

An Enumeration Of Micronesian Plants

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AN ENUMERATION OF MICRONESIAN PLANTS

Ryôzô KANEHIRA

Micronesia, Japanese Mandate Territory, extending from Longitude 130° E to 175° and from the Equator to 22° N. Latitude, includes more than 1400 islands, islets and reefs comprising the Marianne, Caroline and Marshall groups. The total land area is but 2149 sq. km. Except for the Marshall Group of atolls most of the islands are of volcanic origin with a covering of coral rock. They lie far to the west of Hawaii, east of the Philippines and Celebes, north of the New Guinea and Bismarck Islands and south of the Bonins and the Iwô Islands. The name of the principal islands, their areas and highest elevations are as follows:

<i>Marianne group</i>			<i>West Caroline group</i>		
Name of island	Area (sq. km.)	Highest elevation (m)	Name of island	Area (sq. km.)	Highest elevation (m)
Saipan	185	474	Yap	216	179
Tinian	98	172	Palau	378	206
Rota	125	492	Truk	132	410

<i>East Caroline group</i>			<i>Marshall group</i>		
Name of island	Area (sq. km.)	Highest elevation (m)	Name of island	Area (sq. km.)	Highest elevation (m)
Ponape	376	785	Jaluit	8	(atoll)
Kusai	116	654			

The first botanical collections made in this region were those by THADDAEUS HAENKE and LUIS NÉE, botanists of the Malaspina

Expedition which reached Guam February 12th, 1792. HAENKE's material was studied by K. B. PRESL¹⁾ and some of NÉE's specimens were studied by CAVANILLES²⁾. Following this expedition ADELBERT VON CHAMISSO and JOHAN FRIEDRICH ESCHSCHOLTZ reached Guam in November 24th, 1817 on the Russian brig Rurik (the Romanzoff Expedition). They spent some days in Radak, Marshall Islands, in January, the same year. The most successful early collector was CHARLES GAUDICHAUD-BEAUPRÉ, a French botanist, who reached Guam March 17th, 1819 on the "Uranie" commanded by LUIS DE FREYCINET. He botanized Guam, Tinian and Rota. Besides the above mentioned botanists, several others visited the islands during the Spanish, régime, their work being described in SAFFORD's "Useful Plants of Guam."

Previous the time when the Marshall Islands were under the control of Germany, they were visited in 1880 by BETCHE⁶⁾ who published a short report and later when Micronesia was under German control, G. VOLKENS explored Yap in July 1899, staying some days also in the Marshall and Palau islands. He remained in Yap about six months, and later published several papers⁷⁾, among

1) PRESL, K. B., Reliquiae Hankeanae, seu descriptiones et icones plantarum, quas in America meridionali et boreali, in insulis, Philippinis et Marianis collegit Thaddeus Haenke Vol. 1, 2 (1825-36).

2) CAVANILLES A. J., Icones descriptiones plantarum, quae aut sponte in hispania crescunt aut in hortis hospitantur 1 (1791) 1-67, t. 1-100; 4 (1799) 1-82, t. 301-400; 5 (1799) 1-74, t. 401-500.

3) CHAMISSO, A. von, et SCHLECHTENDAL, D. von: De plantas expeditione speculatoria Romanzoffiana observatis rationem discunt: Linnaea 1-10 (1826-1836).

4) GAUDICHAUD-BEAUPRÉ, C., Botanique du voyage autour du monde fait par ordre du Roi sur les corvettes l' Uranie et la Physicienne pendant les années 1817-20 par M. Luis de Freycinet (1826-30).

5) Contribution from the U. S. National Herbarium Vol. 10 (1905).

6) BETCHE, E., Vegetationsskizzeder Marshalls-Inseln. Wittmack's Gartenzeitung 3 (1884) 133-134.

7) VOLKENS, G., Ueber die Karoninen-Insel Yap: Verhand. Gesell. Erdk. Berlin (1901) 62-76, Pl. 1.

—, Die Vegetation der Karolinen, mit besonderer Berücksichtigung der von Yap: ENGL. Bot. Jahrb. 31 (1901) 412-447.

—, Aufzählung der auf Yap beobachteten und gesammelten Pflanzen: ENGL. 1. c. 459-477.

—, Einige Ergebnisse einer Reise nach den Karolinen u. Mariannen: Verhand. des XIII Deutsch. Geographentages Breslau (1901) 167-179.

—, Die Flora der Marshall-Inseln: Notizb. Bot. Gart. Berlin. 4 (1903) 83-91.

which his "Aufzählung der auf Yap beobachteten und gesammelten Pflanzen" is the first enumeration of plants from that island. This comprises 328 species, distributed into 252 genera and 50 families; about 20 new species were described.

During the German régime, several collections were made by Jesuit Missionaries and by various Government officials stationed in the islands; the material was sent to the Botanical Garden at Berlin-Dahlem. H. HALLIER made some extensive collections in the Marianne Islands in 1902, his collections being preserved in Institut für allgemeine Botanik der Universität, Hamburg, but no list has been published. The most extensive collections were those by L. LEDERMANN who was a member of the Sepik Expedition to New Guinea. Separating from this group, he proceeded to Micronesia and botanized in Ponape and Palau from November 1913 to April 1914, securing about 1500 specimens. His collections were studied by various specialists at the Berlin Botanical Garden and the result appeared in several papers¹⁾.

In the early part of the present century the island of Guam, an American possession was explored and SAFFORD published his rather exhaustive work above mentioned in 1905. The first scientific enumeration was that by E. D. MERRILL²⁾, "An enumeration of the plants of Guam" and "Additions to the flora of Guam." The enumeration comprises 555 species of pterophytes and spermatophytes.

In 1914-1915, while Micronesia was under the control of the Japanese Navy, the Department of Education sent several staff members of various Colleges and Universities to the region and some botanical material was secured by them. Among them was G. KOIDZUMI³⁾ who published a number of new species based on material collected by him.

After 1915 no collections of botanical material were made in

1) VOLKENS, G., Beiträge zur Flora von Micronesien (1) in ENGL. Bot. Jahrb. 52 (1915) 1-18. DIELS, L., Beiträge zur Flora von Micronesien und Polynesiens (2) *ibid.* 56 (1921) 429-577, (3) *ibid.* 59 (1925) 1-29; (4) *ibid.* 63 (1930) 292-324.

2) MERRILL, E. D., An enumeration of the plants of Guam i: Philip. Journ. Sci. 9 (1914) Bot. 14-155.

—, Addition to the flora of Guam. *ibid.* 15 (1919) 53544.

3) KOIDZUMI, G., The vegetation of Jaluit Island: Bot. Mag. Tokyo 29 (1915) 242-257.

—, Plantae novae micronesiae: *ibid.* 30 (1916) 400-403, 31 (1917) 232-233.

the islands until 1929. The author botanized in Palau and Ponape in 1929, Saipan and Yap in 1930, Kusai and Ponape in 1931, Rota, Tinian and Palau in 1932 and in the northern islands of the Marianne group and Palau in 1933. The results were published in *The Botanical Magazine*, Tokyo and *Transactions of the Natural History Society of Formosa*¹⁾. He also prepared and published his "*Flora Micronesica*"²⁾ providing a general sketch of the botanical status of Micronesia, describing the principal trees and shrubs and listing all plants known from the region.

In 1933-1934, T. HOSOKAWA²⁾ of the Taihoku Imperial University botanized in the islands and published several papers based on his own collections.

The present work is an enumeration of all plants known from Micronesia, not only from Japanese Mandate Territory but including also those of Guam, for Guam is geographically a part of the region. It thus serves as a general compilation covering the entire Micronesian flora. It includes 1219 species of plants representing 142 families and 616 genera, of which 456 species and eight genera are endemic in the region, while the manifestly introduced

¹⁾ KANEHIRA, R., An enumeration of the woody plants collected in Micronesia, Japanese Mandate (1) *Bot. Mag. Tokyo* **45** (1931) 271-296, (2) 327-352.

—, New or noteworthy trees from Micronesia, (1) *ibid.* **56** (1922) 449-457, (2) 485-495, (3) 669-674, (4) **47** (1933) 669-680, (5) **48** (1934) 116-130, (6) 400-405, (7) 830-736, (8) 919-927, (9) **49** (1935) 60-68, (10) 103-114, (11) 185-195, (12) 271-279, (13) 352-358, (14) 425-431.

—, *Plantae novae micronesicae*: *Trans. Nat. Hist. Soc. Formos.* **24** (1935) 1-8.

—, *Flora Micronesica* (Japanese), published by the South Seas Bureau, Japanese Mandate Territory (1933).

²⁾ HOSOKAWA T., Materials of the botanical research towards the flora Micronesia (1): *Trans. Nat. Hist. Soc. Formos.* **24** (1934) 197-205; (2) 414-415; (3) 17-39; (4) 117-128.

—, *Conspectus of the genus Lepinia*: *Bot. Mag. Tokyo* **48** (1934) 528-530.

—, *Balanophoraceae Micronesiae*: *Journ. Soc. Trop. Agr.* **6** (1934) 572.

—, *Phytogeographical relationship between the Bonin and the Marianne Islands laying stress upon the distributions of the families, genera and special species of their vernacular plants*: *ibid.* **6** (1934) 201-209, 657-670.

—, *Preliminary account of the vegetation of the Marianne Islands group* (Japanese text with English résumé): *Bul. Biog. Soc. Jap.* **5** (1934) 124-172.

species number 230^D.

Duplicate sets of botanical specimens have been distributed to the following institutions both at home and abroad: Tokyo, Kyoto and Taihoku Imperial Universities, Tokyo Science Museum, South Seas Bureau, the New York, Berlin-Dahlem, and Kew Gardens, the Paris Museum, the Arnold Arboretum, the Bishop Museum and the Smithsonian Institution.

The botanical exploration of Micronesia has been accomplished through assistance granted by the South Seas Bureau. The author especially desires to express his most sincere thanks to Dr. E. D. MERRILL of the New York Botanical Garden, whose encouragement and unceasing assistance has enabled him to accomplish this work. Acknowledgment is also due to Prof. L. DIELS, Dr. F. MARKGRAF, and Dr. K. KRAUSE of Berlin-Dahlem, Dr. A. GUILLAUMIN of Paris Museum, the late Dr. U. MARTELLI of Florence, Italy and Dr. E. B. COPELAND of the Philippines who have assisted the author in the identification of certain critical species.

In the following table is given the inclusive numbers and the dates of collection for the botanical material on which this paper is essentially based. Unless the name of collectors mentioned, it is collected by the author.

1929	
1-47 Saipan, June 27, 1929.	234-255 Uninhabited coral island, Korrör, Palau, July 9, 1929.
48-66 Tinian, June 29, 1929.	256-331 Aimiriik, Palau, July 10, 1929.
67-74 Yap, July 2, 1929.	332-348 Korrör, Palau, July 12, 1929.
75-142 Korrör, Palau, July 4, 1929.	349-377 Korrör, Palau, July 13, 1929.
143-203 Korrör, Palau July 6, 1929.	378-427 Marikyoku, Palau, July 17, 1929.
204-213 Korrör, Palau July 7, 1929.	428-455 Marikyoku, Palau, July 18, 1929.
214-233 Uninhabited coral island, Korrör, Palau, July 8, 1929.	456-467 Korrör, Palau, July 20, 1929.
	468-482 Armatin, Palau, July 21, 1929.

^D For phytogeographical data appertaining to the Micronesian flora, the following papers should be consulted:

KANEHRA, R., On the ligneous flora of Micronesia, Japanese Mandate (Japanese text) Journ. Japan Forest. Soc. **13** (1931) 755-787.

—, The forest trees of Micronesia, Japanese Mandate: Trop. Woods, No. 29 (1932) 1-6.

—, Flora Micronesica (1933) 14-24.

—, On the flora of Micronesia (Japanese text with English résumé): Bull. Biogeogr. Soc. Jap. **5** (1935) 233-262.

—, On the distribution of Pandanus and geographic position of Micronesian species: *ibid.* (ined.)

483-520 Aimiyon, Palau, July 22, 1929.
 521-541 Kamset, Palau, July 23, 1929.
 542-565 Garamiscan, Palau, July 24, 1929.
 566-601 Angaur, Palau, July 29, 1929.
 602-611 Truk, Aug. 2, 1929.
 612-625 Truk, Aug. 4, 1929.
 626-668 Kolonia, Ponape, Aug. 8, 1929.
 669-696 Kolonia, Ponape, Aug. 8, 1929.
 697-743 Kolonia, Ponape, Aug. 10, 1929.
 744-774 Sankakuyama, Ponape, Aug. 12, 1929.
 775-791 Metaranium, Ponape, Aug. 13, 1929.
 792-830 Niinoani-zan, Ponape, Aug. 14, 1929.
 831-845 Niinoani-zan, Ponape, Aug. 15, 1929.
 846-853 Metaranium, Ponape, Aug. 16, 1929.
 864-882 Kolonia, Ponape, Aug. 19, 1929.

1930

883-888 Saipan, July 22, 1930.
 889-930 Saipan, July 23, 1929.
 931-980 Saipan, July 25, 1930.
 981-1001 Saipan, July 26, 1930.
 1002-1927 Saipan, July 27, 1930.
 1028-1039 Saipan, July 28, 1930.
 1040-1043 Saipan, July 30, 1930.
 1044-1059 Tinian, July 30, 1930.
 1060-1074 Tinian, July 31, 1930.
 1075-1089 Saipan, Aug. 2, 1930.
 1090-1136 Yap, Aug. 11, 1930.
 1137-1172 Tomil, Yap, Aug. 12, 1930.
 1173-1185 Tomil, Yap, Aug. 13, 1930.
 1186-1211 Tomil, Yap, Aug. 14, 1930.
 1212-1240 Maki, Yap, Aug. 15, 1930.
 1241-1252 Maki, Yap, Aug. 16, 1930.
 1253-1263 Yap, Aug. 18, 1930.
 1264 Yap, S. IKUTA, Dec. 21, 1930.
 1265 Ponape M. HOSINO, Dec. 1930.

1931

1266-1298 Tol, Truk, June 23, 24, 1931.
 1299-1319 Lelo, Kusai, June 30, 1931.
 1320-1411 Hinkorn-zan, Kusai, July 2, 3, 1930.
 1412-1435 Moto, Kusai, July 6, 1931.

1436-1468 Matante, Kusai, July, 7, 1931.
 1469-1475 Kolonia, Ponape, July 11, 1931.
 1476-1491 Kolonia, Ponape, July 12, 1931.
 1492-1524 Parkier, Ponape, July 13, 1931.
 1525-1549 Kity, Ponape, July 16, 1931.
 1550-1576 Tortom-zan, Ponape, July 18, 1931.
 1577-1600 Kolonia, Ponape, July 21, 1931.
 1601-1622 Nânaraut-zan, Ponape, July 23, 1931.
 1623-1631 Nânaraut-zan, Ponape, July 24, 1931.
 1632-1676 Nânaraut-zan, Ponape, July 25, 1931.
 1677-1685 Kolonia, Ponape, July 27, 1931.
 1686-1691 Jokaji, Ponape, Aug. 1, 1931.
 1692-1699 Metaranium, Ponape, Aug. 3, 1931.
 1700-1717 Moen, Truk, Aug. 14, 1931.
 1718-1727 Fefan, Truk, Aug. 15, 1931.
 1728 Palau Experiment St. Sept. 1931.
 1729 Tinian Y. IROBE, Sept. 1931.
 1730 Tinian Y. IROBE, Sept. 1931.

1932

1731-1773 Rota, July 8, 1932.
 1774-1805 Rota, July 9, 1932.
 1806-1822 Rota, July 10, 1932.
 1823 Rota, July 11, 1932.
 1846 Angaur, Palau, July 29, 1932.
 1847-1853 Korrör, Palau, Aug. 1, 1932.
 1854-1888 Tôdai-yama, Palau, Aug. 2, 1932.
 1889-1913 Uninhabited coral island, Korrör, Palau, Aug. 3, 1932.
 1914-1953 Aimiriik, Palau, Aug. 5, 1932.
 1954-1986 Aimiriik, Palau, Aug. 6, 1932.
 1987-2019 Uninhabited coral island, Palau, Aug. 8, 1932.
 2020-2029 Tôdai-yama, Palau, Aug. 9, 1932.
 2030-2057 Marikyoku, Palau, Aug. 11, 1932.
 2058-2066 Ogiwal, Palau, Aug. 13, 1932.
 2067-2080 Korrör, Palau, Aug. 15, 1932.
 2081-2094 Arumonogui, Palau, Aug. 16, 1932.
 2095-2127 Garamiscan, Palau, Aug. 17, 1932.
 2128-2131 Palau, S. NISIDA, Oct. 1932.
 2132 Saipan, T. WADA, Dec. 1932.

2133 Palau, S. NISIDA, Oct. 1932.

1933

2134 Ponape, M. HOSINO, Jan. 1, 1933.
 2135 Palau Experiment Station, March, 1933.
 2136 Saipan, T. WADA, March, 1933.
 2137 Palau, S. WAKAMATSU, March, 1933.
 2138 Ponape, M. HOSINO, March 1933.
 2139 Ponape, M. HOSINO, March 20, 1933.
 2140 Ponape M. HOSINO, Feb. 1933.
 2141 Saipan, June 30, 1933.
 2142-2154 Anatahan, July, 1933.
 2155-2172 Saligan, July 5, 1933.
 2173-2197 Aramagan, July, 1933.
 2198-2202 Pagan, July, 1933.
 2203-2209 Agrigan, July, 1933.
 2210-2216 Pagan, July, 1933.
 2217-2243 Saipan, July 11, 1933.
 2244-2249 Saipan, July 12, 1933.
 2250-2257 Saipan, K. MITUDA, June, 1933.
 2258-2278 Tinian, July 15, 1933.
 2279-2304 Aimiriik, Palau, July 30, 1933.
 2305-2336 Aimiriik, Palau, July 31, 1933.
 2337-2359 Aimiriik, Palau, Aug. 1, 1933.
 2360-2373 Aimiriik, Palau, Aug. 2, 1933.
 2374-2381 Aimiriik to Airai, Palau, Aug. 4, 1933.
 2382-2390 Airai, Palau, Aug. 5, 1933.
 2391-2415, Uninhabited coral island, Arai, Palau, Aug. 6, 1933.
 2416-2425 Pelliui, Palau, Aug. 9, 1933.
 2426-2441 Pelliui, Palau, Aug. 10, 1933.
 2442-2478 Uninhabited coral island, Korrer, Palau, Aug. 14, 1933.
 2748 Yap, September 7, 1933.
 2749-2752 Palau, S. NISIDA, March 8, 1933.
 2753-2783 Palau, S. NISIDA, no date, 1933.
 2784-2785 Saipan, K. MITUDA, no date, 1933.
 2786-2791 Jaluit, H. UTIYAMA, Aug. 1933.
 2792 Kusai, YOSIDA Aug. 1933.
 2793-2795 Jaluii, KAMANO, Aug. 1933.
 2796 Kusai, H. UTIYAMA, Aug. 1933.
 2797-2803 Jaluit, H. UTIYAMA, Aug. 1933.
 2804-2808 Kusai, H. UTIYAMA, Aug., 1933.
 2809-2812 Ponape, M. HOSINO, no date, 1933.

2813-2815 Yap, Sept. 1933.

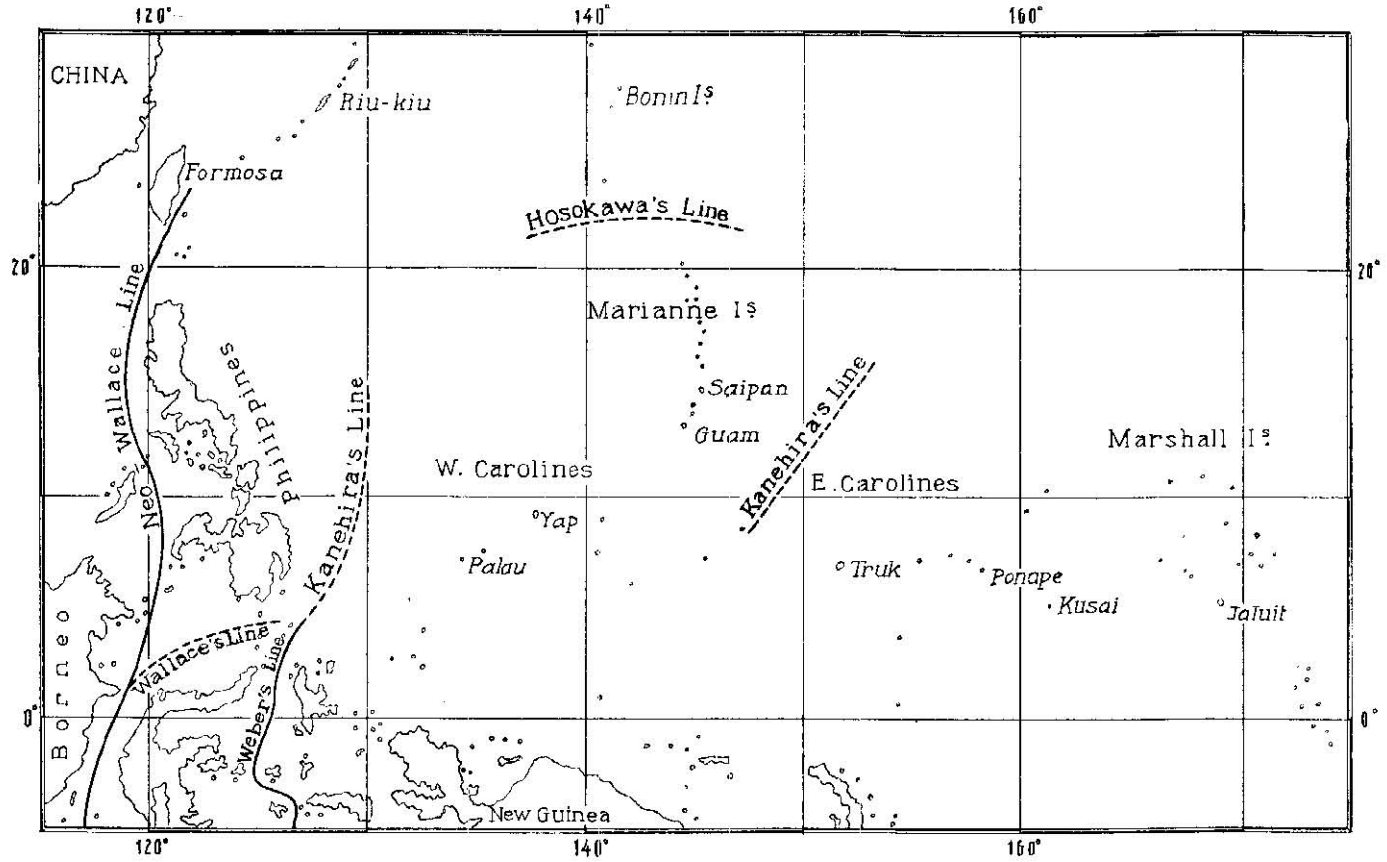
2816-2817 Truk, SIMIZU, Aug. 1933.
 2818 Palau, S. NISIDA, Palau, Aug. 1933.
 3340 Saipan, K. MITUDA, Aug. 1933.
 3341 Saipan, Aug. 1933.
 3342 Palau, Aug. 1933.
 3343-3345 Yap, Sept. 1933.
 3346 Angaur, Palau, R. IKEDA, April, 1933.
 3347-8 Korrer, S. NISIDA, April 12, 1933.
 3352 Palau S. NISIDA, Aug. 1933.
 3353 Coral island, Korrer, Palau, S. NISIDA, Aug. 1933.

