragonolobus* LINN. ex STICKM. Herb. Am. (1754) 23.  
Guam. *Distrib.* Widely distributed in the Indo-Malayan region.

**Pterocarpus** LINNAEUS

- Pterocarpus carolinensis** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 352 f. 29.  
*Pterocarpus indicus* (non WILLD.) VOLKENS l. c. 464; KANEHIRA l. c. 286.  
Palau 305! 508! 540, 1228; Yap 1228. In forests near the seashore. *Distrib.* Endemic. *Nat. names*: "aras" (Palau), "arau" (Yap).

**Pueraria** De CANDOLLE

- Pueraria** sp. VOLKENS l. c. 464.  
Yap (VOLKENS).

**Samanea** (BENTHAM) MERRILL

**Samanea saman** (JACQ.) MERR. in Journ. Washingt. Acad. Sci. **6** (1916) 47.

*Mimosa saman* JACQ. Fragm. (1800) 15, t. 9.

*Enterolobium saman* PRAIN ex KING in Journ. As. Soc. Beng. **66** (1897) 252; KANEHIRA l. c. **45** (1931) 284.

Saipan 108. Planted in the park, Saipan. *Distrib.* A native of tropical America, now widely distributed in cultivation. The rain tree. *Jap. name*: Amerika-nemu.

#### **Serianthes** BENTHAM

**Serianthes grandiflora** (WALL.) BENTH. in HOOK. Lond. Journ. Bot. **3** (1844) 225, Trans. LINN. Soc. **30** (1875) 599; VOLKENS l. c. 463; KANEHIRA l. c. **45** (1931) 286, Fl. Micr. (1933) 143, f. 58.

*Inga grandiflora* WALL. Cat. (1832) 5285, nom. nud.

Palau, Korrer 176, Arumonogui 2091. In beach forests. *Distrib.* Malay Peninsula to the Philippines and New Guinea. A very large tree. *Nat. name*: "ukal" (Palau), "gumol" (Yap).

**Serianthes Nelsonii** MERR. in Philip. Journ. Sci. **15** (1919) Bot. 542; KANEHIRA Fl. Micr. (1933) 150, f. 52.

The type from Guam. Rota 1794. In primary forests. *Distrib.* Endemic. *Nat. name*: "hayurangy" (Rota).

#### **Sesbania** SCOPOLI

**Sesbania grandiflora** (LINN.) PERS. Syn. **2** (1807) 316; MERR. l. c. 90. *Robinia grandiflora* LINN. Sp. Pl. (1753) 722.

Guam; Ponape, Kolonia, Planted. *Distrib.* Mascarene Islands, tropical Asia, Malaya and Australia.

#### **Sophora** LINNAEUS

**Sophora tomentosa** LINN. Sp. Pl. (1753) 373; MERR. l. c. 89; KANEHIRA l. c. **45** (1931) 286.

Saipan 1011. In thickets near the sea. *Distrib.* A pantropic strand plant. *Jap. name*: Iso-huji.

#### **Strongylodon** VOGEL

**Strongylodon lucidus** (FORST. f.) SEEM. Fl. Vit. (1895) 61; MERR. l. c. 92; DEGENER New Ill. Fl. Hawaiian Isl. 169 c.

*Glycine lucida* Forst. f. Prodr. (1786) 51.

Kusai 1356, 1393. In forests at medium altitudes. *Distrib.* Ceylon to Polynesia.

### **Tamarindus** LINNAEUS

**Tamarindus indica** LINN. Sp. Pl. (1753) 34; MERR. I. c. 87.

Ponape, Kolonia 1576. Planted in avenues. *Distrib.* A native of tropical Africa, now cultivated in all tropical countries. The tamarindo.

### **Tephrosia** PERSOON

**Tephrosia marina** DC. Prodr. **2** (1825) 253; MERR. I. c. 90.

The type from Guam. *Distrib.* Endemic.

### **Teramnus** P. BROWNE

**Teramnus labialis** (LINN. f.) SPRENG. Syst. **3** (1826) 235; MERR. I. c. 92.

*Glycine labialis* LINN. f. Suppl. (1774) 325.

Guam. *Distrib.* Pantropic.

### **Vigna** SAVI

**Vigna marina** (BURM.) MERR. Interpret. Herb. Amb. (1917) 285.

*Phaseolus marinus* BURM. Index Universalis Herb. Amb. **7** (1755) 17;

*Vigna lutea* A. GRAY, Bot. WILKES U. S. Explor. Exped. (1854) 452; VOLKENS I. c. 464.

Palau, Angaur 600; Ponape Kolonia 737; Pagan 2204. Along the seashore. *Distrib.* Pantropic.

**Vigna sinensis** (LINN.) SAVI ex HASSK. Cat. Hort. Bogor. (1844) 279; MERR. I. c. 94.

*Dolichos sinensis* LINN. Cent. Pl. **2** (1756) 27.

Guam. *Distrib.* Cultivated in all warm countries, a native of tropical Asia.

### **Zornia** J. F. GMELIN

**Zornia diphylla** (LINN.) PERS. Syn. **2** (1807) 318; MERR. I. c. 90.

*Hedysarum diphyllum* LINN. Sp. Pl. (1753) 746.

Guam. *Distrib.* Probably a native of tropical America, now pantropic. *Jap. name*: Sunamame.

**Oxalidaceae****Averrhoa** LINNAEUS

**Averrhoa bilimbi** LINN. Sp. Pl. (1753) 428; VOLKENS. l. c. 465.  
Yap; Palau, Korror 186. Planted. *Distrib.* Pantropic in cultivation.

**Averrhoa carambola** LINN. Sp. Pl. (1753) 428; VOLKENS l. c. 465;  
MERR. in Philip. Journ. Sci **9** (1914) Bot. 95; KANEHIRA in  
Bot. Mag. Tokyo **45** (1931) 287.  
Guam; Palau Aimiyon 491; Yap 1241. *Distrib.* Introduced from  
tropical America, now pantropic in cultivation.

**Oxalis** LINNAEUS

**Oxalis repens** THUNB. Diss. Oxal. (1781) 16; MERR. l. c. 95.  
In waste places and open grasslands etc. *Distrib.* Widely distri-  
buted in the warmer parts of the Old world. *Jap. name:*  
Katabami.

**Erythroxyllaceae****Erythroxyllon** LINNAEUS

**Erythroxyllon coca** LAM. Encycl. **2** (1783) 393.  
Ponape 1582. Planted in the Experiment Station, Kolonia. *Distrib.*  
A native of peru. The coca.

**Zygophyllaceae****Tribulus** TOURNEFORT

**Tribulus cistoides** LINN. Sp. Pl. (1753) 387; MERR. l. c. 95.  
Guam. *Distrib.* A native of tropical America, now widely distri-  
buted in the tropics of both hemispheres.

**Rutaceae****Aegle** CORREA

**Aegle Marmelos** CORREA in Trans. LINN. Soc. **5** (1800) 223.  
Ponape Kolonia 1475. Planted in the Experiment Station, Kolonia.  
*Distrib.* Introduced from India.

**Citrus** LINNAEUS

**Citrus Aurantium** LINN. Sp. Pl. (1753) 783; MERR. l. c. 97; KANE-  
HIRA in Bot. Mag. Tokyo **45** (1931) 287.

Saipan 910. In thickets at medium altitudes. *Distrib.* A native of tropical Asia, cultivated in all tropical and subtropical countries.

### **Evodia** FORSTER

**Evodia hortensis** FORST. Char. Gen. (1776) 14, t. 7; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 287.

Ponape Kolonia 660; Kusai Moto 1420. A cultivated plant. *Distrib.* Polynesia.

**Evodia nitida** LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 510; KANEHIRA l. c. 287, Fl. Micr. (1933) 151, f. 53.

Palau 510, 544, 1957, 2072, 2370. *Distrib.* The type from Palau, endemic.

**Evodia palawensis** LAUTERB. l. c. 508; KANEHIRA Fl. Micr. 153, f. 54.

The type from Korrör, Palau (LEDERMANN). Palau 1878, 2434, 2439. *Distrib.* Endemic.

**Evodia trichantha** LAUTERB. l. c. 509; KANEHIRA Fl. Micr. 154, f. 55.

The type from Babeldaob, Palau. Palau 1917, 1965, 2312, 2335. *Distrib.* Endemic.

### **Melicope** FORSTER

**Melicope ponapensis** LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 510; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 287, Fl. Micr. 155, f. 56.

Ponape Kolonia 698, Sankakuyama 764, Niinoani-zan 793, Parkier 1509, 1518, Torutom-zan 1562. In thickets and primary forests from low to medium altitudes. *Distrib.* Endemic. *Nat. name:* "pehpe" (Ponape).

### **Micromelum** BLUME

**Micromelum minutum** SEEM. Fl. Vitiens (1865) 303; LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 511; KANEHIRA in Bot. Mag. Tokyo **48** (1934) 400.

Palau 2394, 2463. In primary forestes, coral islands. *Distrib.* Fiji, Tonga, Samoa and New Caledonia.

**Triphasia** LOUREIRO

**Triphasia trifolia** (BURM. f.) P. WILS. in *Torreyia* **9** (1909) 33;  
MERR. l. c. 98.

*Limonia trifolia* BURM. f. *Fl. Ind.* (1768) 103.

*Triphasia aurantiola* LOUR. *Fl. Cochinch.* (1790) 152; LAUTERB.  
l. c. 512.

Guam, Rota 1806. In thicket, often forming a pure stand. *Distrib.*  
A native of tropical Asia, now widely distributed in the Old  
World.

**Simarubaceae****Brucea** J. F. MILLER

**Brucea javanica** (LINN.) MERR. in *Journ. Arnold Arb.* **9** (1928) 3.

*Rhus javanica* LINN. *Sp. Pl.* (1753) 265.

*Brucea sumatrana* ROXB. *Hort. Beng.* (1814) 12, *Fl. Ind.* **1** (1820) 469.

Ponape, Kolonia 1684. Planted in the Experiment Station, Kolonia.

*Distrib.* India through Malaya to Australia.

**Samadera** GAERTNER

**Samadera indica** GAERTN. *Fruct.* **2** (1791) 352, t. 156; LAUTERB. in  
*ENGL. Bot. Jahrb.* **56** (1921) 511; KANEHIRA in *Bot. Mag. Tokyo*  
**45** (1931) 288, *Fl. Micr.* (1933) 155, f. 57.

Palau, Garamiscan 558. In mangrove forests. *Distrib.* India to  
Malaya. *Nat. name:* "eskeam" (Palau).

**Soulamea** LAMARCK

**Soulamea amara** LAM. *Encycl.* **1** (1783) 449; LAUTERB. l. c. 344,  
f. 1; KANEHIRA in *Bot. Mag. Tokyo* **45** (1931) 288, *Fl. Micr.*  
(1933) 158, f. 58.

Palau, a coral island 219, 1903, 2447, 2453; Truk, a coral island  
near Tol, 1291. *Distrib.* Polynesia to New Guinea. *Nat. name:*  
"poyal" (Truk).

**Suriana** PLUMIER

**Suriana maritima** LINN. *Sp. Pl.* (1753) 284; LAUTERB. in *ENGL. Bot.*  
*Jahrb.* **56** (1921) 513.

Jaluit and Saipan. *Distrib.* A. tropical strand plant.

**Burseraceae****Canarium LINNAEUS**

**Canarium commune** LINN. Mant. 1 (1767) 127; LAUTERB. in ENGL. Bot. Jahrb. 56 (1921) 515; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 288, Fl. Micr. (1933) 156.

Ponape 848. Probably planted. *Distrib.* Malay Archipelago.

**Canarium ovatum** ENGL. in DC. Monogr. Phan. 4 (1883) 110; KANEHIRA l. c. 288.

Ponape Kolonia 739. Planted near a native house. *Distrib.* Philippines. This produces the pili-nut of the Philippines.

**Canarium palauense** LAUTERB. l. c. 515; KANEHIRA l. c. 288, Fl. Micr. 160, f. 59.

Palau Garamiscan 549, Aimiriik 2317. In primary forests at low altitudes. *Distrib.* Endemic.

**Meliaceae****Aglaia LOUREIRO**

**Aglaia mariannensis** MERR. in Philip. Journ. Sci. 9 (1914) Bot. 99; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 288, Fl. Micr. (1933) 161, f. 60.

Saipan 16, 41, 920, 977, 2238, Rota 1817; Saligan 2156, 2163. In thickets and forests from low to medium altitudes.

*Distrib.* The type from Guam, endemic. *Nat. name*: "maffinio" (Saipan).

**Aglaia palauensis** KANEHIRA Fl. Micr. (1933) 162, f. 61. Bot. Mag. Tokyo 47 (1933) 671.

*Aglaia mariannensis* (non MERR.) l. c. 45 (1931) 288, pro parte.

Palau Aimiriik 301, 2126!, 1942, 2300. In thickets and forests at low altitudes. *Distrib.* Endemic.

**Aglaia ponapensis** KANEHIRA Fl. Micr. (1933) 163, f. 61, Bot. Mag. Tokyo 47 (1933) 672.

*Aglaia mariannensis* (non MERR.) KANEHIRA l. c. 45 (1931) 288, pro parte.

Ponape 649, 825! 1488, 1528. In thickets and forests from low to high altitudes. *Distrib.* Endemic. *Nat. name*: "karasyau" (Ponape).

**Dysoxylum** BLUME

? **Dysoxylum trukensis** KANEHIRA in sched.

Truk, Fefan 1721. In forests at medium altitudes, The specimen is sterile.

**Lansium** CORREA

**Lansium domesticum** CORREA in Ann. Mus. Hist. Nat. Paris **10** (1807) 157, t. 10, f. 1; KANEHIRA l. c. **45** (1931) 288.

Ponape, Kolonia 666, 1590. Planted in the Botanical Garden. *Distrib.* Indo-China, Malay Peninsula and Archipelago; cultivated for its edible fruits.

**Melia** LINNAEUS

**Melia Azedarach** LINN. Sp. Pl. (1753) 384; VOLKENS l. c. 465; MERR. l. c. 100; KANEHIRA l. c. **45** (1931) 288.

Ponape, Kolonia 654, 700; Yap 916; Saipan 2224. In thickets and secondary forests. *Distrib.* India to tropical Africa, southern China and Formosa through Malaya to tropical Australia. *Jap. name*: Sendan.

**Vavaea** BENTHAM

**Vavaea pauciflora** VOLKENS in ENGL. Bot. Jahrb. **31** (1901) 465; KANEHIRA l. c. **45** (1931) 289, Fl. Micr. (1933) 165, f. 63.

Yap 1231. In primary forests near the seashore. *Distrib.* The type from Yap, endemic. *Nat. name*: "mesei" (Yap). Wood is used for incense.

**Xylocarpus** KOENIG

**Xylocarpus granatum** KOENIG in Naturf. **20** (1784) 2; KANEHIRA l. c. 289, Fl. Micr. 166, f. 64.

Palau: Aimiriik 318, New Gaspan 2121. A mangrove tree. *Distrib.* India and Ceylon through Malaya to New Caledonia. *Nat. names*: "mudurobogon" (Palau), "brok" (Ponape), "pulbun" (Truk), "yamgal" (Yap).

**Malphigiaceae****Rysopteris** BLUME

**Rysopteris Cumingiana** A. JUSS. in Arch. Mus. Paris **3** (1843) 384.

Truk, Moen 1708; Palau, Tôdaiyama 1863, Coral island 2400. In thickets at medium altitudes. *Distrib.* Philippines and Formosa.

### **Tristellateia** THOUARS

**Tristellateia australasie** A. RICH. Sert. Astrolab. Atlas (1833) t. 15; MERR. in Philip. Journ. Sci. **7** (1912) Bot. 236, Enum. Philip. Fl. Pl. **2** (1923) 380; KANEHIRA in Bot. Mag. Tokyo **49** (1935) 273.

Palau, a coral island near Airai, 2398. *Distrib.* Malay Peninsula and Archipelago to tropical Australia, Philippines and New Caledonia.

### **Polygalaceae**

#### **Polygala** TOURNEFORT

**Polygala paniculata** LINN. Syst. ed. 10 (1759) 1154.

Palau: Korrer 118. A, Makikyoku 2031. In waste fields. *Distrib.* Tropical Africa to Indian Ocean.

**Polygala polyfolia** PRESL, Rel. Haenk. **2** (1830) 101; MERR. Enum. Philip. Fl. Pl. **2** (1923) 384.

*Polygala Warburgii* CHODAT in ENGL. Bot. Jahrb. **13** (1891) 346; VOLKENS l. c. 465.

Yap (VOLKENS); Ponape Kolonia 683. In open grasslands at low altitudes. *Distrib.* Amboina to New Guinea.

### **Euphorbiaceae**

#### **Acalypha** LINNAEUS

**Acalypha fruticosa** FORSK. Fl. Aegypt. Arab. (1775) 161; MUELL-ARG. in DC. Prodr. **15**, 2 (1866) 822; KURZ, Forest Fl. **2** (1877) 397; HOOK. f. Fl. Br. Ind. **5** (1887) 415; PAX et HOFFM. in ENGL. Pflanzenr. **85** (1924) 168.

*Acalypha amentacea* ROXB. ed. 2, **3** (1832) 676; MERR. Enum. Philip. Pl. **2** (1923) 444.

Palau Korrer 2012. In thickets of a coral island. *Distrib.* East Africa, Malaya, Philippines to New Guinea.

**Acalypha grandis** BENTH. in HOOK. Lond. Jour. Bot. **2** (1843) 232; PAX et HOFFM. l. c. 149; HOSOKAWA in Trans. Nat. Hist. Formos. **25** (1935) 28.

Palau Angaur 577. In thickets. *Distrib.* Malaya.

**Acalypha hispida** BURM. f. Fl. Ind. (1768) 303, t. 61, f. 1; KANEHIRA l. c. **45** (1931) 239.

Yap 1215. Planted. *Distrib.* Probably a native of southern Malaya, now cultivated in tropical countries.

**Acalypha indica** LINN. Sp. Pl. (1753) 1009; MERR. l. c. 100; PAX et HOFFM. l. c. 33; HOSOKAWA l. c. 27.

Saipan 1088. A weed in waste places. *Distrib.* Pantropic. *Jap. name:* Kidati-amigasa.

var. **hirsuta** HOSOKAWA l. c. 27.

Palau HOSOKAWA 7079!, *Distrib.* Endemic.

**Acalypha trukensis** PAX et HOFFM. l. c. 151; HOSOKAWA l. c. 28.

The type from Truk, Islet Fefan (KRAEMER). *Distrib.* Endemic.

#### **Aleurites** FORSTER

**Aleurites moluccana** (LINN.) WILLD. Sp. **4** (1805) 590; KANEHIRA l. c. 289.

*Jatropha moluccana* LINN. Sp. Pl. (1753) 1006.

Ponape Metaranium 846. In thickets near houses. *Distrib.* Tropical Asia to Polynesia, now planted in most tropical countries; the candle nut.

#### **Antidesma** BURMAN

**Antidesma kusaiense** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 456. Kusai 1325! 1433!. In forests at the top of the island. *Distrib.* Endemic.

**Antidesma ponapense** KANEHIRA in sched.

Ponape Niinoani-zan 824. In primary forests at about 500 m altitude.

#### **Bridelia** WILLDENOW

? **Bridelia palauensis** KANEHIRA in sched.

Palau Tôdai-yama 1876. In primary forests at about 150 m alt.

#### **Calaoxylon** JUSSIEU

? **Calaoxylon fallax** MUELL.-ARG. in DC. Prodr. **15**, 2 (1866) 780; PAX et HOFFM. in Pflanzenr. **63** (1914) 118.

*Calaoxylon parviflorum* SEEM. in Bonplandia **9** (1861) 258; Fl. Vitiens (1865-73) 224.

Palau Garamiscan 2102. In thickets. *Distrib.* Fiji Islands. The present plant is probably referred to this species.

**Claoxylon longifolium** (BL.) MIQ. Fl. Ind. Batav. **1**, 2 (1859) 386; HOOK. f. Fl. Br. Ind. **5** (1887) 411; PAX et HOFFM. l. c. **63** (1914) 117; KANEHIRA l. c. **45** (1931) 289.

*Erythrochilus longifolius* BL. Bijdr. (1825) 616.

Ponape: Kolonia 647, 1491, Sankakuyama 761, Kity 1532. Fairly abundant in the forests from low to medium altitudes. *Distrib.* Malaya.

*Nat. name*: "kôee" (Ponape).

**Claoxylon longiracemosum** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 25.

Palau Babeldaob HOSOKAWA 7148! *Distrib.* Endemic.

**Claoxylon marianum** MUELL.-ARG. in DC. Prodr. **15**, 2 (1866) 783; MERR. l. c. 100; KANEHIRA l. c. 289, Fl. Micr. 169, f. 65.

Saipan 7, 896, 921, 2220; Rota 1757. In primary forests at medium altitudes. The Type from Guam, collected by GAUDICHAUD. *Distrib.* Endemic. *Nat. name*: "kattleknau" (Saipan).

#### **Cleistanthus** HOOKER f.

**Cleistanthus carolinensis** JABL. in ENGL. Pflanzenr. Euph.-Bridel. (1915) 46; KANEHIRA in Bot. Mag. Tokyo **45** (1931). l. c. 289.

*Cleistanthus angularis* KANEHIRA *ibid.* 289, Fl. Micr. (1933) 170, f. 66. Palau: Aimiriik 313, 2347, 2762, Korror 357, Babeldaob 534!, a coral island 2004, 2395. In thickets and primary forests at low altitudes. *Distrib.* Endemic.

**Cleistanthus insularis** KANEHIRA in Bot. Mag. Tokyo **47** (1933) 673. Palau Airai 2132!. In mangrove forests. *Distrib.* Endemic.

**Cleistanthus Morii** KANEHIRA l. c. **46** (1932) 456, F. Micr. 171, f. 67. The type from Moen, Truk 1703! In primary forests at medium altitudes. *Distrib.* Endemic.

#### **Codiaeum** (RUMPH.) JUSSIEU

**Codiaeum variegatum** (LINN.) BL. Bijdr. (1825) 606; VOLKENS l. c. 466; MERR. l. c. 101.

*Croton variegatum* LINN. Sp. Pl. (1753) 1199.

Cultivated for ornaments. *Distrib.* Pantropic. Croton.

**Croton** LINNAEUS\*

**Croton heterocarpus** MUELL.-ARG. in DC. Prodr. **15**, 2 (1866) 621;  
KANEHIRA l. c. 290.

Palau Korrer 189. In thickets near the seashore. *Distrib.* Malay Peninsula, Philippines, Sumatra and Borneo.

**Croton Tiglium** LINN. Sp. Pl. (1753) 1007.

Ponape Kolonia 1584. Planted in the Experiment Station. *Distrib.* India to New Guinea. The seeds used for poisoning fish.  
*Jap. name*: Hadu.

**Drypetes** VAHL

**Drypetes carolinensis** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 457, Fl. Micr. 173, f. 68.

The type from Yap 1222! In primary forests at low altitudes. *Distrib.* Endemic.

**Drypetes dolichocarpa** KANEHIRA l. c. **48** (1934) 400.

Saipan 2141! 2784; Tinian 1044. In thickets about 100 m altitude, *Distrib.* Endemic.

**Drypetes nitida** KANEHIRA l. c. **48** (1934) l. c. 400.

Palau: Korrer 2468! Airai 2391, 2784. In primary forests, coral islands. *Distrib.* Endemic.

**Drypetes rotensis** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 733 f. 4.  
*Drypetes* sp. in KANEHIRA Fl. Micr. (1933) 174.

Rota 1791! In primary forests. *Distrib.* Endemic.

**Euphorbia** COMMERSON

**Euphorbia atoto** FORST. f. Prodr. (1786) 207; VOLKENS l. c. 466;  
MERR. l. c. 101.

Palau Angaur 601. A strand plant. *Distrib.* India to southern China and Formosa through Malaya to Australia. *Jap. name*: Hamadaigeki.

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\* T. HOSOKAWA proposed the genus *Saipania*, Trans. Nat. Hist. Soc. Formos. **25** (1935) 28, a monotypic genus of *Euphorbiaceae* represented by *Saipania glandulosa* HOSOKAWA. He recently informs me that it is probably not distinct from *Croton*. Until its position and relationships shall have been more fully determined, the genus is excluded.

**Euphorbia Gaudichaudii** BOISS. Cent. Euph. (1860) 7; MERR. l. c. 101.

*Distrib.* A species known only from Guam.

**Euphorbia heterophylla** LINN. Sp. Pl. (1753) 453; MERR. l. c. 101. Saipan 964, Kusai 1360. Very common in thickets and waste places. *Distrib.* A native of tropical America, now pantropic.

**Euphorbia hirta** LINN. Sp. Pl. (1753) 454; MERR. l. c. 101.

*Euphorbia pilulifera* LINN. Sp. Pl. 454; VOLKENS l. c. 466.

Palau Korror 205, Saipan 1035, Kusai 1410, Pagan 2213. In waste places and open grasslands. *Distrib.* Pantropic. *Jap. name:* Taiwan-nisikisô.

**Euphorbia macgillivraii** BOISS. in DC. Prodr. 15, 2 (1862) 26.

Palau: Marikyoku 416, Garamiscan 2107; Yap 1115, 1247. In thickets at low altitudes. *Distrib.* Australia.

**Euphorbia serrulata** REINW. ex BL. Bijdr. (1826) 635; VOLKENS l. c. 466.

Yap (VOLKENS). *Distrib.* Southern China, Formosa through Malaya to Timor and tropical Australia.

**Euphorbia thymifolia** LINN. Sp. Pl. (1753) 454; VOLKENS l. c. 466; MERR. l. c. 101; KOIDZ. in Bot. Mag. Tokyo 29 (1915) 251.

Palau Korror 208. In waste places. *Distrib.* Pantropic. *Jap. name:* Iriomote-nisikisô.

**Euphorbia tinianensis** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 29.

Tinian HOSOKAWA 7804. *Distrib.* Endemic.

#### **Excoecaria** LINNAEUS

**Excoecaria Agallocha** LINN. Syst. ed. 10 (1759) 1288; VOLKENS l. c. 466; PAX et HOFFM. in ENGL. Pflanzenr. 52 (1912) 266, f. 30; KANEHIRA l. c. 45 (1931) 290.

Palau Korror 131, 363, 365. In beach forests or in mangrove swamps. *Distrib.* India to Polynesia. *Nat. names:* "bat" (Yap), "ayas" (Palau), "lôsus" (Truk). *Jap. name:* Simasiraki.

#### **Glochidion** FORSTER

**Glochidion Kanehirae** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 22.

Palau KANEHIRA 241! *Distrib.* Endemic.

**Glochidion littorale** Bl. Bijdr. (1825) 585; Miq. Fl. Ind. Bat. **1**, 2 (1858-59) 277; MERR. Enum. Fl. **2** (1823) 399.

*Phyllanthus littoralis* MUELL.-ARG. in Flora **48** (1865) 370, DC. Prodr. **15**, 2 (1866) 280.

Palau Korror 1906. In thickets of a coral island. *Distrib.* India to Java, Philippines to Borneo.