1934

3340 Korrer, Palau, S. NISIDA, Jan. 16, 1934.
 3441 Aimiriik, Palau, S. NISIDA, Feb. 27, 1934.
 3442 Korrer, Palau, S. NISIDA, Feb. 28, 1934.
 3443-4 Anathan, T. WADA, May, 1934.
 3448-3456 Ponape, M. HOSINO, Aug. 1934.
 3457-3466 Mokieli OHBA, Aug. 1933.
 3467-3483 Enchabi OHBA, Aug. 1934.
 3484 Wanietak, no name, 1934.
 3485-3487 a nameless island, near Ponape, no name, 1933.
 3488 Harusima, Truk K. KASUYA, Dec. 6, 1934.
 3489 Tol, Truk K. INE, Dec. 6, 1934.
 3490 Natusima, Truk, NATUO, Dec. 6, 1934.
 3491 Tol, Truk, K. INE, Dec. 6, 1934.
 3492 Natusima, Truk, NATUO, Dec. 6, 1934.
 3493 Huyusima, Truk, T. YOKUYAMA, Dec. 6, 1934.
 3494 Takesima, Truk, NATUO Dec. 6, 1934.
 3495 Akisima, Truk, T. HUKUYAMA, Dec. 6, 1934.

1935

3497-3502 Yap, Yap District Office, Jan. 17, 1935.
 3503-3507 Kusai Received, Feb. 1935.
 3508-3529 Jaluit Received, Feb. 13, 1935.
 3530 Saipan, Aug. 1935.
 3531 Truk, Dec. 1935.
 3532 Rota, S. KURAMOTO, March 7, 1935.



The Micronesian region, showing various lines of biogeographic demarcation

PTERIDOPHYTES**Marattiaceae****Angiopteris** HOFFMANN

Angiopteris evecta (FORST. f.) HOFFM. Comm. Soc. Reg. Gott. **12** (1796) 29, t. 5; VOLKENS in ENGL. Bot. Jahrb. **31** (1901) 454; MERR. in Philip. Journ. Sci. **9** (1914) Bot. 46.

Polypodium evectum FORST. f. Prodr. (1786) 81.

Palau, 550; Ponape 719, 725; Yap 1095; Kusai 1320, 1329; Anatahan 2142; Aramagan 2176. In damp primary forests at medium altitudes. *Distrib.* Polynesia.

Marattia SWARTZ

Marattia sambucina BL. Enum. (1828) 256.

Marattia fraxinea J. SM. VOLKENS l. c. 454.

Ponape 759, 811; Kusai 1392; Palau 308. In damp primary forests. *Distrib.* Malaysia.

Ophioglossaceae**Helminthostachys** KAULFUSS

Helminthostachys zeylanica (LINN.) HOOK. Gen. Fil. Pl. (1840) 47; VOLKENS l. c. 454.

Yap (VOLKENS). *Distrib.* Tropical Asia to tropical Australia and New Caledonia.

Ophioglossum LINNAEUS

Ophioglossum pendulum LINN. Sp. Pl. ed. 2 (1763) 1518; MERR. l. c. 46.

Palau 306; Kusai 1398, 1445. In forests at medium altitudes. *Distrib.* Tropical Asia to Polynesia.

Ophioglossum reticulatum LINN. Sp. Pl. ed. 2 (1763) 1063; VOLKENS l. c. 454.

Yap (VOLKENS) *Distrib.* Tropical Africa, tropical America and Samoa.

Hymenophyllaceae**Hymenophyllum** SMITH

Hymenophyllum Blumeianum Spr. Syst. **4** (1827) 131.

Palau 495. *Distrib.* Tropical Asia. *Jap. name*: Taiwan-kokesinobu.

Trichomanes LINNAEUS

Trichomanes humile FORST. f. Prodr. (1786) 84; VOLKENS l. c. 453; MERR. l. c. 41.

Yap (VOLKENS), Guam (MERRILL). *Distrib.* Hawaiian Islands to Polynesia, Formosa, New Zealand and Australia. *Jap. name*: Himehoragoke.

Trichomanes javanicum BL. Enum. (1828) 224; VOLKENS l. c. 41. Ponape 757, 816; Yap 1124; Kusai 1408. In forests from low to medium altitudes. *Distrib.* Tropical Asia to the Riukiu Islands southward to Australia and Polynesia. *Jap. name*: Sotetu-horagoké.

Trichomanes maximum BL. Enum. (1828) 228. Ponape 839, 1667. In forests at high altitudes. *Distrib.* Malaysia, Polynesia, Queensland. *Jap. name*: Seriba-horagoké.

Trichomanes pallidum BL. Enum. (1828) 225. Ponape 819. In forests at high altitudes. *Distrib.* Tropical Asia to Polynesia. *Jap. name*: Usuiro-kokesinobu.

Trichomanes rigidum Sw. Prodr. (1788) 137; VOLKENS l. c. 435. Yap (VOLKENS). *Distrib.* Tropical Asia and Polynesia.

Cyatheaceae

Alsophila R. BROWN

Alsophila extensa (Forst. f.) R. BR. Prodr. (1810) 42; MERR. l. c. 41. *Polypodium extensum* FORST. f. Prodr. (1786) 83. Guam (MERRILL). *Distrib.* New Guinea, Celebes and Polynesia.

Cyathea SMITH

Cyathea affinis (FORST.) Sw. Schrad Journ. 1800-2 (1801) 94; Carr. in SEEM, Fl. Vit. (1873) 333; KANEHIRA in Bot. Mag. Tokyo **48** (1934) 730.

Polypodium affine FORST. Prodr. (1786) 83; BRACK Wilkes U. S. Expl. Exp. **16** (1854) 283.

Ponape 677, 810, 1493; Kusai 1345. In forests of Kusai and Ponape Islands. *Distrib.* Polynesia.

Cyathea Haenkei (PRESL) MERR. in Philip. Journ. Sci. **15** (1919) 540.

Alsophila Haenkei PRESL Rel. Haenk. **1** (1825) 68.

Cyathea marianna GAUDICH. Bot. Freyc. Voy. (1826) 265.

Guam (MERRILL). "The type of PRESL's species was from the Marianne Islands, in all probability from Guam, while that of GAUDICHAUD was from Guam. The species is apparently very scarce and local in Guam and is probably approaching extinction." (MERRILL l. c. 540).

Cyathea lunulata (FORSTER) COPEL., Bishop Museum Bull. **59** (1929) 37; KANEHIRA l. c. 730.

Polypodium lunulatum FORSTER Prodr. (1786) 83.

Alsophila lunulata R. BR., HOOKER and BAKER Synopsis Fil. (1868) 41.

Palau: Korror 138, Aimiriik 263, 2291, Garamiscan 2100. *Distrib.* South-Western Polynesia and Melanesia.

Cyathea aramaganensis KANEHIRA in Bot. Mag. Tokyo **47** (1934) 731.

Aramagan 2173! July 5, 1933. In primary forests at the top of the island. *Distrib.* Endemic.

Dicksonia L'HÉRTIER

Dicksonia cicutaris Sw. Schrad. Journ. Bot. (1801) 91; VOLKENS l. c. 453.

Yap (VOLKENS). *Distrib.* Tropical America.

Polypodiaceae

Acrosticum LINNAEUS

Acrosticum aureum LINN. Sp. Pl. (1753) 106; VOLKENS l. c. 454; MERR. l. c. 42.

Palau 122; Yap 1190. Along the seashore. *Distrib.* Tropics of both hemispheres. *Jap. name*: Kogane-sida.

Adiantum LINNAEUS

Adiantum lunulatum BURM. Fl. Ind. (1768) 235; VOLKENS l. c. 453. Yap (VOLKENS). *Distrib.* Africa, Asia, Australia, Polynesia to C. America.

Antrophyum KAULFUSS

Antrophyum plantagineum (CAV.) KAULF. Enum. (1824) 197; VOLKENS I. c. 453; MERR. I. c. 42.

Hemionitis plantaginea CAV. Descr. (1802) 260.

Palau 251, 326, 383, 2332; Yap 1194. *Distrib.* Ceylon, Himalaya, Philippines to Polynesia. *Jap. name*: Ooba-kosida.

Asplenium LINNAEUS

Asplenium adianthoides (LINN.) C. CHR. Index Fil. (1906) 99; MERR. I. c. 42.

Trichomanes adianthoides LINN. Sp. Pl. (1753) 99.

Kusai 1458, 1459; Palau 2112. In forests at high altitudes. *Distrib.* Tropiccal Asia to Australia, New Zealand and Polynesia. *Jap. name*: Munin-sida.

Asplenium caudatum FORST. f. Prodr. (1876) 80; MERR. I. c. 42.

Saipan 25, 26; Ponape 676, 1613; Kusai 1455; Rota 1816. In forests at low altitudes. *Distrib.* Tropics of both hemispheres.

Asplenium laserpitiifolium LAM. Encycl. 2 (1786) 310; MERR. I. c. 42.

Palau 498; Ponape 643, 806; Kusai 1397, 1440, 1448. In forests from low to high altitudes. *Distrib.* Malaya to Australia and Polynesia. *Jap. name*: Okinawa-sida.

Asplenium macrophyllum Sw. in Schrad. Journ. 1800-2 (1801) 52; MERR. I. c. 42.

Saipan 25, 28, 29; Tinian 1067. In forests at low altitudes. *Distrib.* India to Mascarene and Polynesia. *Jap. name*: Ooba-munin-sida.

Asplenium monanthes LINN. Mant. (1767) 130; MERR. I. c. 42.

Guam (MERRILL). *Distrib.* Tropical Africa and America to Hawaii.

Asplenium nidus LINN. Pl. (1753) 1079; MERR. I. c. 42.

Palau 91; Ponape 713; Kusai 1395, 1457. In damp primary forests from low to high altitudes. *Distrib.* Himalaya, Japan, Formosa, eastwards to Society Islands. *Jap. name*: Ootani-watari.

Asplenium nitidum Sw. Syn. (1806) 84; MERR. I. c. 42.

Guam (MERRILL). *Distrib.* India to Malaya.

Asplenium pachyphyllum KTZE. Bot. Zeit. (1848) 146; HOOK. Sp. Fill. 4 (1862) 56; VOLKENS I. c. 453.

Yap (VOLKENS). *Distrib.* Philippines, Malaya, Solomon, Fiji and Formosa. *Jap. name:*

Asplenium scandens J. SM. in HOOK. Journ. Bot. **3** (1841) 408.
Ponape 627, 1622. In forests at high altitudes. *Distrib.* Philippines,
New Guinea to Fiji.

Asplenium unilaterale LAM. Encyc. **2** (1786) 305.
Anatahan 2151. In primary forests. *Distrib.* Tropical Africa to
Polynesia.

Blechnum LINNAEUS

Blechnum orientale LINN. Sp. Pl. (1753) 1077; VOLKENS l. c. 453;
MERR. l. c. 42.

Palau 133, 339, 2084; Ponape 731, 1516; Yap 1218; Kusai 1342. In
thickets and forests at medium altitudes. *Distrib.* Tropical
Asia to Polynesia. *Jap. name:* Hiryu-sida.

Campium PRESL

Campium heteroclitum (PRESL) COPEL. in Philip. Journ. Sci. **37**
(1928) Bot. 395, f. 13.

Acrosticum heteroclitum PRESL Rel. Haenk. **1** (1825) 15, t. 2, f. 2.
Kusai 1340, 1453. In primary forests at medium altitudes. *Distrib.*
India through Malaysia to the Philippines and New Guinea.

Cheilanthes SWARTZ

Cheilanthes tenuifolia (BURM. f.) Sw. Syn. (1806) 129, 332; VOL-
KENS l. c. 453; MERR. l. c. 43.

Trichomanes tenuifolium BURM. f. Fl. Ind. (1763) 237.

Palau 488; Yap 1223. In primary forests. *Distrib.* Tropical Asia
to New Zealand and Polynesia. *Jap. name:* Sima-ebigarasida.

Cyclopeltis DESVAUX

Cyclopeltis Presliana (J. SM.) BERKELEY, Introd. Crypt. Bot. (1857)
517.

Lastrea Presliana J. SM. nom. nud. (1841).

Palau 92, 1901. *Distrib.* Burma, Malaysia, Philippines to New
Guinea.

Cyclophorus DESVAUX

Cyclophorus adnascens (SW.) DESV. in Berl. Mag. **5** (1911) 300;
MERR. I. c. 43.

Polypodium adnascens Sw. Syn. (1806) 25, 222, t. 2, f. 2.

Palau 340, 467, 2015; Saipan 2242. In forests at low altitudes.

Distrib. Tropical Asia to Polynesia. *Jap. name*: Hituba-mamezuta.

Davalia SMITH

Davalia elegans Sw. Hook. Sp. Fil. **1** (1846) 164.

Palau 224. *Distrib.* Ceylon, Malay Peninsula, China, Java, Australia and Polynesia.

Davalia solida (FORST. f.) Sw. in Schrad. Journ. 1800-2 (1801) 87;
VOLKENS I. c. 453; MERR. I. c. 43.

Trichomanes solidum FORST. f. Prodr. (1876) 86.

Palau 224, 2099; Truk 621; Ponape 703; Yap 1260. *Distrib.* Malaya to northern Australia and Polynesia. *Jap. name*: Atuba-sinobu.

Dryopteris ADANSON

Dryopteris adenophora C. CHR. Ind. Fil. (1905) 251.

Saipan 30; Palau 104, 1885; Ponape 730. In forests at low altitudes.

Distrib. Luzon to Celebes.

Dryopteris cucullata (BL.) CHRIST. in Philip. Journ. Sci. **2** (1907)
Bot. 194; MERR. I. c. 43.

Aspidium cucullatum BL. Enum. (1828) 151.

Guam (MERRILL). *Distrib.* Mascarene Islands and Malaya.

Dryopteris depauperata COPEL. in Philip. Journ. Sci. **9** (1914)
Bot. 44:

Guam. *Distrib.* The type from Guam, endemic.

Dryopteris dissecta (FORST. f.) O. KTZE. Rev. Gen. Pl. **2** (1891) 812;
MERR. I. c. 43.

Polypodium dissectum FORST. f. Prodr. (1786) 812.

Guam (MERRILL). *Distrib.* India to Madagascar, Malaya, Australia and Polynesia.

Dryopteris gongylodes (SCHKUHR) O. KTZE. Rev. Gen. Pl. **2** (1891)
811; MERR. I. c. 43.

- Aspidium gongylodes* SCHKUHR Kr. Gew. **1** (1809) 193, t. 33.
Guam (MERRILL). *Distrib.* Pantropic.
- Dryopteris Haenkeana** (PRESL) O. KTZE. Rev. Gen. Pl. **2** (1891)
812; MERR. l. c. 43.
Nephrodium Haenkeanum PRESL Epim. Bot. (1851) 46.
Guam (MERRILL). *Distrib.* Malaya and Polynesia.
- Dryopteris parasitica** (LINN.) O. KTZE Rev. Gen. Pl. **2** (1891) 811;
MERR. l. c. 43.
Polypodium parasiticum LINN. Sp. Pl. (1753) 1090.
Guam (MERRILL). *Distrib.* Warmer parts of both hemispheres. *Jap.*
name: Ke-hosida.
- Dryopteris simplicifolia** (J. SM.) CHRIST. in Philip. Journ. Sci. **2**
(1907) Bot. 206.
Nephrodium simplicifolia J. SM. (1841) nom.
Palau 533. *Distrib.* Philippines to Fiji.
- Dryopteris sophoroides** (THUNB.) O. KTZE. Rev. Gen. Pl. **2** (1891)
813.
Polypodium sophoroides THUNB. Tr. Linn. Soc. **2** (1794) 341.
Saipan 30, 2229; Kusai 1399. *Distrib.* India to China.

Histiopteris J. SMITH

- Histiopteris incisa** (THUNB.) J. SM. Hist. Fil. (1875) 295.
Pteris incisa THUNB. Prodr. Fl. Cap. (1800) 171.
Ponape 642, 1646. In forests from low to high altitudes. *Distrib.*
In both hemispheres. *Jap. names*: Yuminonesida.

Humata CAVANILLES

- Humata augusta** (WALL.) J. Sm.
Palau, Arumonogui-zan 516. *Distrib.*
- Humata gaimardiana** (GAUDICH.) J. SM. in HOOK. Lond. Journ. Bot.
1 (1842) 425.
Nephrodium gaimardiana GAUDICH. Freyc. Voy. Bot. (1827) 335,
t. 12, f. 1.
Palau 225, 1931; Ponape 704. *Distrib.* Burma through Malaya and
the Philippines to Polynesia.
- Humata heterophylla** (SM.) DESV. Prodr. (1825) 323; MERR. l. c. 44.

Davalia heterophylla SM. in Mém. Acad. Trin. **5** (1783) 415.
Palau 515, 555. *Distrib.* Malaya and Polynesia.

Hymenolepis KAULFUSS

Hymenolepis spicata (LINN. f.) PRESL Epim. (1851) 159; MERR.
l. c. 44.

Acrostichum spicatum LINN. f. Suppl. (1761) 444.

Palau 497. *Distrib.* Tropical Asia, Madagascar, Malaya and Polynesia. *Jap. name*: Ogata-sida.

Lindsaya DRYANDER

Lindsaya decomposita WILLD. Sp. **5** (1810) 425.

Palau 281, 2098; Ponape 755, 1648; Kusai 1346. *Distrib.* Tropical Asia, Australia and Polynesia.

Lindsaya Merrillii COPEL. in Philip. Govern. Lab. Pub. **28** (1905) 61.

Ponape 808, 1614; Kusai 1437. *Distrib.* Philippines.

Lindsaya repens (BORY) BEDD. Ferns. S. Ind. (1863-5) 72, t. 209.

Dicksonia repens BORY Voy. **2** (1804) 323.

Palau 528. *Distrib.* Assam, Ceylon, Java, Sumatra, Polynesia and Mauritius. *Jap. name*: Hongu-sida.

Microlepia PRESL

Microlepia Speluncae (LINN.) T. MOORE Ind. Fil. **2** (1857) 93.

Ponape 644. *Distrib.* Pantropic. *Jap. name*: Oo-isikaguma.

Nephrolepis SCHOTT

Nephrolepis acuta (SCHK.) PRESL, HOOK. Sp. Fil. **4** (1862) 153;
VOLKENS l. c. 453.

Yap (VOLKENS). *Distrib.* In both hemispheres.

Nephrolepis acutifolia (DESV.) CHRIST. in Verh. Nat. Ges. Basel. **11** (1905) 243; MERR. l. c. 44.

Lindsaya acutifolia DESV. Prodr. (1827) 312.

Palau 101; Ponape Kolonia 724. In forests at low altitudes. *Distrib.* Tropical Africa through Malaya, Burma to Australia.

Nephrolepis biserrata SCHOTT Gen. Fil. (1834) t. 3.

Asplenium biserratum SW. Schrad. Journ. (1801) 32.

Palau 264, 3308; Ponape 687; Kusai 1450, 1451; Rota 1799. *Distrib.*
In both hemispheres. *Jap. name*: Hôbi-kwanzyu.

Nephrolepis hirsutula (FORST. f.) PRESL Tent. (1836) 79; MERR.
I. c. 44; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 245.

Polypodium hirsutulum FORST. f. Prodr. (1786) 81.

Guam (MERRILL); Jaluit (KOIDZUMI). *Distrib.* Tropics of both hemispheres.

Odontosoria FÉE

Odontosoria chinensis (LINN.) J. SM. in Bot. Voy. Herald (1857)
430; MERR. I. c. 44.

Trichomanes chinensis. LINN. Sp. Pl. (1753) 1099.

Guam (MERRILL). *Distrib.* Tropical Asia to Madagascar and Polynesia. *Jap. name*: Hamahôrai-sinobu.

Odontosoria retusa (CAV.) J. SM. in Bot. Voy. Herald (1857) 430;
MERR. I. c. 45.

Davalia retusa CAV. Descr. (1902) 273.

Guam. (MERRILL). *Distrib.* Malaya and Polynesia.

Polypodium LINNAEUS

Polypodium accedens BL. Enum. (1828) 121.

Ponape 805; Kusai 1385. *Distrib.* Malaysia to Polynesia.

Polypodium decorum Brack. Expl. Ex. **16** (1854) 7, t. 2. f. 2.

Palau 496, 2352. *Distrib.* Ceylon, Malaysia and Polynesia.

Polypodium nigricens BLUME Enum. (1828) 126.