**Glochidion macrosepalum** HOSOKAWA l. c. 21.

Palau Babeldaob, HOSOKAWA 7053. *Distrib.* Endemic.

**Glochidion marianum** MUELL.-ARG. in Linnaea **32** (1863) 66; MERR. l. c. 102; HOSOKAWA l. c. 23.

"Originally described from specimens collected in Guam by GAUDICHAUD, reported also from Tonga by MUELLER, with a variety from Samoa" (MERRILL l. c.)

**Glochidion palauense** HOSOKAWA l. c. 22.

Palau HOSOKAWA 7453. *Distrib.* Endemic.

**Glochidion ponapense** HOSOKAWA l. c. 24.

Ponape HOSOKAWA 5717, 5737, 5758, 5770. *Distrib.* Endemic.

**Glochidion puberulum** HOSOKAWA l. c. 23.

Ponape HOSOKAWA 5523. Truk KANEHIRA 1724. *Distrib.* Endemic.

**Glochidion ramiflorum** Forst. Char. Gen. (1776) 114, t. 57; KANEHIRA l. c. 290; HOSOKAWA l. c. 22.

Palau Aimiyon 611, Ponape 1484. In thickets and forests. *Distrib.* Polynesia.

#### **Hevea** AUBLET

**Hevea brasiliensis** (HBK.) MUELL.-ARG. in Linnaea **34** (1856) 204.

*Siphonia brasiliensis* HBK. Nov. Gen. Sp. Pl. **7** (1818) 141.

Ponape Kolonia 1596. Planted in the Experiment Station. *Distrib.* A native of Brazil; Para rubber.

#### **Homalanthus** JUSSIEU

**Homalanthus populneus** (GEISEL.) PAX in ENGL. & PRANTL Nat. Pflanzenf. **3**, 5 (1890) 96, f. 60; PAX et HOFFM. in ENGL. Pflanz-

zenr. **52** (1912) 46, f. 7; KANEHIRA l. c. **45** (1931) 290, Fl. Micr. (1933) 176.

*Stillignia populnea* GEISEL. Croton Monog. (1807) 80.

Ponape Kolonia 748. *Distrib.* Malay Peninsula, Sumatra, Java, Borneo, Celebes, Philippines Amboina and New Guinea. *Nat. name*: "keishia" (Ponape).

### **Jatropha** LINNAEUS

**Jatropha Curcas** LINN. Sp. Pl. (1793) 1006; KANEHIRA l. c. 290.

Saipan 904. Planted. *Distrib.* A native of tropical America, now in all tropical countries. It is physic nut. *Nat. name*: "tubataba" (Saipan).

**Jatropha multifida** LINN. Sp. Pl. (1753) 1006; MERR. l. c. 102.

Tinian 1072. Planted for ornamental purposes. *Distrib.* Introduced from tropical America.

### **Macaranga** THOUARS

**Macaranga carolinensis** VOLKENS (1901) 466; PAX et HOFFM. in Pflanzenr. **63** (1914) 371; KANEHIRA l. c. 291, Fl. Micr. 177, f. 66.

Palau: Korrer 88, 188, 1850; Aimiriik 266, 2341, 2342; Yap 1096, 1097; Truk Tol 1278, Moen 1717, Fefan 1719; Ponape Parkier 1502, 1627. Very common in forests and thickets from low to medium altitudes. *Distrib.* Endemic. *Nat. names*: "apot" or "aput."

**Macaranga Kanehirae** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 27.

Ponape KANEHIRA 632, 708. *Distrib.* Endemic.

**Macaranga Thomsonii** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 102; KANEHIRA Fl. Micr. (1933) 178, f. 70.

The type from Guam. Rota 1735, 1789. In primary forests at about 300 m altitude. *Distrib.* Endemic.

### **Mallotus** LOUREIRO

**Mallotus palauensis** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 25.

Palau HOSOKAWA 7284. Palau 838, 1855, 1918, 2294. *Distrib.* Endemic.

**Mallotus ponapensis** HOSOKAWA l. c. 26.  
Ponape HOSOKAWA 6124. *Distrib.* Endemic.

#### **Manihot** TOURNEFORT

**Manihot Glaziovii** MUELL.-ARG. in MART. Fl. Bras. **15**, 2 (1874) 446.  
Ponape Kolonia 1682. Planted in the Experiment Station, Kolonia.  
*Distrib.* A native of tropical America, now pantropic in cultivation; Ceara rubber.

**Manihot utilissima** POIL, Pl. Bras. Ic. Desc. **1** (1827) 32, t. 24;  
VOLKENS l. c. 466; MERR. l. c. 103.  
Ponape Kolonia 1598. Planted and semicultivated. *Distrib.* A native of Mexico, now pantropic; Cassava or tapioca.

#### **Melanolepis** REICHENBACH f. et ZOLLINGER

**Melanolepis multiglandulosa** (REINW.) REICHB. f. et ZOLL. in Linnaea **28** (1856) 324; KANEHIRA l. c. 291, Fl. Micr. 179, f. 71.  
*Croton multiglandulosa* REINW. ex BL. Cat. Gew. Buitenz. (1823) 105.  
Saipan 19, 886, 2249; Tinian 1061; Rota 1742, '1792; Aramagan 2187. In secondary forests at low altitudes. *Distrib.* Indo-China, Formosa through Malaya and Philippines to New Guinea. *Nat. name*: Yanbaru-akamegasiwa.

#### **Phyllanthus** LINNAEUS

**Phyllanthus atropurpurea** BOIJ. Hort. Maurit. 280, nomen.  
Palau, Korrer. Planted in gardens. *Distrib.* A native of Comoro Island in the east coast of tropical Africa, now widely cultivated.

**Phyllanthus marianus** MUELL.-ARG. in Linnaea **32** (1863) 17;  
MERR. l. c. 103; KANEHIRA l. c. 291. HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 20.  
Saipan 34, 1036; Pagan 2208; Palau Korrer 195. In thickets and waste places. *Distrib.* Otherwise known only from Guam.

**Phyllanthus Niuri** LINN. Sp. Pl. (1753) 981; VOLKENS l. c. 465;  
MERR. l. c. 104; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 250.  
Palau Korrer 209; Ponape Kolonia 736; Kusai 1412; Jaluit (KOIDZUMI). A common weed along the seashore. *Distrib.* Pantropic. *Jap. name*: Kidati-kominkasô.

**Phyllanthus palauensis** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 19.

Palau Babeldaob, HOSOKAWA 7242! *Distrib.* Endemic.

**Phyllanthus rupi-insularis** HOSOKAWA l. c. 19.

Palau HOSOKAWA 7534! *Distrib.* Endemic.

**Phyllanthus Saffordii** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 104, HOSOKAWA l. c. 20.

The type from Guam. *Distrib.* Endemic.

**Phyllanthus simplex** RETZ. Obs. **5** (1789) 29; VOLKENS l. c. 465; MERR. l. c. 105.

Yap, Guam. *Distrib.* India to southern China, Malaya, Philippines and Polynesia. *Jap. name*: Taiwan-himekanzô.

**Phyllanthus urinaria** LINN. Sp. Pl. (1753) 982; VOLKENS l. c. 465; MERR. l. c. 105.

Guam, Yap. *Distrib.* Pantropic. *Jap. name*: Ko-mikanso.

#### **Ricinus** TOURNEFORT

**Ricinus communis** LINN. Sp. Pl. (1753) 1007; VOLKENS l. c. 466; MERR. l. c. 105.

Guam, Yap. *Distrib.* Pantropic, a native of the Old World. *Jap. name*: Tôgoma.

#### **Sapium** JACQUIN

**Sapium indicum** WILLD. Sp. Pl. (1805) 572; PAX et HOFFM. in ENGL. Pflanzenr. **52** (1912) 251, f. 45, E; KANEHIRA l. c. **45** (1931) 291, Fl. Micr. 181, f. 72.

Palau: Babeldaob 385, Marikyoku 2036. *Distrib.* Ceylon, India through Malaya to New Guinea. *Nat. name*: "masklegl" (Palau).

#### **Anacardiaceae**

##### **Anacardium** LINNAEUS

**Anacardium occidentale** LINN. Sp. Pl. (1753) 1007; MERR. l. c. 105; LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 518.

Guam (MERRILL), Saipan (FRITZ). Planted. *Distrib.* A native of tropical America, now widely distributed in most tropical countries. Cashew nut.

**Buchanania** SPRENGEL

**Buchanania Engleriana** VOLKENS in ENGL. Bot. Jahrb. **31** (1901) 466; LAUTERB. l. c. **56** (1921) 517; KANEHIRA l. c. 291, Fl. Micr. 182, f. 73.

Yap 1114, 1237 1180. In primary forests at medium altitudes. *Distrib.* The type from Yap. Endemic.

**Buchanania palawensis** LAUTERB. l. c. **56** (1921) 517; KANEHIRA l. c. 291, Fl. Micr. 183, f. 74.

Palau: Korrör 355, 1905, 2455, Marikyoku 432, Aimiriik 258, 2281, Garamiscan 2114. In beach forests on coral rocks. *Distrib.* The type from Palau; endemic. *Nat. name*: "omail" (Palau).

**Camptosperma** THWITES

**Camptosperma brevipetiolata** VOLKENS in ENGL. l. c. 466; LAUTERB. l. c. 518; KANEHIRA l. c. 292, Fl. Micr. 184, f. 75.

Palau: Armatin 471, Aimiriik 258, 265, 2285, Korrör 142, Marikyoku 2035; Ponape Kolonia 635, 1571; Yap 1111; Kusai 1328. Very common in forests from low to medium altitudes. *Distrib.* The type from Yap. Endemic. *Nat. names*: "tohn" (Ponape), "ramala" or "ramulo" (Yap) "keralm" (Palau), "elak" (Kusai).

**Camptosperma brevipetiolata** var. **parvifolia** LAUTERB. l. c. 519. Palau Korrör 1903. *Distrib.* The type from Palau (KRAEMER). Endemic.

**Mangifera** LINNAEUS

**Mangifera indica** LINN. Sp. Pl. (1753) 200; MERR. l. c. 105; KANEHIRA l. c. 292.

Ponape Kolonia 873. Planted. *Distrib.* Indo-Malayan region in general cultivation, now planted in all tropical countries. Mango.

**Mangifera minor** BL. in Mus. Lugd.-Bat. **1** (1849) 198; LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 517.

Ponape Kolonia 1501. In thickets at low altitudes. *Distrib.* Molucas to New Guinea. Wild mango.

**Mangifera odorata** GRIFF. Notul. **4** (1854) 417; MERR. l. c. 105. Guam. Planted. *Distrib.* Widely distributed in Malaya. Spain mango.

**Rhus** TOURNEFORT

**Rhus taitensis** GILL. in Ann. Sci. Nat. **2**, 7 (1837) 361; MERR. Enum. Philip. Fl. Pl. **2** (1923) 473; KANEHIRA l. c. **45** (1931) 292, Fl. Micr. (1933) 185, f. 76.

*Rhus simarubaefolia* A. GRAY, Bot. WILKES U. S. Explor. Exped. (1854) 367; VOLKENS l. c. 467; LAUTERB. l. c. **56** (1921) 519.

Palau: Korrör 130, Aimiriik 2327; Yap 1134; Ponape Parkir 1505; Truk Moen 1707.

Very common in thickets and forests at low and medium altitudes. *Distrib.* Philippines to Polynesia. *Nat. name*: "acaues" (Palau), "garahde" (Yap).

**Semecarpus** LINNAEUS f.

**Semecarpus Kraemeri** LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 521 (in nota); KANEHIRA l. c. **46** (1932) 485, Fl. Micr. 187, f. 77. Truk, Tol 1274. In primary forests at medium altitudes. *Distrib.* Endemic.

**Semecarpus venenosa** VOLKENS in ENGL. Bot. Jahrb. **31** (1901) 467; LAUTERB. l. c. **56** (1921) 521, f. 1; KANEHIRA l. c. 292, Fl. Micr. 187, f. 78.

Palau: Babeldaob 309, 428, Aimiriik 1975, 2288; Yap 1175. *Distrib.* The type from Yap, endemic. *Nat. name*: "tohnget" (Palau). A medium-sized tree, sap very poisonous.

**Spondias** LINNAEUS

**Spondias dulcis** FORST. f. Prodr. 198; LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 518.

Ponape. I have seen a very large tree in a road side, near Kity, about 150 cm in diameter. Occasionally planted. *Distrib.* Malaya to Polynesia.

**Spondias lutea** LINN. Sp. Pl. ed. 2 (1762) 613.

Palau (*fide* OKAMOTO). *Distrib.* A native of tropical America, now widely cultivated. *Nat. name*: "mesehezl" (Palau).

**Spondias pinnata** (LINN. f.) KURZ in Pegu Report. (1875) Å 44; KANEHIRA l. c. **45** (1931) 292.

*Mangifera pinnata* LINN. f. Suppl. (1781) 156.

*Spondias mangifera* WILLD. Sp. Pl. **2** (1799) 751; LAUTERB. l. c. 518. Palau Babeldaob 378, 2771; Ponape Kolonia, Botanical Garden 664. In thickets near houses; frequently planted for its edible fruits. *Distrib.* The Philippines and the Moluccas. *Nat. name*: "tetimul" (Palau). The fruits are much smaller than those of the preceding.

### Aquifoliaceae

#### Ilex LINNAEUS

*Ilex Mertensii* var. *Volkensiana* LOES. in ENGL. Bot. Jahrb. **56** (1921) 523; KANEHIRA l. c. 292, Fl. Micr. (1933) 191, f. 79. Ponape Niinoani-zan 802, Tortom-zan 1554, Nānaraut-zan 1663. In primary forests at 600-700 m altitudes. *Distrib.* Endemic.

### Celastraceae

#### Gymnosporia WIGHT et ARNOTT

*Gymnosporia palauca* LOES. in ENGL. Bot. Jahrb. **63** (1930) 272; KANEHIRA l. c. **45** (1931) 293, Fl. Micr. (1933) 193, f. 80. Palau Korror 95, 1997, 1998, 2396, 2451. In forests on coral rocks. *Distrib.* Endemic.

*Gymnosporia Thompsonii* MERR. in Philip. Journ. Sci. **9** (1914.) Bot. 105; LOES. l. c. 272; KANEHIRA l. c. 293, Fl. Micr. 193, f. 81. *Celastrus mariannensis* KOIDZ. in Bot. Mag. Tokyo **30** (1916) 400. Saipan 930, 948, 987, 1004; Tinian 1046, 2258, 2264; Rota 1746. In damp primary forests at low altitudes. *Distrib.* The type from Guam, endemic. *Nat. name*: "lulufut" (Guam and Saipan).

### Hippocrateaceae

#### Hippocratea LINNAEUS

*Hippocratea macrantha* KORTH. var. *palauca* LOES. in ENGL. Bot. Jahrb. **63** (1930) 274. Palau Babeldaob (LEDERMANN). Yap. 1254. *Distrib.* The species in Borneo, the variety endemic. *Nat. name*: "grangl" (Palau).

**Salacia** LINNAEUS

**Salacia Naumannii** ENGL. ENGL. Bot. Jahrb. **7** (1886) 464; LOES. in K. SCHUM. et K. LAUTERB. Nachtr. Deutsch. Schutzg. Südsee (1905) 304, ENGL. *ibid* **63** (1930) 276; KANEHIRA l. c. **45** (1931) 293, Fl. Micr. (1933) 195, f. 82.

Palau: Korrör 75, 338, Marikyoku 396, Aimiyon 509; Yap 1119. In forests at low altitudes or thickets near houses. *Distrib.* New Guinea. *Nat. name*: "detimmul" (Palau). The species apparently very closely allied to *Salacia prinoides* DC.

**Salaciratea** LOESNER

**Salaciratea Kraemeri** LOES. in ENGL. Bot. Jahrb. **63** (1930) 275; KANEHIRA Fl. Micr. (1933) 196, f. 83.

The type from Korrör, Palau. Korrör 2007, 2008! *Distrib.* So far known only from Palau. *Nat. name*: "keikei."

**Stackhousiaceae****Stackhousia** SMITH

**Stackhousia intermedia** F. M. BAILEY in Queensl. Agr. Journ. **3** (1898) 281.

Palau: Marikyoku 442, Garamiscan 2106, Airai 2382. In thickets at low altitudes. *Distrib.* Amboina, Sumatra, Philippines to northeastern Australia.

*Stackhousia viminea* SEEM. collected by VOLKENS (l. c. 467) in Yap may be referred to the present species.

**Icacinaceae****Gomphandra** WALLICH

**Gomphandra carolinensis** KANEHIRA Fl. Micr. (1933) 198, f. 85, nom. seminud. et in Bot. Mag. Tokyo **47** (1933) 673.

Palau: Korrör, Tôdaiyama 1882, 1908, a coral island 2473. In primary forests. *Distrib.* Endemic.

**Lophopyxis** HOOKER

**Lophopyxis pentaptera** (K. SCHUM.) ENGL. in Stitz. Preuss. Akad.

Wiss. **18** (1893) 265; KANEHIRA l. c. **45** (1931) 293, Fl. Micr. 197, f. 84.

*Combretopsis pentaptera* K. SCHUM. in K. SCHUM. et HOLLR. Fl. Kais. Wilhelmsl. (1889) 69.

Palau: Korrer 124, Aimiyon 486, Aimiriik 315, 2348. In forests at low altitudes. *Distrib.* New Guinea. *Nat. name*: "kohtep" (Palau).

### Merrilliodendron KANEHIRA

**Merrilliodendron rotense** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 920, f. 7.

Rota 1775! In primary forests. *Distrib.* Endemic. *Nat. name*: "faniok."

### Urandra THWITES

**Urandra ammui** (SCHELLENB.) KANEHIRA in Bot. Mag. Tokyo **45** (1931) 293, Fl. Micr. (1933) 199, f. 86.

*Urandra elliptica* SCHELLENB. in ENGL. Bot. Jahrb. **59** (1924) 17, non MERR. in Philip. Journ. Sci. **5** (1910) Bot. 195.

Palau: Kamset 538, Aimiriik 1922, 1935. In mangrove swamps. *Distrib.* Endemic. *Nat. name*: "ammui" (Palau).

### Sapindaceae

#### Allophylus LINNAEUS

**Allophylus holophyllus** RADLK. in Philip. Journ. Sci. **9** (1914) Bot. 106.

Guam (MERRILL). Rota 1759, 1787, 1800. In primary forests. *Distrib.* The type from Guam, endemic.

**Allophylus laetus** RADLKF. in Sitzungsber. bayer. Akad. **38** (1908) 228; ENGL. Pflanzenr. (Sapind.) **98** (1932) 561.

The type from Saipan (FRITZ). *Distrib.* Endemic.

**Allophylus ternatus** (FORST.) RADLK. in ENGL. Prantl. Pflanzenf. **3**, 5 (1895) 313; KANEHIRA l. c. **45** (1931) 293.

*Aporetica ternata* FORST. Char. Gen. (1776) 132.

Palau: Korrer 159, 567, 2077; Ponape 634; Kusai 1326; Rota 1749. In thickets along the seashore. *Distrib.* Borneo, Philippines to tropical Australia.

**Allophyllus timorensis** (DC.) BLUME Rumphia **3** (1847) 130; VOLKENS l. c. 467; MERR. l. c. 106; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 251; KANEHIRA l. c. 294.

Palau: a coral island 215, 2405, 2474, 2751, Angaur 597; Saipan 906; Kusai 1369; Truk 1725. In thickets and forests near the sea. *Distrib.* Formosa to the Nicobar Islands through Malaya to Samoa and New Caledonia.

#### **Cardiospermum** LINNAEUS

**Cardiospermum halicacabum** LINN. Sp. Pl. (1753) 366; MERR. l. c. 107.

Guam. Saipan 1085; Tinian 1055. In thickets and waste places. *Distrib.* Pantropic. *Jap. name:* Hûsenkadura.

#### **Dodonaea** LINNAEUS

**Dodonaea viscosa** (LINN.) JACQ. Enum. Pl. Carib. (1760) 19; VOLKENS l. c. 467; MERR. l. c. 107; KANEHIRA l. c. **45** (1931) 294, Fl. Micr. 202, f. 87.

*Ptelea viscosa* LINN. Sp. Pl. (1753) 118.

Palau Marikyoku 420; Saipan 1024. *Distrib.* Pantropic. *Nat. names:* "Masikirangl" (Palau), "papakpag" (Rota). *Jap. name:* Hautiwanoki.

#### **Mischocarpus** BLUME

**Mischocarpus Guillauminii** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 672, Fl. Micr. (1933) 203, f. 88.

Truk Tol 1368. In primary forests at medium altitudes. *Distrib.* Endemic.

#### **Nephelium** LINNAEUS

**Nephelium lappaceum** LINN. Mant. **2** (1771) 566.

Ponape Kolonia 1591. Planted in the Experiment Station. *Distrib.* India to Indo-China and Malaya, cultivated for its edible fruits. *Jap. name:* Syosi. Rambutan (Malay).

#### **Palaoea** KANEHIRA

**Palaoea falcata** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 271, f. 25. Palau, Peliliu 2426, 2441!, 2427! In primary forests. *Distrib.* Endemic.

**Tristiropsis** RADLKOFER

**Tristiropsis obtusangula** RADLK. in ENGL. Pflanzenr. Heft **98** d (1932) 863; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 30.

The type from Marianne Islands (GAUDICHAUD); Rota, HOSOKAWA 7689. *Distrib.* Endemic.

**Balsaminaceae****Impatiens** RIVINIUS

**Impatiens balsamina** LINN. Sp. Pl. (1753) 938; MERR. l. c. 107.

Guam. *Distrib.* Very common in cultivation in different forms; a native of India, now cultivated in warm countries. *Jap. name:* Hōsenkwa.

**Rhamnaceae****Alphitonia** REISSEK

**Alphitonia philippinensis** BRAID in Kew Bull. (1925) 183; KANEHIRA l. c. **45** (1931) 294, Fl. Micr. (1933) 205, f. 89.

*Alphitonia excelsa* (non REIS.) LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 526.

Palau: Marikyoku 405, Aimiriik 1924; Yap 1234; In thickets and forests at low altitudes. *Distrib.* Philippines, Borneo, Indo-China and Hainan. *Nat. name:* "karabiob" (Palau).

**Colubrina** L. C. RICHARD

**Colubrina asiatica** (LINN.) BRONGN. in Ann. Sci. Nat, **1**, 10 (1827) 369; VOLKENS l. c. 467; KANEHIRA l. c. 294.

*Ceanothus asiatica* LINN. Sp. Pl. (1753) 196.

Tinian 48; Palau, a coral island 238; Ponape 860; Kusai 1389; Ponape 1688. A scandent shrub along the seashore. *Distrib.* Tropical Africa and India to Formosa, through Malaya to Australia and Polynesia.

**Smythea** SEEMANN

**Smythea pacifica** SEEM. in Bonplandia **9** (1861) 255, **10** (1862) 35, t. 9; LAUTERB. in ENGL. Bot. Jahrb. **56** (1921) 524; KANEHIRA Fl. Micr. (1933) 207, f. 89 b.

Kusai 1370; Palau 2014, 2130, 2397. A strand plant. *Distrib.* Malaya to Polynesia.

### Ventilago GAERTNER

**Ventilago Nisidai** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 273. Palau 2763! In primary forests. *Distrib.* Endemic.

### Zizyphus TOURNEFORT

**Zizyphus jujuba** (LINN.) LAM. Encycl. **3** (1789) 319; MERR. l. c. 108.

*Rhamnus jujuba* LINN. Sp. Pl. (1753) 194.

Guam. *Distrib.* Widely distributed in tropical Asia and Malaya, chiefly in cultivation. *Jap. name*: Inunatumé.

### Vitaceae

#### Columella LOUREIRO

**Columella trifolia** (LINN.) MERR. in Philip. Journ. Sci. **11** (1916) Bot. 134; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 294.

*Vitis trifolia* LINN. Sp. Pl. (1753) 293.

*Cissus trifolia* K. SCHUM. et HOLLR. Fl. Kaiser Wilhelsl. (1889) 71; VOLKENS l. c. 468; LAUTERB. in ENGL. Bot. Jahrb. **63** (1930) 277.

Palau, Korrer 87; Yap 1102. In thickets and margins of forests. *Distrib.* India to southern China through Malaya to the Moluccas.

#### Leea ROYAN

**Leea Brunoniana** C. B. CLARKE in Journ. Bot. **19** (1881) 166; LAUTERB. in ENGL. Bot. Jahrb. **63** (1930) 277; KANEHIRA l. c. **45** (1931) 295.

*Leea sambucina* (non WILLD.) VOLKENS l. c. 468.

Palau, 172, 173, 2075, 2382, 2422; Yap 1094. In thickets and forests at low altitudes. *Distrib.* Northern Australia, Timor, Malaya to Solomon Islands. *Nat. name*: "sugal" (Palau). The species is very near *L. indica* (BURM. f.) MERR. if not the same.

**Leea pallidifolia** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 354.

*Leea* sp. in KANEHIRA Fl. Micr. (1933) 208.

Palau Tôdai-yama 2026! In dense primary forests at about 150 m altitude. *Distrib.* Endemic.

**Elaeocarpaceae****Elaeocarpus** LINNAEUS

- Elaeocarpus carolinensis** KOIDZ. in Bot. Mag. Tokyo **30** (1916) 403; KANEHIRA l. c. **45** (1931) 295, Fl. Micr. (1933) 209, f. 90.  
*Elaeocarpus joga* (non MERR.) SCHLTR. in ENGL. Bot. Jahrb. **56** (1921) 563, pro parte.
- Ponape. Kolonia 650, 1474; Kusai 1313, 1349, 1432; Palau: Aimiriik 291, 1943, 2290. In forests at low altitudes. Very common throughout the two islands. *Distrib.* Endemic. *Nat. name*: "syatak" (Ponape). "nânek" (Kusai). A very large tree, 100 cm in diameter, 16 m in height, wood used for making canoes.
- Elaeocarpus joga** MERR. in Philip. Journ. Sci. **14** (1914) Bot. 106. The type from Guam. Rota 1760, 1785, Aramagen 2175, Pagan 2200. Not known from Saipan. *Distrib.* Endemic. *Nat. name*: "joga" (Guam, Rota).
- Elaeocarpus Kerstingiana** SCHLTR. in ENGL. l. c. 563; KANEHIRA l. c. 295, Fl. Micr. 211, f. 91.  
 Ponape Niinoani-zan 801, at about 300 m altitude, Tortom-zan 1556, 1561, at 450 m altitude. In primary forests at high altitudes. *Distrib.* Known from Ponape and Kusai; endemic.
- Elaeocarpus kusaiensis** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 485, Fl. Micr. 212, f. 92.  
 Kusai 1372! at Mt. Hinkoln. *Distrib.* Endemic.
- Elaeocarpus Kusanoi** KOIDZ. l. c. 232; KANEHIRA l. c. 295, Fl. Micr. 213, f. 92.  
*Elaeocarpus Gibbonii* SCHLTR. l. c. 564.  
 Ponape: Kolonia 740, 1472, Sankakuyama 745, Kity 1541; Kusai 1443. In primary forests at medium altitudes. *Distrib.* Known only from Kusai and Ponape. *Nat. names*: "marratte" or "opop" (Ponape).
- Elaeocarpus rubidus** KANEHIRA Fl. Micr. (1933) 215, f. 94 nom. seminud, et in Bot. Mag. Tokyo **47** (1933) 673.  
 Palau Todai-yama 2021! In primary forests at 70 m altitude. *Distrib.* Endemic.