Ponape 617, 628. *Distrib.* India, Ceylon, Malaysia, Polynesia and tropical Australia.

Polypodium obliquatum BL. Enum. (1828) 128.

Palau 494. *Distrib.* India, Ceylon, Malaya and Philippines. *Jap. name*: Naname-sida.

Polypodium persicifolium DESV. Berl. Mag. **5** (1811) 316.

Ponape 809, 1612. In forests at high altitudes. *Distrib.* Java and Celebes.

Polypodium phymatodes LINN. Mant. (1771) 306; VOLKENS I. c.
553; MEKR. I. c. 45; KOIDZ. I. c. 245.

Palau 84; Truk 620; Guam (MERRILL); Yap (VOLKENS); Jaluit (KOIDZUMI). *Distrib.* Tropical Africa and Asia to Australia and Polynesia.

Polypodium punctatum (LINN.) SW. in Schrad. Journ. 1800, 2 (1801) 21; MERR. l. c. 45.

Acrostichum punctatum LINN. Sp. Pl. ed. 2 (1763) 1524.

Saipan 991; Guam (MERRILL). *Distrib.* Tropical Africa, Asia through Malaya to Polynesia.

Polystichum ROTH

Polystichum aculeatum (FORST.) PRESL Tent. (1836) 83.

Polypodium aculeatum FORST. Prodr. (1786) 82.

Ponape 1617. In forests at high altitudes. *Distrib.* India to Japan through Malaya to Polynesia and also in South Africa.

Prosaptia PRESL

Prosaptia alata (BL.) CHRIST. Ann. Bot. Buit 2, 5 (1905) 127.

Davalia alata BL. Enum. (1828) 230.

Kusai 1377. *Distrib.* Tropical Asia to Samoa.

Pteris LINNAEUS

Pteris biaurita LINN. Sp. Pl. (1753) 1076; MERR. l. c. 45.

Guam (MERRILL). *Distrib.* Warmer parts of both hemispheres. *Jap. name*: Kokesida.

Pteris ensiformis BURM. HOOK. Sp. Fil. 2 163; VOLKENS l. c. 453.

Palau 485, Yap 1124. In forests at low altitudes. *Distrib.* Hindstan, Himalaya, Ceylon, Australia, Polynesia and Formosa. *Jap. name*: Hoko-sida.

Pteris pellucida PRESL Rel. Haenk. 1 (1825) 55.

Ponape 838, 1643. *Distrib.* India, Java and Philippines.

Pteris quadriaurita RETZ. Obs. 6 (1791) 38; VOLKENS l. c. 453; MERR. l. c. 45.

Ponape 821; Kusai 1454; Anatahan 2145, 4149; Yap (VOLKENS); Guam (MERRILL). *Distrib.* Warmer parts of both hemispheres. *Jap. name*: Hatizyô-sida.

Pteris tripartita Sw. in Schrad. Journ. 1800, 2 (1801) 67; MERR. l. c. 45.

Palau 590; Saipan 37; Guam (MERRILL). *Distrib.* Tropical Africa and Asia to Polynesia. *Jap. name*: Heridori-warabi.

Schizoloma GAUDICHAUD

Schizoloma ensifolium (Sw.) J. SM. in HOOK. Journ. Bot. **3** (1841) 414; MERR. l. c. 45.

Lindsaya ensifolia Sw. in Schrad. Journ. 1800, 2 (1801) 77.

Palau 413. *Distrib.* Tropical Africa and Asia to Polynesia. *Jap. name*: Inu-inomotosô.

Taenitis WILLDENOW

Taenitis blechnoides (WILLD.) Sw. Syn. **24** (1806) 220.

Palau 280, 307, 2309. *Distrib.* Tropical Asia through Malaya to the Philippines and Fiji.

Tapenidium (PRESL) C. CHRISTENSEN

Tapenidium pinnatum (CAV.) C. CHR. Ind. (1905) 213.

Davalia pinnata CAV. Desc. (1802) 277.

Ponape 795, 1549, 1615; Palau 2325. *Distrib.* Malaysia and Polynesia.

Tectaria CAVANILLES

Tectaria crenata CAV. Desc. (1802) 250; MERR. l. c. 45.

Saipan 27, 998, 2221; Yap 1129; Rota 1797. *Distrib.* Malaya.

Tectaria grandifolia (PRESL) COPEL. in Philip. Journ. Sci. **2** (1907) Bot. 413.

Asplenium grandifolium PRESL Epim. (1851) 64.

Ponape 844. *Distrib.* Philippines and the Santa Cruz Islands.

Tectaria irregularis (PRESL) COPEL. l. c. 416.

Polypodium irregulare PRESL Rel. Haenk **1** (1825) 25 t. 4, f. 3.

Aspidium irregulare C. CHR. Ind. (1905) 78.

Palau 267, 532, 2083. In forests at low altitudes. *Distrib.* Malaya and Philippines.

Tectaria polymorpha (WALL.) COPEL. l. c. 413.

Asplenium polymorphum WALL. List No. 382 (1828), HOOK. Sp. Fil. **4** (1862) 54.

Palau 462; Ponape 822. *Distrib.* India to Malaysia and the Philippines.

Vittaria SMITH

Vittaria elongata Sw. Syn. (1806) 109, 302; VOLKENS l. c. 453; MERR. l. c. 45.

Palau 325, 1950, 2334; Saipan 988; Yap 1259. *Distrib.* Tropical Asia to Polynesia.

Parkeriaceae

Ceratopteris BRONGNIART

Ceratopteris thalictroides (LINN.) BRONGN. Bull. Soc. Philom. (1821) 186; VOLKENS l. c. 454; MERR. l. c. 46.

Acrostichum thalictroides LINN. Sp. Pl. ed. 2 (1763) 1488.

Palau 484; Yap 1245. In swamps. *Distrib.* Tropics of both hemispheres. *Jap. name*: Mizu-warabi.

Gleicheniaceae

Gleichenia SMITH

Gleichenia linearis (BURM. f.) CLARKE in Trans. Nat. Soc. Bot. 1 (1880) 428; VOLKENS l. c. 454; MERR. l. c. 46.

Polypodium lineare BURM. f. Fl. Ind. (1768) 235, t. 67, f. 2.

Palau 345; Yap 1150; Kusai 1447. *Distrib.* Warmer parts of both hemispheres. *Jap. name*: Kosida.

Schizaeaceae

Lygodium SWARTZ

Lygodium circinatum (BURM. f.) Sw. Syn. (1806) 153; VOLKENS l. c. 454.

Yap (VOLKENS); Palau 134. *Distrib.* India to southern China through Malaya to Australia.

Lygodium flexuosum (LINN.) Sw. Schrad. Journ. (1801) pt. 106; VOLKENS l. c. 454.

Ophioglossum flexuosum LINN. Sp. Pl. (1753) 1063.

Yap (VOLKENS). *Distrib.* Southern China, Malaysia, Philippines to Queensland. *Jap. name*: Sima-kamikusa.

Lygodium scandens (LINN.) SW. in Schrad. Journ. (1801) 106 ;
VOLKENS l. c. 454 ; MERR. l. c. 46.

Palau 85 ; Yap (VOLKENS) ; Guam (MERRILL). *Distrib.* Old World
Tropics generally. *Jap. name* : Iriomoté-syamisenzuru.

Lygodium semihastatum (CAV.) DESV. Prodr. (1827) 203 ; MERR.
l. c. 46.

Ugena semihastata CAV. Ic. **6** (1801) 74, t. 594, f. 1.

Guam (MERRILL). *Distrib.* Philippines.

Schizaea SMITH

Schizaea dichotoma (LINN.) SM. Mém. Acad. Turin **5** (1793) 422,
t. 9, f. 9 ; VOLKENS l. c. 454 ; MERR. in Philip. Journ. Sci. **15**
(1919) Bot. 539.

Acrostichum dichotomum LINN. Sp. Pl. (1753) 1068.

Palau 279, 2037, 2087, 2330 ; Yap 1143 ; Guam (MERRILL). *Distrib.*
Asia, tropical Australia, Madagascar to Mascarene Islands.

Schizaea digitata (LINN.) SW. Syn. (1806) 160, 380 t. 4, f. 1 ; VOL-
KENS l. c. 454.

Achrosticum digitatum LINN. Sp. Pl. (1753) 1068.

Palau 465. *Distrib.* Tropical Asia to Madagascar.

Lycopodiaceae

Lycopodium LINNAEUS

Lycopodium cernum LINN. Sp. Pl. (1753) 1103 ; VOLKENS l. c. 454 ;
MERR. l. c. 47.

Palau 154 ; Ponape 645, 1616 ; Yap 1151 ; Kusai 1468 ; Aramagan
2193. *Distrib.* Tropics of both hemispheres. *Jap. name* : Mizu-
sugi.

Lycopodium phlegmaria LINN. Sp. Pl. (1753) 1100 ; MERR. l. c. 47.
Palau 268, 464, 537 543, 2358 ; Ponape 818, 1647 ; Kusai 1316, 1374,
1438. *Distrib.* Tropical Asia to Polynesia.

Lycopodium squarrosus FORST. Prodr. Fl. Ins. Austr. (1797) No
479.

Palau 493. *Distrib.* Pantropic.

Selaginellaceae

Selaginella SPRING

Selaginella belangeri (BORY) SPRING Mono. Lycopod. **2** (1850) 242;
MERR. l. c. 47.

Lycopodium belangeri BORY in BÉLANG. Voy. Bot. **2** (1846) No. 16, t. 2,
f. 3.

Guam (MERRILL). *Distrib.* Indo-malayan region.

Selaginella Kanehirae ALSTON in Journ. Bot. **72** (1934) 227.
Ponape 732, 760, 1649. *Distrib.* Endemic.

Selaginella Volkensii Hieron. in ENGL. Bot. Jahrb. **52** (1914) 1.
Selaginella Menziesii (non SPRING) VOLKENS l. c. 455.
Yap 1144. *Distrib.* The type from Yap, endemic.

Psilotaceae

Psilotum SWARTZ

Psilotum complanatum Sw. Syn. Fil. (1806) 188, 414, t. 4, f. 5.
Palau, 536; Kusai 1444. *Distrib.* Jamaica, Mexico, Tahiti, Java and
Singapore.

Psilotum nudum (LINN.) GRISEB. Syst. Veg. Karaib. (1857) 130;
MERR. l. c. 47.

Lycopodium nudum LINN. Sp. Pl. (1753) 1100.

Palau 103, 551, 1921; Rota 1814. *Distrib.* Tropics of both hemi-
spheres.

Psilotum triquetrum Sw. Syn. Fil. (1806) 187; BAKER Handb. Fern
Allies (1887) 30; VOLKENS l. c. 454.

Yap (VOLKENS). *Distrib.* Pantropic. *Jap. name:* Matubaran.

SPERMATOPHYTES

Cycadaceae

Cycas LINNAEUS

Cycas circinalis LINN. subsp. **Seemannii** (A. BRAUN) SCHUSTER in
Pflanzenr. Heft 99 (IV, 1) (1932) 71; KANEHIRA Fl. Micr. (1933)
59.

Cycas Seemannii A BRAUN in Sitzungsber. Ges. Naturf. Freunde
Berlin (1876) 114.

Cycas circinalis (non LINN.) MERR. in Philip. Journ. Sci. **9** (1914) Bot. 48.

Cycas Rumphii (non MIQ.) KANEHIRA in Bot. Mag. Tokyo **45** (1931) 273.

Yap 1189; Palau 233, 2048; In primary forests. *Distrib.* Fiji to Amboina. *Nat. names*: "fratel" or "frotel" (Yap), "rumiyan" (Palau).

Pandanaceae

Freycinetia GAUDICHAUD

Freycinetia almonoguiensis KANEHIRA in Bot. Mag. Tokyo **49** (1935) 186 f. 18.

Palau, Almonogui, 2775! S. NISIDA. *Distrib.* Endemic.

Freycinetia carolinensis KANEHIRA op. cit. 185. f. 17.

Palau, Aimiriik 2359! S. NISIDA. *Distrib.* Endemic.

Freycinetia mariannensis MERR. in Philip. Journ. Sci. **9** (1914) Bot. 48. KANEHIRA in Bot. Mag. Tokyo **49** (1935) 185.

The type from Guam. Saipan 2243, Aramagan 2196. *Distrib.* Endemic.

Freycinetia ponapensis MARTELLI in Bot. Mag. Tokyo **48** (1934) 129.

Ponape, Patapat, LEDERMANN 13245. *Distrib.* Endemic.

Freycinetia Villalobosensis MARTELLI in Bot. Mag. Tokyo op. cit. 128; KANEHIRA l. c. 185.

Palau, Babeldaob, LEDERMANN 14323; Palau 3340, 3441 (KANEHIRA) *Distrib.* Endemic.

Pandanus LINNAEUS

Pandanus aimiriikensis MARTELLI in KANEHIRA Fl. Micr. (1933) 60, f. 1, nom. seminud., Bot. Mag. Tokyo **48** (1934) 125, f. 7.

Palau Aimirrik 328! In thickets at low altitudes. *Distrib.* Endemic.

Pandanus brachypodus KANEHIRA in Bot. Mag. Tokyo **49** (1935) 425, f. 32.

Enchabi Kusai 3480! *Distrib.* Endemic. *Nat. name*: "punmusi" (Enchabi).

Pandanus carolinianus MARTELLI in *Webbia* **4**, 2 (1914) 400, t. 34, f. 1-3; KANEHIRA in *Bot. Mag. Tokyo* **49** (1935) 61, f. 2.

The type from Yap. Yap 3343. *Distrib.* Endemic.

Pandanus Cominsii HEMSL. HOOK. *Icon.* (1900) 2654; MARTELLI in *ENGL. Bot. Jahrb.* **49** (1912) 66, *Webbia* **4** (1914) t. 26, f. 20; KANEHIRA op. cit. **49** (1935) 356, f. 31.

The type from the Solomon Islands. Truk 3489. *Distrib.* The Solomon, Bismarck and New Hebrides.

Pandanus cylindricus KANEHIRA in *Bot. Mag. Tokyo* **49** (1935) 63, f. 3.

Ponape 2810, Mokiél 3461. *Distrib.* Endemic. *Nat. name*: "silaué" (Ponape).

Pandanus cylindricus var. **Sinnau** KANEHIRA in *Bot. Mag. Tokyo* **49** (1935) 356, f. 30.

Truk, Tol 3448! *Distrib.* Endemic. *Nat. name*: "sinnau" (Truk).

Pandanus dilatatus KANEHIRA in *Bot. Mag. Tokyo* op. cit. 63, f. 4. Ponape, Nutt 2808! *Distrib.* Endemic. *Nat. name*: "kienpel" (Ponape).

Pandanus divergens KANEHIRA in *Bot. Mag. Tokyo* **49** (1935) 60, f. 1.

Palau, Airai 2389! *Distrib.* Endemic.

Pandanus dubius SPRENG. *Syst.* **3** (1826) 897; KURZ in *Journ. Bot.* **5** (1867) 127, t. 64, f. 1 & 2; WARB. in KRIEGER, *Neuguinea* (1899) t. 7, *ENGL. Pflanzeur. (Pandanaceae)* (1900) 50, f. 1, f. 14 A-D; MARTELLI, *Webbia* **4** (1913) 12; MERR. *Philip. Journ. Sci.* **9** (1914) Bot. 48; KANEHIRA in *Bot. Mag. Tokyo* **45** (1931) 273, *Fl. Micr.* (1933) 61, f. 2.

Ponape 877, Saipan 900, Kusai 3507, Truk 3494, Saipan 3530. *Distrib.* India to New Hebrides. *Nat. names*: "pafung" (Saipan), "poak" (Truk), "poko" (Palau) "meu yok" (Kusai).

Pandanus duriocarpoides KANEHIRA in *Bot. Meg. Tokyo* **49** (1935) (ined.)

Yap, Tomil 3497! *Distrib.* Endemic. *Nat. Name*:

Pandanus duriocarpus MARTELLI in KANEHIRA *Fl. Micr.* (1933) 62, f. 3, nom. seminud., *Bot. Mag. Tokyo* **48** (1934) 116, f. 1.

Palau Babeldaob 882! *Distrib.* Endemic.

- Pandanus enchabiensis** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 429, f. 36.
Enchabi 3470! *Distrib.* Endemic. *Nat. name*: "moak" (Enchabi).
- Pandanus erythrophloeus** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 66, f. 5 & 6.
Palau, Peliliu 2419! In thickets near the seashore. *Distrib.* Endemic.
- Pandanus Eyesyes** KANEHIRA in Bot. Mag. Tokyo **49** (1935) (ined.).
Kusai 3503! *Distrib.* Endemic. *Nat. name*: "eyesyes" (Kusai).
- Pandanus fragrans** GAUDICH. Voy. Bonite (1851) t. 22, f. 10; MERR. l. c. 48; MARTELLI in Bot. Mag. Tokyo **48** (1934) 117, f. 2.
The type from Guam; Saipan 2132 b. *Distrib.* Endemic.
- Pandanus guamensis** MARTELLI in Webbia **4**, 1 (1914) 404, t. 42, f. 4-6; MERR. l. c. 48; KANEHIRA in Bot. Mag. Tokyo **49** (1935) 67, f. 7.
Saipan 3340. The type from Guam. *Distrib.* Endemic.
- Pandanus Hollrungii** WARB. forma *caroliniana* MARTELLI in ENGL. Bot. Jahrb. **49** (1912) 66.
The type from Tol, Uman, Truk (KRAEMFR). *Distrib.* Endemic.
- Pandanus Hosinoi** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 103, f. 8.
Ponape 2811! 3450; Makiel 3458. *Distrib.* Endemic. *Nat. name*: "nane kejak" (Ponape) "nenketak" (Mokiel).
- Pandanus insularis** KANEHIRA in Bot. Mag. Tokyo **49** (1935) (ined.).
Kusai 3504. *Distrib.* Endemic. *Nat. name*: "meu kosa" (Kusai).
- Pandanus Jaluitensis** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 103, f. 9, *ibid.* 190.
Jaluit Emedi 2788! 2791; Kusai 2803-5; Ponape 3453, 3456; Mokiel 3463. *Nat. names*: "joene" "tibitin" (Jaluit), "pacheren" "musha-musi" (Ponape), "feufol" (Kusai) "bederik" (Mokiel).
- Pandanus japensis** MARTELLI in ENGL. Bot. Jahrb. **49** (1912) 65.
The type from Yap (VOLKENS). *Distrib.* Endemic.
- Pandanus kafu** MARTELLI in Webbia **4** (1914) 405, t. 19, f. 1-3; MERR. l. c. 47; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 273, Fl. Micr. (1933) 62, f. 4.
Saipan 936. The type from Guam. *Distrib.* Endemic. *Nat. name*: "kafu" (Guam, Saipan).

- Pandanus Kanehirae** MARTELLI in KANEHIRA Fl. Micr. (1933) 65, f. 5, nom. seminud., Bot. Mag. Tokyo **48** (1934) 119, f. 3. Palau, Babeldaob 445! 1987, 3342. *Distrib.* Endemic. *Nat. name*: "bôk" (Palau).
- Pandanus korrensis** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 106, f. 10. Palau Korrör 3348! S. NISIDA. *Distrib.* Endemic. *Nat. name*: "syu" (Palau).
- Pandanus kusaiensis** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 107, f. 11. Kusai 2796! 2806. *Distrib.* Endemic. *Nat. name*: "kosbia" (Kusai).
- Pandanus Lakatwa** KANEHIRA in Bot. Mag. Tokyo **49** (1935) (ined.) Jaluit 3516! *Nat. name*: "lakatwa" (Jaluit).
- Pandanus laticanaliculatus** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 188, f. 19. Jaluit 2801! *Distrib.* Endemic. *Nat. name*: "jonmouia" (Jaluit).
- Pandanus laticanaliculatus** var. **edulis** KANEHIRA *ibid.* 188. Jaluit 2786; *Distrib.* Endemic. *Nat. name*: "erwan" (Jaluit).
- Pandanus macrocephalus** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 428. Mokiél 3457; Jaluit 2794, 2797. *Distrib.* Endemic. *Nat. names*: "intekul" (Mokiél), "Cernenu" (Joluit).
- Pandanus macrojeanneretia** MARTELLI in KANEHIRA Fl. Micr. (1933) 66, f. 6, nom. seminud. Bot. Mag. Tokyo **48** (1934) 121, f. 5. Palau Aimiriik 1976! In thickets at low altitudes. *Distrib.* Endemic.
- Pandanus Menne** KANEHIRA (ined.) Jaluit 3517! 3522. *Nat. name*: "menne" (Jaluit).
- Pandanus obliquus** KANEHIRA in Bot. Mag. Tokyo **49** (1935) (ined.). Jaluit 3525! 3512, 3518, 3529. *Nat. names*: "lajokorer," "lonlin," "jominjekar" "lamtir" (Jaluit).
- Pandanus odontoides** HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 197, f. 2 & 4. The type from Alkoln, Palau. *Distrib.* Endemic.
- Pandanus odoratissimus** var. **acutus** KANEHIRA nom. nov. *Pandanus tectorius* var. **acutus** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 194.

Pandanus sinensis (non MARTELLI) KANEHIRA Fl. Micr. (1933) 69, f. 8.
Palau, Korror 1896, 2137. *Distrib.* Endemic. *Nat. name*: "ongor"
(Palau).

Pandanus odoratissimus var. **angaurensis** KANEHIRA nom. nov.
Pandanus tectorius var. *angaurensis* KANEHIRA in Bot. Mag. Tokyo
49 (1935) 193, f. 22.
Palau Angaur 3346. *Distrib.* Endemic.

Pandanus odoratissimus var. **Fatyanion** KANEHIRA nom. nov.
Pandanus tectorius var. *Fatyanion* KANEHIRA ibid. 194, f. 23.
Truk 2817! *Distrib.* Endemic. *Nat. name*: "fatyanion" (Truk).

Pandanus odoratissimus var. **Ongor** KANEHIRA nom. nov.
Pandanus tectorius var. *Ongor* KANEHIRA ibid. 194, f. 24.
Palau, Korror 3347! S. NISIDA. *Distrib.* Endemic. *Nat. name*: "ongor"
(Palau).

Pandanus Okamotoi KANEHIRA ibid- 107, f. 12.
Palau Aimirrik 2374! In waste grass land. *Distrib.* Endemic.

Pandanus palawensis MARTELLI in Bot. Mag. Tokyo 48 (1934)
124, f. 6.
Type from Palau, Babeldaob LEDERMANN 14373. *Distrib.* Endemic.

Pandanus palkilensis HOSOKAWA in Trans. Nat. Hist. Soc. Formos.
24 (1934) 197.
Panape Palkier. The syncarps of the type is immature, it is probably a synonym of *Pandanus ponapensis* MARTELLI.

Pandanus patina MARTELLI in KANEHIRA Fl. Micr. (1933) 67, f. 7,
nom. seminud., Bot. Mag. Tokyo 48 (1934) 127, f. 8.
Ponape Nanaraut-zan 1668! In thickets at about 700 m altitude.
Distrib. Endemic. *Nat. name*: "peet" (Ponape).

Pandanus peliliuensis KANEHIRA in Bot. Mag. Tokyo 49 (1935)
113, f. 15 & 16.
Palau, Peliliu 2421! In thickets at low altitudes. *Distrib.* Endemic.

Pandanus ponapensis MARTELLI in Bot. Mag. Tokyo 48 (1934) 121,
f. 4.
Ponape 2134! 3448. *Distrib.* Endemic. *Nat. names*: "kupal" "alwan"
(Ponape).

Pandanus pulposus MARTELLI in Webbia 4, 2 (1914) 409, t. 38,
f. 1-3; FOREST BROWN Occ. Papers Bishop Mus. Honolulu 9,

- No. 4 (1930) 3; KANEHIRA in Bot. Mag. Tokyo **49** (1936) 110, f. 13.
- Pandanus tectorius* var. *pulposus* WARB. in ENGL. Pflanzenr. Heft. 3, IV, 9 (1900) 49.
- Jaluit, Emedi 2787. The type from Radak, Marshall Islands. *Distrib.* Endemic. *Nat. name*: "jilebar" (Jaluit).
- Pandanus rectangulatus** KANEHIRA (ined.)
Enchabi 3469, 3477, 3479, 3483. *Nat. names*: "oiwo," "demesyo," "anilip," "pathaplip" (Enchabi).
- Pandanus rhombocarpus** KANEHIRA l. c. **49** (1935) 426 f. 33.
Enchabi 3467! 3463. *Distrib.* Endemic. *Nat. name*: "poppaniwa" (Enchabi).
- Pandanus rotundatus** KANEHIRA l. c. **49** (1935) 427. f. 35.
Ponape 3449! 3515. *Distrib.* Endemic. *Nat. name*: "majojokjok" (Ponape).
- Pandanus trukensis** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 190, f. 21.
Truk 2816! Kusai 2792, Jaluit 2789. *Distrib.* Truk, Kusai to Jaluit; endemic. *Nat. names*: "meu-oa" (Kusai), "mojel" (Jaluit).
- Pandanus Utiyamai** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 190, f. 20.
Ponape 2809! *Distrib.* Endemic. *Nat. name*: "jajeperik" (Ponape).
- Pandanus Volkensii** KANEHIRA in Bot. Mag. Tokyo **49** (1935) 111, f. 14.
Yap 2748! 3345. *Distrib.* Endemic.

Potamogetonaceae

Diplanthera THOUARS

- Diplanthera uninervis** (FORSK.) ASCHERS in ENGL. & PRANTL Nat. Pflanzenf. Nachtr. **1** (1897) 37; MERR. l. c. 49.
- Zostera uninervis* FORSK. Fl. Aeg.-Arab (1775) 159.
- Guam. *Distrib.* In shallow salt water, from the Red Sea and tropical East Africa and to Polynesia.

Potamogeton LINNAEUS

Potamogeton lucens LINN. Sp. Pl. (1753) 126 var. MERR. l. c. 49.
Potamogeton Gaudichaudii CHAM. et SCHLECHT. in *Linnaea* **2** (1827)
 199.

Guam. *Distrib.* The variety endemic.

Potamogeton mariannensis CHAM. et SCHLECHT. l. c. **2** (1827) 228.
 MERR. l. c. 49.

Guam. *Distrib.* Endemic.

Ruppia LINNAEUS

Ruppia maritima LINN. Sp. Pl. (1753) 127; MERR. l. c. 50.

Guam. *Distrib.* Widely distributed in warm countries, growing in
 brackish water.

Hydrocharitaceae

Enhalus L. C. RICHARD

Enhalus acoroides (LINN. f.) RICH. ex CHATIN Anat. Pl. Aquat.
 (1862) 15, t. 6; VOLKENS l. c. 455; MERR. l. c. 50.

Stratiotes acroides LINN. f. Suppl. (1781) 268.

Guam, Yap. *Distrib.* Widely distributed in the Indo-Malayan region
 in salt water.

Blyxia THOUARS

Blyxia octandra (ROXB.) PLANCH. ex THWAITES Enum. Pl. Ceyl.
 (1859-64) 332; VOLKENS l. c. 455.

Vallisneria octandra ROXB. Pl. Coromand. **2** (1798) 34, t. 165.

In rice paddies at low altitudes. Yap 1244, Palau 483. *Distrib.*
 Tropical Asia to Malaya, Australia and the Carolines. *Jap.*
name: Nanyô-subuta.

Halophila THOUARS

Halophila ovata GAUDICH. Bot. Freyc. Voy. (1826) 430, t. 40, f. 1;
 MERR. l. c. 50.

Guam. *Distrib.* Guam and Luzon.

Thalassia BANKS

Thalassia Hemprichii (EHRB.) ASCHERS in ENGL. & PRANTL Nat.
 Pflanzenf. **2**, 1 (1889) 254; VOLKENS l. c. 455.

Schizotheca Hemprichii EHRENB. in App. Akad. Berl. **1** (1832) 429.

Yap (VOLKENS). *Distrib.* India to Polynesia.

Gramineae

Andropogon LINNAEUS

Andropogon aciculatus RETZ. Osb. **5** (1789) 22; VOLKENS l. c. 456; MERR. l. c. 53.

Yap. *Distrib.* India to China southward through Malaya to tropical Australia.

Andropogon brevifolius SW. Prodr. (1788) 26; VOLKENS l. c. 456. Guam, Yap. *Distrib.* Pantropic.

Andropogon citratus DC. Cat. Hort. Monsp. (1813) 78; MERR. l. c. 53.

The citronella grass. A native of tropical Asia, now widely cultivated for its fragrant leaves.

Andropogon contortus LINN. Sp. Pl. (1753) 1045; MERR. l. c. 53. Guam. *Distrib.* Pantropic.

Andropogon halepensis (LINN.) BROT. Fl. Lusit. **1** (1804) 89, var. **propinquus** (KUNTH) MERR. in Philip. Journ. Sci. **1** (1906) Suppl. 336, **9** (1914) Bot. 53.

Holcus halepensis LINN. Sp. Pl. (1753) 1047.

Andropogon propinquus KUNTH Enum. **1** (1833) 502.

Saipan 911, 965; Palau 212; Guam (MERRILL). *Distrib.* The species pantropic, the variety from Ceylon to Moluccas.

Andropogon intermedius R. BR. Prodr. (1810) 202; VOLKENS l. c. 456.

Yap. *Distrib.* China, Philippines to Australia.

Andropogon Sorghum (LINN.) BROT. Fl. Luist. **1** (1804) 88; Merr. l. c. 53.

Holcus Sorghum LINN. Sp. Pl. (1753) 1047.

Guam (MERRILL). Cultivated in all warm countries.

Bambusa SCHREBER

Bambusa spinosa ROXB. Hort. Beng. (1814) 25.

Bambusa blumeana SCHULTES f. Syst. **7**, 2 (1830) 1343; MERR. l. c. 58; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 273.

Palau, Korrer 171; Guam (MERRILL). A spiny bamboo, planted in

villages. *Distrib.* Southern China to the Malay Peninsula and Archipelago to the Moluccas.

Bambusa vulgaris SCHRAD. ex. WENDL. Collect. Pl. **2** (1808) 26, t. 47; MERR. l. c. 58; KANEHIRA l. c. 273.

Truk 624; Ponage 861; Saipan 903; Yap 1179; Kusai 1365, 1421. *Distrib.* Patropic in cultivation, *Nat. name*: "alkasrem" (Kusai).

Cenchrus LINNAEUS

Cenchrus calyculatus CAV. Icon. **5** 39, t. 463; KOIDZ. in. Bot. Mag. Tokyo **29** (1915) 247.

Jaluit. *Distrib.* Polynesia.

Cenchrus echinatus LINN. Sp. Pl. (1753) 1050; MERR. l. c. 56.

Guam. *Distrib.* A native of tropical America, now naturalized in other tropical regions.

Cenchrus viridis SPRENG. Syst. Veg. **1** (1825) 301.

Cenchrus echinatus PRESL Rel. Haenk. **1** (1830) 317.

Palau, Angaur 570; Saipan 961, 1042. *Distrib.* A native of tropical America, now also found in Guam, Siam, Indo-China, Philippines, New Guinea and the northern Australia.

Cenbotheca DESVAUX

Cenbotheca latifolia (OSBECK) TRIN. Fund. Agrost. (1820) 141; MERR. l. c. 58.

Holcus latifolius OSBECK Dagbok Ostind. Resa (1757) 427.

Cenbotheca lappacea DESV. in Nouv. Bull. Soc. Philom. **2** (1810) 189; VOLKENS l. c. 457.

Palau: Korrer 128, Aimirik 300; Ponape 767, 881; Yap (VOLKENS); Kusai 1692. Very common in thickets, forests and clearings at low altitudes. *Distrib.* Tropical Asia and Africa through Malaya to Australia and Polynesia.

Coix LINNAEUS

Coix lachryma-jobi LINN. Sp. Pl. (1753) 972; MERR. l. c. 50.

Guam. *Distrib.* Tropics of both hemispheres, probably a native of India. *Jap. name*: Zyudu-dama.

Cynodon PERSOON

Cynodon Dactylon ((LINN.) PERS. Syn. **1** (1804) 85; VOLKENS l. c. 457; MERR. l. c. 57.

Panicum Dactylon LINN. Sp. (1753) 58.

Yap (VOLKENS), Guam (MERRILL). *Distrib.* Pantropic.

Dactyloctenium WILLDENOW

Dactyloctenium aegyptiacum (LINN.) WILLD. Enum. Hort. Berol. (1809) 1029; VOLKENS l. c. 457; MERR. l. c. 57.

Cynosurus aegyptius LINN. Sp. Pl. (1753) 72.

Saipan 982, Yap (VOLKENS), Guam (MERRILL). *Distrib.* Warmer parts of both hemispheres.

Dimeria R. BROWN

Dimeria chloridiformis (GAUDICH.) K. SCHUM. & LAUTERB. Fl. Deutsch. Schutzg. Südsee (1901) 165; MERR. l. c. 50.

Andropogon chloridiformis GAUDICH. Bot. Freyc. Voy. (1826) 412. Guam. *Distrib.* Endemic.

Dimeria fuscens TRIN. in Mém. Acad. Sci. St. Pétersb. Sér. **6**, 2 (1833) 335; VOLKENS l. c. 455.

Yap (VOLKENS). *Distrib.* East Indies.

Dimeria ornithopoda TRIN. Fund. Agrost. (1820) 167, t. 14; MERR. l. c. 51, var. **tenera** (TRIN.) HACK. in DC. Monog. Phan. **6** (1889) 81; MERR. in Philip. Journ. Sci. **1** (1906) Suppl. 321.

Dimeria terena TRIN. in Mém. Acad. Sci. St. Pétersb. **6**, 2 (1833) 335; VOLKENS l. c. 455.

Guam, Yap. *Distrib.* India to Japan southward to Australia.

Eleusine GAERTNER

Eleusine indica (LINN.) GAERTN. Fruct. **1** (1788) 8; VOLKENS l. c. 457; MERR. l. c. 57.

Cynosurus indicus LINN. Sp. Pl. (1753) 72.

Palau, Korrôr 113; Yap; Guam. *Distrib.* All warm countries.

Eriachne R. BROWN

Eriachne pallescens R. BR. Prodr. (1810) 184; VOLKENS l. c. 456. Yap. *Distrib.* India to southern China through Malaya to Australia.

Eragrostis BEUVOIS

Eragrostis amabilis (LINN.) W. et A. in HOOK. et ARN. Bot. Beechy Voy. (1841) 251; MERR. Enum. Philip. Fl. Pl. **1** (1922) 88.

Poa amabilis LINN. Sp. Pl. (1753) 68.

Eragrostis tenella ROEM. et SCHULT. Syst. **2** (1817) 576; VOLKENS l. c. 457; MERR. l. c. 57.

Metaranium, Ponape 776; Yap (VOLKENS); Guam. *Distrib.* Warmer parts of both hemispheres.

Eragrostis pilosa (LINN.) Beauv. Agrost. (1812) 71; MERR. l. c. 57.

Poa pilosa LINN. Sp. Pl. (1753) 68.

Guam (MERRILL). *Distrib.* Pantropic.

Eragrostis plumosa LINK, Hort. Boerl. **1**, 192; VOLKENS l. c. 457.

Yap. *Distrib.* Tropical Asia and Africa.

Garnotia BRONGNIART

Garnotia stricta BRONGN. in Bot. DUPERRY'S Voy. (1829) 132, t. 21; MERR. in Philip. Journ. Sci. **15** (1919) Bot. 540.

Guam (MERRILL). *Distrib.* India through Malaya to Hawaii.

Imperata CYRILLO

Imperata exaltata BROGN. Voy. Coq. Voy. Bot. (1929) 101, exc. syn. ROXB., VOLKENS l. c. 455.

Yap (VOLKENS). *Distrib.* Philippines to the Moluccas.

Isachne R. BROWN

Isachne globosa (THUNB.) OK. Rev. Gen. Pl. (1891) 778; MERR. Enum. Philip. Fl. Pl. **1** (1922) 59; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 200.

Milium globosum THUNB. Fl. Jap. (1784) 49.

Palau (Hosokawa). *Distrib.* Australia, India, Malaya to China and the Philippines.

Isachne miliacea ROTH, Nov. Sp. (1821) 58; VOLKENS l. c. 456; MERR. l. c. 55

Isachne minutula KUNTH, Rev. Gram. **2** (1829) t. 117, Enum. **1** (1833) 137; VOLKENS l. c. 456.

Guam, Yap. *Distrib.* India to Malaya and Polynesia.

Isachne ponapensis HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 200.

Ponape (HOSOKAWA). *Distrib.* Endemic.

Isachne rigida NEES ex STEUD. Syn. Pl. Gram. (1826) 95; VOLKENS. I. c. 456.

Yap (VOLKENS). *Distrib.* Java.

Ischaemum LINNAEUS

Ischaemum chordatum (TRIN.) HACK. ex. WARB. in ENGL. Bot. Jahrb. **13** (1891) 260; MERR. I. c. 52.

Spodiopogon chordatus TRIN. in Mém. Acad. Pétersb. **6**, 2 (1833) 302.

Guam. *Distrib.* New Guinea.

Ischaemum digitatum BRONGN. Bot. DUPERRY'S Voy. (1929) 70, t. 13; VOLKENS I. c. 466, var. **polystachyum** (PRESL) HACK. in DC. Monog. Phan. **6** (1889) 233; MERR. I. c. 51.

Ischaemum polystachyum PRESL, Rel. Haenk. **1** (1830) 328.

The variety collected in Guam. Palau, Korrer 153. The species in Yap (VOLKENS). *Distrib.* The Philippines to the Moluccas and New Hanover (species).

Ischaemum longisetum MERR. I. c. 52.

Guam (MERRILL). *Distrib.* The type from Guam, endemic.

Ischaemum muticum LINN. Sp. Pl. (1753) 1049; VOLKENS I. c. 456.

Yap (VOLKENS). *Distrib.* India through Malaya to tropical Australia, New Caledonia and western Polynesia.

Ischaemum rugosum SALISB. Ic. (1791) 1, t. 1; MERR. I. c. 51.

Guam (MERRILL). *Distrib.* India to Malaya.

Manisuris SWARTZ

Manisuris granularis LINN. f. Nov. Gram. Gen. (1779) 37, f. 4-7; VOLKENS I. c. 456.

Yap (VOLKENS). *Distrib.* Pantropic.

Miscanthus ANDERSSON

Miscanthus floridulus (LABILL.) WARB. ex K. SCHUM. & LAUTERB.

Fl. Deutsch. Schutzg. Südsee (1901) 166; MERR. I. c. 51.

Saccharum floridulum LABILL. Sert. Austr. Galed. (1824) 13, t. 18.
Guam; Pagan 2198. *Distrib.* Formosa to Australia and Polynesia.

Monerma BEAUVOIS

Monerma repens (FORST.) BEAUV. Agrost. (1812) 117; MERR. l. c. 58.

Rottboellia repens FORST. Prodr. (1797) 9; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 247.

Jaluit, Guam. Along the seashore. *Distrib.* Ceylon to Australia and Polynesia.

Oplismenus BEAUVOIS

Oplismenus compositus (LINN.) BEAUV. Agrost. (1812) 54; VOLKENS. l. c. 456; MERR. l. c. 56.

Panicum compositum LINN. Sp. Pl. (1753) 57.

Yap; Guam. *Distrib.* Pantropic.

Oryza LINNAEUS

Oryza sativa LINN. Sp. Pl. (1753) 333; VOLKENS l. c. 456; MERR. l. c. 56.

The rice. Cultivated in the warm parts of both hemispheres.

Panicum LINNAEUS

Panicum ambiguum TRIN. in Mém. Acad. St. Pétersb. VI 3, 2 (1835) 243; VOLKENS l. c. 456; MERR. l. c. 55.

Guam (MERRILL), Yap (VOLKENS). *Distrib.* Burma to Mascarene Islands, Malaya and Polynesia.

Panicum colonum LINN. Syst. ed. 10 (1759) 870; VOLKENS l. c. 456; MERR. l. c. 55.

Yap (VOLKENS), Guam (MERRILL). *Distrib.* Pantropic.

Panicum distachyum LINN. Mant. 1 (1767) 183; MERR. l. c. 55.

Guam. *Distrib.* India to Malaya and Polynesia.

Panicum crus-galli LINN. Sp. Pl. (1753) 56; VOLKENS l. c. 456.

Yap (VOLKENS). *Distrib.* Pantropic.

Panicum indicum LINN. Mant. 1 (1767) 184; VOLKENS l. c. 456.

Yap (VOLKENS). *Distrib.* India through Malaya to tropical Australia.

Panicum isachne ROTH, Nov. Pl. Sp. (1821) 54; MERR. l. c. 55.

Guam (introduced). *Distrib.* Mediterranean region to India.

Panicum luzoniense PRESL, Rel. Haenk. **1** (1830) 303; MERR. l. c. 55.

Guam (MERRILL). *Distrib.* Malay Peninsula and the Philippines.

Panicum patens LINN. Sp. Pl. (1763) 18; MERR. Enum. Philip. Fl. Pl. **1** (1922) 66.

Palau 322. Common in thickets and old clearings at low altitudes.
Distrib. India to Malaya.

Panicum repens LINN. Sp. Pl. ed. 2 (1762) 27.

Saipan 1022. *Distrib.* Pantropic.

Panicum reptans LINN. Syst. ed. 10 (1759) 871.

Panicum prostratum Lam. Ill. **1** (1791) 171; VOLKENS l. c. 456.

Yap. *Distrib.* Pantropic.

Paspalum LINNAEUS

Paspalum conjugatum BERG. in Act. Helvet. **7** (1772) 129, t. 8;
VOLKENS l. c. 456; MERR. l. c. 53.

Saipan 952, Truk 604, Guam, Yap. *Distrib.* A native of tropical America, now pantropic.

Paspalum distichum LINN. Amoen. Acad. **5** (1759) 391; VOLKENS l. c. 456.

Yap (VOLKENS). *Distrib.* Tropical and subtropical regions.

Paspalum scrobiculatum LINN. Mant. **1** (1767) 29; VOLKENS l. c. 53.

Palau 200, Yap (VOLKENS), Guam (MERRILL). *Distrib.* Pantropic.

Phragmites TRINIUS

Phragmites karka (RETZ.) TRIN. ex. STEUD. Nomen. **2** (1840) 324.

Phragmites Roxburghii STEUD. Nom. ed. 2, **2** (1841) 324, et Syn. Glum. **1** (1855) 196; VOLKENS l. c. 457.

Yap (VOLKENS). *Distrib.* India to Malaya.

Phragmites vulgaris (LAM.) Trin. Fund. Agrost. (1820) 134.

Arundo vulgaris LAM. Fl. Franc. **3** (1778) 615.

Palau, Korror 156. In thickets. *Distrib.* All warm countries.

Pollinia TRINIUS

Pollinia glabrata (BRONGN.) TRIN. in Bull. Acad. Pétersb. **1** (1836) 70; MERR. l. c. 51.

Eulalia glabrata BRONGN. Bot. DUPERRY'S Voy. (1829) 93, t. 19.

Guam (MERRILL). *Distrib.* Otherwise known from New Caledonia and the Society Islands.

Rottoboellia LINNAEUS f.

Rottoboellia sp. VOLKENS l. c. 456.

Yap.

Saccharum LINNAEUS

Saccharum officinale LINN. Sp. Pl. (1753) 54; VOLKENS l. c. 455; MERR. l. c. 51.

Probably a native of south-eastern Asia, now cultivated in all tropical countries. Sugar cane.

Schizostachyum NEES

Schizostachyum lima (BLANCO) MERR. in Am. Journ. Bot. (1916) 62; KANEHIRA in Bot. Mag. **45** (1931) 273.

Bambusa lima BLANCO Fl. Filip. (1837) 271.

Oxythernanthera Warburgii (HACK.) (non K. SCHUM.) VOLKENS l. c. 457.