**Tiliaceae****Columbia** PERSOON

**Columbia Burretii** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 669, Fl. Micr. 216, f. 95.

*Microcos scabra* SM. in Rees Cycl. **23** (1926) no. 3.

*Colona scabra* BURRET in Notizb. Bot. Berl. **9** (1926) 800.

*Columbia scabra* (SM.) KANEHIRA in Bot. Mag. Tokyo **45** (1931) 295, non Aug. DC. in Bull. Herb. Boiss. sér. 2, iii 368.

Palau: Armatin 476, Ogiwal 2061, New Gaspan 2124. In forests along the seashore. *Distrib.* Celebes, Amboina, Arue Islands. *Nat. name*: "uab" (Palau).

**Corchorus** LINNAEUS

**Corchorus acutangulus** LAM. Encycl. **2** (1786) 104; VOLKENS l. c. 488; MERR. l. c. 109.

Guam. *Distrib.* Pantropic, but probably a native of tropical Asia.

*Jap. name*: Togariba-tunaso.

**Corchorus tinianensis** HOSOKAWA in Trans. Nat. Hist. Formos. **25** (1935) 125.

Tinian HOSOKAWA 7735. *Distrib.* Endemic.

**Grewia** LINNAEUS

**Grewia mariannensis** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 109; KANEHIRA l. c. 296, Fl. Micr. (1933) 218, f. 96.

Saipan 20, 22, 972; Rota 1763; Saligan 2155. In secondary forests at low and medium altitudes. *Distrib.* The type from Guam, endemic. *Nat. names*: "angêlo" (Saipan), "agilau" (Rota).

**Grewia multiflora** JUSS. in Ann. Mus. Hist. Nat. Paris **4** (1804) 89, t. 47 f. 1; MERR. l. c. 110.

Guam\*. *Distrib.* Malaya to New Guinea.

**Trichospermum** BLUME

**Trichospermum Ikutai** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 486, Fl. Micr. 219, f. 97.

*Trichospermum Richii* (non SEEM.) VOLKENS l. c. 467.

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\* "Admitted on the authority of SAFFORD, but his specimen should be compared with the preceding species" (MERRILL l. c.)

The type from Yap, 1113! 1264! In thickets and secondary forests.

*Distrib.* Endemic. *Nat. name*: "wopf" (Yap).

**Trichospermum Ledermannii** BURRET in Notizb. Bot Gart. **9**

(1926) 850; KANEHIRA l. c. **45** (1931) 296, Fl. Micr. 221, f. 98.

Palau: Marikyoku 410, Aimiriik 272, a coral island 234, Tōdai-yama 1862. In secondary forests at low altitudes. *Distrib.* Known

only from Palau. *Nat. name*: "orayurukarasusu" (Palau).

### **Triumfetta** LINNAEUS

**Triumfetta procumbens** FORST. f. Prodr. (1786) 35; HEMSL. in

Journ. Bot. **28** (1890) 1, t. 293, f. 2; MERR. l. c. 110; KOIDZ.

in Bot. Mag. Tokyo **29** (1915) 251; KANEHIRA l. c. 296.

Palau Angaur 572; Saipan 1032. On sandy seashores. *Distrib.*

Sechelles through Malaya to the Philippines and Polynesia.

**Triumfetta semitriloba** JACQ. Enum. Pl. Carib. (1760) 22; MERR.

l. c. 110.

Guam. *Distrib.* A native of tropical America, now pantropic. *Jap.*

*name*: Karapin-senso.

## **Malvaceae**

### **Abelmoschus** MEDICUS

**Abelmoschus esculentus** (LINN.) MOENCH. Meth. (1794) 617; MERR.

l. c. 111.

*Hibiscus esculentus* LINN. Sp. Pl. (1753) 696.

Guam. *Distrib.* A native of tropical America, now pantropic in

cultivation. The okra.

**Abelmoschus moschatus** (LINN.) MEDIC. Malv. (1787) 46; MERR.

l. c. 111.

*Hibiscus moschatus* LINN. Sp. Pl. (1753) 696; VOLKENS l. c. 468.

Truk Fefan 1726. In waste land. *Distrib.* Pantropic.

### **Abutilon** TOURNEFORT

**Abutilon indicum** (LINN.) SWEET, Hort. Brit. (1826) 54; VOLKENS

l. c. 468; MERR. l. c. 111.

*Sida indica* LINN. Cent. Pl. **2** (1756) 26.

Guam, Yap. *Distrib.* Pantropic, probably a native of tropical Asia.

**Gossypium** LINNAEUS

**Gossypium brasiliense** MACF. Fl. Jam. **1** (1837) 72; MERR. l. c. 111. Saipan 971; Ponape Kolonia 1677. Planted about houses. *Distrib.* A native of tropical America, now pantropic. Kidney cotton.

**Hibiscus** LINNAEUS

**Hibiscus mutabilis** LINN. Sp. Pl. (1753) 694; MERR. l. c. 111. Guam. *Distrib.* Pantropic, a native of tropical Asia. *Jap. name:* Huyô.

**Hibiscus rosa-sinensis** LINN. Sp. Pl. (1753) 694; VOLKENS l. c. 468; MERR. l. c. 112. Ponape, Kolonia 1587. Planted. *Distrib.* A native of the Old World, now pantropic in<sup>e</sup>cultivation. *Jap. name:* Husso-kwa.

**Hibiscus tiliaceus** LINN. Sp. Pl. (1753) 694; VOLKENS l. c. 468; MERR. l. c. 112; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 252; KANEHIRA l. c. 327, Fl. Micr. 222, f. 99. Palau, Korrer 456; Truk 625; Saipan 945; Kusai 1415. In forests along the seashore. *Distrib.* Pantropic along the seashore. *Nat. name:* "karamal" (Palau), "karao" (Ponape), "silfa" (Truk), "gaal" (Yap), "pagao" (bark "boxi") (Saipan), "lo" (Kusai). *Jap. name:* Oohamabô.

**Malachra** LINNAEUS

**Malachra capitata** LINN. Syst. ed. 12 (1767) 458; MERR. l. c. 112. Guam. *Distrib.* Pantropic, a native of tropical America. A common weed in open waste places.

**Malachra fasciata** JACQ. Coll. **2** (1767) 458; MERR. l. c. 112. Guam. *Distrib.* A native of tropical America. A common weed in open waste places.

**Malvastrum** A. GRAY

**Malvastrum coromandelinum** (LINN.) GARCKE in Bonplandia **5** (1857) 297.

*Malva coromandelina* LINN. Sp. Pl. (1753) 687. Saipan 18, 908. *Distrib.* Pantropic, probably of American origin. A common weed. *Jap. name:* Enoki-aoi.

**Sida** LINNAEUS

**Sida acuta** BURM. f. Fl. Ind. (1768) 147; VOLKENS l. c. 468; MERR. l. c. 112.

Palau, Angaur 585; Truk 608; Saipan 955; Rota 1796. In open waste places. *Distrib.* Pantropic. *Jap. name:* Hosoba-kinkozikwa.

**Sida rhombifolia** LINN. Sp. Pl. (1753) 684; VOLKENS l. c. 468; MERR. l. c. 112.

Ponape 1558; Kusai 1427; Saipan 17. A common weed. *Distrib.* Pantropic. *Jap. name:* Kinkozikwa.

**Thespesia** SOLANDER

**Thespesia populnea** (LINN.) SOLAND. ex CORR. in Ann. Mus. Paris **9** (1807) 290; VOLKENS l. c. 468; MERR. l. c. 112; KANEHIRA l. c. 327, Fl. Micr. 224, f. 100.

*Hibiscus populneus* LINN. Sp. Pl. (1753) 694.

Tinian 58; Truk 617; Ponape Kolonia 856; Saipan 1019; Saligan 2157. In thickets along the seashore. *Distrib.* Pantropic. *Jap. names:* "pengegen" (Ponape), "banael" (Saipan), "pakeena" (Kusai). *Jap. name:* Sima-aoi.

**Urena** LINNAEUS

**Urena lobata** LINN. Sp. Pl. (1753) 692; VOLKENS l. c. 468.

Palau: Korrör 183, Babeldaob 455; Ponape Kolonia 697, 1672; Saipan 950; Yap 1156. In thickets, open waste places etc. *Distrib.* Pantropic. *Jap. name:* Oobondenkwa.

**Bombaceae****Ceiba** MEDICUS

**Ceiba pentandra** (LINN.) GAERTN. Fruct. **2** (1791) 244, t. 133; VOLKENS l. c. 468; KANEHIRA l. c. 327.

*Bombax pentandrum* LINN. Sp. Pl. (1753) 511.

*Eriodendron anfractuosum* DC. Prodr. **1** (1824) 479.

Ponape, Kolonia 871. Planted. *Distrib.* Pantropic, probably a native of tropical America.

**Durio** ADANSON

**Durio zibethianus** MURR. Syst. (1774) 591.

Ponape Kolonia, Botanical Garden 1592. Planted. *Distrib.* Malaya, mostly in cultivation.

### Sterculiaceae

#### Abroma JACQUIN

**Abroma augusta** (LINN.) LINN. f. Suppl. (1781) 341; KANEHIRA l. c. 328.

*Theobroma augusta* LINN. Syst. ed. 12 (1767) 233.

*Abroma mollis* DC. Prodr. 1 (1824) 485; VOLKENS l. c. 469.

Palau Marikyoku 382. In thickets and waste places at low altitudes. *Distrib.* India to southern China and Malaya.

#### Commersonia FORSTER

**Commersonia bartramia** (LINN.) MERR. Interpret. Herb. Amb. (1917) 362; KANEHIRA l. c. 328, Fl. Micr. 226, f. 101.

*Muntingia bartramia* LINN. Amoen. Acad. 4 (1759) 124.

*Commersonia echinata* FORST. Char. Gen. (1776) 44, t. 22; VOLKENS l. c. 468.

Palau, Korror 191; Ponape Kolonia 651; Yap 1116; Kusai 1347; Ponape 1494; Truk 1710. In thickets and secondary forests at low altitudes. *Distrib.* Indo-China and the Malaya Peninsula through Malaya to Polynesia. *Nat. names:* "acarido" (Ponape), "gagu" (Yap), "oun" (Truk), "melfo" (Kusai), "asbeeta" (Palau).

#### Helicteres PLUKENET

**Helicteres angustifolia** LINN. Sp. Pl. (1753) 963; VOLKENS l. c. 468; KANEHIRA l. c. 328.

Yap 1219. Along the road. *Distrib.* India to southern China southward to the Philippines, Borneo, Malay Peninsula and Java.

#### Heritiera DRYANDER

**Heritiera littoralis** DRYAND. in AIT. Hort. Kew. 3 (1789) 546; VOLKENS l. c. 469; MERR. l. c. 113; KANEHIRA l. c. 328, Fl. Micr. 228, f. 102.

Palau, Marikyoku 389; Truk 612; Ponape 766; Saipan 1086, 1729, 2244; Yap 1217; Kusai 1319. In forests along the seashore. *Distrib.* India to tropical Africa through Malaya to Polynesia. *Nat. names:* "akabibukk" (Palau), "marapinset" (Ponape),

“rum” (Yap), “zwobott” (Truk), “lum” (Kusai). *Jap. name*: Sakisima-swôgi.

**Heritiera longipetiolata** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 487, Fl. Micr. (1933) 229, f. 103.

Tinian 1060, 1060 B, 1730, 2274. In primary forests at about 100 m. altitude. *Distrib.* Endemic. *Nat. name*: “ufa”, (Tinian, Saipan).

#### **Kleinhovia** LINNAEUS

**Kleinhovia hospitata** LINN. Sp. Pl. ed. 2 (1763) 1365.

Truk Tol 1276; Kusai Moto 1425; Ponape Owa 1698. In thickets and secondary forests. *Distrib.* India to tropical Africa, Malaya and Formosa. *Jap. name*: Hûsen-akamegasiwa.

#### **Melochia** DILLENUS

**Melochia concatenata** LINN. Sp. Pl. (1753) 675.

Ponape 876. A weed in waste places. *Distrib.* Pantropic. *Jap. name*: Nodi-aoi.

**Melochia Lessoniana** K. SCHUM. apud VOLKENS l. c. 468.

Yap 1121. In thickets and forests, sometimes planted for ornaments. *Distrib.*

**Melochia odorata** LINN. f. Suppl. (1781) 302; MERR. l. c. 113; KANEHIRA l. c. 328.

Guam (MERRILL); Palau, Korror 175; Ponape Metaranium 855; Kusai 1343. In thickets and secondary forests. The type from the Island of Tanna, near New Caledonia. *Distrib.* New Caledonia to Polynesia.

**Melochia villosissima** (PRESL) MERR. in Philip. Journ. Sci. **15** (1919) Bot. 543.

*Riedleia villosissima* PRESL, Rel. Haenk. **2** (1835) Bot. 146.

*Melochia hirsutissima* MERR. l. c. **9** (1914) Bot. 113.

The type from Guam. *Distrib.* Known only from Guam.

#### **Sterculia** LINNAEUS

**Sterculia palauensis** KANEHIRA Fl. Micr. (1933) 230, f. 104; KANEHIRA in Bot. Mag. Tokyo **47** (1933) 674.

Palau: Tôdai-yama 1859! 1875, Pelilieu 2418, 2424. The type in primary forests at about 100 m altitude. *Distrib.* Endemic.

**Sterculia** sp.

Ponape Nânaraut-zan 1620. At about 450 m alt. In primary forests.  
A sterile specimen.

**Theobroma** LINNAEUS

**Theobroma cacao** LINN. Sp. Pl. (1753) 782; KANEHIRA l. c. 329.

Yap 1199. The tree is also planted in Saipan, Ponape etc. *Distrib.*  
A native of tropical America, now cultivated in most tropical  
countries. Cacao.

**Waltheria** LINNAEUS

**Waltheria americana** LINN. Sp. Pl. (1753) 673; MERR. l. c. 114.

Guam. *Distrib.* A native of tropical America, now in all tropical  
countries. *Jap. name*: Ko-banbanoki.

**Theaceae****Eurya** THUNBERG\*

**Eurya japonica** THUNB. Fl. Jap. (1784) 191, t. 25; VOLKENS l. c.  
469; DIELS in ENGL. l. c. 56 (1921) 526; KANEHIRA l. c. 329.

Palau 149, 197, 1954; Yap 1195; Ponape 640, 804, 702, 1514; Ara-  
magan 2190. In thickets and secondary forests, sometimes  
margins of primary forests from low to medium altitudes.  
*Distrib.* India to Japan through Malaya to Polynesia. *Jap.*  
*name*: Hisakaki.

**Eurya japonica** THUNB. var. **nitida** KORTH. in Verhand. Nat. Gesch.

Bot. (1839-42) 118, t. 17, f.3; DIELS l. c. 526; KANEHIRA l. c. 329.  
Palau 2071! In thickets and waste places at low altitudes. *Distrib.*  
India to China, Japan and Malaya.

**Guttiferae****Calophyllum** LINNAEUS

**Calophyllum cholobtaches** LAUTERB. in ENGL. Bot. Jahrb. 59 (1925)  
20; KANEHIRA l. c. 329. Fl. Micr. 233, f. 105.

\* T. HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 30-32, proposed three  
new species of *Eurya* from Micronesia, namely *Eurya ladronica* HOSOKAWA from  
Aramagan, *Eurya palauensis* HOSOKAWA from Palau and *Eurya ponapensis* HOSOKAWA  
from Ponape. In comparing a large series of specimens which I collected in these  
regions I note no striking differential characters, and hence merely mention the  
proposed new species pending a more intensive study of the entire group.

Palau Babeldaob 386, Aimiriik 1984, Airai 2380. In primary forests at low altitudes. *Distrib.* Endemic. *Nat. name:* "kasimorok" (Palau).

**Calophyllum Inophyllum** LINN. Sp. Pl. (1753) 329; VOLKENS l. c. 469; LAUTERB. l. c. 19; KANEHIRA l. c. 329, Fl. Micr. 234, f. 106.

Yap 71; Palau 557; Saipan 1081, 2248; Truk 1282. In forests along the seashore. *Distrib.* India and Malaya to tropical Africa. *Nat. names:* "aptakas" (Palau), "biotu" (Yap), "darwukk" (Saipan); "daok" (Rota), "legitu" (Truk), "isyô" (Ponape), "eet" (Kusai). *Jap. name:* Yarobo.

**Calophyllum Wakamatsui** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 401.

Palau Aimiriik 2326, 2343! 2767; ? Saipan 2247. In primary forests at about 200 m altitude. *Distrib.* Endemic.

### **Garcinia** LINNAEUS

**Garcinia mangostana** LINN. Sp. Pl. (1753) 635.

Ponape: Kolonia Botanical Garden 1589. Planted for edible fruits. *Distrib.* A native of Malaya. The mangosteen.

**Garcinia Matudai** KANEHIRA Fl. Micr. 235, f. 107, nom. seminud. et in Bot. Mag. Tokyo **47** (1933) 675.

The type from Babeldaob Palau. In primary forests at about 100 m altitude. Palau 408, 1966! 2105 2041, 2286. *Distrib.* Endemic.

**Garcinia ponapensis** LAUTERB. in ENGL. Bot. Jahrb. **59** (1924) 20; KANEHIRA l. c. 329, Fl. Micr. 237, f. 108.

Ponape: Kolonia 637, 653, 1479, Parkier 1495, Nânaraut-zan 1664. In primary forests from low to high altitudes. *Distrib.* Endemic. *Nat. name:* "nigenpiri" (Ponape).

**Garcinia rumiyo** KANEHIRA in Bot. Mag. Tokyo **45** (1931) 329, Fl. Micr. 238, f. 109.

Yap 1107, 1153! 1229; Palau 350, 1890, 2429. In primary forests at low altitudes. *Distrib.* Endemic. *Nat. name:* "rumiyo" (Yap).

**Garcinia trukensis** KANEHIRA l. c. **46** (1932) 488, Fl. Micr. 239, f. 110.

The type from Tol, Truk 1269! In dense primary forests at the top of the island. *Distrib.* Endemic.

### **Ochrocarpus** THOUARS

**Ochrocarpus excelsus** (ZOLL. et MORITZI) VESQUE in DC. Monog. Phan. **8** (1893) 525; MERR. l. c. 115; LAUTERB. in ENGL. l. c. **59** (1924) 19; KANEHIRA l. c. 330, Fl. Micr. 240, f. 111.

*Calophyllum excelsum* ZOLL. et MORITZI Nat. Geneesk. Arch. Néerl. Ind. **2** (1845) 582.

*Ochrocarpus obovatus* SAFFORD in Contrb. U. S. Nat. Herb. **9** (1905) 335, t. 59.

Tinian 1062; 1066, 2278; Truk Udot 1281; Kusai 1461; Ponape 1533. In damp primary forests at low altitudes, also in thickets along the seashore. *Distrib.* Java, Christmas Islands and Borneo to New Guinea, Fiji and the Admiralty Islands. *Nat. names:* "chopak" (Saipan), "ogoldveesak" (Palau), "lues" (Kusai), "luas" (Ponape), "oyag" (Truk).

### **Pentaphalangium** WARBURG

**Pentaphalangium carolinense** LAUTERB. in ENGL. Bot. Jahrb. **59** (1924) 21, f. A-G; KANEHIRA Fl. Micr. (1933) 241, f. 112.

Truk, Moen 1704, 1706, Fefan 1727. In primary forests at medium altitudes. *Distrib.* Known only from Truk. *Nat. name:* "mâren" (Truk).

**Pentaphalangium Volkensii** LAUTERB. l. c. 22, f. 1, H-L; KANEHIRA l. c. 330, Fl. Micr. 242, f. 113.

Yap 1173, 1174, 1238. In thickets and ravines at low altitudes. *Distrib.* Endemic.

## **Bixaceae**

### **Bixa** LINNAEUS

**Bixa Orellana** LINN. Sp. Pl. (1753) 512; MERR. l. c. 115.

Ponape, Kolonia 1683. Planted in the Experiment Station. *Distrib.* A native of tropical America, now found in all tropical countries. Annatto.

**Violaceae****Rinorea** AUBLET

**Rinorea carolinensis** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 921. f. 8.

Palau, Korrör, a coral island 1896, 2782! In primary forests. *Distrib.* Endemic.

**Flacourtiaceae****Casearia** JACQUIN

**Casearia cauliflora** VOLKENS in ENGL. Bot. Jahrb. **31** (1901) 469; KANEHIRA l. c. 330, Fl. Micr. (1933) 244, f. 114.

Palau: Korrör 362, a coral island 2006, 2467, Aimiriik 2302, 2310, Garamiscan 2110. Marikyoku 434, Aimiyon 512. In thickets and forests along the seashore. *Distrib.* Endemic. The type from Yap.

**Flacourtia** L'HERTIER

**Flacourtia inermis** ROXB. Fl. Ind. ed. 2, **3** (1932) 833; KANEHIRA l. c. 331.

Palau Aimiriik 288. *Distrib.* Moluccas.

**Flacourtia rukam** ZOLL. et MORITZI Syst. Verz. (1854) 32; KANEHIRA l. c. 331.

Palau: Korrör 343, a coral island 352, 1910, 2018, 2454, Peliliu 2432; Truk Tol 1294; Ponape Kity 1542. In forests from low to medium altitudes. *Distrib.* Malay Peninsula and Archipelago.

**Hydnocarpus** GAERTNER

**Hydnocarpus anthelmintica** PIERRE ex LANESS. Pl. Colon. Franç. (1886) 303.

Ponape Kolonia 1585. Planted in the Experiment Station, Kolonia. *Distrib.* Cochinchina. Fruits used for curing leprosy.

**Pangium** REINWARDT

**Pangium edule** REINW. ex BL. Cat. Gew. Buitenz. (1823) 112; VOLKENS l. c. 469; KANEHIRA l. c. 331, Fl. Micr. (1933) 246, f. 115.

Palau Korrör 163; Ponape Kolonia 709, 1623. In primary forests

near houses. *Distrib.* Malay Peninsula and Archipelago. *Nat. names:* "ariaml" (Palau), "drian" (Ponape). The fruits are eaten by the natives.

### **Xylosma** FORSTER f.

**Xylosma Nelsonii** MERR. in Philip. Journ. Sci. **15** (1919) Bot. 543;  
HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 33.  
*Flacourtia integrifolia* MERR. in Philip. Journ. Sci. **9** (1914) Bot.  
115, non *Xylosma integrifolium* CLOS.  
The type from Guam; Rota, HOSOKAWA 7677. *Distrib.* Endemic.

### **Passifloraceae**

#### **Passiflora** LINNAEUS

**Passiflora foetida** LINN. Sp. Pl. (1753) 959.  
Ponape Kolonia 631; Saipan 958. Very common in thickets and  
waste places. *Distrib.* Introduced from tropical America, now  
pantropic.

### **Caricaceae**

#### **Carica** LINNAEUS

**Carica Papaya** LINN. Sp. Pl. (1753) 1036; KANEHIRA l. c. 331.  
Throughout the islands in cultivation and semicultivation. *Distrib.*  
Introduced from tropical America, now pantropic. Papaya.

### **Thymelaeaceae**

#### **Phaleria** JACK

**Phaleria Nisidai** KANEHIRA Fl. Micr. 248, f. 116 nom. seminud.,  
et in Bot. Mag. Tokyo **47** (1933) 675.  
*Phaleria Cumingii* (MEISN.) (non. F.-VILL.) KANEHIRA l. c. 331.  
The type from Palau 2128! Palau 388, 412, 521, 1879, 2297, 2445.  
In primary forests. *Distrib.* Endemic. *Nat. name:* "ongael"  
(Palau).

### **Wikstroemia** ENDLICHER

**Wikstroemia elliptica** MERR. in Philip. Journ. Sci. **9** (1914) Bot.  
116; KANEHIRA l. c. **45** (1931) 331.  
Palau 193, 335, 411, 2050, 2465, 2774; Saipan 2254; Rota 1747. In

thickets and forests. *Distrib.* The type from Guam. *Nat. name*: "tobudol" or "rao" (Palau). The bark very fibrous, and used for making paper.

### Lythraceae

#### Lagerstroemia LINNAEUS

**Lagerstroemia indica** LINN. Syst. ed. 10 (1759) 1076; MERR. l. c. 117.

Guam. *Distrib.* A native of tropical Asia, now cultivated in all warm countries. *Jap. name*: Sarusuberi.

#### Lawsonia LINNAEUS

**Lawsonia inermis** LINN. Sp. Pl. (1753) 349; MERR. l. c. 117.

Guam; Aramagan 2191. *Distrib.* A native of Africa or India, now cultivated in all warm countries. Henna. *Jap. name*: Sikôkwa.

#### Pemphis FORSTER

**Pemphis acidula** FORST. Char. Gen. (1776) 68, t. 34; KANEHIRA l. c. 331.

Tinian 60, Palau Korrer 98; Ponape Metaranium 859; Saipan 1015. In forests along the seashore. *Distrib.* Tropical East Africa and tropical Asia to tropical Australia. *Nat. name*: "nigasi" (Saipan), "kasugel" (Kusai). *Jap. name*: Midu-gampi.

### Sonneratiaceae

#### Sonneratia LINNAEUS f.

**Sonneratia caseolaris** (LINN.) ENGL. in ENGL. & PRANTL Nat. Pflanzenf. Nachtr. 1 (1897) 261; KANEHIRA Fl. Micr. (1933) 251, f. 117.

*Rhizophora caseolaris* LINN. in Stickm Herb. Amb. (1754) 13.

**Sonneratia acida** (non LINN. f.) VOLKENS l. c. 470; KANEHIRA l. c. 54 (1931) 332.

Yap 74, 1240, 1240; Palau: Korrer 107, Arumonogui 2119. A mangrove tree. *Distrib.* India through Malaya to the Molucas. *Nat. names*: "abruk" (Yap), "kwat" (Ponape), "abrul" (Palau), "sales" or "salas" (Truk).

### Punicaceae

#### Punica LINNAEUS

- Punica Granatum** LINN. Sp. Pl. (1753) 472; VOLKENS l. c. 470; MERR. l. c. 118.  
Guam; Yap; Saipan 2217. *Distrib.* A native of southeastern Asia, now introduced in all tropical countries. Pomegranate. *Jap. name*: Zakuro.

### Lecythidaceae

#### Barringtonia FORSTER

- Barringtonia asiatica** (LINN.) KURZ in Journ. As. Soc. Beng. **44**, 2 (1876) 131; KANEHIRA l. c. **45** (1931) 332.  
*Mammeaea asiatica* LINN. Sp. Pl. (1753) 512.  
*Barringtonia speciosa* FORST. Char. Gen. (1776) 76, t. 38, f. A-C; DC. Prodr. **3** (1828) 288.  
Angaur 595; Saipan 1014; Kusai 1414. A strand plant; along the seashore throughout the islands. *Distrib.* Tropical Asia to Polynesia. *Nat. names*: "kun" (Truk), "puutin" (Saipan), "azan" (Truk), "poasi-poasi" (Kusai). *Jap. name*: Gobannoasi.  
**Barringtonia racemosa** (LINN.) BL. ex DC. Prodr. **3** (1828) 286; VOLKENS l. c. 470; LAUTERB. l. c. **56** (1921) 527; KANEHIRA l. c. 332.  
*Eugenia racemosa* LINN. Sp. Pl. (1753) 471.  
Palau: Korrer 167, 2076, Marikyoku 441, Aimiriik 2292, 2357; Ponape: Kolonia 696, Niinoani-zan 842; Yap 1138; Kusai 1305. In thickets along the seashore sometimes in forests at medium altitudes. *Distrib.* India to Formosa and Malaya. *Nat. names*: "waso" (Yap), "we" (Ponape), "son" (Truk), "kaengal" (Kusai). "goragas" (Palau). *Jap. name*: Sagaribana.

### Rhizophoraceae

#### Bruguiera LAMARCK

- Bruguiera conjugata** (LINN.) MERR. in Philip. Journ. Sci. **9** (1914) Bot. 118; KANEHIRA l. c. **45** (1931) 332, Fl. Micr. (1934) 253, f. 118.  
*Rhizophora conjugata* LINN. Sp. Pl. (1753) 443, non aliorum.  
*Bruguiera gymnorrhiza* LAM. Ill. **2** (1797) t. 397, Encycl. **4** (1798) 696; VOLKENS l. c. 470.  
Yap 73; Palau: Koror 242, Garamiscan 559. In mangrove swamps.

*Distrib.* Tropical Asia and Africa through Malaya to tropical Australia. *Nat. name:* "rokk" (Yap), "lôm" (Ponape), "on" (Truk), "kadeges" or "adeges" (Palau), "alol" (Kusai). *Jap. name:* Benigaku-hirugi.

#### **Ceriops** ARNOTT

**Ceriops Roxburghiana** ARN. in Ann. Nat. Hist. **1** (1839) 363; KANEHIRA l. c. **45** (1931) 332, Fl. Micr. (1933) 255, f. 119.

*Ceriops Candolleana* (non ARN.) VOLKENS l. c. 470.

Palau: Aimiriik 317, 2117; Yap (VOLKENS). In magrove swamps.

*Distrib.* India to Malaya. *Nat. name:* "biut" (Palau). *Jap. name:* Kohirugi.

#### **Gynotroches** BLUME

**Gynotroches axillaris** BL. Mus. Bot. Lugd.-Bat. **1** (1849) 127, t. 31; KANEHIRA l. c. 333, Fl. Micr. 256, f. 120.

Ponape: Niinoani-zan 832, Kolonia 1481, Nānaraut-zan 1601, 1602, 1632. In primary forests from low to higher altitudes. *Distrib.* Malay Peninsula, Philippines, Sumatra, Java and Borneo. *Nat. name:* "pef" (Ponape).

#### **Rhizophora** LINNAEUS

**Rhizophora apiculata** BL. Enum. Pl. Jav. **1** (1827) 91, KANEHIRA Fl. Micr. (1933) 357, f. 121.

*Rhizophora Candelaria* DC. Prodr. **3** (1828) 32; KANEHIRA l. c. 333.

*Rhizophora conjugata* DC. Prodr. **3** (1828) 33; VOLKENS l. c. 470.

Palau: Aimiriik 319, Garamiscan 548; Ponape 772; Yap 1248. In mangrove swamps. *Distrib.* Tropical shores of the Old World. *Nat. names:* "apgal" (Palau), "aak" (Ponape). *Jap. name:* Hutabana-hirugi.

**Rhizophora mucronata** LAM. Encycl. **6** (1804) 189; DC. Prodr. **3** (1828) 32; VOLKENS l. c. 470; KANEHIRA l. c. 333, Fl. Micr. 257, f. 122.

Palau: Garamiscan 547, 929, Ogiwal 2062; Ponape 772; Yap 1248. In mangrove swamps. *Distrib.* Tropical shores of the Old World. *Nat. names:* "aak" (Ponape), "tia" (Truk). *Jap. name:* Ooba-hirugi.

#### **Combretaceae**

#### **Combretum** LINNAEUS

**Combretum tetralophum** C. B. CLARKE in HOOK. f. Fl. Brit. Ind. **2** (1878) 454; KANEHIRA, Fl. Micr. (1933) 260, f. 123.  
Palau Marikyoku 2046. In strand forests. *Distrib.* Borneo, Siam. to Malacca.

#### Lumnitzera WILLDENOW

**Lumnitzera littorea** (JACK) VOIGT, Hort. Suburb. Calcut. (1845) 39; KANEHIRA l. c. **45** (1931) 333, Fl. Micr. (1933) 261, f. 124.  
*Pyrranthus littoreus* JACK in Malay Miscel. **2**, 7 (1822) 57.  
**Lumnitzera purpurea** PRESL, Repert. **1** (1834) 155; VOLKENS l. c. 471.  
Palau: Korrör 160, Pelilieu 2438, Aimiriik 316; Yap 1203. In mangrove swamps. *Distrib.* India through Malaya to Australia and Polynesia. *Nat. name*: "e" (Yap), "ci" (Kusai). *Jap. name*: Benibana-hirugi.

#### Terminalia LINNAEUS

**Terminalia carolinensis** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 672, Fl. Micr. 262, f. 125.  
Kusai 1312, 1364, 1406; Ponape Kolonia 1536, Metaranium 1696, Kity 1570. Very common in primary forests at low altitudes in Kusai island and also found in wet jungles at low altitudes in Ponape. *Distrib.* Endemic. *Nat. names*: "Kâ" (Kusai), "Keima" (Ponape).  
**Terminalia Catappa** LINN. Mant. **1** (1767) 128; VOLKENS l. c. 471; KANEHIRA l. c. 333.  
Palau: Korrör 169, 179, 2017; Saipan 901; Tinian 1064; Ponape Kolonia 1568; Rota 1802. In forests along the seashore. *Distrib.* Old World Tropics. *Nat. names*: "talisaï" (Saipan and Rota), "ker" (Yap), "sarf" (Kusai). *Jap. name*: Tamana.  
**Terminalia Saffordii** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 119. HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 33.  
The type from Guam. Rota HOSOKAWA 7590. *Distrib.* Endemic.

#### Myrtaceae

##### Bertholletia HUMBOLDT et BONPLAND

**Bertholletia excelsa** HUMB. et BONPL. Aequin. **1** (1808) 122, t. 36.  
Ponape Kolonia 1593. Planted in the Experiment Station, Kolonia.  
*Distrib.* Brazil. Brazil nut.

**Decaspermum FORSTER**

**Decaspermum fruticosum** FORST. Char. Gen. (1776) 74, t. 37;  
KANEHIRA l. c. **45** (1931) 333.

*Decaspermum paniculatum* KURZ in Journ. As. Soc. Beng. **64**, 2  
(1877) 61; VOLKENS l. c. 470; Diels in ENGL. Bot. Jahrb. **56**  
(1921) 530.

Palau: Korrer 123, 148, Armain 474, Aimiriik 1937; Yap 1110. In  
thickets and secondary forests. *Distrib.* India and China  
through Malaya to tropical Australia. *Nat. name*: "kerdak"  
(Palau). *Jap. name*: Moti-adeku.

**Decaspermum Raymundi** DIELS l. c. **56** (1921) 530; KANEHIRA l. c.  
334, Fl. Micr. 266, f. 127.

Palau: Aimiriik 1961, 2282, Garamiscan 2096, Korrer 2079, Mari-  
kyoku 402, 2042. In thickets and primary forests. *Distrib.*  
The type from Palau. *Distrib.* Endemic. *Nat. name*: "caltaccoo"  
(Palau).

**Eugenia MICHELI**

**Eugenia aquea** BURM. f. Fl. Ind. (1768) 114; MERR. Interpret Herb.  
Amb. (1917) 393.

*Jambosa aquea* RUMPH. Herb. Amb. (1741) 126, t. 38, f. 2; DIELS  
in ENGL. l. c. **56** (1921) 532.

Palau Babeldaob (LEDERMANN), Korrer (RAYMUND). Planted. *Distrib.*  
Widely distributed in Malaya.

**Eugenia carolinensis** KOIDZ. in Bot. Mag. Tokyo **30** (1916) 402;  
KANEHIRA l. c. 334, Fl. Micr. 267, f. 128.

*Syzygium ponapense* DIELS in ENGL. l. c. **56** (1921) 533.

Ponape Kolonia 633, 657, 711, 1473. In primary forests at low  
altitudes. *Distrib.* The type from Ponape, endemic. *Nat. name*:  
"kchnpapp" (Ponape).

**Eugenia cumini** (LINN.) DRUCE Bot. Exch. Club (1914) 418; MERR.  
Interpret. Herb. Amb. (1917) 394, Sp. Blancoanae (1918) 288;  
KANEHIRA l. c. 335.

*Myrtus cumini* LINN. Sp. Pl. (1753) 471.

*Eugenia jambolana* LAM. Encycl. **3** (1789) 198; MERR. Fl. Manila  
(1912) 352.

Palau: Armatin 472, Marikyoku 404, a coral island 2456, Aimiriik

1916, 2750. Spontaneously found in thickets and forests at low altitudes. *Distrib.* Indo-Malayan generally, introduced in other countries. *Nat. names:* "mesigerak" (Palau).

**Eugenia jambos** LINN. Sp. Pl. (1753) 470.

*Jambos vulgaris* DC. Prodr. **3** (1828) 286; DIELS l. c. 532.

Ponape Jokazi (GIBBON). *Distrib.* Indo-Malayan generally; cultivated in other tropical countries.

**Eugenia javanica** LAM. Encycl. **3** (1789) 200; MERR. l. c. 120; KANEHIRA l. c. 334.

Palau: Korrer 164, 2073, Airai 2385, a coral island 2459; Yap 1133.

*Distrib.* A native of Malaya, now cultivated in all tropical countries. *Nat. name:* "arbottle" (Palau). *Jap. name:* Renmu.

**Eugenia malaccensis** DC. Prodr. **3** (1828) 286; VOLKENS l. c. 470; DIELS l. c. 532.

Ponape Kolonia 693. Planted along roads. *Distrib.* Indo-Malaya, now planted in most tropical countries. *Nat. Name:* "apel" (Ponape).

**Eugenia palauensis** KANEHIRA in Bot. Mag. Tokyo **45** (1931) 335, Fl. Micr. 279, f. 129.

Palau, Korrer, a coral island 351! 1895, 2470. In primary forests. *Distrib.* Endemic.

**Eugenia palumbis** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 122; KANEHIRA l. c. 334, Fl. Micr. 271, f. 130.

*Jossinia palumbis* DIELS l. c. 531.

Saipan 9, 885, 2222; Tinian 57, 1068; Rota 1782. In thickets and forests from low to medium altitudes. The type from Guam.

*Distrib.* Endemic. *Nat. name:* "agatehlan" (Saipan).

**Eugenia Reinwardtiana** DC. Prodr. **3** (1828) 267; KANEHIRA l. c. **45** (1931) 334, Fl. Micr. 271, f. 131.

*Jossinia Reinwardtiana* BL. Mus. Lugd.-Bat. **1** (1849) 120; DIELS l. c. 531.

*Eugenia Costenoblei* MERR. l. c. 123.

Palau Korrer 77, a coral island 366, 1912, 1999, 2393; Yap 1178, 1226; Truk Tol 1280.

In thickets along the seashore. *Distrib.* Moluccas. *Nat. names:* "agaseel" (Palau), "alfanispan" (forest apple) (Yap).

**Eugenia stelechantha** (DIELS) KANEHIRA I. c. 334, Fl. Micr. 273, f. 132.

*Jambosa stelechantha* DIELS I. c. 533.

Ponape: Kolonia 626, Kity 1530, 1547, Nānaraut-zan 1621, 1652; Truk Tol: 1296, Moen 1700. In primary forests from low to medium altitudes. *Distrib.* Endemic, the type from Ponape. *Nat. names*: "kahkarak" (Ponape), "attieu" (Truk).

**Eugenia stelechanthoides** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 669.

Kusai 1318, 1348! 1431! In forests from low to medium altitudes. The tree is very common in Kusai, often occurring in groups. *Distrib.* Endemic. *Nat. name*: "neis" (Kusai).

**Eugenia Suzuii** KANEHIRA I. c. 335, Fl. Micr. 274, f. 133.

Palau Korrer 361! In primary forests in a small island near Korrer. *Distrib.* Endemic.

**Eugenia Thompsonii** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 121; KANEHIRA I. c. 335, Fl. Micr. 275, f. 134.

Saipan 36, 927, 974; Rota 1767, 1804. *Distrib.* Endemic, the type from Guam. *Nat. name*: "atoto" (Saipan).

**Eugenia uniflora** LINN. Sp. Pl. (1753) 470; DIELS I. c. 532.

*Eugenia decidua* MERR. I. c. 121.

Guam. *Distrib.* A native of tropical America.

#### **Myrtella** F. von MUELLER

**Myrtella Bennigseniana** (VOLKENS) DIELS. in ENGL. I. c. **56** (1921) 529; KANEHIRA I. c. **45** (1931) 336, Fl. Micr. 276, f. 135.

*Saffordiella Bennigseniana* MERR. I. c. 124.

Yap 1155, 1182. In thickets at low altitudes. *Distrib.* The type from Guam, endemic.

#### **Psidium** LINNAEUS

**Psidium Guajava** LINN. Sp. Pl. (1753) 470; MERR. I. c. 124; DIELS I. c. **56** (1921) 529; KANEHIRA I. c. **45** (1931) 336.

Ponape: Metaranium 781, Kolonia 1690. *Distrib.* Introduced from tropical America, thoroughly naturalized, pantropic. Guava.

**Melastomataceae****Astronidium** A. GRAY

**Astronidium carolinense** (KANEH.) MGF. in Notizb. Bot. Gart. u. Mus. Berlin-Dahl. **12** (1934) 49.

*Astronia carolinensis* KANEHIRA in Bot. Mag. Tokyo **46** (1932) 488, Fl. Micr. 278, f. 136.

Truk Tol, 1266, 1287!; Kusai 1380. The type from Truk. In primary forests at the top of the islands. *Distrib.* Endemic.

**Astronidium palauense** (KANEH.) MGF. l. c. 49.

*Astronia palauensis* KANEHIRA in Bot. Mag. Tokyo **45** (1931) 337, Fl. Micr. 279, f. 137.

Palau: Aimiriik 273, 1938, 2354, Aimiyon 503! In primary forests at low altitudes. *Distrib.* Endemic. *Nat. name:* "mesgui" or "meskui" (Palau).

**Astronidium ponapense** (KANEH.) MGF. l. c. 49.

*Astronia ponapensis* KANEHIRA l. c. 337, Fl. Micr. 280, f. 138.

Ponape: Niinoani-zan 796!, Nânaraut-zan 1603, 1655. In primary forests at about 300-700 m altitudes. *Distrib.* Endemic.

**Medinilla** GAUDICHAUD

**Medinilla Blumeana** MANSFELD in ENGL. Bot. Jahrb. **63** (1930) 277; KANEHIRA l. c. **45** (1931) 336, Fl. Micr. 282, f. 139.

Palau: Aimiyon 487, Arumonogui 2089. An epiphyte climber in damp primary forests at low altitudes. *Distrib.* The type from Palau, endemic.

**Medinilla diversifolia** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 670, Fl. Micr. 283, f. 140.

The type from Kusai. No. 1371! *Distrib.* Endemic.

**Medinilla rosea** GAUDICH. Bot. Freyc. Voy. (1826) 484, t. 106; MERR. l. c. 125; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 33.

Guam., Saligan HOSOKAWA 7866. *Distrib.* The type from Guam, endemic.

**Melastoma** BURMAN

**Melastoma marianum** NAUDIN in Ann. Sci. Nat. **3**, 13 (1849) 276;  
MERR. l. c. 125; KANEHIRA l. c. 284, f. 141.

*Melastoma polyantha* (non BL.) VOLKENS l. c. 471.

Palau: Korrör 89, 192, Aimirrik 304, 2320; Ponape: Kolonia 665, 701, 1471, Sankaku-yama 765, Nânaraut-zan 1629; Yap 1112; Kusai 1387, 1424; Aramagan 2188. In thickets, open grasslands and secondary forests from low to medium altitudes. *Distrib.* The type from Guam; Caroline and Marainne Islands. *Nat. names:* "mattagui, matakui" (Palau), "waragu" (Yap), "kisikimey" (Ponape).

**Oenotheraceae****Jussiaea** LINNAEUS

**Jussiaea erecta** LINN. Sp. Pl. (1753) 388.

*Jussiaea suffruticosa* MIQ. Fl. Ind. **1**, 1 (1856) 628; VOLKENS l. c. 471.

Palau: Korrör 210, Marikyoku 2030; Truk Dublon 609, Ponape Kolonia 689; Saipan 1001. In open damp places. *Distrib.* Pantropic. *Jap. name:* Kidati-kinbai.

**Jussiaea linifolia** VAHL, Ecolog. Amer. **2** (1789) 32; MERR. l. c. 125. Guam. *Distrib.* Pantropic.

**Halorrhagidaceae****Halorrhagis** FORSTER

**Halorrhagis scabra** (KOENIG) BENTH. Fl. Hongk. (1861) 139 var. *elongata* SCHINDL. in ENGL. Pflanzenr. **23** (1905) 29; MERR. in Philip. Journ. Sci. **1** (1906) Suppl. 216.

*Halorrhagis tetragyna* (non R. BR.) VOLKENS l. c. 471.

Palau: Korrör 203, Marikyoku 423; Yap 1137. In open waste places. *Distrib.* India (the species), southern China, Tonkin, Philippines and Borneo (the variety).

**Araliaceae****Boerlagiodendron** HARMS

**Boerlagiodendron mariannense** KANEHIRA Fl. Micr. (1933) 288, f. 144, nom. seminud., et in Bot. Mag. **67** (1933) 676.

Rota 1773, 1784! 1803. In dense primary forests at altitude about 400 m. *Distrib.* Endemic.

**Boerlagiodendron pachyphyllum** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 401, f. 1.

Palau: Aimiriik 2301, 2304, 2311, 2452. In wet dense primary forests at 100 to 150 m altitudes and observed only near Aimiriik, a village in the southern part of the main island of Palau. *Distrib.* Endemic.

**Boerlagiodendron pulcherrimum** (VIDAL) HARMS in ENGL. & PRANTL Nat. Pflanzenf. **3**, 8 (1904) 32; MERR. in Philip. Journ. Sci. **3** (1906) Bot. 254; KANEHIRA l. c. **45** (1931) 338, Fl. Micr. 285, f. 142, 143.

*Osmoxylon pulcherrimum* VIDAL ex F.-VILL. Novis App. (1880) 102. Palau: Korrör 129, 1853; Marikyoku 2057; Ogiwal 2065, 2066. In damp primary forests along the seashore. *Distrib.* Philippines. *Nat. name*: "kasiaml."

**Boerlagiodendron truncatum** KANEHIRA in Bot. Mag. **48** (1934) 403, f. 2.

Palau Aimiriik 2364. I saw only a single tree in primary forests at about 200 m altitudes.

#### Meryta FORSTER

**Meryta Senffiana** VOLKENS in ENGL. l. c. **31** (1901) 471. t. 14; KANEHIRA l. c. **45** (1931) 338, Fl. Micr. 290, f. 145.

Palau: Korrör 358, a coral island 232, 2013, 2446; Saipan 981, 2234; Yap 1211. In primary forests at low altitudes. *Distrib.* The type from Yap, endemic. The sterile specimens from Kusai (1382), and Ponape (1545, 1656) may belong to this species.

#### Nothopanax MIQUEL

**Nothopanax fruticosum** (LINN.) MIQ. Fl. Ind. Bat. **1**, 1 (1856) 765; KANEHIRA l. c. **45** (1931) 338.

*Panax fruticosum* LINN. Sp. Pl. ed. 2 (1763) 1513.

Ponape Kolonia 868, 869. Planted. *Distrib.* Probably of Malayan origin, now planted in most or all tropical countries.

**Nothopanax scutellarium** (BURM. f.) MERR. Interpret. Herb. Amb. (1917) 409; KANEHIRA l. c. 338.

*Crassula scutellaria* BURM. f. Fl. Ind. (1768) 78.

Ponape Kolonia 866. Planted. *Distrib.* Probably of Malayan origin.

- Nothopanax trichochleatum** MIQ. Fl. Ind. Bat. Suppl. (1862) 340;  
KANEHIRA l. c. 338.  
Ponape: Kolonia 868. Planted. *Distrib.* A native of Malaya, now  
widely planted.

### **Polyscias** FORSTER

- Polyscias grandifolia** VOLKENS l. c. 471; MERR. l. c. 125; KANEHIRA l. c. 338, Fl. Micr. 292, f. 146.  
Palau: Korrör 459, a coral island 221, 2442, Airai 2381, New Gaspan 2122, Tôdai-yama 1868, Aimiriik 1939; Saipan 967, 2231; Tinian 1049; Rota 1766, 1810; Saligan 2162; Yap 1105, 1193. In forests along the seashore. *Distrib.* The type from Yap, endemic. *Nat. name*: "yabonnogabatyai" (foreign tree) (Yap), "pegea (Rota), "pgai" (Palau).  
**Polyscias subcapitata** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 673, Fl. Micr. 294, f. 147.  
Kusai 1327! 1334, 1368, 1402. In primary forests at medium altitudes. *Distrib.* Endemic.

### **Schefflera** FORSTER

- Schefflera odorata** (BLANCO) MERR. et ROLFE in Philip. Journ. Sci. **3** (1908) Bot. 117; KANEHIRA l. c. 338, Fl. Micr. 297, f. 149.  
*Polyscias odorata* BLANCO Fl. Filip. (1837) 225.  
Palau: Korrör 83, 368, Garamiscan 545, Aimiriik 1951, 2349. In forests and thickets near the villages. An epiphytic climber. *Distrib.* Philippines. *Nat. name*: "bugalwao" or "bungaloan" (Palau).  
**Schefflera pachyclada** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 670, Fl. Micr. 294, f. 148.  
Truk Tol 1272. In primary forests at medium altitudes. *Distrib.* Endemic.

### **Umbelliferae**

#### **Centella** LINNAEUS

- Centella asiatica** (LINN.) URBAN in MART. Fl. Bras. **2**, 1 (1879) 287; VOLKENS l. c. 472; MERR. l. c. 126.  
*Hydrocotyle asiatica* LINN. Sp. Pl. (1753) 234.

Palau Korrer 206; Yap (VOLKENS); Guam. In open damp grasslands. *Distrib.* Pantropic. *Jap. name:* Tubo-kusa.

### Epacridaceae

#### Cyathodes LABILLARDIÈRE

**Cyathodes mariannensis** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 734. f. 5.

Aramagan, Marianne Islands 2182! In mossy thickets and in open places near the old crater, ascending to an altitude of about 700 m. *Distrib.* Endemic.

### Myrsinaceae

#### Discocalyx MEZ

**Discocalyx ladronica** MEZ in ENGL. Pflanzenr. **9** (1902) 214. Marianne Islands. The exact locality not mentioned, collected by GAUDUCHAUD. *Distrib.* Endemic.

**Discocalyx macrophylla** MEZ in ENGL. Bot. Jahrb. **56** (1921) 537. The type from Ngarusul, Palau (LEDERMANN). Palau: New Gaspan 2123, a coral island, Korrer 1900. *Distrib.* Endemic.

**Discocalyx megacarpa** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 126; KANEHIRA l. c. 339.

Saipan 24, 924, 942, 2233; Rota 1764, 1779. In primary forests at medium altitudes. *Distrib.* The type from Guam, endemic.

**Discocalyx ponapensis** MEZ in ENGL. l. c. 536; KANEHIRA l. c. 339. Ponape: Kolonia 646, Parkier 1485, Kity 1526, 1531, Nanaraut-zan 1607, 1625, 1659, 1660. In primary forests at low and medium altitudes. *Distrib.* The type from Ponape, endemic. *Nat. name:* "kachiel," "kraknowol" (Ponape).

#### Embelia BURMAN f.

**Embelia palauensis** MEZ in ENGL. l. c. **56** (1921) 537. Palau, a coral island (LEDERMANN) Truk Tol (LEDERMANN). *Distrib.* Endemic.

#### Maesa FORSKÅL

**Maesa carolinensis** MEZ in ENGL. l. c. **56** (1921) 535; KANEHIRA Fl. Micr. 299, f. 150.

Ponape: Kolonia 641, Sankaku-yama 751, Niinoani-zan 837, Kity 1557, Nānaraut-zan 1633, 1634, 1666; Truk: Dublon 613, Tol 1295; Kusai 1359. In primary forests and thickets from low to medium altitudes. *Distrib.* The type from Ponape and Truk; endemic.

**Maesa palauensis** MEZ in ENGL. l. c. 536; KANEHIRA l. c. 45 (1931) 339.

Palau: a coral island 236, 2457, Korror 370, Tōdai-yama 1869, Pelieu 2416. In forests at low altitudes. *Distrib.* The type from Palau, endemic.

#### **Rapanea** AUBLET

**Rapanea carolinensis** MEZ in ENGL. Bot. Jahrb. 56 (1921) 538; KANEHIRA Fl. Micr. 301, f. 151.

Ponape: Tortom-zan 1566, Nānaraut-zan 1639. In forests at higher altitudes. *Distrib.* The type from Ponape, endemic.

**Rapanea Ledermanni** MEZ in ENGL. l. c. 538.

Ponape, Monte Santo (LEDERMANN). *Distrib.* The type from Ponape, endemic. This is probably the same to the preceding species.

**Rapanea palauensis** MEZ in ENGL. l. c. 539; KANEHIRA l. c. 45 (1931) 339, Fl. Micr. 301, f. 152.

Palau: Aimiriik 277, 2299, Airai 2379, Marikyoku 439, 2040, 2052. In thickets and forests at low altitudes. *Distrib.* The type from Palau, endemic.

#### **Primulaceae**

##### **Lysimachia** TOURNEFORT

**Lysimachia mauritiana** LAM. Encycl. 3 (1789) 592; PAX et KNUTH in ENGL. Pflanzenr. 22 (1905) 273; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 34.

Marianne Islands, collected by GAUDICHAUD. Pagan HOSOKAWA 7972. *Distrib.* Mauritius, India, Japan, Formosa, New Caledonia to Hawaii. *Jap. name:* Hamabossu.

#### **Sapotaceae**

##### **Achras** LINNAEUS

**Achras Zapota** LINN. Sp. Pl. (1753) 1190.

*Achras sapota* LINN. Sp. Pl. ed. 2 (1762) 470.  
Ponape 1577. Introduced. The Sapodilla. *Distrib.* A native of  
tropical America. Tropics generally in cultivation.