Palau: Korrör 168, 181, Kamset 529, Garamiscan 542, 2111; Yap 1104. A remarkable bamboo having unusually long internodes.

Distrib. Philippines. *Nat. name*: "arirudo" (Palau), "poo" (Yap).

Setaria BEAUVOIS

Setaria flava (NEES) KUNTH Rev. Gram. **1** (1929) 46; MERR. l. c. 56.

Panicum flavum NEES ex TRIN. Gram. Panic. (1826) 162.

Guam (MERRILL). *Distrib.* Warmer parts of both hemispheres.

Setaria glauca (LINN.) P. BEAUV. Agrost. (1812) 51; VOLKENS l. c. 456.

Yap (VOLKENS). *Distrib.* Pantropic.

Sporobolus R. BROWN

Sporobolus indicus (LINN.) R. BR. Prodr. (1810) 170; MERR. l. c. 56.

Agrostis indica LINN. Sp. Pl. (1753) 63.

Guam (MERRILL). *Distrib.* Pantropic.

Sporobolus virginicus (LINN.) KUNTH Rev. Gram. **1** (1829) 67; MERR. l. c. 57.

Agrostis virginicus LINN. Sp. Pl. (1753) 63.

Guam. *Distrib.* Pantropic. Common near the seashore.

Stenotaphrum TRINIUS

Stenotaphrum subulatum TRIN. in Mém. Acad. Pétersb. VI, Sci. Nat. **3** (1835) 190; MERR. l. c. 56.

Guam (MERRILL). *Distrib.* Mascarene Islands to New Caledonia and the islands off the north east coast of Australia.

Syntherisma WALTER

Syntherisma corymbosa (ROXB.) HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 199.

Panicum corymbosum ROXB. Hort. Beng. (1814) 7, nom. nud. Fl. Ind. **1** (1820) 292.

Digitaria corymbosa MERR. Enum. Philip. Fl. Pl. **1** (1923) 53.

Saipan, Palau (HOSOKAWA). *Distrib.* India to Southern China and Formosa through Malaya to Samoa.

Syntherisma longiflora SKEELS in U. S. Department Agr. Bull. **261** (1912) 30; HOSOKAWA l. c. 200.

Ponape, Parkier HOSOKAWA 5875. *Distrib.* Warmer parts of the Old World.

Syntherima mariannensis HOSOKAWA l. c. 198.

Digitaria mariannensis MERR. l. c. 54.

Guam (MERRILL). *Distrib.* Endemic.

Syntherisma Mezii HOSOKAWA l. c. 198.

Digitaria mariannensis MEZ in ENGL. Bot. Jahrb. **59** (1924) 1, non MERR. in Philip. Journ. Sci. **9** (1914) Bot. 54.

Digitaria Mezii KANEHIRA Fl. Micr. (1933) 401.

Saipan GIBBON 1179. *Distrib.* Endemic.

Syntherisma Robinsonii HOSOKAWA l. c. 198.

Digitaria Robinsonii MERR. in Philip. Journ. Sci. **15** (1915) Bot. 540.
Guam (MERRILL). *Distrib.* Endemic.

Syntherisma sanguinalis DULAC. Fl. Hautes Pyr. (1867) 77.

Panicum sanguinale LINN. Sp. Pl. (1753) 57; VOLKENS l. c. 456;
KOIDZ. in Bot. Mag. Tokyo **29** (1915) 246.

Digitaria sanguinalis (LINN.) SCOP. Fl. Carn. ed. 2, **1** (1772) 52;
MERR. l. c. 54.

Yap (VOLKENS). Jaluit (KOIDZUMI). *Distrib.* All warm countries.

Syntherisma stricta HOSOKAWA l. c. 198.

Digitaria stricta GAUDICH. Bot. Freyc. Voy. (1826) 409; MERR. l. c.
59.

Panicum Gaudichaudii KUNTH Rev. Gram. (1830) 385, t. 106.
Guam (MERRILL). *Distrib.* Endemic.

Thuarea PERSOON

Thuarea involuta (FORST. f.) R. & S. Syst. **2** (1817) 872; MERR.
in philip. Journ. Sci. **15** (1919) Bot. 540.

Ischaemum involutum FORST. f. Prodr. (1786) 73.

Thuarea saramentosa PERS. Syn. **1** (1805) 110.

Guam (MERRILL). *Distrib.* A common Malay-Polynesian strand plant.
Jap. name: Sunazasa.

Zea LINNAEUS

Zea Mays LINN. Sp. Pl. (1753) 971; VOLKENS l. c. 50; MERR. l. c.
50.

Ponape 1597, Yap; Guam. *Jap. name:* Tômorokosi. *Distrib.* Introduced from America, now widely planted.

Zoisia WILLDENOW

Zoisia matrella (LINN.) MERR. in Philip. Journ. Sci. **7** (1912) Bot.
230.

Agrostis matrella LINN. Mant. **2** (1771) 185.

Zoisia pungens WILD. in Ges. Naturf. Fr. Neue Schrift **3** (1801)
441; VOLKENS l. c. 456.

Yap (VOLKENS). *Distrib.* Tropical Asia and Africa through Malaya to Australia and west Polynesia.

Cyperaceae**Carex LINNAEUS**

Carex fuirenoides GAUDICH. Bot. Freyc. Voy. (1826) 412; MERR. l. c. 58; KÜKENTH. in ENGL. Bot. Jahrb. **59** (1924) 10.
Guam (MERRILL). *Distrib.* Endemic.

Cladium P. BROWNE

Cladium aromaticum MERR. in Philip. Journ. Sci. **9** (1914) Bot. 59;
KÜKENTH. l. c. 7.
Guam (MERRILL). *Distrib.* Philippines.

Cladium colpodes LAUTERB. in SCHUM. et LAUTERB. Nachtr. Fl.
Deutsch. Schutzg. Südsee (1905) 59; KÜKENTH. l. c. 7.
Palau. *Distrib.* New Guinea.

Cladium Gaudichaudii W. F. WIGHT ex SAFFORD in Contr. U. S.
Herb. **9** (1905) 230; MERR. l. c. 59; KÜKENTH. l. c. 7.
Guam (MERRILL); Palau, Aimiriik 1967, 2345; Yap 1236. *Distrib.*
Endemic.

Cyperus LINNAEUS

Cyperus compressus LINN. Sp. Pl. (1753) 46; MERR. l. c. 59; KÜ-
KENTH. l. c. 3.
Guam (MERRILL), Ponape, Jaluit. *Distrib.* Tropics.

Cyperus cyperoides (LINN.) KÜKENTH. subsp. **cyperinus** (VAHL)
KÜKENTH. l. c. 3.
Cyperus cyperinus VAHL ex VOLKENS l. c. 457.
Yap, Palau, Ponape; Tinian 1057. *Distrib.* Tropical Asia to Poly-
nesia.

Cyperus difformis LINN. Cent. Pl. **2** (1756); MERR. l. c. 59; KÜ-
KENTH. l. c. 3.
Guam (MERRILL). *Distrib.* All tropical Countries.

Cyperus ferax var. **Novae-Hannoverae** (BOECK.) KÜKENTH. l. c. 4.
Cyperus Novae-Hannoverae BOECK. in ENGL. l. c. **5** (1884) 91.
Marianne Islands, Palau, Ponape. *Distrib.* New Guinea.

Cyperus Haspan LINN. Sp. Pl. (1753) 45; VOLKENS l. c. 457; KÜ-
KENTH. l. c. 3.

Yap (VOLKENS), Palau. *Distrib.* Pantropic.

Cyperus polystachyus ROTTB. Desc. Nov. Pl. (1773) 39; KÜKENTH I. c. 3.

Marianne Is. (GAUDICHAUD); Ponape. *Distrib.* Pantropic.

Cyperus rotundus LINN. Sp. Pl. (1753) 45; VOLKENS I. c. 457; MERR. I. c. 59; KÜKENTH. I. c. 3.

Yap (VOLKENS), Jaluit. *Distrib.* Pantropic.

Cyperus Zollingeri STEUD. in ZOLL. Verz. Ind. Archipel. (1854) 62; VOLKENS I. c. 457; KÜKENTH. I. c. 3.

Yap (VOLKENS), Truk. *Distrib.* Tropical Asia and Africa and through Malaya, Philippines to tropical Australia.

Diplacrum R. BROWN

Diplacrum carcinum R. BR. Prodr. (1810) 241; MERR. I. c. 60; KÜKENTH I. c. 9.

Scleria carcina BENTH; VOLKENS I. c. 458.

Guam, Palau, Yap. *Distrib.* India to China, Philippines southward to Australia.

Eleocharis R. BROWN

Eleocharis atropurpurea KUNTH, Enum. Pl. 2 (1837) 151; KÜKENTH. I. c. 4.

Eleocharis capitata (non R. Br.) MERR. I. c. 60.

Guam (MERRILL). *Distrib.* Temperate and tropical zone.

Eleocharis dulcis (BURM. f.) TRIN. ex HENSCHEL Vita Rumph. (1833) 186; MERR. Enum. Philip. Fl. Pl. 1 (1922) 119.

Andropogon dulcis BURM. f. Fl. Ind. (1768) 219.

Palau: Marikyoku 444. An aquatic plant. *Distrib.* India to Malaya.

Eleocharis plantaginoides (ROTTB.) W. F. WIGHT in Contr. U. S. Nat. Herb. 9 (1905) 268; MERR. I. c. 60; KÜKENTH. I. c. 4.

Scirpus plantaginoides ROTTB. Descr. et Icon. Pl. (1773) 45, t. 16, f. 2.

Guam (MERRILL), Palau. *Distrib.* Widely distributed in the tropics of the Old World.

Eleocharis variegata PRESL var. *laxiflora* (THW.) C. B. CLARKE in HOOK. f. Fl. Brit. Ind. 6 (1893) 626; KÜKENTH. I. c. 4.

Eleocharis fistulosa (non SCHULT.) VOLKENS l. c. 458.
 Ponape 679, 1515; Yap 1152. In open wet places. *Distrib.* India
 to Madagascar, China, Malaya and Polynesia.

Fimbristylis VAHL

Fimbristylis annua (ALL.) R. et S. Syst. **2** (1817) 95, var. **diphylla**
 (RETZ.) KÜKENTH. l. c. 4.

Guam, Truk; Saligan 2166; Yap 1243, 1099; Palau 2120; Ponape
 680. *Distrib.* Endemic.

forma **tomentosa** KÜKENTH. l. c. 4.

Guam, Saipan; Ponape 680; Palau 1; Yap 1099, 1243. A weed
 along roads. *Distrib.* Endemic.

var. **Royeniana** (NEES) KÜKENTH. forma **exolicata** KÜKENTH. l. c. 5.
 Palau, Yap. *Distrib.* Endemic.

var. **podocarpa** (NEES et MEYEN) KÜKENTH. l. c. 5.
 Ponape. *Distrib.*

var. **pseudoferruginea** KÜKENTH. l. c. 5.
 Ponape, Palau. *Distrib.*

Fimbristylis autumnalis (LINN.) R. et S. var. **complanata** (RETZ.)
 KÜKENTH. l. c. 6.

Yap. *Distrib.*

forma **hemispherica** KÜKENTH. l. c. 6.

Guam. *Distrib.*

Fimbristylis cymosa R. BR. Prodr. (1810) 228.

Saipan 1010. *Distrib.* Polynesia.

Fimbristylis cymosa R. BR. var. **umbellato-capitata** (MANN.) HIL-
 LEBR. Fl. Haw. Isl. (1888) 473; KÜKENTH. l. c. 6.

Guam. *Distrib.* Sandwich Islands.

Fimbristylis globulosa (RETZ.) KUNTH, Enum. **2** (1837) 231; VOL-
 KENS l. c. 458; MERR. l. c. 61; KÜKENTH. l. c. 5.

Scirpus globulosa RETZ. Obs. **6** (1791) 19.

Guam, Yap. *Distrib.* India to Malaya.

- Fimbristylis marianna** GAUDICH. in Bot. Freyc. Voy. (1826) 413;
KÜKENTH. l. c. 5.
- Fimbristylis maxima** K. SCHUM. Fl. Kais. Wilh.-Land (1889) 24;
VOLKENS l. c. 458; MERR. l. c. 61.
Guam; Yap 1148; Palau 117. *Distrib.* Endemic.
- Fimbristylis miliacea** (LINN.) VAHL, Enum. **2** (1806) 287; MERR.
l. c. 61; KÜKENTH. l. c. 6.
Scirpus miliaceus LINN. Syst. ed. 10 (1759) 868.
Ponape, Kolonia 678. In waste places. *Distrib.* Pantropic.
- Fimbristylis nutans** VAHL, Enum. **2** (1806) 285; VOLKENS l. c. 452;
KÜKENTH. l. c. 4.
Yap. *Distrib.* Tropical Australia and Asia.
- Fimbristylis pauciflora** R. BR. Prodr. (1810) 225; KÜKENTH. l. c. 4.
Eleocharis acicularis (non R. Br.) VOLKENS l. c. 458.
Yap. *Distrib.* Tropical Asia and Australia.
- Fimbristylis spathacea** ROTH, Nov. Sp. Pl. (1821) 24; VOLKENS l. c.
458; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 247.
Yap, Jaluit; Rota 1821; Palau 2028; Anatahan 2150.
- Fimbristylis urakasiana** KÜKENTH. l. c. 5.
Urakas Island (Marinnæ Islands). *Distrib.* Endemic.

Fuirena ROTTBOELL

- Fuirena umbellata** ROTTB. Descr. Ic. (1773) 70, t. 19, f. 3; VOL-
KENS l. c. 457; MERR. l. c. 62; KÜKENTH. l. c. 6.
Ponape, Kolonia 681; Yap 1147, 1149, 1246; Guam, Palau. *Distrib.*
Pantropic.

Hypolytrum L. C. RICHARD

- Hypolytrum dissiflorum** STEUD. Syn. Pl. Cyp. 132; KÜKENTH. l. c. 7.
Ponape 630, 807; Kusai 1341. *Distrib.* The Caroline and Marshall
Islands.
- var. **oligostachyum** SCHUM. et LAUTERB. Fl. Deutsch. Schutzg.
Südsee (1901) 190.
Ponape. *Distrib.* The type from Ponape; endemic.
- Hypolytrum latifolium** L. C. RICH. in PERS. Syn. **1** (1805) 70;
VOLKENS l. c. 457; KÜKENTH. l. c. 7.

Yap 1140. *Distrib.* India to Formosa, Philippines, Malaya to Polynesia. *Jap. name* : Suge-gaya.

Kyllingia ROTTBÖELL

Kyllingia brevifolia ROTTB. Descr. Ic. (1773) 13, t. 4, f. 3; MERR. l. c. 62; KÜKENTH. l. c. 2.

Palau, Marikyoku 399; Ponape, Kolonia 733; Tinian 1056; Guam. *Distrib.* Pantropic.

Kyllingia monocephalia ROTTB. Descr. Ic. (1773) 13, t. 4, f. 4; VOLKENS l. c. 457; MERR. l. c. 62; KÜKENTH. l. c. 2.

Saipan 902; Palau, Ponape, Yap and Guam; Anatahan 2144. *Distrib.* Pantropic. *Jap. name* : Oohime-kugu.

Lepironia L. C. RICHARD

Lepironia mucronata L. C. RICH. in PERS. Syn. **1** (1805) 70; VOLKENS l. c. 458; KÜKENTH. l. c. 9.

Yap. (VOLKENS). *Distrib.* Madagascar, Australia and Polynesia.

Mariscus GAERTNER

Mariscus cyperinus (RETZ.) VAHL, Enum. **2** (1806) 377; NEES in HOOK. Journ. Bot. Kew Micel. **6** (1854) 28.

Kyllingia cyperinus RETZ. Obs. **6** (1791) 21.

Tinian 1057. In thickets. *Distrib.* India to Malaya and Polynesia. *Jap. name* : Taiwan-kugu.

Mariscus pennatus (LAM.) MERR. Enum. Philip. Fl. Pl. **1** (1922) 113. *Cyperus pennatus* LAM. Tab. Encycl. **1** (1791) 114.

Mariscus albescens GAUDICH. Bot. Freyc. Voy. (1826) 415; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 247.

Cyperus stuppeus FORST. f. Prodr. (1786) 89, nom. nud.; KÜKENTH. l. c. 3.

Mariscus stuppeus MERR. in Philip. Journ. Sci. **3** (1908) Bot. 398, **9** (1914) Bot. 62.

Kusai 1307; Anatahan 2153; Guam; Jaluit; Yap 68, Palau 391; Ponape. Along shores and in mangrove swamps. *Distrib.* Tropical Africa to Southern Asia, Malaya and Polynesia. *Jap. name* : Onikugu.

Rynchospora VAHL

Rynchospora corymbosa (LINN.) BRITT. in Trans. N. Y. Acad. Sci. **11** (1892) 84; MERR. l. c. 62; KÜKENTH. l. c. 6.

Scirpus corymbosus LINN. Cent. Pl. **2** (1756) 7.

Rhyncospora aurea VAHL, VOLKENS l. c. 458.

Guam, Yap, Palau; Truk 607; Ponape 1513. In swampy places.

Distrib. Widely distributed in the tropics of both hemispheres.

Rhynchospora rubra (LOUR.) MAKINO in Bot. Mag. Tokyo **17** (1903)
180; MERR. l. c. 62; KÜKENTH. l. c. 6.

Schoenus rubra LOUR. Fl. Cochinch. (1780) 41.

Rhyncospora Wallichiana KUNTH, Enum. **2** (1837) 289; VOLKENS
l. c. 458.

Yap 1164; Palau 115, 202; Guam. *Distrib.* Tropical Africa and
Asia to Japan, southward through Malaya to Australia. *Jap.*

name:

Schoenus LINNAEUS

Schoenus calostachyus (R. BR.) POIRET ex KÜKENTH. in ENGL. Bot.
Jahrb. **59** (1924) 7.

Schoenus triangularis VOLKENS l. c. 458.

Yap, Palau (LEDERMANN). *Distrib.*

Scirpodendron ZIPPEL

Scirpodendron ghaeri (GAERTN.) MERR. in Philip. Journ. Sci. **9**
(1914) Bot. 269.

Chionanthus ghaeri GAERTN. Fruct. **1** (1781) 190, t. 29, f. a-c.

Scirpodendron costatum KURZ in Journ. As. Soc. Beng. **39**, 2 (1869)
85; VOLKENS l. c. 458; KÜKENTH. l. c. 9.

Yap; Ponape 1685. In wet places near the seashore, also along
streams at low altitudes.

Distrib. Ceylon through Malaya to Australia, Philippines and Poly-
nesia.

Scirpus LINNAEUS

Scirpus erectus POIR. in LAM. Encycl. **6** (1804) 671; MERR. l. c. 63;
KÜKENTH. l. c. 6.

Guam. *Distrib.* Warmer parts of both hemispheres.

Scirpus littoralis SCHRAD. Fl. Germ. **1**, 142, t. 5, f. 7; KÜKENTH.
l. c. 6.

Saipan (HÖFER). *Distrib.* Europe, Asia and Aegypt.

Scleria BERGIUS

Scleria bancana MIQ. Fl. Ind. Bat. Suppl. (1862) 693; KÜKENTH. l. c. 9.

Palau, Korror (LEDERMANN). *Distrib.* Tenasserim through Philippines, Malaya to New Guinea.

Scleria lithosperma (LINN.) SW. Prodr. (1788) 18; VOLKENS l. c. 458; KÜKENTH. l. c. 9; MERR. in Philip. Journ. Sci. **15** (1915) 541.

Scirpus lithospermus LINN. Sp. Pl. (1758) 51.

Saipan 1028; Yap 1118; Aramagan 2189. *Distrib.* Pantropic. *Jap. name:* Takao-sinzyugaya.

Scleria Margaritifera WILLD. Sp. Pl. **4** (1805) 312; VOLKENS l. c. 458; MERR. l. c. 63; KÜKENTH. l. c. 9.

Scleria hebecarpa (non NEES) VOLKENS l. c. 458.

Palau 118; Ponape 1567; Yap 1141. In open field. *Distrib.* Polynesia and Australia.

Scleria Merrillii PALLA in ALLEM. Bot. Zeitschr. **17** (1911) Beil. 8; KÜKENTH. l. c. 10.

? *Scleria laxa* R. BR. Prodr. (1810) 240; MERR. l. c. 63.

Guam, Ponape. *Distrib.* Philippines.

Scleria multifoliata BOECK. in Linnaea **38** (1874) 510; KÜKENTH. l. c. 9.

Palau, Babeldaob; Ponape, Leperei. *Distrib.* Malaya.

Scleria scrobiculata NEES in WIGHT, Contr. (1834) 117; KÜKENTH. l. c. 9.

Palau: Korror and Babeldaob. *Distrib.* Andamann Islands, Philippine, Riu-kiu and New Guinea. *Jap. name:* Oo-sinzyugaya.

Scleria zeylanica POIR. in Encycl. **7** (1806) 3; KÜKENTH. l. c. 10.

Palau, Babeldaob. *Distrib.* Malaya.

Thoracostachyum KURZ

Thoracostachyum hypolitroides C. B. CLARKE in HOOK. f. Brit. Ind. **6** (1894) 680; KÜKENTH. l. c. 8.

Palau, Babeldaob. *Distrib.* Asia and tropical Australia.

var. **immensum** KÜKENTH. l. c. 9.

Ponape: Leprerei (LEDERMANN); Ponape 1673. In swampy places at medium altitudes.

Nat. name: "pohge" (Ponape).

Torulinium DESVAUX

Torulinium ferax (L. C. RICH.) HAM. Prodr. Pl. Ind. Occ. (1825) 15. *Cyperus ferax* L. C. RICH. in Act. Soc. Hist. Nat. Paris 1 (1792) 106. Ponape 851; Guam (MERRILL). *Distrib.* Patropic.

Palmae

Areca LINNAEUS

Areca Catechu LINN. Sp. Pl. (1753) 1189; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 274.