#### **Manilkara** ADANSON

**Manilkara udoido** KANEHIRA Fl. Micr. 304, f. 155 nom, seminud.,  
et in Bot. Mag. Tokyo **47** (1932) 677.  
Palau Aimiriik 1925, 2129! 2324, 2776. The tree is very abundant  
near Aimiriik, a village in the southern part of the main  
island of Palau but has been found nowhere else. *Distrib.*  
Endemic. *Nat. name*: "udoido."

#### **Northiopsis** KANEHIRA

**Northiopsis Hoshinoi** KANEHIRA Fl. Micr. 302, f. 152.  
*Northia Hoshinoi* KANEHIRA Fl. Micr. 302, f. 152, nom. seminud. et  
in Bot. Mag. Tokyo **47** (1933) 677.  
Ponape Kolonia 695, 1265! 1572, 2138. In thickets and forests along  
the road between Kolonia and Owa. The tree is scattered  
near Kolonia but found nowhere else. *Distrib.* Endemic. *Nat.*  
*name*: "kohle" (Ponape).

#### **Palaquium** BLANCO

**Palaquium karrak** KANEHIRA in Bot. Mag. Tokyo **45** (1931) 339,  
Fl. Micr. 304, f. 153.  
Ponape: Niinoani-zan 794!, Kolonia 1478, Parkier 1508, Nanpier  
1669. In primary forests from low to higher altitudes. *Distrib.*  
Endemic. *Nat. name*: "Karrak" (Ponape).

#### **Sideroxylon** DILLENIIUS

**Sideroxylon glomeratum** VOLKENS in ENGL. I. c. **31** (1901) 472;  
MERR. I. c. 127; KANEHIRA I. c. 339, Fl. Micr. 307, f. 155.  
Saipan 11, 893, 996; Tinian 66, 2268; Rota 1777; Aramagan 2174;  
Yap 1225; Palau 100, 190, 2011, 2287, 2387, 2417, 2752. In  
thickets and forests at low altitudes. *Distrib.* The type from  
Yap; Marianne and Caroline Islands. *Nat. names*: "lalaha"  
(Saipan), "lala" (Rota).

**Sideroxylon micronesicum** KANEHIRA in Bot. Mag. Tokyo **46**  
(1932) 671, Fl. Micr. (1933) 308, f. 156.

Kusai 1322!, 1462!. In damp primary forests at medium and high altitudes. *Distrib.* Endemic. *Nat. name*: "sohs" (Kusai).

### Ebenaceae

#### Diospyros LINNAEUS

**Diospyros discolor** WILLD. Sp. Pl. (1805) 1108; KANEHIRA l. c. **45** (1931) 340.

Palau: Korrer 182, Airai 2384, New Gaspan 2127. Planted. *Distrib.* Endemic in Philippines, introduced in various other tropical countries.

#### Maba FORSTER

**Maba buxifolia** (ROTTB.) PERS. Syn. **2** (1807) 606; VOLKENS l. c. 472; KANEHIRA l. c. 340.

Yap 1109, 1221, 1184. In thickets at low altitudes. *Distrib.* The type probably from India. Tropical Africa and Asia through Malaya to tropical Australia. *Jap. name*: Yayeyama-kokutan.

**Maba palauensis** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 405.

Palau: Aimiriik, S. NISHIDA 2479! (flos), 2339! (fr.). Aimiyon 499, 506, 513, Garamiscan 556, 2095, Marikyoku 406, 2039, Aimiiriik 2339, may be referable to the present species. *Distrib.* Endemic.

#### Maba or Diospyros?

Palau 2460. In a coral island near Korrer. A glabrous form.

### Symplocaceae

#### Symplocos JACQUIN

**Symplocos palauensis** KOIDZ. in Bot. Mag. Tokyo **30** (1916) 402; KANEHIRA l. c. **45** (1931) 340, Fl. Micr. (1933) 310, f. 157.

*Symplocos chabdui* BRAND in ENGL. Bot. Jahrb. **56** (1921) 558.

Palau Korrer 146, 162, 1926, 2321. In thickets and forests at low altitudes. *Distrib.* Endemic. *Nat. name*: "aputui" (Palau).

### Oleaceae

#### Jasminum TOURNEFORT

**Jasminum grandiflorum** LINN. Sp. Pl. ed. 2 (1762) 9; MERR. l. c. 128.

Guam. *Distrib.* A native of India, now cultivated in most tropical countries.

**Jasminum marianum** DC. Prodr. **8** (1844) 357; MERR. l. c. 128; KANEHIRA l. c. 340.

Saipan 33, 891, 947, 2240; Tinian 63, 1053; Rota 1748. In thickets and forests from low to high altitudes. *Distrib.* The type from Guam, endemic. *Nat. name*: "sohs" (Rota).

**Jasminum multiflorum** (BURM. f.) ANDR. Bot. Repos. **8** (1799-1811) t. 496; KANEHIRA l. c. 341.

*Nyctanthes multiflora* BURM. f. Ind. Fl. (1768) 5, t. 3, f. 1.

Saipan 928. In thickets near houses. *Distrib.* A native of India, probably introduced.

**Jasminum Sambac** (LINN.) AIT. Hort. Kew **1** (1789) 8; MERR. l. c. 128.

*Nyctanthes Sambac* LINN. Sp. Pl. (1753) 6.

Kusai 1358. Planted. *Distrib.* A native of India, now cultivated in all tropical countries.

#### Linociera SWARTZ

**Linociera sessiliflora** HEMSL. in Ann. Bot. **5** (1891) 504; LINNINGSHEIM in ENGL. Bot. Jahrb. **63** (1930) 279; KANEHIRA l. c. 340, Fl. Micr. 312.

*Linociera pallida* SCHUM. in K. SCHUM. et LAUTERB. Fl. Schutzg. Südsee (1901) 497.

Palau Aimiriik 276, 2298, 2363. *Distrib.* The type from Solomon Islands, known from New Guinea.

#### Loganiaceae

##### Couthovia A. GRAY

**Couthovia calophylla** GILG et BENEDICT in ENGL. l. c. **56** (1921) 548, f. 2; KANEHIRA l. c. **45** (1931) 341, Fl. Micr. 313, f. 158

Palau Aimiriik 271, 1941, 2289. In dense primary forests, Aimiriik, Palau Islands. *Distrib.* The type from Palau, endemic. *Nat. name*: "alarm" (Palau).

**Couthovia toua** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 490, Fl. Micr. 313, f. 159.

Kusai 1310!, 1391, 1405. In primary forests from low to medium altitudes. *Distrib.* Endemic. *Nat. name*: "toua" (Kusai).

**Fagraea** THUNBERG

**Fagraea galilai** GILG et BENEDICT in ENGL. Bot. Jahrb. (1921) 555;  
KANEHIRA l. c. 341, Fl. Micr. 316, f. 160.

Palau: Korrör 244, 356, 1908 A, 1996, 2770, Arumonogui 2092. In  
forests along the seashore. *Distrib.* The type from Palau,  
endemic. *Nat. name*: "galilai" (Palau).

**Fagraea ksíd** GILG. et BENEDICT l. c. 552; KANEHIRA l. c. 341, Fl.  
Micr. 317, f. 161.

Palau: Marikyoku 403, Aimiriik 1933, 1969, Garamiscan 2116. In  
dense primary forests at low altitudes.

*Distrib.* Endemic, the type from Palau. *Nat. names*: "aksis"  
(Palau).

**Fagraea kusaiana** HOSOKAWA in Trans. Nat. Hist. Soc. Formos.  
24 (1934) 202.

Kusai HOSOKAWA 6288. *Distrib.* Endemic.

**Fagraea sair** GILG et BENEDICT l. c. 555, f. 3; KANEHIRA l. c. 341,  
Fl. Micr. 318, f. 162.

Ponape: Kolonia 686, Parkier 728, 1498, Jokaji 1686; Truk Tol 1267;  
Kusai 1299, 1429. In primary forests along the seashore. *Dis-  
trib.* The type from Ponape, endemic. *Nat. names*: "sair"  
(Ponape), "sól" (Kusai and Truk).

**Geniostoma** FORSTER

**Geniostoma Hoeferi** GILG et BENEDICT in ENGL. Bot. Jahrb. 56  
(1921) 541; KANEHIRA l. c. 45 (1931) 341, Fl. Micr. 319, f. 163,  
Saipan 890. In primary forests at medium altitudes. *Distrib.* The  
type from Saipan. Endemic.

**Geniostoma Hoeferi** var. **glabra** CH. GILG in Notizb. Bot. Gart. u.  
Mus. Berlin-Dahlem 12, 112 (1934) 221.

Saipan KANEHIRA 2255! In forests at about 150 m alt. *Distrib.*  
Endemic.

**Geniostoma kusaiense** KANEHIRA in Bot. Mag. Kokyo 46 (1932)  
491, Fl. Micr. 321, f. 164.

Kusai 1353, 1362! In strand forests and also dense primary forests  
at about 500 m altitudes. *Distrib.* Endemic.

- Geniostoma longistylum** CH. GILG l. c. 221.  
Saipan KANEHIRA 2232! In forests at about 200 m altitude. *Distrib.*  
Endemic.
- Geniostoma micranthum** DC. Prodr. **9** (1845) 27; MERR. l. c. 128;  
GILG. et BENEDICT in ENGL. l. c. 540.\*
- Geniostoma glaberrmia** HOSOKAWA in Trans. Nat. Hist. Soc. Formos.  
**25** (1935) 34.  
The type from Guam, collected by Gaudichaud. Aramagan 2180;  
Pagan 2209. HOSOKAWA's type from Agrigan and Aramagan.\*  
*Distrib.* Endemic.
- Geniostoma saipanense** KANEHIRA in sched.  
Saipan, Charanka 3682, Aug. 24, 1935. In thickets near the sea-  
shore.
- Geniostoma sessile** KANEHIRA in Bot. Mag. Tokyo **45** (1931) 342,  
Fl. Micr. 322, f. 165.  
Palau, a coral island near Korror 218! 1889, 2443. In forests in  
coral rock. *Distrib.* Endemic.
- Geniostoma stenurum** GILG. et BENEDICT in ENGL. l. c. 545, f. 1;  
Fl. Micr. 323, f. 166.  
Ponape: Kolonia 638, 1477, 1480, Parkier 1522, Nānaraut-zan 1657.  
In primary forests from low to medium altitudes. *Distrib.*  
Endemic.

#### Mitrasacme LABILLARDIÈRE

- Mitrasacme nudicaulis** REINW. ex Bl. Bijdr. (1826) 849; GILG et  
BENEDICT in ENGL. l. c. 547.  
Palau Babeldaob (LEDERMANN). *Distrib.* India to China and Malaya.

#### Mitreola LINNAEUS

- Mitreola petiolata** (WALT.) TORR. & GRAY, Fl. North Am. **2** (1846)  
45; MERR. in Philip. Journ. Sci. **11** (1916) Bot. 307.  
*Anonymos petiolata* WALT. Fl. Carol. (1788) 108.  
**Mitreola oldenlandioides** WALL. Cat. (1831) No. 4350; VOLKENS l. c.  
472; GILG et BENEDICT in ENGL. l. c. **56** (1921) 547.  
Yap (VOLKENS), Palau (KRAEMER). *Distrib.* Pantropic.

\* The specimens collected at Aramagan (2180) and Pagan (2209) had been identified by CH. GILG, Berlin-Dahlem Museum. They are identical with *G. micranthum* DC.

**Apocynaceae****Allamanda LINNAEUS**

**Allamanda cathartica** LINN. Mant. **2** (1771) 214; MGF. in ENGL. Bot. Jahrb. **63** (1930) 281; KANEHIRA in Bot. Mag. Tokyo. **45** (1931) 343.

Ponape Metaranium 876, 1535. Planted. *Distrib.* Introduced from tropical America, now widely cultivated.

**Alyxia R. BROWN**

**Alyxia palauensis** MGF. in ENGL. l. c. **63** (1930) 283; KANEHIRA l. c. 342, Fl. Micr. 325, f. 167.

Palau: Korrer 97, 240, 1897, 2404, Marakal 2755. On rocky reef along the seashore. *Distrib.* The type from Palau, endemic.

**Alyxia Torresiana** GAUDICH. Bot. Freyc. Voy. (1826) 451; MERR. l. c. 128; MGF. l. c. 282; KANEHIRA l. c. 326, f. 168.

*Gynopogon Torresianus* LAUT. et K. SCHUM. Fl. Deutsch. Schutzg. Südsee (1901) 504.

Saipan 894, 1029, 2253; Tinian 2265, 2269; Rota 1731, 1756, 1790. In primary forests at low altitudes. *Distrib.* The type from Guam, endemic.

**Carissa LINNAEUS**

**Carissa grandiflora** (E. Mey.) DC. Prodr. **8** (1844) 335; MERR. l. c. 128.

*Arduina grandiflora* E. MEY. Comm. Pl. Afr. Austr. (1835-37) 190. Guam. Planted. *Distrib.* A native of south Africa, now widely cultivated in all warm countries.

**Cerbera LINNAEUS**

**Cerbera dilatata** MGF. in ENGL. Bot. Jahrb. **63** (1930) 285; KANEHIRA l. c. 343.

Saipan 938, Tinian 2276. In primary forests. *Distrib.* The type from Saipan, endemic.

**Cerbera floribunda** K. SCHUM. in SCHUM. et HOLLR., Fl. Kais. Wilhelmsl. (1889) 111; WARB. in ENGL. Bot. Jahrb. **13** (1891) 404; VALETON in Ann. Jard. Bot. Buitenz. **12** (1898) 139; BOERL. Handl. Fl. Ned. Ind. **2**, 2 (1899) 394; K. SCHUM. & LAUTERB. Fl. Deutsch. Schutzg. Südsee (1901) 505; MGF. in

Nova Guinea **14** (1926) 284, ENGL. Bot. Jahrb. **61** (1927) 198;  
KANEHIRA in Bot. Mag. Tokyo **47** (1933) 679, Fl. Micr. (1933)  
328, f. 169.

*Cerbera micrantha* KANEHIRA l. c. **45** (1931) 343.

Palau: Almonogui 470, 2081; Aimiriik 1936, 2279; Garamiscan 2115.  
In thickets and forests at low altitudes. *Distrib.* New Guinea.  
*Nat. name*: "kamarido" (Palau).

**Cerbera manghas** LINN. Sp. Pl. (1753) 208; VOLKENS l. c. 472;  
MGF. in ENGL. l. c. **61** (1927) 197, **63** (1930) 285; KANEHIRA l. c.  
343.

*Cerbera Odollam* GAERTN. Fruct. **2** (1791) 193.

Saipan 2, 2230, 2237; Palau: Marikyoku 424, Armatin 468, Aimiriik  
2293, a coral island 2002, Angaur 593; Ponape Metaranium 791;  
Kusai 1344. In forests along the seashore. *Distrib.* Tropical  
Asia through Malaya to tropical Australia and Polynesia. *Nat.*  
*names*: "kamaridakk," "amarido" (Palau), "riya" (Yap),  
"suzâsi" (Kusai). *Jap. name*: Mihukuragi.

#### **Clitandropsis** Sp. MOORE

**Clitandropsis insularis** MGF. in ENGL. Bot. Jahrb. **63** (1930) 281.  
Palau Ngarsul (LEDERMANN 14419). *Distrib.* Endemic. The genus  
known only from New Guinea.

#### **Ervatamia** (DC.) STAPF

**Ervatamia coronaria** (JACQ.) STAPF in Fl. Trop. Afr. **4**, 1 (1904)  
127; MGF. in ENGL. l. c. **61** (1927), 199, **63** (1930) 286.

*Nerium coronarium* JACQ. Icon. Pl. Rar. (1781) t. 52, Collect. Bot.  
**1** (1786) 138.

*Tabernaemontana divaricata* (non R. BR.) MERR. l. c. 130; KANE-  
HIRA l. c. 344.

Truk Dublon 619. Planted. *Distrib.* A native of tropical Asia now  
pantropic in cultivation. *Jap. name*: Sanyûkwa.

#### **Excavatia** MARKGRAF

**Excavatia mariannensis** (A. DC.) MGF. in ENGL. Bot. Jahrb. **63**  
(1930) 284; KANEHIRA l. c. 344, Fl. Micr. 329, f. 170.

*Ohrosia mariannensis* A. DC. Prodr. **8** (1844) 357; MERR. l. c. 129.

Saipan 895, 2227, Tinian 51, Pagan 2201, Rota 1811. In primary forests at low altitudes.

*Distrib.* The type from Guam, endemic. *Nat. name*: "langehte" (Saipan), "laneete" (Rota).

### **Kopsia** BLUME

**Kopsia carolinensis** KANEHIRA in Bot. Mag. Tokyo **45** (1941) 444. Palau: Aimiyon 502, Garamiscan 2103. In thickets at open places.

*Distrib.* Endemic.

### **Lepinia** DECAISNE

**Lepinia ponapensis** HOSOKAWA in Bot. Mag. Tokyo **48** (1934) 529. Ponape Nânaraut-zan HOSOKAWA 5968. In primary forests at about 780 m altitude. *Distrib.* Endemic. The genus known only from Solomon and Society Islands.

### **Lepiniopsis** VALETON

**Lepiniopsis trilocularis** MGF. in ENGL. Bot. Jahrb. **63** (1930) 280; KANEHIRA l. c. 344, Fl. Micr. 331, f. 171.

Palau: Angaur 566, Peliliu 2423, 2437. *Distrib.* Endemic. The genus known only from New Guinea and the Philippines.

### **Lochnera** REICHENBACH

**Lochnera rosea** (LINN.) REIGH. Consp. (1828) 134; MERR. l. c. 129; MGF. in ENGL. l. c. **61** (1927) 175, **63** (1930) 282.

*Vinca rosea* LINN. Sp. Pl. ed. 2 (1762) 305.

Carolines, Keros (KERSTING), Guam. Cultivated. *Distrib.* A native of tropical America, now widely distributed in the tropics of the world in cultivation and as a naturalized plant. *Jap. name*: Nitinitisô.

### **Nerium** LINNAEUS

**Nerium indicum** MILL. Gard. Dict. ed. 8 (1768) *Nerium* No. 2; MERR. l. c. 129; MGF. in ENGL. Bot. Jahrb. **61** (1927) 211, **63** (1930) 287.

*Nerium odorum* SOLAND. in AIT. Hort. Kew. **1** (1789) 297.

Guam. Cultivated. *Distrib.* Widely distributed in Indo-Malayan region. *Jap. name*: Kyôtikutô.

**Ochrosia** JUSSIEU

**Ochrosia parviflora** (FORST.) HENSLOW in Ann. Nat. Hist. **1** (1838) 345; MGF. l. c. **63** (1930) 284; KANEHIRA l. c. 343.

*Cerbera parviflora* FORST. Prodr. (1786) 19.

*Ochrosia oppositifolia* MERR. l. c. 130, non *Cerbera oppositifolia* LAM. Saipan 46, 913, 1089; Ponape Sankaku-yama 744; Rota 1781; Truk 1291; Yap 1131. In forests at low altitudes. *Distrib.* Polynesia. *Nat. names*: "faag" (Saipan). "uma" (Truk).

**Plumiera** TOURNEFORT

**Plumiera acuminata** AIT. Hort. Kew. ed. 2, **2** (1811) 70.

Palau, planted. *Distrib.* A native of tropical America, now generally planted for ornamental purpose.

**Rauwolfia** PLUMIER

**Rauwolfia mangiferoides** KANEHIRA\* in Bot. Mag. Tokyo **45** (1931) 345.

Palau Marikyoku 414! In thickets at open places. *Distrib.* Endemic.

**Rauwolfia insularis** MGF. in ENGL. Bot. Jahrb. **63** (1930) 283.

*Rauwolfia laxiflora* KANEHIRA Fl. Micr. (1933) 332, f. 172, nom. seminud. et in Bot. Mag. Tokyo **47** (1933) 678.

Palau: Aimirik 2131!, 2283, 2361, 2781; Airai 2759; Ogiwal 2063. In primary forests at low altitudes. *Distrib.* endemic, the type from Korror (LEDERMANN).

**Tabernaemontana** PLUMIER

**Tabernaemontana aurantiaca** GAUDICH. Bot. Freyc. Voy. (1826) 50; MIQ. Fl. Ind. Bat. **2** (1856) 424; F. v. MUELL. Descr. Notes on Pap. Pl. **2** (1885) 12; K. SCHUM. et HOLLR. Fl. Kais. Wilhelmsl. (1889) 112; WARB. in ENGL. Bot. Jahrb. **13** (1891) 405; BAILEY Queensl. Agr. Journ. **3** (1898) 201; Boerl. Fl. Ned. Ind. II, **2** (1899) 397; MGF. in Nova Guinea **14** (1926) 284, ENGL. l. c. **61** (1927) 201; KANEHIRA in Bot. Mag. Tokyo **49** (1935) 274.

*Rejoua aurantiaca* GAUDICH. Bot. Freyc. Voy. (1826) 451, t. 61.

\* The plant has been once considered to be a synonym of *Rauwolfia insularis* MGF. but in comparison with the type, I am inclined to think this to be a new species.

No. 2383. Palau Airai. Planted in a garden. It is said the seeds were sown, taken from a wild tree growing at Gashol, Palau.  
*Distrib.* New Guinea.

**Tabernaemontana pandacaqui** POIR. in LAM. Encycl. **7** (1806) 529;  
KANEHIRA l. c. 344.

Saipan 980. In thickets near houses. *Distrib.* Philippines, Formosa and Celebes.

### **Thevetia** LINNAEUS

**Thevetia peruviana** (PERS.) MERR. l. c. 130; MGF. in ENGL. l. c. **63** (1930) 286,

*Cerbera peruviana* PERS. Synopsis Pl. **1** (1805) 267.

Ponape 1540. Cultivated. *Distrib.* A native of tropical America, now widely cultivated in most tropical countries. *Jap. name:* Kibana-kyôtikutô.

### **Asclepiadaceae**

#### **Asclepias** LINNAEUS

**Asclepias curassavica** LINN. Sp. Pl. (1753) 215; MERR. l. c. 130;  
SCHLTR. in ENGL. Bot. Jahrb. **56** (1921) 566.

Saipan 21, 954; Rota 1807. *Distrib.* Pantropic weed of American origin.

#### **Cryptostegia** R. BROWN

**Cryptostegia grandiflora** (ROXB.) R. BR. in Bot. Reg. (1819) t. 435;  
KANEHIRA l. c. 345.

*Nerium grandiflorum* ROXB. Hort. Beng. (1814) 19, nom. nud., Fl. Ind. ed. 2, **2** (1832) 100.

Saipan 993. Planted. *Distrib.* A native of India, now Pantropic.

#### **Dischidia** R. BROWN

**Dischidia Hahliana** VOLKENS in ENGL. l. c. **31** (1901) 473; SCHLTR. l. c. **56** (1921) 567.

Yap (VOLKENS). *Distrib.* The type from Yap, endemic.

**Dischidia puberula** DECNE. in DC. Prodr. **8** (1844) 631; MERR. l. c. 131; SCHLTR. l. c. 567.

Guam. *Distrib.* The type from Guam collected by GAUDICHAUD, endemic.

**Finlaysonia** WALLICH

- Finlaysonia obovata** WALL. Fl. As. Rar. **2** (1831) 48 t. 162;  
 DECNE. in DC. Prodr. **8** (1844) 494.  
 Palau, Garamiscan 552. In thickets along the seashore. *Distrib.*  
 India through Malaya to the Moluccas.

**Hoya** R. BROWN

- Hoya Schnee** SCHLTR. in ENGL. Bot. Jahrb. **56** (1921) 567.  
 Ponape: Kolonia 658, 699, 1483, Tortom-zan 1569, Jokaji 1694. In  
 thickets and forests from low to medium altitudes. *Distrib.*  
 The type from Ponape, endemic.

**Sarcolobus** R. BROWN

- Sarcolobus sulphureus** (VOLKENS) SCHLTR. in ENGL. Bot. Jahrb.  
**50** (1913) 160, **56** (1921) 569.  
*Tylophora sulphurea* VOLKENS l. c. 473.  
 Yap 72. In thickets at low altitudes. *Distrib.* The type from Yap,  
 endemic.

**Tylophora** R. BROWN

- Tylophora polyantha** VOLKENS in ENGL. l. c. **31** (1901) 473;  
 SCHLTR. l. c. **56** (1921) 569.  
 Palau Angaur 569; Yap 1250. *Distrib.* The type from Yap, en-  
 demic.

**Convolvulaceae****Calonyction** CHOISY

- Calonyction album** (LINN.) HOUSE in Bull. Torr. Bot. Club **31**  
 (1904) 591; MERR. l. c. 131.  
*Ipomoea alba* LINN. Sp. Pl. (1753) 161.  
 Guam. In thickets along the seashore. *Distrib.* Pantropic.

**Erycibe** ROXBURGH

- Erycibe** sp.  
 Kusai 1363. A strand plant.

**Evolvulus** LINNAEUS

**Evolvulus alsinoides** LINN. Sp. Pl. ed 2 (1762) 392; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 35.

Tinian HOSOKAWA 7721. *Distrib.* Pantropic.

**Ipomoea** LINNAEUS

**Ipomoea Batatas** (LINN.) POIR. in LAM. Encycl. **6** (1804) 14; VOLKENS l. c. 473; MERR. l. c. 131.

*Convolvulus Batatas* LINN. Sp. Pl. (1753) 154.

Guam, Yap. *Distrib.* Introduced from Mexico, now cultivated in all warm countries. The sweet potato. *Jap. name*: Satumaimo.

**Ipomoea digitata** LINN. Syst. ed. 10 (1759) 924.

*Ipomoea paniculata* R. BR. Prodr. (1810) 486; VOLKENS l. c. 473.

Truk Dublon 606; Ponape Kolonia 688; Kusai 1426. In thickets along the seashore.

*Distrib.* Pantropic. *Jap. name*: Yatude-asagao.

**Ipomoea gracilis** R. BR. Prodr. (1810) 484; MERR. l. c. 131.

*Ipomoea littoralis* BL. Bijdr. (1825) 713; VOLKENS l. c. 473.

Palau Marikyoku 422. In thickets along the seashore. *Distrib.* Tropical Asia to the Sechelles, through Malaya to tropical Australia and Polynesia. *Jap. name*: Sokobeni-hirugao.

**Ipomoea grandiflora** LAM. Ill. **1** 467; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 253.

*Ipomoea glaberrima* BOJ. ex HOOK. Journ. Bot. **1** (1834) 357; VOLKENS l. c. 473.

Yap (VOLKENS), Jaluit (KOIDZUMI). *Distrib.* Tropics of the Old World.

**Ipomoea hederacea** (LINN.) JACQ. Ic. Pl. Rar. **1** (1781) t. 36, Collect. **1** (1786) 124; MERR. l. c. 132.

*Convolvulus hederaceus* LINN. Sp. Pl. (1753) 154.

Guam. *Distrib.* A native of tropical America, now widely distributed in both hemispheres. *Jap. name*: Asagao.

**Ipomoea indica** (BURM.) MERR. Interpret. Herb. Amb. (1917) 445.

*Convolvulus indicus* BURM. Index Univ. Herb. Amb. (1755) 6.

Saipan 953. In thickets at low altitudes. *Distrib.* Formosa to the Moluccas, tropical Australia and Polynesia. *Jap. name*: No-asagao.

**Ipomoea pes-caprae** (LINN.) ROTH, Nov. Pl. Sp. (1821) 109; MERR. l. c. 132; KOIDZ. l. c. 253.

*Convolvulus pes-caprae* LINN. Sp. Pl. (1753) 159.

Palau Marikyoku 381; Saipan 1021; Kusai 1367. On sandy sea-shores. *Distrib.* A pantropic strand plant. *Jap. name:* Gunbai-hirugao.

**Ipomoea reptans** (LINN.) POIR. in LAM. Encycl. Suppl. **3** (1813) 460; MERR. l. c. 132.

*Convolvulus reptans* LINN. Sp. Pl. (1753) 158.

Guam. In swamps and pools. *Distrib.* Throughout the tropics of the Old World, in southern China extensively cultivated. *Jap. name:* Yôsai.

**Ipomoea triloba** LINN. Sp. Pl. (1753) 161; MERR. l. c. 132.

Guam. *Distrib.* A native of tropical America, now pantropic.

#### **Merremia** DENNSTAEDT

**Merremia gemella** (BURM. f.) HALLIER f. in ENGL. Bot. Jahrb. **16** (1892) 552; MERR. l. c. 132.

*Convolvulus gemellus* BURM. f. Fl. Ind. (1768) 46, t. 21, f. 1.

Guam. *Distrib.* India to Malaya. *Jap. name:* Hime-kogane-hirugao.

**Merremia hederacea** (BURM. f.) HALLIER f. in ENGL. l. c. **18** (1894) 168; MERR. l. c. 132.

*Convolvulus hederaceus* BURM. f. Fl. Ind. (1768) 77, t. 30, f. 2.

*Merremia convolvulacea* DENNST. SCHL. Hort. Malabar (1818) 39; VOLKENS l. c. 473.

Yap, Guam. In thickets and open grasslands. *Distrib.* India to Java and Philippines. *Jap. name:* Tutanoha-hirugao.

**Merremia umbellata** (LINN.) HALLIER f. in ENGL. l. c. **16** (1892) 552.

*Convolvulus umbellatus* LINN. Sp. Pl. (1753) 155.

Palau Aimiriik 297. In thickets at low altitudes. *Distrib.* Pantropic. *Jap. name:* Mimiba-husa-asagao.

#### **Operculia** S. MANSO

**Operculia peltata** (LINN.) HALLIER f. in ENGL. Bot. Jahrb. **16** (1892) 549; MERR. l. c. 133.

*Convolvulus peltatus* LINN. Sp. Pl. (1753) 1194.

Guam. In rocky places near the sea. *Distrib.* Eastern Malaya to Polynesia.

### Quamoclit MOENCH

**Quamoclit pennata** (DESR.) BOJ. Hort. Maurit. (1837) 224; MERR. l. c. 133.

*Convolvulus pennatus* DESR. in LAM. Encycl. 3 (1791) 567.

Guam. *Distrib.* A native of tropical America, now pantropic. *Jap. name*: Rukôsô.

### Stictocardia HALLIER f.

**Stictocardia campanulata** (LINN.) HOUSE in Muhlenbergia 5 (1909) 72; MERR. l. c. 133.

*Ipomoea campanulata* LINN. Sp. Pl. (1753) 160.

Saipan 946, 1080; Palau Korrer 2070, 2777; Saligan 2170. In thickets and secondary forests. *Distrib.* India to Malaya; introduced in other tropical countries. *Jap. name*: Atuba-asagao.

### Boraginaceae

#### Cordia LINNAEUS

**Cordia subcordata** LAM. Tab. Encycl. 1 (1791-97) 421; DC. Prodr. 9 (1845) 477; SEEM. Fl. Vit. (1865-73) 168, t. 34; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 345, Fl. Micr. 336, f. 174.

Saipan 38; Palau Korrer 599; Ponape Metaranium 849; Truk Udot 1283. In thickets and forests along the seashore. *Distrib.* Eastern Africa and tropical Asia through Malaya to tropical Australia. *Nat. names*: "niyoron" (Saipan), "ikoik" (Ponape), "ikoak" (Kusai), "anno" (Truk).

#### Heliotropium TOURNEFORT

**Heliotropium indicum** LINN. Sp. Pl. (1753) 130; MERR. l. c. 134. Saipan 963. In waste places. *Distrib.* A weed in all tropical countries, probably a native of the eastern hemisphere. *Jap. name*: Nanban-rurisô.

**Heliotropium ovalifolium** FORSK. var. **depressum** (CHAM.) MERR. l. c. 134.

*Heliotropium coromandelinum* RETZ. var. *depressum* A. DC. Prodr. 9 (1845) 542.

*Heliotropium gracile* R. BR. var. *depressum* CHAM. in *Linnaea* (1829) 457.

Guam. *Distrib.* The type of the variety from Guam, the species Philippines.

### **Tournefortia** LINNAEUS

**Tournefortia argentea** LINN. f. *Suppl.* (1781) 133; VOLKENS l. c. 473; MERR. l. c. 134; KOIDZ. in *Bot. Mag. Tokyo* **29** (1915) 254; KANEHIRA l. c. 346, *Fl. Micr.* 338, 175.

Palau Angaur 594; Saipan 1017. Along sandy seashores. *Distrib.* Tropical Asia to Mauritius, Malaya and tropical Australia. *Nat. name:* "sasran" (Kusai). *Jap. name:* Monpa-no-ki.

### **Verbenaceae**

#### **Avicennia** LINNAEUS

**Avicennia marina** (FORSK.) VIERH. var. *alba* (BL.) BAKF. in *Bull. Jard. Bot. Buitenz.* **3**, 3 (1921) 103, 207, tt. 14, 15; KANEHIRA l. c. 346.

*Secura marina* FORSK. *Fl. Aegypt-Arab.* (1775) 37.

*Avicennia alba* BLUME *Bijdr.* (1826) 821; KOORD. et VAL. *Bijdr. Boom. Java* **7** (1900) 221.

*Avicennia spicata* (non O. KTZE.) VOLKENS l. c. 474.

*Avicennia officinalis* (non LINN.) H. LAM in *ENGL.* l. c. **59** (1924) 29.

Palau Korrer 349, 560. Along muddy seashores and tidal streams.

*Distrib.* India to southern China, Malaya, Philippines and Polynesia.

#### **Callicarpa** LINNAEUS

**Callicarpa cana** LINN. *Mant.* **2** (1771) 198; VOLKENS l. c. 474; LAM l. c. **59** (1924) 24; KANEHIRA l. c. 346.

Palau Korrer 79; Saipan 1026; Yap 1242; Kusai 1301, 1354.

In thickets and open grasslands. *Distrib.* Malaya to the Bismarck Archipelago. *Nat. names:* "odokk," "odopp." (Palau), "kuruwau" (Yap), "hamrak" (Saipan), "otol" (Rota). The plant is used for poisoning fish.

**Callicarpa elegans** HEYER in JUST's *Bot. Jahresber.* **33** (1905) 88; FEDDE *Rep.* **2** (1906) 88; MERR. in *Philip. Journ. Sci.* **7** (1912)

- Bot. 338; H. LAM, Verb. Mal. Arch. (1919) 83; ENGL. l. c. **59** (1924) 25.  
 Palau 248, 249, 1886, 1995, 2109, 2412; Yap 1204. In thickets and secondary forests. *Distrib.* Philippines.
- Callicarpa glabra** H. LAM, Verb. l. c. 82, ENGL. l. c. 25; KANEHIRA l. c. 346.  
 Saipan 929. In thickets along the seashore. *Distrib.* The type from Saipan, collected by HÖFER, endemic.
- Callicarpa paucinervia** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 134.  
 Saipan 2246, Rota 1758. *Distrib.* The type from Guam, endemic.

#### **Clerodendron** LINNAEUS

- Clerodendron Blumeanum** SCHAUER DC. Prodr. **11** (1847) 669; H. LAM, in ENGL. Bot. Jahrb. **59** (1924) 29; KANEHIRA l. c. 347.  
 Palau Korrör 170; Yap 1220. In thickets along the seashore *Distrib.* Malay Archipelago.
- Clerodendron inerme** (LINN.) GAERTN. Fruct. **1** (1788) 271; H. LAM, Verb. (1919) 251, ENGL. l. c. 28; KANEHIRA l. c. 347.  
*Volkamia inermis* LINN. Sp. Pl. (1753) 637.
- Clerodendron Commersonii** SPRENG. Syst. **2** (1825) 758; VOLKENS l. c. 474; MERR. l. c. 474; MERR. l. c. 135; LAM, l. c. **59** (1924) 28.  
 Saipan 39, 914, 1005; Palau 150, 554, 1991; Yap 1206, 1252. In thickets along the seashore. *Distrib.* India to Formosa through Malaya and tropical Australia. *Jap. name:* Ibotakusagi.
- Clerodendron Thompsonae** BALF. in Edinb. New Philos. Journ. **2**, 15 (1862) 233; LAM, l. c. 28.  
 Ponape Kolonia 1580. Planted. *Distrib.* A native of tropical America, now cultivated in most tropical countries. *Jap. name:* Genpei-kadura.

#### **Gmelina** LINNAEUS

- Gmelina elliptica** SM. in REES, Cycl. **15** (1810-11) No. 2; KANEHIRA l. c. 346.  
*Gmelina villosa* ROXB. Fl. Ind. **3** (1832) 86; H. LAM, Verb. (1919) 217, ENGL. l. c. **59** (1924) 28.

Palau Korrer 198, 2068. In thickets and secondary forests at low altitudes. *Distrib.* Burma through Malaya and Philippines to the Moluccas.

**Gmelina palawensis** H. LAM, Verb. Malay Arch. (1919) 224; ENGL. l. c. 28; KANEHIRA l. c. 347, Fl. Micr. 341, f. 176.

Palau Marikyoku 387, Aimiriik 1923, 2280. In primary forests at low altitudes. *Distrib.* The type from Palau, endemic. *Nat. name*: "brakios" (Palau).

### **Premna** LINNAEUS

**Premna angustiflora** H. LAM, Verb. (1919) 134, ENGL. l. c. 59 (1924) 26; KANEHIRA l. c. 347.

Palau Marikyoku 417. In open fields. *Distrib.* Known only from Palau.

**Premna integrifolia** LINN. Mant. 2 (1771) 252; LAM, Verb. Malay Arch. (1919) 140, ENGL. Bot. Jahrb. 59 (1925) 26.

*Premna Gaudichaudii* SCHAUER in DC. Prodr. 11 (1847) 631; VOLKENS. l. c. 474; MERR. in Philip. Journ. Sci. 9 (1914) Bot. 136.

*Premna mariannarum*\* SCHAUER l. c. 632; MERR. l. c. 136.

Saipan 6, 23, 923, 2257; Rota 1793; Tinian 62, 2267; Saligan 2160; Pagan 2203, 2216; Ponape 694, 792, 1500, 1609, 2407; Truk 622, 1286; Palau 151, 1861, 1884; Angaur 575; Yap 1101.

In forests along the seashore. The types of *P. Gaudichaudii* and *P. mariannarum* are both from Guam. *Distrib.* Madagascar, Mauritius, India, Ceylon, Andamans, Nicobars, Hongkong, Malaya, Philippines to Polynesia.

H. LAM recognizes several species of *Premna* as occurring in Micronesia. I have a number of specimens from various localities but am unable to distinguish individual species. Duplicates have been sent to Dr. LAM, but pending the receipt of his identifications I retain the name *Premna integrifolia* LINN. *sensu lato* for Micronesian forms.

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\* "It has an affinity with *P. integrifolia*, but differs from it by its entire calyx-lips and its 5-lobed corolla. The latter characteristic, however, makes it rather doubtful, that the species really belongs to *Premna*" (LAM l. c. 111.)

**Stachytarpheta** VAHL

- Stachytarpheta jamaicensis** (LINN.) VAHL, Enum. **1** (1804) 206; MERR. l. c. 136; LAM in ENGL. l. c. **59** (1924) 24.  
*Verbena jamaicensis* LINN. Sp. Pl. (1753) 19,  
*Stachytarpheta indica* VAHL l. c. 206; VOLKENS l. c. 474.  
 Palau Korrör 178; Yap; Guam. A common weed in open waste places. *Distrib.* A native of tropical America, now pantropic.  
*Jap. name*: Nagabosô.

**Tectona** LINNAEUS

- Tectona grandis** LINN. f. Suppl. (1781) 151; H. LAM in ENGL. l. c. **59** (1924) 25.  
 Guam; Palau (not collected). *Distrib.* India, Burma, Java to Borneo; Now widely planted. Teak.

**Vitex** LINNAEUS

- Vitex cofassus** REINW. ex BL. Bijdr. (1826) 813 var. **typica** H. LAM, Verb. (1919) 173; ENGL. l. c. **59** (1924) 27; KANEHIRA l. c. 347, Fl. Micr. (1933) 343, f. 177.  
*Vitex monophylla* K. SCHUM. et HOLLR. Fl. Kaiserwilhelmsl. (1889) 121.  
*Vitex punctata* SCHAUER DC. Prodr. **11** (1847) 687.  
 Palau: Korrör 82, Aimiriik 1977. In thickets and forests at low altitudes. *Distrib.* The species in Malaya and western Polynesia, the variety endemic. *Nat. name*: "abiokl" (Palau).  
**Vitex glabrata** R. BR. Prodr. (1810) 512; LAM, Verb. Malay. (1919) 203; KANEHIRA Fl. Micr. 345, f. 178.  
 Palau Tôdai-yama 2022. *Distrib.* India, Indo-China, Java, Timor, Celebes, Philippines and New Guinea to Australia.  
**Vitex Negundo** LINN. Sp. Pl. (1753) 638; MERR. l. c. 136; H. LAM in ENGL. l. c. **59** (1924) 27.  
 Palau (KRÄMER), Truk (KRÄMER), Ponape (LEDERMANN), Saipan (HÖFER); Guam. *Distrib.* Tropical East Africa, Madagascar, India to Japan, southward through Malaya to western Polynesia.  
*Jap. name*: Taiwan-hamagô.  
**Vitex trifolia** LINN. Sp. Pl. (1753) 638; LAM l. c. 180; VOLKENS l. c. 474; MERR. l. c. 136; KANEHIRA l. c. 347.

Tinian 55, 2273; Saipan 1025; Kusai 1308. In thickets along the seashore. *Distrib.* India to Mauritius and Japan, southward through Malaya to tropical Australia and Polynesia. *Jap. name:* Taiwan-ninzinboku.

### Labiatae

#### Coleus LOUREIRO

**Coleus Blumei** BENTH. Lab. Gen. Sp. (1832) 56; MERR. l. c. 136. Ponape Kolonia 738. Planted. *Distrib.* A native of tropical Asia, now cultivated in warm countries.

#### Hyptis JACQUIN

**Hyptis capitata** JACQ. Ic. Rar. **1** (1781-1786) t. 114; VOLKENS l. c. 474; MERR. l. c. 136.

Guam; Yap 1146. In waste places. *Distrib.* Introduced from Mexico, now established in Philippines, Formosa, Java and Amboina. *Jap. name:* Iganigakusa.

**Hyptis suaveolens** POIR. in Ann. Mus. Paris **7** (1806) 472, t. 29; VOLKENS l. c. 374; MERR. l. c. 137.

Yap, Guam. *Distrib.* A native of tropical America, now a pantropic weed.

**Hyptis spicigera** LAM. Encycl. **3** (1789) 185; MERR. l. c. 137.

Guam. *Distrib.* A native of tropical America, now a pantropic weed. *Jap. name:* Hozaki-iganigusa.

#### Leonurus LINNAEUS

**Leonurus sibiricus** LINN. Sp. Pl. (1753) 584.

Palau Korrer (OKAMOTO). A native of Asia, now in all warm countries. *Jap. name:* Mehaziki.

#### Moschosma REICHENBACH

**Moschosma polystachyum** (LINN.) BENTH. in WALL. Pl. As. Rar. **2** (1831) 13; MERR. Sp. Blancoanae (1918) 339.

*Ocimum polystachyum* LINN. Mant. **2** (1771) 567.

*Plectranthus parviflorus* R. Br. (1810) 606; VOLKENS l. c. 474.

Yap (VOLKENS). *Distrib.* Tropical Africa and Asia through Malaya to tropical Australia.

**Ocimum LINNEAUS**

**Ocimum basilicum** LINN. Sp. Pl. (1753) 597; MERR. I. c. 137.

Guam. *Distrib.* Pantropic. *Jap. name:* Mebôki.

**Ocimum sanctum** LINN. Mant. 1 (1767) 85; VOLKENS I. c. 474;  
MERR. I. c. 137.

Truk Dublon 618; Kusai 1454. In settled areas. *Distrib.* Probably a native of the Old World, now pantropic. *Jap. name:* Kami-bôki.

**Solanaceae****Capsicum TOURNEFORT**

**Capsicum frutescens** LINN. Sp. Pl. (1753) 271; DUNAL in DC. Prodr. 13, 1 (1852) 413,

Saligan 2164, Saipan 949, Palau 588, Ponape 778. Planted about old dwellings. *Distrib.* Pantropic, a native of tropical America. *Jap. name:* Hime-tôgarasi.

**Cestrum LINNAEUS**

**Cestrum diurnum** LINN.?

Yap. 1196. Planted.

**Cestrum nocturnum** LINN. Sp. Pl. (1753) 191; MERR. I. c. 138.

Ponape Kolonia 1631. Cultivated for its flowers. *Distrib.* A native of tropical America, now widely distributed in cultivation. *Jap. name:* Yakôkwa.

**Datura LINNAEUS**

**Datura Metel** LINN. Sp. Pl. (1753) 271; VOLKENS I. c. 474; MERR. I. c. 137.

Palau Angaur 588; Ponape Metaranium 778; Saipan 949. In open waste places in the settled areas. *Distrib.* Pantropic, a native of tropical America. *Jap. name:* Hime-tôgarasi.

**Lycopersicum MILLER**

**Lycopersicum esculentum** MILL. Gard. Dict. ed. 3 (1768) No. 2; MERR. I. c. 138.

Guam. *Distrib.* A native of tropical America, now pantropic. *Jap. name:* Akanasu.

**Nicotiana** LINNAEUS

**Nicotiana Tabacum** LINN. Sp. Pl. (1753) 180; VOLKENS l. c. 474; MERR. l. c. 138.

Yap, Guam. *Distrib.* A native of tropical America, now planted in all warm countries. *Jap. name*: Tabako.

**Physalis** LINNAEUS

**Physalis angulata** LINN. Sp. Pl. (1753) 183; MERR. l. c. 9 (1914) Bot. 139; KOIDZ. in Bot. Mag. Tokyo 29 (1915) 254.

Guam, Jaluit. *Distrib.* A native of tropical America, now pantropic *Jap. name*: Sennari-hôzuki.

**Physalis lanceifolia** NEES in Linnaea 6 (1831) 473; MERR. l. c. 138. Saipan 999. In open waste places. *Distrib.* Introduced from Mexico.

**Physalis minima** LINN. Sp. Pl. (1753) 183; VOLKENS l. c. 474. Ponape Metaranium 777; Yap 1251. In open places. *Distrib.* A pantropic weed.

**Solanum** TOURNEFORT

**Solanum guamense** MERR. in Philip. Journ. Sci. 9 (1914) Bot. 139; KANEHIRA l. c. 348.

*Solanum saipanense* BITTER in ENGL. l. c. 56 (1921) 559. Saipan 1009, Tinian 1063, Rota 1823. In strand forests. *Distrib.* The type from Guam, endemic.

**Solanum mariannense** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 126.

Rota, HOSOKAWA 7628. *Distrib.* Endemic.

**Solanum Melongena** LINN. Sp. Pl. (1753) 186; VOLKENS l. c. 474; MERR. l. c. 139.

Yap, Guam. *Distrib.* Cultivated in all warm countries. *Jap. name*: Nasubi.

**Solanum nigrum** LINN. Sp. Pl. (1753) 186; MERR. l. c. 139.

Guam. *Distrib.* Temperate and tropical regions of both hemispheres. *Jap. name*: Inuhôzuki.

**Solanum verbascifolium** LINN. Sp. Pl. (1753) 184; DUNAL in DC. Prodr. 13, 1 (1852) 114; MIQ. Fl. Ind. Bat. 2 (1857) 640; C. B. CLARKE in HOOK. f. Fl. Brit. Ind. 4 (1883) 230.

Palau Peliliu 2430, 2435. In thickets. *Distrib.* Pantropic. *Jap. name:* Yanbaru-nasubi.

**Solanum Wendlandii** HOOK. f. in CURTIS'S Bot. Mag. (1887) t. 6914. Palau Korrer 3352 (NISIDA). Cultivated. A native of Central America. Identified by Dr. MERRILL.

### Scrophulariaceae

#### **Angelonia** HUMBOLDT et BONPLAND

**Angelonia gardneri** HOOK. in CURTIS'S Bot. Mag. (1840) t. 3754. Ponape Metaranium 775; Kusai 1465. Cultivated. *Distrib.* A native of Brazil.

#### **Bacopa** AUBLET

**Bacopa monniera** (LINN.) WETTS. in ENGL. & PRANTL, Nat. Pflanzenf. **4**, 3 b (1891) 77; MERR. l. c. 140; SCHLTR. in ENGL. Bot. Jahrb. **56** (1921) 572.

*Gratiola monniera* LINN. Cent. Pl. **2** (1756) 120.

Guam. *Distrib.* Tropics of both hemispheres. *Jap. name:* Otome-azena.

#### **Ilysanthes** RAFINESQUE

**Ilysanthes antipoda** (LINN.) MERR. Interpret. Herb. Amb. (1917) 467.

*Ruellia antipoda* LINN. Sp. Pl. (1753) 635.

*Bonnaya vernicaefolia* SPRENG. Syst. **1** (1825) 42; MERR. l. c. 140.

*Ilysanthes vernicifolia* URB. Deutsch. Bot. Ges. **2** (1884) 436; VOLKENS l. c. 474; SCHLTR. l. c. **56** (1921) 574.

Yap (VOLKENS), Truk (KRÄMER), Palau (LEDERMANN); Guam (THOMPSON). *Distrib.* Widely distributed in tropical Asia and Malaya. *Jap. name:* Suzumeno-tôgarasi.

#### **Limnophila** R. BROWN

**Limnophila fragrans** (FORST f.) SEEM. Fl. Vit. (1865) 180; MERR. l. c. 140; SCHLTR. in ENGL. l. c. **56** (1921) 670.

*Ruellia fragrans* FORST. f. Prodr. (1786) 44.

Guam (GAUDICHAUD), Palau (RAYMUND, LEDERMANN); Yap (VOLKENS); Palau 2053. *Distrib.* Luzon to Australia and Polynesia.

**Limnophila fragrans** var. **brevis** SCHLTR. in ENGL. I. c. **56** (1921) 571.

Palau KORFOR (LEDERMANN). *Distrib.* Endemic.

**Limnophila indica** (LINN.) MERR. in Philip. Journ. Sci. **9** (1914) Bot. 140; SCHLTR. I. c. 571.

*Hottonia indica* LINN. Syst. ed. 10 (1759) 919.

Guam (GAUDICHAUD). *Distrib.* Tropical Africa and Asia to Australia.

**Limnophila indica** var. **Raymundi** SCHLTR. in ENGL. I. c. 571.

Palau KORFOR (RAYMUND). *Distrib.* Endemic.

**Limnophila sessiliflora** Bl. Bijdr. (1826) 750; MERR. I. c. 141; SCHLTR. I. c. 572.

Guam (GAUDICHAUD, THOMPSON). *Distrib.* Tropical Asia and Malaya.  
*Jap. name:* Nankin-sisogusa.

#### **Lindernia** ALLIONI

**Lindernia crustacea** (LINN.) F. MUELL. Census (1882) 97; VOLKENS I. c. 474; SCHLTR. I. c. **56** (1921) 572.

*Capraria crustacea* LINN. Mant. **1** (1767) 87.

Yap (VOLKENS). *Distrib.* Throughout the Old World Tropics, introduced in the New World. *Jap. name:* Takasago-azena.

**Lindernia pusilla** (THUNB.) MERR. in Philip. Journ. Sci. **11** (1916) Bot. 312, Sp. Blancoanae (1918) 347; SCHLTR. I. c. 573.

*Selago pusilla* THUNB. Prodr. Pl. Cap. (1794-1800) 99.

**Lindernia scabra** WETTS. in ENGL. & PRANTL, Pflanzenf. **4**, 3 b (1891) 79; VOLKENS I. c. 474.

Yap (VOLKENS), Ponape (LEDERMANN). A common weed in cultivated soil. *Distrib.* India to Africa, China, Formosa, Malaya and Polynesia. *Jap. name:* Zarame-kiurigusa.

**Lindernia pyxidaria** (MAX.) ALL. Mis. Taur. **3** (1755) 178; SCHLTR. I. c. 573.

**Vandellia pyxidaria** MAX. in Bull. Acad. Pétersb. **20** (1875) 449; MERR. I. c. 141. Guam (THOMPSON). *Distrib.* Southern Europe to Polynesia. *Jap. name:* Azena.

#### **Scoparia** LINNAEUS

**Scoparia dulcis** LINN. Sp. Pl. (1753) 168; SCHLTR. in ENGL. I. c. **56** (1921) 575.

Ponape (LEDERMANN). A ubiquitous weed. *Distrib.* A native of tropical America, now pantropic. *Jap. name*: Seitaka-kanabikisô.

### **Torenia** D. DON

**Torenia polygonoides** BENTH. *Scroph. Ind.* (1835) 39, SCHLTR. in ENGL. l. c. 572.

Palau Ngarsul (LEDERMANN). *Distrib.* India to the Malay Peninsula, Borneo and Philippines.

### **Bignoniaceae**

#### **Dolichandrone** FENZEL

**Dolichandrone spathacea** (LINN. f.) K. SCHUM. *Fl. Kaiser Wilhelmsl.* (1889) 123; VOLKENS l. c. 475; KANEHIRA l. c. 45 (1931) 348, *Fl. Micr.* (1933) 346, f. 179.

*Bignonia spathacea* LINN. f. *Suppl.* (1781) 283.

Palau Korrer 132, Marikyoku 380, 2032; Yap 1191. Common along the seashore. *Distrib.* India through Malaya to New Guinea. *Nat. name*: "riu" (Palau and Yap).

### **Pedaliaceae**

#### **Sesamum** LINNAEUS

**Sesamum orientale** LINN. *Sp. Pl.* (1753) 634; MERR. l. c. 141.

Guam. *Distrib.* A native of tropical Asia, now cultivated in all warm countries. *Jap. name*: Goma.

### **Gesneriaceae**

#### **Cyrtandra** FORSTER

**Cyrtandra kusaiana** HOSOKAWA in *Trans. Nat. Hist. Soc. Formos.* 24 (1934) 203.

Kusai HOSOKAWA 6288. *Distrib.* Endemic.