Palau, Ponape. Planted. *Distrib.* Widely distributed in the Indo-Malayan region, cultivated in Palau, Ponape etc. The areca nut. Fruit is used by the natives for chewing with betle leaves.

Cocos LINNAEUS

Cocos nucifera LINN. Sp. Pl. (1753) 1188; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 274.

The coco-nut palm. *Distrib.* Pantropic. *Nat. names*: "nius" (Palau), "niu" (Yap), "nu" (Truk), "ni" (Ponape), "nu" (Kusai), "nizok" (Rota, Saipan).

Coelococcus H. WENDLAND

Coelococcus amicarum (WENDL.) W. F. WIGHT ex SAFFORD in Contr. U. S. Herb. 9 (1905) 244; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 274.

Sagus amicarum WENDL. in Bot. Zeit. 36 (1878) 115.

Coelococcus carolinensis DINGL. in Bot. Centralb. 32 (1887) 349.

Ponape 879. In primary forests at low altitudes. It occurs also in Truk and Kusai, occasionally planted in Ponape. *Distrib.* Endemic. *Nat. name*: "hibun" or "rubun" (Truk). The ivory nut.

Elaeis JACQUIN

Elaeis guineensis JACQ. Select. Am. (1763) 280, t. 172.

Planted in Ponape. A native of tropical America. The oil palm.

Exorrhiza BECCARI

Exorrhiza carolinensis (BECC.) BURRET, Fedde Repert. **24** (1926) 296; KANEHIRA in Bot. Mag. Tokyo **48** (1934) 731.

Bentinckiopsis carolinensis BECC. in Webbia **5**, 1 (1921) 113, ENGL. Bot. Jahrb. **59** (1924) 16; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 274.

Cyphonokentia (?) *carolinensis* BECC. in ENGL. l. c. **52** (1915) 4. Truk (KRÄMER). *Distrib.* Endemic. *Nat. name*: "kiryau" (Truk).

Exorrhiza ponapensis (BECC.) BURRET l. c. 394; KANEHIRA l. c. 732. *Bentinckiopsis ponapensis* BECC. in Webbia **5**, 1 (1921) 113; KANEHIRA, Fl. Micr. (1933) 72, f. 9.

Ponape 770, 1675. A very tall palm, scattered in primary forests at medium altitudes. *Distrib.* Endemic. *Nat. name*: "kotop" (Ponape); *Jap. name*: "otoko-yasi."

Glubiopsis BECCARI

Glubiopsis palauensis BECC. in ENGL. Bot. Jahrb. **59** (1924) 11; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 274, Fl. Micr. 76, f. 11. Palau 114, 1952, 3442. *Distrib.* Endemic. *Nat. name*: "akaboek" (Palau).

Heterospathe SCHEFFER

Heterospathe palauensis BECC. in ENGL. Bot. Jahrb. **52** (1914) 4; KANEHIRA Fl. Micr. 76, f. 12.

Palau 1904. *Distrib.* Endemic. *Nat. name*: "asbô" (Palau).

Nypa WURMB

Nypa fruticans WURMB in Verh. Bat. Genoots **1** (1779) 350; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 273.

Palau 451. Along tidal streams in brackish swamps. *Distrib.* India through Malaya to tropical Australia. *Nat. names*: "aian" (Yap), "kuwa" (Truk), "fals" (Kusai), "toyel" (Palau).

Ponapea BECCARI

Ponapea Ledermannii BECC. in ENGL. Bot. Jahrb. **59** (1924) 14; KANEHIRA l. c. 274, Fl. Micr. 78, f. 13.

Ponape 742; Kusai 1361. In primary forests at low and medium altitudes. *Distrib.* Endemic. *Nat. name*: "kattai"

Araceae**Alocasia** NECKER

Alocasia indica (ROXB.) SCHOTT, VOLKENS l. c. 459; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 247; ENGL. in DC. Monog. Phan. **2** (1879) 501.

Yap (VOLKENS), Jaluit (KOIDZUMI). *Distrib.* Tropical Asia.

Alocasia macrorrhiza (LINN.) SCHOTT, Melet **1** (1832) 18; ENGL. l. c. 502; MERR. l. c. 64.

Arum macrorrhiza LINN. Sp. Pl. (1753) 965.

Saipan 941. *Distrib.* India to Malaya, planted for ornamented purposes.

Colocasia SCHOTT

Colocasia esculenta (LINN.) SCHOTT Melet **1** (1832) 18; MERR. l. c. 64.

Arum esculentum LINN. Sp. Pl. (1753) 965.

Colocasia antiquorum SCHOTT l. c. 18; VOLKENS l. c. 459.

Palau 449, 450; Yap (VOLKENS). *Distrib.* Pantropic in cultivation. This is "Taro."

Cyrtosperma GRIFFITH

Cyrtosperma Chamissonis (SCHOTT) MERR. l. c. 65.

Arisacontis Chamissonis SCHOTT in Bonplandia **5** (1857) 129.

Cyrtosperma edule SCHOTT *ibid.* **9** (1861) 267, ENGL. Pflanzenr. **48** (1911) 17; VOLKENS l. c. 459.

Guam, Yap (VOLKENS). *Distrib.* New Guinea to Fiji, in cultivation.

Epipremnum SCHOTT

Epipremnum carolinensis VOLKENS l. c. 459.

Yap (VOLKENS). *Distrib.* Endemic.

Epipremnum pinnatum (LINN.) ENGL. Pflanzenr. **37** (1908) 60.

Pothos pinnata LINN. Sp. Pl. ed. 2 (1763) 1374.

Palau 390, 393. An epiphyte on a tree along roads. *Distrib.* Tenasserim to New Guinea and Polynesia.

Homalomena SCHOTT

Homalomena rubescens KUNTH, Enum. Pl. **3**, 57; VOLKENS l. c. 459.

Yap (VOLKENS). *Distrib.* East Indies.

Rhaphidophora HASSKARL

Rhaphidophora Engleri (ENGL. et KRAUSE) KANEHIRA nom. nov.
Rhaphidophora palauensis ENGL. et KRAUSE in ENGL. Bot. Jahrb.

56 (1921) 433; non KOIDZ. in Bot. Mag. Tokyo 30 (1916) 400.
Palau: 565, Babeldaob (LEDERMANN). *Distrib.* Endemic.

Rhaphidophora palauensis KOIDZ. in Bot. Mag. Tokyo 30 (1916)
400.

Palau: Angaur (KOIDZUMI & KAMIYA). *Distrib.* Endemic.

Rhaphidophora Koidzumii (KOIDZ.) KANEHIRA nom. nov.
Epipremnum palauense KOIDZ. in Bot. Mag. Tokyo 30 (1916) 401.
Palau, Korrör 165. The type from Korrör. *Distrib.* Endemic.

Flagellariaceae

Flagellaria LINNAEUS

Flagellaria indica LINN. Sp. Pl. (1753) 333; VOLKENS l. c. 453;
MERR. l. c. 65; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 274.
Palau: Aimiriik 257, Marikyoku 440; Ponape Kolonia 715; Saipan
899. A climber in forests from low to high altitudes. *Distrib.*
Tropical Africa, tropical Asia through Malaya to tropical
Australia.

Hanguana BLUME

Hanguana aquatica KANEHIRA in Trans. Nat. Hist. Soc. Formos.
25 (1935) 8, f. 10.

Palau 398. In Galdok Pond. *Distrib.* Endemic.

Xyridaceae

Xyris LINNAEUS

Xyris pauciflora WILLD. Phytogr. (1794) 2, t. 1; HOSOKAWA in
Trans. Nat. Hist. Soc. Formos. 24 (1934) 201.

Palau Korrör (HOSOKAWA). *Distrib.* India to China, Philippines and
Formosa through Malgya to Australia. *Jap. name*: Tôen-sô.

Eriocaulaceae

Eriocaulon LINNAEUS

Eriocaulon longifolium NEES et KUNTH, Enum. Pl. **3**, 567; VOLKENS l. c. 459.

Yap (VOLKENS). *Distrib.* Tropical Asia, Madagascar.

Eriocaulon sp.

Palau Marikyoku 443, 418. In open wet places.

Bromeliaceae

Ananas TOURNEFORT

Ananas comosus (LINN.) MERR. Interpret. Herb. Amb. (1917) 133, Sp. Blancoanae (1916) 94.

Bromelia comosus LINN. Stickman Herb. Amb. (1754) 21.

Ananas sativus SCHULTES f. Syst. **7**, 2 (1830) 1283; VOLKENS l. c. 459; MERR. l. c. 65.

Distrib. A native tropical America, now cultivated in all tropical countries. Pineapple.

Commelinaceae

Aneilema R. BROWN

Aneilema malabaricum (LINN.) MERR. in Philip. Jouan. Sci. **7** (1912) Bot. 232, **9** (1914) Bot. 66.

Tradescantia malabarica LINN. Sp. Pl. ed. 2 (1762) 412.

Distrib. India to the Riu-kiu Islands southward to Malaya.

Aneilema vitiense Seem. Fl. Vit. (1865-73) 314, t. 96, var. **petiolata** C. B. CLARKE in DC. Monog. Phan. **3** (1881) 220; MERR. in Philip. Journ. Sci. **15** (1919) Bot. 542.

Guam (MERRILL). *Distrib.* Philippines, Moluccas to Polynesia.

Commelina PLUMIER

Commelina bengalensis LINN. Sp. Pl. (1753) 41; MERR. l. c. 66.

Saipan 992; Guam (MERRILL). *Distrib.* Widely distributed in the tropics of the Old World.

Commelina nudiflora LINN. Sp. Pl. (1753) 4; VOLKENS l. c. 460; MERR. l. c. 66.

Guam (MERRILL), Yap (VOLKENS). *Distrib.* Pantropic.

Cyanotis D. DON

Cyanotis axillaris (LINN.) D. DON, Prodr. Fl. Nepal. (1825) 46; MERR.
I. c. 66.

Commelina axillaris LINN. Sp. Pl. (1753) 42.

Guam (MCGREGOR). *Distrib.* India to China southward to tropical
Australia.

Cyanotis crista (LINN.) D. DON, Prodr. Fl. Nepal. (1825) 46; MERR.
I. c. 66.

Commelina crista LINN. Sp. Pl. (1753) 42.

Guam. *Distrib.* Pantropic.

Zebrina SCHNIZLEIN

Zebrina pendula SCHNIZL. in Bot. Zeit. **7** (1849) 870; MERR. I. c. 66.
Saipan 951, 2239. *Distrib.* Introduced from tropical America, now
cultivated as an ornamental. Wandering jew.

Liliaceae

Allium TOURNEFORT

Allium cepa LINN. Sp. Pl. (1753) 300; MERR. I. c. 66.
Onion. Cultivated. *Jap. name:* Negi.

Cordyline ROYEN ex ADANSON

(*Sansevieria* THUNBERG)

Cordyline Roxburghiana (SCHULTES) MERR. in Enum. Philip. Fl.
Pl. **1** (1922) 206.

Sansevieria Roxburghiana SCHULTES Syst. **7** (1829) 357.

Sansevieria zeylanica ROXB. Pl. Coromandel. **2** (1798) 43, t. 184, quod
fig.; MIQ. Fl. Ind. Bat. **3** (1859) 559.

Cordyline hyacinthoides W. F. WIGHT in Contr. U. S. Nat. Herb. **9**
(1905) 249, non *Aloe hyacinthoides* LINN.

Palau. Cultivated. *Distrib.* A native of tropical, Asia, now pantropic
in cultivation. Bowstring hemp.

Dianella LAMARCK

Dianella ensifolia (LINN.) DC. in Red. Lil. (1802) t. 1; VOLKENS
I. c. 460; Merr. I. c. 66.

Dracaena ensifolia LINN. Mant. **1** (1767) 63.

Palau: Marikyoku 400, Aimiriik 1972; Guam; Yap. In forests at
low altitudes. *Distrib.* India to the Mascarene Islands, China,
Formosa, Malaya to tropical Australia and Polynesia.

Pleomele SALISBURY

- Pleomene angustifolia** (ROXB.) N. E. BR. in Kew Bull. (1914) 277 ;
 KANEHIRA in Bot. Mag. Tokyo **45** (1931) 275.
Dracaena angustifolia ROXB. Hort. Beng. (1814) 24.
 Palau 511, 1990, 2449, 2772. In thickets and rocky reefs. *Distrib.*
 India through Malaya to Australia. *Nat. name*: "orodaki"
 (Palau).

Smilax TOURNEFORT

- Smilax** sp.
 Truk 1723. In primary forests.

Taetsia MEDICUS

- Taetsia fruticosa** (LINN.) MERR. Interpret. Herb. Amb. (1917) 137.
Convallaria fruticosa LINN. Stickman Herb. Amb. (1754) 16.
Cordyline terminalis KUNTH in Abh. Acad. Berl. (1820) 30; VOL-
 KENS I. c. 460; MERR. I. c. 67.
 Yap (VOLKENS), Guam (MERRILL). *Distrib.* Pantropic in cultivation,
 probably a native of Malaya. *Jap. name*: Sennen-boku.

Amarilydaceae**Agave** LINNAEUS

- Agave viviparia** LINN. Sp. Pl. (1753) 323; MERR. I. c. 67.
 Guam, Palau. *Distrib.* A native of Mexico, now widely distributed.

Crinum LINNAEUS

- Crinum asiaticum** LINN. Sp. Pl. (1753) 292; MERR. I. c. 67; KOIDZ.
 in Bot. Mag. Tokyo **29** (1915) 247.
 Palau, Angaur 592; Saipan 1040; Kusai 1419; Jaluit; Guam.
Distrib. India to Malaya and western Polynesia. *Jap. name*:
 Taiwan-hamaomoto.
Crinum macrantherum ENGL. in Bot. Jahrb. **7** (1886) 448; VOL-
 KENS I. c. 460.
 Yap 1136. *Distrib.* Melanesia.

Curculigo GAERTNER

- Curculigo orchioides** GAERTN. Fruct. **1** (1788) 63, t. 13.
 Guam; Pagan 2211. In old fields. *Distrib.* India to Malaya.

Hymenocallis SALISBURY

Hymenocallis littoralis (JACQ.) SALISB. in Trans. Hort. Soc. **1** (1812) 338.

Pancratium littorale JACQ. Select. Amer. (1763) 99.

Guam. *Distrib.* A native of Mexico, introduced.

Hypoxis LINNAEUS

Hypoxis aurea LOUR. Fl. Cochinch. (1790) 200; VOLKENS l. c. 460.

Yap (VOLKENS). *Distrib.* India to Japan southward to the Philippines and Java.

Polyanthes LINNAEUS

Polyanthes tuberosus LINN. Sp. Pl. (1753) 316.

Guam. *Distrib.* A native of tropical America, introduced. *Jap. name:* Geturaikô.

Zephranthes HERBERT

Zephranthes rosea LINDL. Bot. Reg. **10** (1824) t. 821; MERR. l. c. 68.

Atomosco rosea GREENE Pittonia **3** (1897) 188.

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

Taccaceae**Tacca FORSTER**

Tacca palmata BLUME Enum. Pl. Jav. **1** (1827) §3.

Palau: Babeldaob 539, Aimiriik 292. *Distrib.* Malayan Archipelago.

Tacca pinnatifida FORST. Char. Gen. (1776) 70, t. 35; VOLKENS l. c. 460; MERR. l. c. 68.

Palau 342; Saipan 1038; Yap 1164. *Distrib.* Tropical Africa and Asia through Malaya to Australia. *Jap. name:* Tasiro-imo. *Nat. name:* "mok-mok" (Truk, Ponape, Kusai), "gabgab" (Rota).

Dioscoreaceae**Dioscorea PLUMIER**

Dioscorea alata LINN. Sp. Pl. (1753) 1033; MERR. l. c. 63.

Palau, Angaur 591. *Distrib.* Pantropic in cultivation, a native of the Old World Tropics. *Jap. name:* Daizyô.

- Dioscorea bulbifera** LINN. Sp. Pl. (1753) 1033; MERR. l. c. 68.
Palau Angaur 585; Kusai 1449. *Distrib.* India to China and Malaya.
Jap. name: Kasyû-imo.
- Dioscorea esculenta** (LOUR.) BURKILL in Gard. Bull. Straits Settl.
1 (1917) 396; MERR. Interpret. Herb. Amb. (1917) 147.
Oncus esculentus LOUR. Fl. Cochinch. (1790) 194.
Dioscorea aculeata (non LINN.) var. *tiliaefolia* PRAIN et BURKILL.
apud MERR. l. c. 68.
Saipan 1007, Guam (MERRILL). *Distrib.* India to Malaya and Poly-
nesia.
- Dioscorea korrensis** R. KNUTH in ENGL. Pflanzenr. **87** (IV 43) 190.
Palau, Korrör. *Distrib.* Endemic.
- Dioscorea Ledermannii** R. KNUTH l. c. 188.
Dioscorea flabellifolia (non PRAIN & BURKILL) KANEHIRA in Bot.
Mag. Tokyo **49** (1935) 271.
Palau, Babeldaob 2316. In primary forests at about 100 m altitude.
Distrib. Endemic.
- Dioscorea palauensis** R. KNUTH l. c. 191.
Palau, Korrör. *Distrib.* Endemic.
- Dioscorea pentaphylla** LINN. Sp. Pl. (1753) 1032.
Yap 1123, 1161. *Distrib.* India to Yunnan, southward through
Malaya to New Guinea.
- Dioscorea Raymundii** R. KNUTH l. c. 191.
Palau, Korrör. *Distrib.* Endemic.

Musaceae

Musa LINNAEUS

- Musa sapientum** Linn. Syst. ed. 10 (1759) 1393.
Widely cultivated. Banana. A number of forms are found in the
islands.
- Musa textilis** NÉE in Anal. Cienc. Nat. **4** (1801) 123.
Cultivated in Ponape, Yap, Kusai, Truk, etc. Abaca. *Distrib.*
The Philippines.

Ravenala ADANSON

Ravenala madagascariensis GMEL. Syst. (1791) 567; K. SCHUM. in ENGL. Pflanzenr. **1** (1900) 29, f. 6 & 7.

A native of Madagascar. Planted for ornamental purposes. Traveler's fan or Traveler's palm. *Jap. name*: Oogi-basyô.

Zingiberaceae

Costus LINNAEUS

Costus sericus BLUME Enum. Pl. Jav. **1** (1827) 62.

Yap 1255; Palau: Korrer 127, Aimiriik 323, Ogiwal 2064. In damp thickets at low altitudes. *Distrib.* Burma through Malaya, Philippines to New Guinea.

Costus speciosus (KOENIG) SM. in Trans. LINN. Soc. **1** (1791) 249; VOLKENS 1. c. 461.

Banksia speciosa KOENIG in Retz. Obs. **3** (1783) 75.

Yap (VOLKENS). *Distrib.* Widely distributed in cultivation. *Jap. name*: Oo-hozaki-ayame.

Curcuma LINNAEUS

Curcuma longa LINN. Sp. Pl. (1753) 2; VOLKENS 1. c. 460; MERR. 1. c. 69.

Yap (VOLKENS), Guam (MERRILL). *Distrib.* A native of India, now pantropic. Turmeric. *Jap. name*: Ukon.

Hedychium KOENIG

Hedychium coronarium KOENIG in Retz. Obs. **3** (1783) 73.

Truk 615, Ponape 692. *Distrib.* A native of India, now pantropic, cultivated and naturalized.

Languas KOENIG

Languas babelaobensis KANEHIRA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 7. f. 9.

Palau 321! 430, 2295. In primary forests at low altitudes. *Distrib.* Endemic.

Languas carolinensis (KOIDZ.) KANEHIRA comb. nov.

Alpinia carolinensis KOIDZ. in Bot. Mag. Tokyo **31** (1917) 233.

Ponape Kolonia 656, 1486. *Distrib.* The type from Ponape. Endemic.

Languas pubiflora (BENTH.) MERR. Enum. Philip. Fl. Pl. **1** (1922) 233.
Hellenia pubiflora BENTH. in HOOK. Lond. Journ. Bot. **2** (1843) 235.
Alpinia pubiflora K. SCHUM. in ENGL. Pflanzenr. **20** (1904) 313;
 VOLKENS I. c. 460.

Yap (VOLKENS). *Distrib.* New Guinea and Philippines.

Languas purpurata (VIEILL.) KANEHIRA comb. nov.

Guillainia purpurata VIEILL. in Bull. Soc. Linn. Norm. **10** (1866) 92.
Alpinia purpurata (VIEILL.) K. SCHUM. I. c. 323, f. 40, A; VOLKENS
 I. c. 460.

Yap (VOLKENS). *Distrib.* New Hannover, Solomon Islands, Molucas to New Caledonia.

Zingiber ADANSON

Zingiber officinale ROSC. in Trans. LINN. Soc. **8** (1807) 348; MERR.
 I. c. 69.

Guam. *Distrib.* A native of tropical Asia, now cultivated in all tropical and subtropical countries. *Jap. name*: Syôga.

Zingiber zerumbet (LINN.) SM. Exot. Bot. **2** (1804) 103, t. 112;
 MERR. I. c. 69.

Amomum zerumbet LINN. Sp. Pl. (1753) 1.

Truk 616; Ponape Kolonia 685, 741; Yap 1128, 1209. *Distrib.* A native of tropical Asia, now patropic.

Cannaceae

Canna LINNAEUS

Canna indica LINN. Sp. Pl. (1753) 1; MERR. I. c. 69.

Guam (MERRILL). *Distrib.* A native of tropical America, now pantropic. *Jap. name*: Dandoku.

Marantaceae

Donax LOUREIRO

Donax cannaeformis (FORST. f.) K. SCHUM. in ENGL. Bot. Jahrb. **15** (1893) 440.

Thalia cannaeformis FORST. f. Prodr. (1786) 1.

Palau: Korrör 136, Aimiriik 269, 1934, 2351. Along streams and swampy places. *Disirib.* Java, Philippines, Formosa, Borneo to New Guinea. *Jap. name*: Kôtô-kumatakeran.

Maranta LINNAEUS

Maranta arundinacea LINN. Sp. Pl. (1753) 2; MERR. I. c. 69.
Guam. *Distrib.* A native of tropical America, now widely distributed
in cultivation. *Jap. name*: Kuzu-ukon.

Burmanniaceae**Burmannia** LINNAEUS

Burmannia coelestis D. DON, Prodr. Fl. Nepal. (1825) 44; VOLKENS
I. c. 461.

Yap (VOLKENS). *Distrib.* India to Borneo and the Philippines.

Orchidaceae**Acriopsis** REINWARDT

Acriopsis javanica REINW. ex BL. Cat. Gew Buitenz. (1823) 97;
SCHLTR. in ENGL. Bot. Jahrb. 56 (1921) 491.

Palau: Aimiriik 290, Marikyoku 425, 1947, 2044. *Distrib.* Burma,
Malaya, Philippines to New Guinea.

Acriopsis sp.
Garamiscan 563.

Aglossorhyncha SCHLECHTER

Aglossorhyncha micronesiaca SCHLTR. I. c. 477.

Palau, Babeldaob. *Distrib.* Endemic. The genus distributed in New
Guinea.

Agrostophyllum BLUME

Agrostophyllum palawense SCHLTR. I. c. 476.

The type from Palau, Babeldaob. Aimiriik 302, 1971, 2761. *Distrib.*
Endemic.

Agrostophyllum nov. sp.?

Palau, Kamset 524, Aimiriik 1968. *Distrib.* Endemic?

Appendicula BLUME

Appendicula reflexa BLUME Bijdr. (1825) 301; SCHLTR. I. c. 478.

Palau: Korrer (RAYMUND), Marikyoku 426, Aimiriik 1946. *Distrib.*
Java.

Arundina BLUME

Arundina Kanehirae YAMAMOTO in Trans. Nat. Hist. Soc. Formos.
23 (1933) 20.
 Ponape 815, 1610. In forests at high altitudes. *Distrib.* Endemic.

Arundina sp. nov.?
 Palau Aimiriik 2319.

Bulbophyllum THOUARS

Bulbophyllum Gibbonianum SCHLTR. l. c. 483.
 The type from Babeldaob, Palau (LEDERMANN), Aimiriik 299, 2328,
 Arumonogui-zan 517. *Distrib.* Endemic.

Bulbophyllum guamense AMES. in Philip. Journ. Sci. **9** (1914)
 Bot. 13; MERR. l. c. 70; SCHLTR. l. c. 482.
 Guam. *Distrib.* Known only from Guam.

Bulbophyllum micronesiacum SCHLTR. l. c. 482.
 Yap (VOLKENS); Ponape, Patapat and Paue. *Distrib.* Endemic.

Bulbophyllum ponapense SCHLTR. l. c. 484.
 Truk, Tol (not Ponape), LEDERMANN. *Distrib.* Known only from
 Tol Island, Truk. Endemic.

Bulbophyllum profusum AMES in Philip. Journ. Sci. **7** (1912) Bot.
 128, 137; MERR. l. c. 70; SCHLTR. l. c. 485.
 Guam. *Distrib.* The Philippines.

Bulbophyllum Volkensii SCHLTR. in ENGL. Bot. Jahrb. **52** (1914)
 11, **56** (1911) 485.
 The type from Yap (VOLKENS), Palau (KRÄMER & LEDERMANN).
 Yap 1263. *Distrib.* Endemic.

Calanthe R. BROWN

Calanthe triplicata (WILLEM.) AMES in Philip. Journ. Sci. **2** (1904)
 Bot. 336; MERR. l. c. 70; SCHLTR. ENGL. l. c. **56** (1921) 479.
Orchis triplicata WILLEM. in Usteri Ann. Bot. **6**, 18 (1796) 52.
 Guam. *Distrib.* Widely distributed in the Indo-Malayan region.

Ceratostylis BLUME

Ceratostylis sp. nov.?
 Ponape, Kolonia 629! A genus not mentioned in the SCHLECHTER'S
 list.

Cheirostylis BLUME

Cheirostylis Raymundi SCHLTR. in ENGL. l. c. **52** (1914) 6, **56** (1921) 452.

Palau, Korrör, (RAYMUND). *Distrib.* Endemic.

Chilochista LINDLEY

Chilochista Loheri SCHLTR. in ENGL. l. c. **56** (1921) 491.

On a coral island, near Korrör, Palau (RAYMUND). Angaur (LOHER).
Distrib. Endemic.

Coelogyne LINDLEY

Coelogyne guamensis AMES in Philip. Journ. Sci. **9** (1914) Bot 11;
MERR. l. c. 71; SCHLTR. l. c. 457.

Palau Korrör 110. The type from Guam. *Distrib.* Endemic.

Coelogyne sp. SCHLTR. l. c. 457.

Guam (FRITZ).

Corymbis BLUME

Corymbis Ledermannii SCHLTR. in ENGL. l. c. **56** (1921) 456.

Palau Korrör (LEDERMANN); Guam (FRITZ). Palau Aimiriik 261,
1949. *Distrib.* Endemic.

Corysanthes R. BROWN

Corysanthes ponapensis HOSOKAWA et FUKUYAMA in Trans. Nat.
Hist. Soc. Formos. **25** (1935) 17.

Ponape HOSOKAWA 5699! *Distrib.* Endemic.

Dendrobium SWARTZ

Dendrobium Amesianum SCHLTR. in ENGL. l. c. **56** (1921) 568.

Ponape: Patapat, Nanpomal (LEDERMANN). *Distrib.* Endemic.

Dendrobium brachyanthum SCHLTR. l. c. 469.

The type from Babeldaob, Palau. Palau, Korrör 185, 230, 377.
Distrib. Endemic.

Dendrobium carolineuse SCHLTR. l. c. 472.

The type from Ponape, Patapat and Nanpomal. No. 324 collected
at Aimiriik, Palau is closely allied to this species. *Distrib.*
Endemic.

Dendrobium flavicole SCHLTR. l. c. 466.

The type from Patapat, Ponape. *Distrib.* Endemic.

Dendrobium guamense AMES in Philip. Journ. Sci. **9** (1914) Bot. 14;
MERR. l. c. 71; SCHLTR. l. c. 473.

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

Dendrobium Kerstingianum SCHLTR. in ENGL. l. c. **56** (1921) 467.
The type from Ngasur, Babeldaob, Palau (LEDERMANN). *Distrib.*
Endemic.

Dendrobium Kraemeri SCHLTR. in ENGL. l. c. **52** (1914) 10, **56** (1921)
471. The Type from Palau. *Distrib.* Endemic.

Dendrobium palawense SCHLTR. l. c. **52** (1914) 10, **56** (1921) 470.
The type from Korrer, Palau. Korrer 231, 1891, 1989. *Distrib.*
Endemic.

Dendrobium ponapense SCHLTR. in ENGL. l. c. **56** (1921) 471.
The type from Ponape. Niinoani-zan 813. *Distrib.* Endemic.

Dendrobium scopa LINDL. Bot. Reg. (1842) Misc. 55; AMES in Philip.
Journ. Sci. **9** (1914) Bot. 13; MERR. l. c. 71; SCHLTR. l. c. **56**
(1921) 469.

Desmotrichum scopa KRÄNZLIN in ENGL. Pflanzenr. IV, 50. II, 21
(1910) 349.

Guam. *Distrib.* Philippines, Celebes, New Guinea and Samoa.

Dendrobium violaceo-miniatum SCHLTR. in ENGL. l. c. **56** (1921)
470.

The type from Patapat, Ponape at 200-300 m alt. (LEDERMANN).
Distrib. Endemic.

Didymoplexis GRIFFITH

Didymoplexis fimbriata SCHLTR. in ENGL. l. c. **56** (1921) 449.

The type from Babeldaob, Palau (LEDERMANN). *Distrib.* Endemic.

Eulophia R. BROWN

Eulophia emarginata BL. Orch. Fl. Jav. (1858) 152; SCHLTR. l. c. 490.

Eulophia guamensis AMES in Philip. Journ. Sci. **9** (1914) Bot. 12;
MERR. l. c. 70.

The type from Guam. *Distrib.* Endemic.

Eulophia MacGregorii AMES l. c. 12; MERR. l. c. 70.

The type from Guam. *Distrib.* Endemic. No. 522 (Palau, Kamset) seems to be conspecific with the present species.

Galeola LOUREIRO

Galeola sp. SCHLTR. in ENGL. l. c. 52 (1914) 6, 56 (1921) 446.
Ponape (SCHNEE).

Habenaria WILLDENOW

Habenaria carolinensis SCHLTR. in ENGL. l. c. 56 (1921) 445.

The type from Ponape, Monte Santo at 700 m alt. (LEDERMANN).
Ponape, Niinoanizan 841. *Distrib.* Endemic.

Habenaria sp. VOLKENS l. c. 461; SCHLTR. in ENGL. l. c. 52 (1914)
5, 56 (1921) 445.

Yap (VOLKENS).

Hataeria BLUME

Hataeria Raymundi SCHLTR. in ENGL. l. c. 56 (1921) 453.

Hataeria sp. SCHLTR. in ENGL. l. c. 52 (1914) 7.

The type from Korrör, Palau (RAYMUND). *Distrib.* Endemic.

Hataeria sp.

Ponape 1551. In primary forests.

Liparis RICHARD

Liparis guamensis AMES in Philip. Journ. Sci. 9 (1914) Bot. 11;
MERR. l. c. 70; SCHLTR. in ENGL. l. c. 56 (1921) 464.

The type from Guam. Palau Aimiriik 2336. No. 518, collected
at Aimiyon, Palau may also belong to this species. *Distrib.*
Endemic.

Luisia GAUDICHAUD

Luisia teretifolia GAUD. in FREYC. Voy. Bot. (1825) 427, t. 37;
MERR. l. c. 70; SCHLTR. in ENGL. l. c. 52 (1914) 12; 56 (1921)
494.

Guam. *Distrib.* The type from Guam. Widely distributed in Malaya
and Polynesia.

Mediocalcar J. J. SMITH

Mediocalcar ponapense SCHLTR. in ENGL. I. c. **56** (1921) 475.

The type from Ponape, Patapat and Monte Santo (LEDERMANN).

Distrib. Endemic.

Microstylis NUTTALL

Microstylis calcarea SCHLTR. in ENGL. I. c. **56** (1921) 460.

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

Microstylis Kerstingiana SCHLTR. I. c. 460.

The type from Babeldaob, Palau (LEDERMANN). *Distrib.* Endemic.

Microstylis palawensis SCHLTR. I. c. 459.

Microstylis sp. SCHLTR. in ENGL. I. c. **52** (1914) 8.

The type from Babeldaob, Palau (LEDERMANN). *Distrib.* Endemic.

Microstylis setipes SCHLTR. I. c. 461.

The types from Babeldaob (LEDERMANN) and Korrör (RAYMUND)

Palau. *Distrib.* Endemic.

Microstylis Volkensii SCHLTR. I. c. 458.

Microstylis Wallichii (non LINDL.) VOLKENS I. c. 461.

Microstylis sp. SCHLTR. in ENGL. I. c. **52** (1914) 8.

The type from Yap (VOLKENS) and Babeldaob, Palau (LEDERMANN).

Distrib. Endemic.

Mourenhoutia BLUME

Mourenhoutia laxa SCHLTR. in ENGL. I. c. **56** (1921) 451.

The Type from Babeldaob, Palau (LEDERMANN). *Distrib.* Endemic.

Mourenhoutia laxa var. **glabrata** SCHLTR. I. c. 451.

The type from Ponape Patapat (LEDERMANN). *Distrib.* Endemic.

Mourenhoutia leucantha SCHLTR. I. c. 450.

The type from Monte Santo, Ponape (LEDERMANN). Ponape, Niino-

anizan 812. *Distrib.* Endemic.

Nervilia COMMERSON ex GAUDICHAUD

Nervilia Aragoana GAUDICH. in FREYC. Bot. Voy. (1826) 422, t. 35;

MERR. I. c. 70; SCHLTR. in ENGL. I. c. **56** (1921) 448.

The type from Guam. *Distrib.* Malaya to Samoa.

Nervilia? *ovata* GAUDICH. in FREYC. l. c. 422; SCHLTR. in ENGL. l. c. 52 (1914) 6.

The type from Rota, Mariane Islands. Collected by GAUDICHAUD but not ever since appeared. *Distrib.* Endemic.

Nervilia palawensis SCHLTR. in ENGL. l. c. 56 (1921) 447, f. 1.
The type from Babeldaob, Palau (LEDERMANN). Yap 1127. Probably a synonym of *Nervilia Aragona* GAUD. *Distrib.* Endemic.

Oberonia LINDLEY

Oberonia palawensis SCHLTR. in ENGL. l. c. 56 (1921) 462.
The type from Babeldaob, Palau (LEDERMANN). *Distrib.* Endemic.

Oberonia sp. nov. aff. **O. podostachys** SCHLTR. in ENGL. l. c. 463.
The type from Babeldaob, Palau (LEDERMANN).

Phajus LOUREIRO

Phajus amboinensis BL. Mus. Lugd.-Bat. 2 (1856) 180; SCHLTR. in ENGL. l. c. 56 (1921) 479.

Ponape, Patapat & Paue (LEDERMANN). Ponape, Niinoani-zan 814.
Distrib. Ambon.

Phreatia LINDLEY

Phreatia carolinensis SCHLTR. in ENGL. l. c. 56 (1921) 486.
The type from Tol, Truk Islands (not Ponape) at 400-600 m altitudes (LEDERMANN). *Distrib.* Endemic.

Phreatia ponapensis SCHLTR. in ENGL. l. c. 487.
The type in Monte Santo, Ponape at 600-800 alt. (LEDERMANN).
Distrib. Endemic.

Phreatia Thompsonii AMES in Philip, Journ. Sci. 9 (1914) Bot. 15; MERR. l. c. 70; SCHLTR. l. c. 486.

The type from Guam. Also from Tol, Truk and Nanpomal and Nankiop, Ponape (both LEDERMANN). *Distrib.* Endemic.

Pseuderia SCHLECHTER

Pseuderia micronesiaca SCHLTR. in ENGL. l. c. 56 (1921) 473.
The type from Patapat, Ponape, at 700-800 m alt. (LEDERMANN).
The genus known only from Moluccas and Papua. *Distrib.* Endemic.

Rhyncophreatia SCHLECHTER

Rhyncophreatia palawensis SCHLTR. in ENGL. l. c. **56** (1921) 488.
The type from Korrör. Palau: Korrör 141, Aimirrik 283, 1948,
Korrör 277. *Distrib.* Endemic. The genus known only from
New Guinea.

Rhyncophreatia nov. sp.?

Kusai 1373, 1441. In primary forests.

Robiquetia GAUDICHAUD

Robiquetia lutea (VOLKENS) SCHLTR. in ENGL. l. c. **52** (1914) 12,
56 (1921) 497.

Saccolobium luteum VOLKENS in ENGL. l. c. **31** (1901) 461.

Yap (VOLKENS), Truk (KRÄMER). Yap 1125, 1192; Truk 1714.
Distrib. Endemic.

Saccolobium BLUME

Saccolobium guamense AMES in Philip. Journ. Sci. **9** (1914) Bot.
15; MERR. l. c. 71; SCHLTR. in ENGL. l. c. **56** (1921) 497.
Guam (THOMPSON). *Distrib.* Endemic.

Sarcanthus LINDLEY

Sarcanthus sp. nov. SCHLTR. in ENGL. l. c. **56** (1921) 498.
Babeldaob, Palau (LEDERMANN). *Distrib.*

Sarchochilus R. BROWN

Sarchochilus sp. SCHLTR. in ENGL. l. c. **52** (1914) 12.
Korrör, Palau (RAYMUND). *Distrib.*

Sarchochilus sp.

Troas, Truk Island 614. In forests along the seashore.

Spathoglottis BLUME

Spathoglottis carolinensis SCHLTR. in ENGL. l. c. **52** (1914) 8, **56**
(1921) 480.

Spathoglottis plicata (non Bl.) VOLKENS l. c. 461.

Yap (VOLKENS), Palau, Korrör (RAYMUND). Yap 1159. Terrestrial
in open grass land. *Distrib.* Endemic.

Spathoglottis micronesiaca SCHLTR. in ENGL. l. c. **52** (1914) 9, **56**
(1921) 480.

Spathoglottis tomentosa (non LINDL.) VOLKENS l. c. 461.

The types from Yap (VOLKENS) and Korrör, Palau (RAYMUND).
Palau: Marikyoku 2045, Korrör 111, 152, Arumonogui 2085,
Aimiriik 329, 1974, 2353; Yap 1210, 1183; Rota 1771. *Distrib.*
Endemic. The latter species is distinguished from the former
by its smaller leaves and flowers.

Taeniophyllum BLUME

Taeniophyllum mariannense SCHLTR. in ENGL. l. c. **52** (1914) 13,
56 (1921) 500.

Vanilla fasciola GAUD. in Bot. FREYC. Voy. (1826) 427.

Taeniophyllum fasciola (non REICHB. f.) SAFFORD in Contr. U. S.
Nat. Herb. **9** (1905) 381.

Taeniophyllum sp. aff. *T. obtusum* BL.? AMES in Philip. Journ. Sci.
9 (1914) Bot. 16; MERR. l. c. 71.

The type from Guam (GAUDICHAUD). *Distrib.* Endemic.

Taeniophyllum palawense SCHLTR. in ENGL. l. c. **56** (1911) 499, f. 3.
Palau, Korrör 461. *Distrib.* Endemic.

Taeniophyllum petrophilum SCHLTR. in ENGL. l. c. 500.

The types from Mutok, Ponape; Ngarsul, Palau (LEDERMANN).
Distrib. Endemic.

Trichoglottis BLUME

Trichoglottis Ledermannii SCHLTR. in ENGL. l. c. **56** (1921) 496.

The type from Korrör, Palau. Palau 112, 1953, 1979, 2415. *Distrib.*
Endemic.

Trixspermum LOUREIRO

Trixspermum arachnitiforme SCHLTR. in ENGL. l. c. **56** (1921) 493.

The type from Leperei, Ponape (LEDERMANN). *Distrib.* Endemic.

Vandopsis PFITZER

Vandopsis Raymundi SCHLTR. in ENGL. l. c. **52** (1914) 12.

Vandopsis Warocqueana (non SCHLTR.) SCHLTR. in ENGL. l. c. **52**
(1914) 12.

The types from Korrör and Babeldaob, Palau. Palau: Aimiriik 320,
Marikyoku 427, a coral island 1988, 2413, Aimiriik 1920, 1983.
An epiphyte on a mangrove tree. *Distrib.* Endemic.

Vandopsis sp. nov.

Truk 1715. In primary forests.

Vanilla SWARTZ

Vanilla ponapensis KANEHIRA et YAMAMOTO in Trans. Nat. Hist. Formos. **23** (1933) 21.

Ponape, Sankakuyama 773. In thickets at 100-200 m altitudes. An epiphyte on a dead tree. The genus new to the flora of Micronesia.

Vrydagzynea BLUME

Vrydagzynea micronesiaca SCHLTR. in ENGL. l. c. **56** (1921) 455.

The type from Monte Santo, Ponape at 700 m alt. (LEDERMANN).
Distrib. Endemic.

Zeuxine LINDLEY

Zeuxine Fritzii SCHLTR. in ENGL. l. c. **56** (1921) 453.

The types from Ngarsul, Babeldaob, Palau (LEDERMANN) and also from Saipan (FRITZ). *Distrib.* Endemic.

Casuarinaceae**Casuarina** LINNAEUS

Casuarina equisetifolia LINN. Amoen. Acad. **4** (1759) 143; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 275.

Palau Angaur 574, Saipan 1013. Along the seashore. *Distrib.* Tropics of the Old World, pantropic in cultivation. *Nat. name*: "goago" (Rota), "ngasu" (Palau).

Piperaceae**Peperomia** RUIZ et PAVON

Peperomia breviramula C. DC. in ENGL. Bot. Jahrb. **56** (1921) 503.

The type from Monte Santo, Ponape (LEDERMANN). Ponape 756.
Distrib. Endemic.

Peperomia guamana C. DC. in Philip. Journ. Sci. (1914) Bot. 72.

The type from Guam. *Distrib.* Endemic.

Peperomia Hoeferi C. DC. in ENGL. l. c. 505.

The type from Saipan (HÖFER). In coral rock. *Distrib.* Endemic.
Nat. name: "potpot" (Saipan).

Peperomia Kraemeri C. DC. in ENGL. l. c. 503.

Palau, Korrer 243. The type from Korrer, Palau (KRAEMER). *Distrib.* Endemic.

Peperomia palauensis C. DC. in ENGL. l. c. 505.

The type from Korrer, Palau. On a coral rock (LEDERMANN). *Distrib.* Endemic.

Peperomia pellucida (LINN.) HBK. Nov. Gen. Sp. Pl. 1 (1815) 64;
MERR. l. c. 72.

Piper pellucida LINN. Sp. Pl. (1753) 30.

Piper bilineata MIQ. in Nov. Act. Acad. Nat. Cur. 19, Suppl. 1
(1843) 485; VOLKENS l. c. 461.

Guam (MERRILL), Yap (VOLKENS). *Distrib.* A pantropic species of
American origin.

Peperomia ponapensis C. DC. in ENGL. l. c. 504.

The type from Metaranium, Ponape. On basalt rock of the Nam-
matal ruin (LEDERMANN). Ponape 856. *Distrib.* Endemic.

Peperomia saipana C. DC. l. c. 72; ENGL. l. c. 56 (1921) 505.

Saipan 986, Rota 1739, Saligan 2171. The type from Saipan. *Nat.*
name: "Popudpod" (Saipan). *Distrib.* Endemic.

Peperomia Volkensii C. DC. in ENGL. l. c. 503.

The type from Lele, Kusai (VOLKENS) and also known from Boston
Island, Marshall Islands (FINSCH). *Distrib.* Endemic.

Peperomia yapensis C. DC. l. c. 505.

The type from Yap (VOLKENS). *Distrib.* Endemic.