**Cyrtandra palawensis** SCHLTR. in ENGL. *Bot. Jahrb.* 56 (1921) 577. Palau Aimiriik 274, 1963, 2350. In primary forests at low altitudes. *Distrib.* The type from Palau, endemic. *Nat. name*: "melgee" (Palau). The leaves are used by the natives for chewing when the betle leaves unavailable.

**Cyrtandra ponapensis** KANEHIRA in *Bot. Mag. Tokyo* 46 (1932) 492, *Fl. Micr.* 348, f. 180.

*Cyrtandra Urvillei* (non C. B. CLARKE) SCHLTR. l. c. 576, pro parte. Ponape 831! 1550, 1606, 1642! In primary forests at the top of the island. *Distrib.* Endemic.

**Cyrtandra Urvillei** C. B. CLARKE in DC. Prodr. Cotin. **5** (1883) 251; SCHLTR. l. c. 576; KANEHIRA Fl. Micr. 351, f. 182. Kusai Hinkoln-zan 1357, 1381. In primary forests at the higher part of the mountain, at about 580-650 m altitudes. *Distrib.* The type from Kusai, endemic.

#### **Protoxyrtandra** HOSOKAWA

**Protoxyrtandra todaiensis** (KANEHIRA) HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 202.

*Cyrtandra todaiensis* KANEHIRA Fl. Micr. (1933) 349, f. 181 nom. seminud. et in Bot. Mag. Tokyo **47** (1933) 679.

Palau Korrer, Tôdai-yama 1854! In dense wet jungles at about 150 m altitude.

#### **Lentibulariaceae**

##### **Utricularia** LINNAEUS

**Utricularia bifida** LINN. Sp. Pl. (1753) 18; MERR. l. c. 141.

Guam; Palau Kamset 525. *Distrib.* India to Japan, Malaya, Philippines, and the Moluccas. *Jap. name:* Mimikakigusa.

#### **Acanthaceae**

##### **Acanthus** TOURNEFORT

**Acanthus ebracteatus** VAHL Symb. **2** (1791) 75, t. 40.

Palau Korrer 187, Garamiscan 553, Marikyoku 2037. In thickets along tidal streams. *Distrib.* Andamann Island to Indo-China, Malay Peninsula and Archipelago to Philippines and New Guinea. *Nat. name:* "korir" (Palau). The plant is used by the natives for medicine.

##### **Asystasia** BLUME

**Asystasia gangetica** (LINN.) T. ANDERS. in THWAITES Enum. Pl. Zeyl. (1859-64) 235.

*Justicia gangetica* LINN. Amoen. Acad. **4** (1759) 299.

Palau Angaur 589. In thickets. *Distrib.* Tropical Africa, Asia, Philippines and Malaya.

**Barleria** LINNAEUS

**Barleria cristata** LINN. Sp. Pl. (1753) 636; MERR. l. c. 141.  
Saipan 1076; Ponape, Kolonia 1579. Planted. *Distrib.* A native of  
India, now cultivated in many tropical countries.

**Blechum** P. BROWNE

**Blechum pyramidatum** (LAM.) URB. in FEDDE Reppert. **15** (1918)  
323.

*Barleria pyramidalis* LAM. ex NEES in DC. Prodr. **11** (1847) 243.

*Blechum Brownei* JUSS. in Ann. Mus. Hist. Nat. Paris **9** (1807)  
270; VOLKENS l. c. 475; MERR. l. c. 141.

Gam; Yap; Palau Korrer 213; Ponape Kolonia 864; Saipan 939;  
Saligan 2167. *Distrib.* East India; now naturalized in many  
warm countries.

**Graptophyllum** NEES

**Graptophyllum pictum** (LINN.) GRIFF. Notul. **4** (1854) 139; MERR.  
l. c. 142.

*Justicia picta* LINN. Sp. Pl. ed 2 (1762) 21.

Ponape Metaranium 790. Planted. *Distrib.* Old World Tropics,  
introduced in the New World.

**Hemigraphis** NEES

**Hemigraphis pacifica** HOSOKAWA in Trans. Nat. Hist. Soc. Formos.  
**25** (1935) 127.

Palau, Korrer, HOSOKAWA 7400! 463 (KANEHIRA). *Distrib.* Endemic.

**Hemigraphis palauana** HOSOKAWA l. c. 127.

Palau Babeldaob. HOSOKAWA 7179. *Distrib.* Endemic.

**Pseuderanthemum** RADLKOEFER

**Pseuderanthemum reticulatum** (Hort.) comb. nov.

*Eranthemum reticulatum* Hort. ex Gard. Chron. **1** (1875) 619.

Saipan 1077. Planted in hedges. *Distrib.* Polynesia.

**Pseuderanthemum** sp. nov. ?

Palau Garamiscan 561. In thickets.

**Ruellia** PLUMIER

**Ruellia repens** LINN. Mant. **1** (1769) 89.

Saipan 940. In open grasslands. *Distrib.* Burma to China and Malaya. *Jap. name*: Ruirasô.

**Thunbergia** LINNAEUS

**Thunbergia alata** BOJ. in HOOK. Exct. Fl. (1823-27) t. 177; MERR. l. c. 142.

Guam. *Distrib.* A native of tropical Africa, now naturalized in many other tropical countries.

**Myoporaceae**

**Myoporum** BANKS & SOLANDER

**Myoporum tenuifolium** FORST. f. Prodr. 44.

Rota 1819; Tinian 1051, 1071. In thickets along the seashore. *Distrib.* Australia to New Calendonia.

**Rubiaceae**

**Amaracarpus** BLUME

**Amaracarpus carolinensis** VAL. in ENGL. Bot. Jahrb. **63** (1930) 318; KANEHIRA in Bot. Mag. **49** (1935) 274.

Palau 2475, Truk 1289. *Distrib.* The type from Korrer, Palau, endemic. The specimen compared with the type.

**Amaracarpus carolinensis** var. **squarrosa** VAL. l. c. 319; KANEHIRA l. c. 274.

Ponape Kolonia 655, 1506; Kusai 1390; Truk 1297. The plant was compared with the type LEDERMANN 13267. *Distrib.* The type from Ponape, endemic.

**Amaracarpus heteropoides** VAL. l. c. 320.

Kusai 1390, 1442. *Distrib.* The type from Ponape, endemic.

**Amaracarpus hirtellus** VAL. l. c. 320; KANEHIRA l. c. 275.

Ponape Nânaraut-zan 1619. In primary forests at about 450-500 m altitudes. *Distrib.* The type from Ponape, endemic.

**Amaracarpus Kanehirae** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 35.

*Amaracarpus kusaiensis* KANEHIRA l. c. 276. f. 26.

Kusai 1339! In primary forests at about 300 m alt. *Distrib.* Endemic.

**Amaracarpus Kraemeri** VAL. l. c. 319; KANEHIRA l. c. 275.

Ponape 655! In primary forests. *Distrib.* The type from Truk, endemic. The specimen compared with the type.

**Amaracarpus macrophylla** VAL. l. c. **63** (1930) 317, KANEHIRA in Bot. Mag. Tokyo **49** (1935) 276.

Ponape 1671. In primary forests at about 600-700 m altitudes. The specimen compared with the type KRAEMER 31.

*Distrib.* The type from Ponape and Truk (Tol?), endemic.

**Amaracarpus mariannensis** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 926.

Aramagan 2186. In the bushy jungle near the crater of Aramagan, Marianne Islands. *Distrib.* Endemic.

**Amaracarpus rotensis** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 35.

*Psychotria ladronica* HOSOKAWA in Jour. Soc. Trop. Agr. **6** (1934). 669, *nom. nud.*

*Amaracarpus ladronicus* HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 269.

Rota HOSOKAWA 7614! 8675! *Distrib.* Endemic.

#### **Badusa** A. GRAY

**Badusa palauensis** VAL. in ENGL. Bot. Jahrb. **63** (1930) 299; KANEHIRA l. c. **45** (1931) 348.

Palau, a coral island near Korror 216, 1893, 2406, 2478, Tôdaiyama 1856. In coral rock. *Distrib.* The type from Palau, endemic.

#### **Bikkia** REINWARDT

**Bikkia mariannensis** BROGN. in Bull. Bot. Fr. **13** (1866) 42; MERR. l. c. 142; VAL. in ENGL. l. c. **63** (1930) 289; KANEHIRA l. c. **45** (1931) 348, Fl. Micr. 355, f. 184 F.

*Bikkia longicarpa* VAL. l. c. 289.

Saipan 1033, Rota 1744, 1822. *Distrib.* The type from Guam. The type locality of *Bikkia longicarpa* VAL. is Rota.

**Bikkia palauensis** VAL. l. c. **63** (1930) 288, KANEHIRA l. c. 348, Fl. Micr. 354, f. A-E.

Palau Korror 222, 246, 369, 1857, 1892, 2411, 2450, 2779. In thickets and rocky reefs along the seashore. *Distrib.* The type from Palau, endemic.

**Canthium** LAMARCK

**Canthium korrense** (VAL.) KANEHIRA in Bot. Mag. Tokyo **46** (1932) 671.

*Plectronia korrensis* VAL. in ENGL. Bot. Jahrb. **63** (1930) 311.

Ponape 1482, 1489, 1497, 1520, 1523, 1546, 1653. In primary forests between Kolonia and Parkier at altitudes 100-250 m. *Distrib.* Endemic. The type from Ponape (not Korrer, Palau).

**Canthium oblongum** (VAL.) KANEHIRA l. c. 671.

*Plectronia oblonga* VAL. l. c. 310.

*Geniostoma niinoanense* KANEHIRA in Bot. Mag. Tokyo **45** (1931) 341.

Ponape Niionani-zan 798, Parkier 1699. In primary forests at medium altitudes. *Distrib.* The type from Ponape, endemic.

**Canthium polyneurum** (VAL.) KANEHIRA l. c. **46** (1932) 672, **49** (1935) 274, Phot. 3.

*Plectronia polyneura* VAL. l. c. 309; KANEHIRA in Bot. Mag. Tokyo **48** (1935).

*Psychotria Merrillii* KANEHIRA l. c. **46** (1932) 674.

Ponape Niinoani-zan 843, Nanaraut-zan 1605, 1618, 1661. In dense primary forests at 4-500 m altitudes. *Distrib.* Endemic.

**Canthium tinianense** (KANEHIRA) KANEHIRA in Bot. Mag. Tokyo **49** (1935) 354.

*Randia tinianensis* KANEHIRA l. c. **46** (1932) 494.

*Canthium odoratum* (non SEEM.) KANEHIRA Fl. Micr. (1933) 375, f. 186.

Tinian 50, 1059, 1069, 2275; Rota 1745 B. In primary forests along the seashore. *Distrib.* So far known only from Tinian and Rota.

**Canthium Valetonii** (VAL.) KANEHIRA l. c. **46** (1932) 671.

*Plectronia obovata* VAL. l. c. 311, non *Canthium obovatum* KLOTZSCH in ECKL. et ZEYH. Enum. (1834-37) 361.

*Distrib.* Endemic, the type from Ponape. This is very likely a synonym of *C. polyneurum*.

**Canthium verticillatum** (VAL.) KANEHIRA l. c. **46** (1932) 672.

*Plectronia verticillata* VAL. 312.

Palau: Armatin 473, Korrer 332 b, 336, Arumonogui 2086, 2773.  
*Distrib.* Endemic, the type from Palau.

**Borreria** C. F. W. MEYER

**Borreria hispida** (LINN.) K. SCHUM. in ENGL. & PRANTL Nat. Pflanzenf. **4**, 4 (1891) 144; VOLKENS l. c. 477; VAL. l. c. **63** (1930) 323.

*Spermacoce hispida* LINN. Sp. Pl. (1753) 102.

Yap (VOLKENS). *Distrib.* India to China, Formosa, Philippines and Malaya. *Jap. name*: Hari-hutaba.

**Borreria ocymoides** (BURM. f.) DC. Prodr. **4** (1830) 544; VAL. l. c. 322.

*Spermacoce ocymoides* BURM. f. Fl. Ind. (1768) 34, t. 13, f. 1.

Yap (VOLKENS). *Distrib.* Tropical Africa, Asia and Malaya.

**Borreria rotundifolia** VAL. in ENGL. l. c. 323.

Ponape, Paillapalap (LEDERMANN). *Distrib.* The type from Ponape, endemic.

**Coffea** LINNAEUS

**Coffea arabica** LINN. Sp. Pl. (1753) 172.

Ponape Kolonia 1599. Planted. *Distrib.* A native of Africa, now widely scattered in cultivation. Cultivated in Saipan. Coffee.

**Gardenia** ELLIS

**Gardenia augusta** (LINN.) MERR. Interpret. Herb. Amb. (1917) 485.  
*Varneria augusta* LINN. Amoen. Acad. **4** (1759) 136.

Kusai Moto 1423. Planted. *Distrib.* A native of southern China. Widely cultivated for ornamental purposes, but nowhere spontaneous. *Jap. name*: Korin-Kutinasi.

**Geophila** D. Don

**Geophila herbacea** (JACQ.) O. KTZE. Rev. Gen. Pl. (1891) 300; MERR. l. c. 143.

*Psychotria herbacea* JACQ. Enum. Pl. Carib. (1760) 16.

*Geophila reniformis* D. DON Prodr. Fl. Nepal. (1825) 136; VAL. in ENGL. l. c. **63** (1930) 316.

Ponape Kolonia 743; Kusai 1396. In forests at low altitudes. *Distrib.* Pantropic. *Jap. name*: Aoimodoki.

**Guettarda** LINNAEUS

**Guettarda speciosa** LINN. Sp. Pl (1753) 991; VOLKENS l. c. 475; MERR. l. c. 143; VAL. in ENGL. l. c. **63** (1930) 304; KANEHIRA l. c. 348, Fl. Micr. 358, f. 187.

Saipan 3, 978; Tinian 1062; Palau Korrer 99, 1911, 2477; Kusai 1411; Rota 1738. In forests and thickets along the seashore. *Distrib.* Paleotropic. *Nat. name*: "Kenrak." *Jap. name*: Simahabiro.

**Gynochthodes** BLUME

**Gynochthodes ovalifolia** (VAL.) KANEHIRA in Bot. Mag. Tokyo **46** (1931) 351.

*Plectronia ovalifolia* VAL. in ENGL. l. c. **63** (1930) 310.

Palau, a coral island 235, Korrer 332, 2472. In thickets and primary forests. *Distrib.* Endemic.

**Hedyotis** LINNAEUS

**Hedyotis aimiriikensis** KANEHIRA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 4. f. 3.

Palau 2369! In thickets at low altitudes. *Distrib.* Endemic.

**Hedyotis cornifolia** KANEHIRA l. c. 5. f. 6.

Palau 2088! In open waste fields. *Distrib.* Endemic.

**Hedyotis divaricata** (VAL.) HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 204.

*Oldenlandia divaricata* VAL. in ENGL. l. c. 292.

Palau Korrer (LEDERMANN). *Distrib.* Endemic.

**Hedyotis fruticulosa** (VOLKENS) MERR. in Philip. Journ. Sci. **15** (1919) Bot. 544.

*Oldenlandia fruticulosa* VOLKENS l. c. 475; VAL. l. c. **63** (1930) 293.

Palau Marikyoku 394; Yap 1126. In open grasslands at low altitudes. *Distrib.* The type from Yap, endemic.

**Hedyotis korrensis** (VAL.) HOSOKAWA l. c. 204.

*Oldenlandia korrensis* VAL. l. c. 294.

Palau Korrer 394. *Distrib.* The type from Korrer, Palau, endemic.

**Hedyotis korrensis** var. **mollis** (VAL.) HOSOKAWA l. c. 204.

*Oldenlandia korrensis* var. *mollis* VAL. l. c. 295.

Palau, Korrer, 394. *Distrib.* Endemic.

**Hedyotis laciniata** (non *lacinata*) KANEHIRA l. c. 6, f. 7.

*Hedyotis alamaganensis* HOSOKAWA in Trans Nat. Hist. Soc. Formos.  
25 (1935) 37.

Aramagan 2181! In thickets at about 200 m altitudes. *Distrib.*  
Endemic.

**Hedyotis lutescens** KANEHIRA l. c. 4, f. 4.

Palau 1980! In open grasslands. *Distrib.* Endemic.

**Hedyotis mariannensis** MERR. in Philip. Journ. Sci. 9 (1914) Bot.  
114.

*Oldenlandia mariannensis* (MERR.) VAL. l. c. 296.

Saipan 1030; Aramagan 2184; Rota 1733, 1815. In thickets. *Dis-*  
*trib.* The type from Guam, endemic.

**Hedyotis megalantha** MERR. l. c. 143.

*Oldenlandia megalantha* (MERR.) VAL. l. c. 298.

Guam. *Distrib.* Known only from Guam.

**Hedyotis plurifurcata** HOSOKAWA l. c. 203.

Palau, Ruis Arumonogui HOSOKAWA 6834. *Distrib.* Endemic.

**Hedyotis ponapensis** (VAL.) KANEHIRA Fl. Micr. (1933) 463.

*Oldenlandia ponapensis* VAL. l. c. 296.

Ponape Niinoani-zan 823, Nânaraut-zan 1611, 1640. In forests at  
high altitudes. *Distrib.* Endemic.

**Hedyotis sariganensis** HOSOKAWA in Trans. Nat. Hist. Formos. 25.  
(1935) 36.

Sarigan HOSOKAWA 7888! *Distrib.* Endemic.

**Hedyotis scabridifolia** KANEHIRA l. c. 7, f. 8.

*Hedyotis saipanensis* HOSOKAWA in Trans. Nat. Hist. Soc. Formos.  
25 (1935) 37.

Saipan 45! In open grasslands. *Distrib.* Endemic.

**Hedyotis tomentosa** (VAL.) HOSOKAWA l. c. 204.

*Oldenlandia tomentosa* VAL. l. c. 292.

Palau 120, 2108, 2043. The type from Palau. *Distrib.* Endemic.

**Hedyotis uncinelloides** (VAL.) HOSOKAWA l. c. 204.

*Oldenlandia uncinelloides* VAL. l. c. 295.

East Carolines, Station Leperei (LEDERMANN). *Distrib.* Endemic.

**Hedyotis verticillata** (LINN.) LAM. Tab. Encycl. **1** (1791) 271.

*Oldenlandia verticillata* LINN. Mant. **1** (1767) 40.

Palau Marikyoku 489. In open grasslands at medium altitudes.

*Distrib.* India to southern China, Philippines and Malaya. *Jap. name*: Ke-nioigusa.

**Hedyotis yapensis** KANEHIRA l. c. 5. f. 5.

Yap 1230. In thickets at waste fields. *Distrib.* Endemic.

### **Hydonophytum** JACK

**Hydonophytum Horneanum** BECC. in Malesia **2** (1884-6) 168, t. 43, f. 15-25; Val. l. c. 321.

Palau (KRAEMER). *Distrib.* Polynesia, the type from Fiji.

### **Ixora** LINNAEUS

**Ixora amplexifolia** LAUT. et K. SCHUM. in ENGL. Bot. Jahrb. **63** (1930) 312.

Truk Moen 1702 (fr.) *Distrib.* The type from Tol, Truk, endemic.

**Ixora carolinensis** (VAL.) HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1985) 268.

*Ixora confertiflora* VAL. l. c. 313; KANEHIRA l. c. 349, Fl. Micr. 362, f. 189.

Palau 125, 284, 1914, 1848, 2034, 2360; Ponape 636, 1469; Kusai 1311, 1323. The type from Palau. *Distrib.* Endemic.

**Ixora carolinensis** var. *parviflora* HOSOKAWA l. c. 268.

*Ixora confertiflora* var. *parviflora* HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 204.

Palau 515. *Distrib.* Endemic.

**Ixora triantha** VOLKENS l. c. 476; MERR. l. c. **9** (1914) Bot. 145; KANEHIRA l. c. 349, Fl. Micr. 363, f. 190.

Yap 1127, 1167. In forests at low and medium altitudes. *Distrib.* The type from Yap, otherwise known only from Guam.

**Ixora Volkensii** (VOLKENS) HOSOKAWA l. c. 259.

*Ixora pulcherrima* VOLKENS in ENGL. Bot. Jahrb. **31** (1901) 476; KANEHIRA l. c. 349, Fl. Micr. (1933) 360, f. 188.

Yap 1093, 1122, 1185. In thickets and primary forests at low and medium altitudes. *Distrib.* The type from Yap, endemic.

***Ixora Volkensii* var. *lanceolata* KANEHIRA *nom nov.***

*Ixora pulcherrima* var. *lanceolata* KANEHIRA Fl. Micr. 361.

Yap 1092. The leaves lanceolate and much smaller than the species.

*Distrib.* Endemic.

### **Morinda** LINNAEUS

***Morinda citrifolia* Sp. Pl. (1753) 176; VOLKENS l. c. 477; MERR. l. c. 145; KOIDZ. in Bot. Mag. Tokyo 29 (1915) 255; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 350, Fl. Micr. 364, f. 191.**

Tipian 54; Palau Korrer 180; Ponape Kolonia 705; Saipan 1027; Kusai 1315. Very common along the seashore. *Distrib.* India to Polynesia. *Nat. names:* "woipel" (Ponape), "lada" (Saipan and Rota), "alin" (Truk), "e" (kusai). *Jap. name:* Yaeyama-aoki.

***Morinda glandulosa* MERR. l. c. 146; KANEHIRA l. c. 350, Fl. Micr. 365, f. 192.**

Saipan 10, 926, 2223, 2241. In forests at medium altitudes. *Distrib.* The type from Guam, endemic.

***Morinda latibracteata* VAL. in ENGL. l. c. 63 (1930) 321; KANEHIRA l. c. 350, Fl. Micr. 366, f. 193.**

Palau, a coral island 214, 1866, 1887. In primary forests. *Distrib.* The type from Palau, endemic.

***Morinda pedunculata* VAL. in ENGL. l. c. 63 (1930) 322; KANEHIRA l. c. 350, Fl. Micr. 367, f. 194.**

Palau 409, 504, 1864, 1927, 2322. In forests at low altitudes. *Distrib.* The type from Palau, endemic.

***Morinda volubilis* (BLANCO) MERR. in Philip. Journ. Sci. 1 (1906) Suppl. 137, Sp. Blancoanae (1918) 369; KANEHIRA Fl. Micr. (1834) 368, f. 195.**

*Coffea volubilis* BLANCO Fl. Filip (1837) 157.

Ponape Kity 1527. In primary forests at medium altitudes. *Distrib.* Philippines.

### **Mussaenda** LINNAEUS

***Mussaenda sericea* BL. Bijdr. (1826) 919; VAL. in ENGL. l. c. 63 (1930) 300; KANEHIRA l. c. 351.**

*Mussaenda frondosa* (non LINN.) VOLKENS l. c. 475.

Palau Korror 90, 1993; Yap 1100, 1157, 1177. *Distrib.* Moluccas.  
*Nat. name*: "ereroi" (Palau).

**Mycetia** REINWARDT

**Mycetia lateriflora** BL. Bijdr. (1826) 988; VAL. in ENGL. l. c. 63  
(1930) 301.

Palau Babeldaob (LEDERMANN). *Distrib.* Java, Philippines to Malay  
Peninsula.

**Oldenlandia** LINNAEUS

**Oldenlandia albido-punctata** MERR. in Philip. Journ. Sci. 9 (1914)  
Bot. 147; VAL. l. c. 297.

Saipan 1031, Anatahan 2152. Along the seashore. *Distrib.* The  
type from Guam; endemic.

**Oldenlandia auricularia** (LINN.) F.-MUELL. Census (1882) 47; VOL-  
KENS l. c. 475; VAL. l. c. 297.

*Hedyotis auricularia* LINN. Sp. Pl. (1753) 101.

Yap (VOLKENS) *Distrib.* India to southern China through Malaya  
to Australia.

**Oldenlandia biflora** LINN. Sp. Pl. (1753) 119; MERR. l. c. 146.

**Oldenlandia paniculata** LINN. Sp. Pl. ed 2 (1763) 1667; VOLKENS  
l. c. 475; VAL. l. c. 297.

Palau, a coral island 229, 2016, 2402. On coral rock. *Distrib.* India  
to China, Malaya, and Polynesia. *Jap. name*: Sima-sonare-  
mugura.

**Oldenlandia corymbosa** LINN. Sp. Pl. (1753) 119; MERR. l. c. 146;  
VAL. l. c. 297.

Ponape (LEDERMANN). *Distrib.* Pantropic, but probably a native of  
the Old world. *Jap. name*: Tamazaki-hutabamugura.

**Oldenlandia herbacea** (LINN.) ROXB. Fl. Ind. 1 (1820) 445; VOL-  
KENS l. c. 475; VAL. 297.

*Hedyotis herbacea* LINN. Sp. Pl. (1753) 102.

Yap (VOLKENS). *Distrib.* Tropical Africa and Asia to Malaya.

**Oldenlandia vestita** (BR.) DRAKE in Journ. Bot. 9 (1895) 24; VAL.  
l. c. 297.

*Hedyotis vestita* BR. in WALL. Cat. no. 874.

Palau Babeldaob (LEDERMANN). *Distrib.* Malaya.

**Ophiorrhiza** LINNAEUS

**Ophiorrhiza palauensis** VAL. in ENGL. Bot. Jahrb. **63** (1930) 298. Palau Korrör 223, 248, 1873, 1883. On coral rock. *Distrib.* The type from Korrör, endemic.

**Psychotria** LINNAEUS

**Psychotria arbuscula** VOLKENS in ENGL. l. c. **31** (1901) 476; KANEHIRA l. c. 350.

Yap 1168, 1186. In thickets and forests at medium altitudes. *Distrib.* The type from Yap, endemic.

**Psychotria diospyrifolia** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 355.

Palau 2340! In dense primary forests. *Distrib.* Endemic.

**Psychotria Gaudichaudii** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 926 f. 11.

Rota 1752, 1755; Aramagan 2194; Saligan 2159. In dense primary forests at medium altitudes. *Distrib.* Endemic.

**Psychotria lasianthoides** VAL. in ENGL. l. c. **63** (1930) 314.

Ponape Parkier 1476, 1560, 1628. In primary forests at low altitudes. *Distrib.* The type from Ponape, endemic.

**Psychotria leptothyrsa** MIQ. in Ann. Mus. Bot. Lugd.-Bat. **4** (1868-69) 208, var. **longicarpa** VAL. in ENGL. l. c. 315.

Palau 278, 1959, 2101, 2054, 2313, 2758; Yap 1187. in primary forests at low and medium altitudes. The specimens compared with the type. *Distrib.* The species in Moluccas to New Guinea, the variety endemic, the type from Palau.

**Psychotria leptothyrsoides** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 355.

Truk 1270, 1279. In dense primary forests at about 300 m altitude. *Distrib.* Known only from Truk.

**Psychotria Malaspinæ** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 148.

Guam. *Distrib.* The type from Guam, endemic.

**Psychotria mariana** BARTL. ex DC. Prodr. **4** (1830) 522; MERR. l. c. 148; VAL. l. c. 315; KANEHIRA l. c. 350, Fl. Micr. 370, f. 196.

Saipan 12, 884, 918, 1008, 2226; Tainian 53, 64, 2263, 2270, 2271; Rota 1745 A; Pagan 2205. In thickets and forests along the seashore. *Distrib.* endemic, the type from Guam.

**Psychotria mycetoides** VAL. in ENGL. l. c. 315.

Palau 458, 1880, 1909. 2329, 2476. *Distrib.* The type from Palau, (LEDERMANN), endemic.

**Psychotria palauensis** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 38.

*Psychotria rotensis* (non KANEHIRA) HOSOKAWA l. c. **24** (1934) 204. Palau HOSOKAWA 7476! *Distrib.* Endemic.

**Psychotria rhombocarpa** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 493, Fl. Micr. (1933) 372, f. 198.

Kusai 1321, 1333, 1403, 1439. In damp primary forests at medium altitudes. *Distrib.* Endemic.

**Psychotria rotensis** KANEHIRA Fl. Micr. (1933) 373, f. 199, nom. seminud et in Bot. Mag. Tokyo **47** (1933) 678.

Rota 1795! 1740. In dense primary forests near the seashore.

**Psychotria rotundifolia** VAL. in ENGL. l. c. 316.

Saligan (GIBBON). *Distrib.* The type from Saligan, endemic.

#### **Randia** HOUSTON

**Randia carolinensis** VAL. in ENGL. Bot. Jahrb. **63** (1930) 301.

Truk (KRAEMER). *Distrib.* The type from Truk, endemic.

**Randia racemosa** (CAV.) F.-VILL. Novis App. (1880) 108; MERR. l. c. 149; VAL. in ENGL. l. c. **63** (1930) 302; KANEHIRA l. c. 349, Fl. Micr. 375, f. 200.

*Stylocaryna racemosa* CAV. Ic. **3** (1797) 46, t. 368.

**Randia Gräffi** REINECKE in ENGL. l. c. **15** (1898) 683; VOLKENS l. c. 475.

Palau 217, 346, 368, 520, 1913, 2000, 2461; Ponape 850, 1559; Kusai 1315; Yap 1108; Saipan 43, 922; Tinian 61, 1047; Rota 1761; Saligan 2158.

Very common in forests along the seashore. *Distrib.* Riu-kiu Islands, Formosa and southern China to Malaya and tropical Australia. *Nat. names*: "kahmant" (Ponape), "smak" (Saipan). *Jap. name*: Misao-no-ki.

**Scyphiphora** GAERTNER

**Scyphiphora hydrophyllacea** GAERTN. f. *Fruct.* **3** (1805) 91, t. 196; VOLKENS l. c. 475; VAL. in ENGL. l. c. **63** (1930) 302; KANEHIRA l. c. 349, *Fl. Micr.* 378, f. 202.

Palau Korrör 147, 333, 2078. In mangrove swamps. *Distrib.* Through Malaya to New Caledonia. *Nat. names:* "guat" or "quat" (Palau), "gause" (Yap).

**Tarenna** GAERTNER

**Tarenna glabra** MERR. in Philip. Journ. Sci **9** (1914) Bot. 149; VAL. in ENGL. l. c. **63** (1930) 304; KANEHIRA l. c. 349, *Fl. Micr.* 379, f. 203.

Saipan 889; Rota 1736, 1786, 1801. In primary forests at medium altitudes. *Distrib.* The type from Guam, endemic. *Nat. name:* "smagdara" (Saipan).

**Tarenna sambucina** (A. GRAY) LAUT. et K. SCHUM. *Fl. Deutsch. Schutzgeb. Südsee* (1901) 561; VOLKENS l. c. 475; VAL. l. c. 303; KANEHIRA l. c. 349, *Fl. Micr.* 380, f. 204.

*Stylocaryna sambucina* A. GRAY in *Proc. Am. Acad.* **4** (1859) 309. Palau, a coral island 239, 2469; Yap 1169. In thickets and forests at low altitudes. *Distrib.* Fiji Islands.

**Timonius** DE CANDOLE

**Timonius albus** VOLKENS in ENGL. Bot. Jahrb. **31** (1901) 475; VAL. *ibid.* **63** (1930) 306; KANEHIRA l. c. 350, *Fl. Micr.* 381, f. 206.

Yap 1145, 1176, 1200. In forests at low altitudes. *Distrib.* Known only from Yap, endemic.

**Timonius corymbosus** VAL. l. c. 308; KANEHIRA l. c. 350, *Fl. Micr.* 382, f. 206.

Palau Marikyoku 415! In forests at low altitudes. *Distrib.* The type from Palau, endemic.

**Timonius korrensis** KANEHIRA in *Bot. Mag. Tokyo* **45** (1931) 351, *ibid.* **49** (1935) 278, f. 27, *Fl. Micr.* 383, f. 207.

Palau Korrör 105!, 460!, 2436, 2444, 2462, 2466. In rocky shores. *Distrib.* Endemic.

**Timonius Ledermannii** VAL. l. c. 305; KANEHIRA l. c. 350, Fl. Micr. 384, f. 208.

Ponape Niinoani-zan 833, Tortom-zan 1564, 1565, Nānaraut-zan 1638, 1638. In primary forests at higher altitudes (650-720 m). *Distrib.* The type from Ponape, endemic.

**Timonius mollis** VAL. l. c. 308; KANEHIRA l. c. 351, Fl. Micr. 386, f. 209.

Palau Marikyoku 415. In thickets near Gardok Pond. *Distrib.* The type from Palau, endemic.

**Timonius nitidus** (BARTL.) F.-VILL. Novis App. Fl. Filip. (1880) 109; MERR. in Philip. Journ. Sci. **15** (1919) Bot. 544.

*Tetesia nitida* BARTL. in DC. Prod. **4** (1830) 395.

Guam. *Distrib.* Endemic. The Philippine locality cited in the original description is error (MERRILL l. c.).

**Timonius ponapensis** VAL. l. c. 306; KANEHIRA l. c. Fl. Micr. 386, f. 210.

Ponape Kolonia 652, 1490, Parkier 1510, 1521, Kity 1544, Tortom-zan 1573, Nānaraut-zan 1624. In primary forests from low to medium altitudes, endemic.

**Timonius subauritus** VAL. l. c. 307; KANEHIRA l. c. 351, Fl. Micr. 388, f. 211.

Palau 145, 505, 1928, 1932, 1962, 2055, 2069, 2284, 2323, 2344. In forests along the seashore. *Distrib.* The type from Palau, endemic.

**Timonius villosissimus** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 923. f. 9.

Palau Aimiriik 2305!, 2056 (sterile). In primary forests. *Distrib.* Endemic.

#### **Trukia** KANEHIRA

**Trukia megacarpa** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 278, f. 28.

*Timonius megacarpus* KANEHIRA l. c. **46** (1932) 494.

*Rhopalobrachium megacarpum* KANEHIRA l. c. 674.

Truk, Tol 1275, 1712, 1713. In thickets and forests, Tol, Truk Island, above 400 m altitude. *Distrib.* Endemic.

**Uncaria** SCHREBER

**Uncaria korrensis** KANEHIRA in Bot. Mag. Tokyo **48** (1934) 924, f. 10.

Palau 116, 1849!, 33181!. In thickets and forests. *Distrib.* Endemic

**Cucurbitaceae****Benicasa** SAVI

**Benicasa hispida** (THUNB.) COGN. in DC. Monog. Phan. **3** (1881) 513; MERR. l. c. 150.

*Cucurbita hispida* THUNB. Fl. Jap. (1874) 322.

Guam. Cultivated. *Distrib.* Cultivated in the tropics of both hemispheres. *Jap. name:* Tôgan.

**Cucumis** TOURNEFORT

**Cucumis Melo** LINN. Sp. Pl. (1753) 1011; VOLKENS l. c. 477.

Yap (VOLKENS). *Distrib.* Cultivated in all warm countries. The common melon. *Jap. name:* Makuwa-uri.

**Cucumis sativus** LINN. Sp. Pl. (1753) 1012; MERR. l. c. 151.

Guam. *Distrib.* Cultivated in all warm countries. *Jap. name:* Kiuri.

**Cucurbita** TOURNEFORT

**Cucurbita maxima** DUCH. in LAM. Encycl. **2** (1786) 151; MERR. l. c. 151,

Guam. *Distrib.* Cultivated in all warm countries. *Jap. name:* Taiwan-kabotya.

**Cucurbita Pepo** LINN. Sp. Pl. (1753) 1010; VOLKENS l. c. 477.

Yap. *Distrib.* A native of tropical Africa.

**Lagenaria** SERINGE

**Lagenaria leucantha** (DUCH.) RUSBY in Mem. Torr. Bot. Club. **6** 43; MERR. l. c. 151,

*Cucurbita leucantha* DUCH. in LAM. Encycl. **2** (1782) 150.

*Lagenaria vulgaris* SERINGE in Mém. Soc. Phys. Hist. Nat. Geneve **3** (1825) 25, DC. Prodr. **3** (1828) 299; VOLKENS l. c. 477.

Yap (VOLKENS). *Distrib.* Pantropic in cultivation. *Jap. name:* Yûgao.

**Luffa** TOURNEFORT

**Luffa cylindrica** (LINN.) ROEM. Syn. Repon. **2** (1846) 63; MERR. in Philip. Journ. Sci. **9** (1914) Bot. 151.

*Momordica luffa* LINN. Sp. Pl. (1753) 1009.

Guam. *Distrib.* Native of the tropics of the Old World, now wild or cultivated in all countries. *Jap. name*: Hetima.

**Melothria** LINNAEUS

**Melothria guamensis** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 151; HOSOKAWA in Trans Nat. Hist. Soc. Formos. **24** (1934) 205.

Guam; Ponape & Saipan (HOSOKAWA). *Distrib.* Endemic, the type from Guam.

**Momordica** TOURNEFORT

**Momordica charantia** LINN. Sp. Pl. (1753) 1009; MERR. l. c. 152.

Guam, *Distrib.* In all tropical countries. *Jap. name*: Naga-reisi.

**Campanulaceae****Isotoma** LINDLEY

**Isotoma longiflora** (MILL.) PRESL Prodr. Lobel. (1836) 42.

*Rapuntium longiflorum* MILL. Gard. Dict. ed. 8 (1768) No. 7.

Saipan 1075. In settled areas. *Distrib.* Introduced from tropical America.

**Goodeniaceae****Scaevola** LINNAEUS

**Scaevola frutescens** (MILL) KRAUSE in ENGL. Pflanzcnr. **54** (1912) 125, f. 25; DIELS in ENGL. Bot. Jahrb. **56** (1921) 561; KANEHIRA l. c. 352.

*Lobelia frutescens* MILL. Gard. Dict. ed. 8 (1768) 561.

*Scaevola Koenigii* VAHL, Symb. **3** (1794) 36.

Palau Korrer 94, 354, 2410, 2778; Tôdai-yama 1888; Kusai 1366; Yap 1135. A strand Plant. *Distrib.* India to Madagascar, through Malaya to tropical Australia and Polynesia. *Nat. name*: "kusros" (Kusai). *Jap. name*: Kusatobera.

**Scaevola frutescens** var. *sericea* (FORST.) MERR. in Philip. Journ. Sci. **7** (1912) Bot. 354.

*Scaevola sericea* FORST. Prodr. (1786) 504; PRESL Rel. Haenk. **2** (1830) 57.

Palau Angaur 598, Kusai 1366; Aramagan 2195. *Distrib.* Philippines to Polynesia.

### Compositae

#### Adenostemma FORSTER

**Adenostemma lavenia** (LINN.) O. KTZE. Rev. Gen. Pl. (1891) 304; MERR. Interpret. Herb. Amb. (1917) 497.

*Verbesina viscosum* FORST. Char. Gen. (1776) 90; VOLKENS l. c. 477; MERR. l. c. 153.

Yap (VOLKENS); Guam. In open waste places along streams. *Distrib.* Pantropic. *Jap. name*: Numa-daikon.

#### Ageratum LINNAEUS

**Ageratum conyzoides** LINN. Sp. Pl. (1753) 839; VOLKENS l. c. 477; MERR. l. c. 152; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 255.

Palau Korrer 119, 291, 347; Ponape 729; Saipan 994; Yap, Guam, Jaluit. A common weed in waste places. *Distrib.* A native of tropical America, now pantropic. *Jap. name*: Kwakkô-azami.

#### Artemisia LINNAEUS

**Artemisia vulgaris** LINN. Sp. Pl. (1753) 848; MERR. l. c. 153.

Guam. *Distrib.* All warm countries. *Jap. name*: Yomogi.

#### Blumea DE CANDOLLE

**Blumea laciniata** (ROXB.) DC. Prodr. **5** (1836) 436; MERR. in Philip. Journ. Sci. **15** (1919) Bot. 544.

*Conyza laciniata* ROXB. Hort. Beng. (1814) 61, nom. nud., WALL. Cat. (1831) No. 3100, nom. nud., Fl. Ind. ed 2, **3** (1832) 427.

Guam (MERRILL). Introduced. *Distrib.* Tropical Asia and Malaya.

**Blumea mollis** (DON) MERR. in Philip. Journ. Sci. **5** (1910) Bot. 395, **9** (1914) Bot. 153.

*Erigeron molle* D. DON Prodr. Fl. Nepal. (1825) 172.

Guam. *Distrib.* Tropical Asia and Africa through Malaya to tropical Australia and western Polynesia.

#### Chrysanthemum TOURNEFORT

**Chrysanthemum indicum** LINN. Sp. Pl. (1773) 889; MERR. l. c. 9 (1914) Bot. 153.

Guam. *Distrib.* Cultivated in all warm countries. *Jap. name:* Hama-kangiku.

#### **Eclipta** LINNAEUS

**Eclipta alba** (LINN.) HASSK. Pl. Jav. Rar. (1848) 528; VOLKENS l. c. 477; MERR. l. c. 153.

*Verbesina alba* LINN. Sp. Pl. (1753) 902.

Guam, Yap. A common weed. *Distrib.* All warm countries. *Jap. name:* Takasaburô.

#### **Elephantopus** LINNAEUS

**Elephantopus mollis** HBK. Nov. Gen. & Sp. Pl. 4 (1820) 26; MERR. l. c. 153.

Guam. *Distrib.* A native of Mexico, now widely distributed. *Jap. name:* Sirobana-ikakôzorina.

**Elephantopus scaber** LINN. Sp. Pl. (1753) 814; VOLKENS l. c. 477; MERR. l. c. 154.

Ponape Kolonia 691, Pagan 2210. In open grasslands and waste places. *Distrib.* Pantropic. *Jap. name:* Misumigusa.

**Elephantopus spicatus** AUBLET Pl. Guin. 2 (1775) 808; MERR. l. c. 154.

Saipan 932. In waste places in the settled areas. *Distrib.* A native of Mexico, now common in the Philippines and southern China. *Jap. name:* Hozaki-igakôzorina.

#### **Glossogyne** CASSINI

**Glossogyne tenuifolia** CASS. Dict. Sci. Nat. 2 (1827) 475; MERR. l. c. 154.

Yap 1224; Pagan 2212. In open waste places. *Distrib.* Southern China, Hainan, Formosa, Philippines, Australia to New Guinea.

#### **Synedrella** GAERTNER

**Synedrella nodiflora** (LINN.) GAERTN. Fruct. 2 (1791) 456, t. 171, f. 7; VOLKENS l. c. 477; MERR. l. c. 154; KOIDZ. in Bot. Mag. Tokyo 29 (1915) 255.

*Verbesina nodiflora* LINN. Amoen Acad. 4 (1759) 290.

Palau Korrer 211, Angaur 586; Truk Dublon 610; Ponape Parkier 622; Saipan 933; Pagan 2215. A ubiquitous weed in open waste places. *Distrib.* A native of America, now pantropic. *Jap. name*: Husizakiso.

### **Vernonia** SCHREBER

**Vernonia cinerea** (LINN.) LESS. in *Linnaea* **4** (1829) 291, **6** (1831) 673; VOLKENS l. c. 477; MERR. l. c. 154; KOIDZ. l. c. 255.

*Conyza cinera* LINN. Sp. Pl. (1753) 862.

Saipan 13; Palau 204, Angaur 587; Ponape Kolonia 684; Guam, Yap, Jaluit.

A common weed. *Distrib.* India, Malaya, Formosa, Philippines and western Polynesia. *Jap. name*: Reinan-nogiku.

**Vernonia pyrhopappa** SCHULZ-BIP. ex KLATT in *Flora* **68** (1885) 203; MERR. Enum. Philip. Fl. **3** (1923) 595.

*Vernonia villarii* ELM. Leaf. Philip. Bot. **7** (1915) 2593.

Palau Aimiriik 2315. In the edge of primary forests at low altitudes. *Distrib.* Philippines.

### **Wedelia** JACQUIN

**Wedelia argentea** (GAUDICH.) MERR. in *Philip. Journ. Sci.* **9** (1914) Bot. 155; HOSOKAWA in *Trans. Nat. Hist. Soc. Formos.* **24** (1934) 205.

*Verbesina argentea* GAUDICH. Bot. Freyc. Voy. (1826) 463.

Guam; Palau (HOSOKAWA). *Distrib.* The type from Guam, endemic.

**Wedelia biflora** (LINN.) DC. in *WIGHT Contrib. Bot. Ind.* (1834) 18; VOLKENS l. c. 477; MERR. l. c. 154; KOIDZ. l. c. 255.

*Verbesina biflora* LINN. Sp. Pl. ed. 2 (1763) 1272.

Palau Korrer 199; Ponape Kolonia 674; Kusai 1317; Jaluit; Yap; Guam. In thickets at low altitudes. *Distrib.* India to China, Malaya, Philippines, tropical Australia and western Polynesia. *Jap. name*: Sima-hamaguruma.

**Wedelia canescens** (GAUDICH.) MERR. in *Philip. Journ. Sci.* **9** (1914) Bot. 155; HOSOKAWA l. c. 205.

*Verbesina canescens* GAUDICH. Bot. Freyc. Voy. (1826) 463.

Saipan 35; Saligan 2165. In open waste grasslands. *Distrib.* The type from Guam, endemic.

### Additions and corrections

#### Cyperaceae

- Cyperus siberianus** K. SCHUM., K. SCHUM. et K. LAUTERB. Fl. Deutsch. Schutzg. Südsee (1901) 193; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 261.  
Tinian HOSOKAWA. *Distrib.* India. Malaya to New Guinea.
- Fimbristylis cymosa** var. **microcephala** F. B. H. BR. Fl. South-eastern Polyn. (B. P. Bishop Mus. Bull. 84) (1931) 104; HOSOKAWA l. c. 262.  
Alamagan HOSOKAWA. *Distrib.* Southeastern part of Polynesia.
- var. **polycephala** (HILLEBR.) KÜKENTH. in F. B. H. BR. l. c. 104; HOSOKAWA l. c. 262.  
Tinian HOSOKAWA. *Distrib.* Hawaiian Islands.
- Schoenus mariannae** HOSOKAWA l. c. 263.  
Alamagan HOSOKAWA. *Distrib.* Endemic.
- Rhyncospora ponapensis** HOSOKAWA l. c. 263.  
Ponape HOSOKAWA. *Distrib.* Endemic.
- Scleria sumatrensis** Retz. Obs. **5** (1789) 19, t. 2; MERR. Enum. Philip. Fl. Pl. **1** (1922) 135; HOSOKAWA l. c. 264.  
Palau HOSOKAWA. *Distrib.* India to Sumatra, Java, Borneo and Philippines.

#### Palmae

- ? **Cyphophoenix carolinensis** KANEH. et HATUSIMA in sched.  
*Heterospathe palauensis* (non. BECC.) KANEHIRA Fl. Micr. (1933) 76, f. 12 (*carolinensis* is [misprint]), pro parte.  
Palau Korrer 1904. A genus known only from New Caledonia. *Distrib.* Endemic.
- Heterospathe palauensis** BECC. in ENGL. Jahrb. 52 (1914) 4.  
Palau: Aimiriik 2438 NISIDA Aug. 1933, Arumonogui 2093. The type from Palau. *Nat. name*: "domaile" (Palau).
- Ponapea Hosinoi** KANEHIRA in sched.  
Ponape 3704! HOSINO Sept. 1935. Leaflets up to 23 cm wide, fruits ovoid, 2.5 cm long, 2 cm wide, apiculate at the apex, slightly

distorted. Differs from *Ponapea Ledermanni* BECC. by its much smaller fruits and larger leaflets. *Distrib.* Endemic.

***Ponapea palauensis* KANEHIRA Mss.**

Leaflets up to 6-7 cm wide, pistillate flowers sessile, 3 mm in diam., fruits ovoid, 2 cm long, 1.6 cm in diam., apiculate. The plant no doubt belongs to *Ponapea*. Palau; Arumizu, Korrer 3723, S. NISIDA Oct. 1933.

**Zingiberaceae**

***Globba marantina* LINN. Mant. 2 (1771) 170; MERR. Enum. Philip. Fl. Pl. 1 (1922) 244; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 267.**

Palau HOSOKAWA. *Distrib.* Malaya, Philippines to New Guinea.

**Piperaceae**

***Peperomia mariannensis* C. DC. in DC. Prodr, 15, 1 (1869) 442; HOSOKAWA l. c. 268.**

Marianne Islands. *Distrib.* Endemic.

**Ulmaceae**

***Trema orientalis* BL. var. *amboinensis* BL. LAUTERB. in ENGL. Bot. Jahrb. 50 (1913) 321; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 242.**

*Trema amboinensis* BLUME Mus. Bot. Lugd.-Bat. 2 (1856) 61.

Palau, HOSOKAWA. *Distrib.* India, Malaya China, Formosa, Philippines, New Guinea, New Caledonia and Australia.

var. ***viridis* LAUTERB in ENGL. Bot. Jahrb. 50 (1913) 321; HOSOKAWA l. c. 243.**

Rota HOSOKAWA. *Distrib.* Malaya, Australia and Polynesia.

***Trema virgata* BL. var. *scabra* BL. Mus. Lugd.-Bat. 2 (1856) 59; LAUTERB. l. c. 314; HOSOKAWA l. c. 243.**

Palau HOSOKAWA. *Distrib.* Moluccas, New Guinea to Australia.

**Urticaceae**

***Boehmeria boninensis* NAKAI in Bot. Mag. Tokyo 32 (1918) 217; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 268.**

Alamagan HOSOKAWA. *Distrib.* Bonin Islands.

**Elatostema fenkolense** HOSOKAWA l. c. 243.

Kusai HOSOKAWA 6417! *Distrib.* Endemic.

### Leguminosae

**Rhyncosia calosperma** WARB. in ENGL. Bot. Jahrb. **13** (1891) 324;  
K. SCHUM. et K. LAUTERB. Fl. Deutsch. Schutzg. Südsee (1901)  
370; Merr. Enum. Philip. Fl. Pl. **2** (1923) 316; HOSOKAWA in  
Trans. Nat. Hist. Soc. Formos. **25** (1935) 244.

Tinian HOSOKAWA. *Distrib.* New Guinea to Philippines.

### Polygalaceae

**Salomonica cantoniensis** LOUR. Fl. Cochinch. (1790) 14; BENN. in  
HOOK. f. Fl. Brit. Ind. **1** (1872) 206; HASSK. in Ann. Mus. Bot.  
Lugd.-Bat. **1** (1863-4) 144; MERR. Enum. Philip. Fl. Pl. **2** (1923)  
385.

Kusai 478. Along roads at low altitudes. *Distrib.* India, Philippines,  
Malaya, China and tropical Australia.

### Euphorbiaceae

**Mallotus tiliifolius** (BLUME) MUELL.-ARG. in Linnaea **34** (1865) 190;  
PAX et HOFFM. in ENGL. Pflanzenr. **63** (1914) 148, f. 22, D.  
*Rottlera tiliifolia* BLUME Bijdr. (1825) 607.

Palau: Aimiriik 1918, 2294, Marikyoku 438, Tôdai-yama 1855. In  
thicket and forests at low altitudes. *Distrib.* Sumatra, Philip-  
pines, New Guinea, northeastern Australia and Samoa.

*Mallotus palauensis* HOSOKAWA is closely allied to the present species.

### Vitaceae

**Columella palauana** HOSOKAWA in Trans. Nat. Hist. Soc. Formos.  
**25** (1935) 244.

Palau HOSOKAWA. *Distrib.* Endemic.

### Araliaceae

**Schefflera Kraemeri** HARMS in Notizb. Bot. Gart. Berlin **5** (1908) 73.  
*Schefflera pachyclada* KANEHIRA in Bot. Mag. Tokyo **46** (1932) 670,  
*syn.*

### Loganiaceae

**Geniostoma micranthum** DC. (p. 392).

*Geniostoma saipanense* KANEHIRA in sched. (p. 392) *syn.*

### Scrophulariaceae

**Adenosma javanicum** (BL.) KOORD. Exkursf. Java **3** (1912) 175;

MERR. Enum. Philip. Fl. Pl. **3** (1923) 434; SCHLTR. in ENGL.

Bot. Jahrb. **59** (1925) 102; HOSOKAWA l. c. 245.

*Herpestis javanica* BL. Bijdr. (1826) 748.

Palau HOSOKAWA. *Distrib.* India, Malaya, Philippines to New Guinea.

**Lindernia viscosa** (WILLD.) MERR. Enum. Philip. Fl. Pl. **3** (1923)

439; HOSOKAWA l. c. 246.

*Hornemannia viscosa* (WILLD.) Enum. Pl. (1809) 654.

Palau, HOSOKAWA. *Distrib.* India, China, Philippines to Malay Archipelago.

**Torenia mucronulata** BENTH. in DC. Prodr. **10** (1846) 409; HOOK.

f. Fl. Brit. Ind. **4** (1884) 276; HOSOKAWA in Trans. Nat. Hist.

Soc. Formos. **25** (1935) 245.

Kusai HOSOKAWA. *Distrib.* India.

### Lentibulariaceae

**Utricularia racemosa** WALL. Cat. (1828) 1496; DC. Prodr. **8** (1844)

21; C. B. CLARKE in HOOK. f. Brit. Ind. **4** (1884) 33; H. MEL-

CHIOR in ENGL. Bot. Jahrb. **62** (1929) 383; HOSOKAWA in Trans.

Nat. Hist. Soc. Formos. **25** (1935) 246.

Palau HOSOKAWA. *Distrib.* India, Malaya to New Guinea.

**Utricularia nivea** VAHL Enum. **1** (1805) 203; MERR. in Philip.

Journ. Sci. **9** (1914) Bot. 141.

Guam. *Distrib.* India and Ceylon to southern China and Malaya.

### Acanthaceae

**Asystasia Blumei** NEES in DC. Prodr. **11** (1847) 167; MIQ. Fl. Ind.

Bat. **2** (1856) 793; LINDAU in ENGL. et PRANTL Nat. Pflanzenf.

**4**, 3 b (1895) 326; HOSOKAWA in Trans. Nat. Hist. Soc. For-

mos. **25** (1935) 247.

Palau HOSOKAWA. *Distrib.* Malay Peninsula and Java.