Piper LINNAEUS

Piper Betle LINN. Sp. Pl. (1753) 28; VOLKENS l. c. 461; MERR.
l. c. 72.

Peperomia kusaiensis HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 120
should be compared with *P. Volkensii* C. DC.; *Peperomia pacifica* HOSOKAWA and *P.*
marianensis HOSOKAWA l. c. 119-120, with *Peperomia guamana* C. DC. and *P. saipana*
C. DC. respectively.

Palau 453-, Saipan 892; Saligan 2161. Cultivated in Saipan, Yap, and Palau for chewing. *Distrib.* India to Malaya.

Piper carolinense HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 117.

Palau HOSOKAWA 7505! *Distrib.* Endemic.

Piper fragile BENTH. in HOOK. Lond. Journ. Bot. **2** (1843) 234; K. SCHUM. et HOLLR. Fl. Kais. Wilhemsl. (1889) 36.

Palau, Korrer 341. *Distrib.* New Guinea.

Piper guhamense C. DC. Prodr. 16, 1 (1869) 336; MERR. l. c. 71; HOSOKAWA l. c. 117.

Guam. *Distrib.* Endemic, unless identical with the Polynesian *Piper methysticum* (MERRILL l. c.)

Piper kusaiense HOSOKAWA l. c. 118.

Kusai, HOSOKAWA 6324! *Distrib.* Endemic.

Piper majusculum BLUME in Verh. Betav. Gen. **11** (1926) 210.

Palau: Marikyoku 392, Angaur 568, Tōdai-yama 2027. In thickets at low altitudes. *Distrib.* Malaya.

Piper methysticum FORST. f. Fl. Escul Insular. Ocean. austr, (Diss.) (1786) 76; GUILLAUM. in Journ. Arnold Arb. **13** (1932) 82.

Ponape: Kolonia 671, Niinoani-zan 835. Usually cultivated but sometimes wild in forests. *Nat. names*: "shakau" (Ponape). The root used for drinking. *Distrib.* Polynesia.

Piper palauense HOSOKAWA l. c. 118.

Palau, Babeldaob. HOSOKAWA 7361. *Distrib.* Endemic.

Piper ponapense C. DC. in ENGL. l. c. **56** (1921) 502.

Ponape, Kolonia 672, 721. In primary forests at low altitudes. *Distrib.* Endemic.

Piper potamogetonifolium OPIZ in PRESL, Rel. Haenk. **1** (1828) 156; MERR. l. c. 72.

The type collected in Guam by HAENKE. "Known only from that island, unless the plant was erroneously localized, as many HAENKE's were" (MERRILL).

Piper spp. Truk 1288, 1716; Kusai 1350, 1388; Palau 196, 286; Rota 1741, 1753, 1788. Indeterminable specimens;

Ulmaceae**Celtis LINNAEUS**

Celtis paniculata PLANCH. in Ann. Sc. Nat. Sér. **3**, 10 (1848) 305;
KANEHIRA in Bot. Mag. Tokyo **46** (1931) 275, Fl. Micr. (1933)
82, f. 14.

Palau, a coral island near Korrör 353, 2001 Yap 1181, 1253. In
primary forests at low altitudes. *Distrib.* Polynesia to Australia.
Nat. name: "zahle" (yap).

Gironniera GAUDICHAUD

Gironniera celtidifolia GAUDICH. Bot. FREYC. Voy. (1844) t 85;
KANEHIRA l. c. 275, Fl. Micr. (1933) 83, f. 15.

Palau, Babeldaob 260, 1955, 2362; Ponape 797, 1608, 1626, 1651, 1654.
In primary forests from low to medium altitudes. *Distrib.* Bis-
marck Archipelago, Solomon Islands, Fiji, Samoa and the
Philippines. *Nat. name*: "Kehmut" (Ponape).

Trema LOUREIRO

Trema amboinensis (WILLD.) BLUME Mus. Bot. Lugd.-Bat. **2** (1856)
61; KANEHIRA l. c. 275, Fl. Micr. 85.

Celtis amboinensis WILLD. Sp. Pl. **4**, 2 (1805) 997.

Trema timorensis BLUME l. c. 62; VOLKENS l. c. 461.

Palau: Korrör 155, 2003, Babeldaob 530, 2346; Yap 1098. In thickets
and secondary forests. *Distrib.* Southern China to the Malay
Peninsula, Philippines, southward to New Guinea and north-
eastern Australia.

Trema orientalis BL. var. **argentea** (PL.) LAUTERB. in ENGL. l. c.
50 (2913) 320, f. B; KANEHIRA in Bot. Mag. Tokyo **45** (1931)
275, Fl. Micr. 85.

Tinian 52, Saipan 925, Anatahan 2143, Pagan 2206, Palau 1973,
2338. In thickets and secondary forests at low altitudes. *Dis-
trib.* India to Polynesia (the species), Bonin and Marianne Is-
lands (the variety). *Nat. name*: "banahl" (Saipan).

Moraceae**Artocarpus FORSTER**

Artocarpus communis FORST. Char. Gen. (1776) 101; KANEHIRA

- in Bot. Mag. Tokyo **45** (1931) 276, Fl. Micr. (1933) 86, f. 16.
 Ponape 726; Palau Angaur 571; Saipan 897. *Distrib.* A native tree, widely cultivated. *Nat. names:* Seedless variety: "mohs" (Kusai), "lemme" (Saipan), "lemai" (Rota), "mai" (Ponape), "arudu," "muzuh" (Palau), "sou" (Yap), "neoda" (Truk). Seeded variety: "mai chait" (Ponape), "rokurok" (Saipan), "mei chon" (edible), "aroyas" (not edible) (Truk).
- Artocarpus integra** (THUNB.) MERR. Interpret. Herb. Amb. (1917) 190; KANEHIRA l. c. 276, Fl. Micr. 87.
- Radermachia integra* THUNB. in Vet. Akad. Handl. Stockh. (1776) 254.
- Yap 1090. Planted also in Ponape, Palau, etc. *Distrib.* A native of tropical Asia, now widely distributed in cultivation.

Ficus LINNAEUS

- Ficus carolinensis** WARB. in SCHUM.-LAUTERB. Fl. Deutsch. Schutzg. Südsee (1905) 242; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 276, Fl. Micr. (1933) 77, f. 17.
- Ficus Saffordii* MERR. l. c. 74.
- The type from Marianne Islands (HAENKE's collection) and FRITZ's specimen from Saipan. Tinian 49; Yap 69, 70; Ponape 749, 771; Saipan 912, 997. Guam (MERRILL). In primary forests at low altitudes. *Distrib.* Endemic. (Marianne and Caroline Islands).
- Ficus mariannensis** MERR. in Philip. Journ. Sci. **9** (1914) Bot. 73. The type from Guam. *Distrib.* Endemic. *Nat. name:* "nunu" (Guam).
- Ficus philippinensis** MIQ. HOOK. Journ. Lond. Bot. **7** (1848) 435; KANEHIRA l. c. 276, Fl. Micr. 88.
- Ponape, Kolonia 648, 710, 1537. In thickets and forests at low altitudes. *Distrib.* Celebes, Moluccas, New Caledonia and the Philippines. *Nat. names:* "neen" (Ponape).
- Ficus ramentacea** ROXB. Fl. Ind. ed. 2, **3** (1832) 216; KANEHIRA l. c. 276, Fl. Micr. 89, f. 18.
- Palau: Korrör 184, 337, Babeldaob 379, 429, Aimiriik 1981, 2306. In thickets and secondary forests, an epiphyte climber. *Distrib.* Burma to southern China through Malaya to the Palau Islands.

Ficus retusa LINN. Mant. 1 (1767) 129; KANEHIRA l. c. 276, Fl. Micr. 90.

Palau: Korrer 143, Armatin 475, Angaur 573, a coral island 1907, 2009; Yap 1120; Kusai, Moto 1430. In thickets at low altitudes. *Distrib.* India to southern China, Formosa through Malaya to Australia and New Caledonia. *Nat. Name*: "nunu" (Saipan).

Ficus Senftiana WARB. in SCHUM.-LAUTERB. l. c. 247; KANEHIRA l. c. 276, Fl. Micr. 90, f. 19.

The type from Yap (VOLKENS). Palau, Korrer 157, 1852, Babeldaob 310; Yap 1091. In forests along the sea shore. *Distrib.* Endemic.

Ficus tenuistipula MERR. in Philip. Journ. Sci. 9 (1914) Bot. 75; KANEHIRA in Bot. Mag. Tokyo 49 (1935) 271.

Saipan 2252. The type from Guam. *Distrib.* Endemic.

Ficus tinctoria FORST. f. Prodr. (1786) 76; KANEHIRA l. c. 276, Fl. Micr. 91, f. 20.

Saipan 1, 15, 919, 943, 2228; Palau, Korrer 158, Angaur 576; Tinian 65, 913, 1073; Yap 1171, 1201; Aramagan 2192; Rota 1765; Truk 1271. In thickets and secondary forests. *Distrib.* Philippines to Polynesia.

Malaisia BLANCO

Malaisia scandens (LOUR.) PLANCH. in Ann. Sci. Nat. Bot. 4, 3 (1855) 293; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 227, Fl. Micr. (1933) 92.

Caturus scandens LOUR. Fl. Cochinch. (1790) 613.

Saipan 917, 931; Rota 1778. In thickets and edge of forests from low to medium altitudes.

Distrib. China and Formosa to Malaya, Australia and Polynesia.

Morus LINNAEUS

Morus alba LINN. Sp. Pl. (1753) 986; MERR. l. c. 73.

Guam. *Distrib.* A native of subtemperate Asia, now cultivated in all warm countries.

Urticaceae

Boehmeria JACQUIN

Boehmeria macrophylla D. DON, Prodr. Fl. Nep. (1825) 60, var.

Ponape, Kolonia 717; Aramagan 2185. In the edge of primary forests at low altitude. *Distrib.* Himalaya (the species).

Boehmeria nivea (LINN.) GAUDICH. Freyc. Bot. Voy. (1826) 499; MERR. l. c. 76.

Urtica nivea LINN. Sp. Pl. (1753) 895.

Guam. *Distrib.* A native of tropical Asia, now widely distributed in cultivation.

Boehmeria platyphylla DON, Prodr. Fl. Nepal. (1825) 60.

Kusai 1331, 1332. In thickets at low altitudes. *Distrib.* India to Africa, China, Japan, Malaya and tropical Australia.

Cypholophus WEDDELL

Cypholophus moluccanus (BL.) MIQ. Ann. Mus. Lugd.-Bat. 4 (1869) 305.

Urtica moluccana Bl. Bijdr. (1825) 491.

Ponape: Niinoani-zan 834, Tortom-zan 1552, Nānaraut-zan 1645. In primary forests at about 500-600 m alt. *Distrib.* Sumatra, Philippines, Formosa (Botel Tobago) to Hawaii.

Elatostema FORSTER

Elatostema calcareum MERR. l. c. 77.

Rota 1734. The type from Guam. In wet jungles. *Distrib.* Endemic.

Elatostema kusaiense KANEHIRA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 1, f. 1.

Kusai 1330, 1407!. In dense wet primary forests at about 100 m altitude. *Distrib.* Endemic.

Elatostema stenophyllum MERR. l. c. 76.

The type from Guam. *Distrib.* Endemic.

Elatostema stoloniforme KANEHIRA l. c. 2, f. 2.

Palau 311. In wet jungles. *Distrib.* Endemic.

Fleurya GAUDICHAUD

Fleurya interrupta (LINN.) GAUDICH. FREYC. Bot. Voy. (1826) 497; VOLKENS l. c. 462; MERR. l. c. 78.

Urtica interrupta LINN. Sp. Pl. (1753) 985.

Yap (VOLKENS), Guam (MERRILL). Ponape, Metaranium 789; along the road. *Distrib.* Abyssinia to Australia and Polynesia.

- Fleurya ruderalis** GAUDICH. l. c. 497; VOLKENS l. c. 462; MERR. l. c. 78; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 248.
Palau: Angaur 581, on coral rock, Korrer 228, 1872; Yap 1214; Kusai 1306. Along the seashore. *Distrib.* Philippines, Java to New Guinea and Polynesia.

Laportea GAUDICHAUD

- Laportea kusaiana** KANEHIRA in Bot. Mag. Tokyo **46** (1932) 449, Fl. Micr. (1933) 93, f. 21.
Kusai 1304! 1324! Ponape 3561. In forests from low to medium altitudes. *Distrib.* Endemic. The type from Kusai. *Nat. name*: "Lelesi" (Ponape).
Laportea saipanensis KANEHIRA in Bot. Mag. Tokyo **45** (1931) 277, Fl. Micr. (1933) 94, f. 22.
Saipan 5, 887, 973! 2218, 2251; Rota 1754, 1776, 1783. In primary and secondary forests. *Distrib.* Endemic. *Nat. names*: "kahtat" (Saipan), "kahtl" (Rota).

Pilea LINDLEY

- Pilea microphylla** (LINN.) LIEBM. in Vidensk. Selsk. Skr. **5**, 2 (1851) 302; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 248.
Parietaria microphylla LINN. Syst. ed. 10 (1759) 1308.
Palau, Korrer 109, 2029; Ponape 875; Kusai 1300. In damp places near houses. Jaluit (KOIDZUMI). *Distrib.* A native of tropical America, now in most tropical countries.

Oreocnide MIQUEL

- Oreocnide** sp.
Ponape, Sankaku-yama 762. In forests at low altitudes. A scandent shrub.
Oreocnide? sp.
Palau, in a coral island 250. A small shrub.

Pipturus WEDDELL

- Pipturus argenteus** (FORST. f.) WEDD. in DC. Prodr. **16**, 1 (1869) 235; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 277, Fl. Micr. (1933) 96.

Saipan 32, 47, 898, 937, 979; Saligan 2172; Rota 1772; Kusai 1302.

In primary forests at medium alt. *Distrib.* Malay Archipelago to Polynesia. *Nat. name*: "amahazan" (Rota).

Pipturus incanus WEDD. I. c. 235; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 248.

Jauit (KOIDZUMI). *Distrib.* Malaya to Polynesia.

Piptutus micronesianus KANEHIRA in Bot. Mag. Tokyo **49** (1935) 353.

Palau 250, 1870, 2433! In forests at low altitudes. *Distrib.* Endemic.

Pipturus repandus (BLUME) WEDD. in Arch Mus. Paris **9** (1856) 448; MERR. Enum. Philip. Fl. Pl. **2** (1923) 95.

Urtica repanda BL. Bijdr. (1825) 501.

Ponape 723, 762, 1487, 1695; Truk 1293. In forest at low altitudes. *Distrib.* Sumatra, Philippines to Moluccas. A scandent shrub.

Pouzolzia GAUDICHAUD

Pouzolzia zeylanica (LINN.) BENN. Pl. Jav. Rar. (1838) 67.

Parietaria zeylanica LINN. Sp. Pl. (1753) 131.

Pouzolzia indica GAUD. Bot. FREYC. Voy. (1826) 503; VOLKENS I. c. 462.

Palau Kamset 526, 2097. Along a road at low altitudes. Yap (VOLKENS). *Distrib.* A polymorphous species in Indo-Malayan distribution.

Procris COMMERSON

Procris pedunculata (FORST. f.) WEDD. in DC. Prodr. **14**, 1 (1869) 191; MERR. I. c. 78.

Elatostema pedunculatum FORST. f. Prodr. (1776) 105, t. 53.

Palau, Korrer 253, 375, 2005; Ponape, Kolonia 734, Sankakuyama 758, Parkier 734, Kity 1534; Saipan 995; Kusai 1401; Guam. In damp primary forests at low altitudes. *Distrib.* Malay Archipelago to Polynesia.

Proteaceae

Helicia LOUREIRO

Helicia micronesianica KANEHIRA Fl. Micr. (1933) 95, f. 23, et in Bot. Mag. Tokyo **47** (1933) 669.

Palau, Aimiriik 1970! 2113, 2337. In thickets and forests at low altitudes. *Distrib.* Endemic.

Santalaceae

Santalum LINNAEUS

Santalum album LINN. Sp. Pl. (1753) 849.

Ponape, Kolonia 1583. Planted in the Experiment Station. *Distrib.* India. Sandalwood tree.

Olacaceae

Olax LINNAEUS

Olax imbricata ROXB. Hort. Beng. (1814) 5, nom. nud., Fl. Ind. 1 (1820) 169; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 277.

Palau, Korrer 76, 2783. In thickets along the seashore. *Distrib.* India, Philippines to Malaya.

Ximenia PLUMIER

Ximenia americana LINN. Sp. Pl. (1753) 1193; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 278, Fl. Micr. (1933) 96.

Tinian 59, 1045, 1065; Palau Angaur 596; Kusai 1376; Rota 1813. In thickets immediately back of the beach along the seashore. A small spiny tree or shrub. *Distrib.* A pantropic strand plant.

Loranthaceae

Loranthus LINNAEUS

Loranthus caudatifolius KANEHIRA in Bot. Mag. Tokyo 46 (1932) 450, Fl. Micr. (1933) 98, f. 24.

Ponape Nânaraut-zan 1665! Metaranium 803. In forests at 400-700 m altitudes. *Distrib.* Endemic.

Loranthus ponapensis KANEHIRA l. c. 450, Fl. Micr. 98, f. 25.

Ponape 1637! In primary forests, Nânaraut-zan at 550 m alt. *Distrib.* Endemic.

Balanophoraceae

Balaniella PH. VAN TIEGHEM

Balaniella pedicellaris (SCHLTR.) HOSOKAWA in Trans. Nat. Hist. Soc.

Formos. **24** (1934) 201, Journ. Soc. Trop. Agr. **6** (1934) 572.

Balanophora pedicellaris SCHLTR. in ENGL. Bot. Jahrb. **52** (1915) 14, f. 1.

The type from Truk, Mount. Tol (KRÄMER). Truk Tol, 1298. In primary forests at 300-450 m altitudes. *Distrib.* Endemic.

Balanophora FORSTER

Balanophora mariannae HOSOKAWA in Journ. Trop. Agr. **6** (1934) 572.

The type from Saligan, it is also known from Saipan and Aramagan (*vide* HOSOKAWA). *Distrib.* Endemic.

Balanophora pentamera VAN TIEGH. in Ann. Sci. Nat. **9**, 6 (1907) 151; MERR. I. c. 78.*

The type from Guam. *Distrib.* Endemic.

Aristolochiaceae

Aristolochia LINNAEUS

Aristolochia elegans MAST. in Gard. Chron. **2**, 24 (1885) 301; MERR. I. c. 79.

Guam. *Distrib.* A native of tropical America, now cultivated in many tropical countries.

Polygonaceae

Antigonon ENDLICHER

Antigonon leptus HOOK. et ARN. Bot. Beech. Voy. (1841) 308, t. 69. Ponape, Saipan. Cultivated. *Distrib.* A native of tropical America, now widely distributed in cultivation.

Polygonum LINNAEUS

Polygonum barbatum LINN. Sp. Pl. (1753) 362; MERR. I. c. 80. Guam. In open wet places. *Distrib.* Tropical Asia to Malaya.

* "This species was very briefly characterized by VAN TIEGHEM, but his description is very inadequate. The type was from the Marianne Islands, collected by MARCHÉ in the year 1889. I at first considered our Guam material to represent a distinct species, as VAN TIEGHEM describes *Balanophora pentamera* as having usually 5-merous flowers, but sometimes with 6 or even 7 sepals, which does not agree with our specimens. The probabilities are, however, that a single species is represented, and while letting my description stand, I have adopted VAN TIEGHEM'S specific name." (MERRILL I. c.)

Chenopodiaceae**Chenopodium** LINNAEUS

Chenopodium album LINN. Sp. Pl. (1753) 219; MERR. I. c. 80.

Guam. *Distrib.* Widely distributed in the temperate and tropical regions of both hemispheres, probably originally European.

Jap. name: Akaza.

Chenopodium ambrosioides LINN. Sp. Pl. (1753) 219; MERR. I. c. 80.

Guam. *Distrib.* A native of Mexico, now widely distributed in the warmer parts of both hemispheres. *Jap. name:* Arita-sô.

Amaranthaceae**Achyranthes** LINNAEUS

Achyranthes aspera LINN. Sp. Pl. (1753) 204; MERR. I. c. 80.

Guam. A weed in open grass places. *Distrib.* Pantropic, probably originating in the eastern hemisphere.

Achyranthes bidentata BLUME Bijdr. (1825) 545.

Palau Angaur 580, Saligan 2169. In old clearings. *Distrib.* India to Philippines and Java.

Alternanthera FORSKÅL

Alternanthera denticulata R. BR. Prod. 1, 417; VOLKENS I. c. 462.

A weed in wet places. Yap (VOLKENS). *Distrib.* Pantropic.

Alternanthera sessilis (LINN.) R. BR. ex R. & S. Syst. 5 (1819) 554; VOLKENS I. c. 554.

Gomphrena sessilis LINN. Sp. Pl. ed. 2 (1762) 300.

Yap (VOLKENS). *Distrib.* Pantropic. *Jap. name:* Turu-nogeitô.

Alternanthera versicolor REGEL in Gartenflora (1869) 101; MERR. I. c. 81.

Guam. Cultivated. *Distrib.* Apparently a native of tropical America.

Amaranthus LINNAEUS

Amaranthus Blitum LINN. Sp. Pl. (1753) 990; KOIDZ. in Bot. Mag. Tokyo 29 (1915) 248.

Jaluit (KOIDZUMI). *Distrib.* Temperate and tropical zones.

Amaranthus spinosus LINN. Sp. Pl. (1753) 991; MERR. I. c. 80.

Palau Angaur 679; Saipan 962; Anatahan 2147. A weed in open waste places. *Distrib.* Pantropic. *Jap. name:* Haribiyu.

Amaranthus tricolor LINN. Sp. Pl. (1753) 989; MERR. I. c. 80.
Guam. Commonly cultivated, occasionally a weed. *Distrib.* Pantropic. *Jap. name:* Seiyô-hageitô.

Amaranthus viridis LINN. Sp. Pl. ed. 2 (1763) 1405; VOLKENS I. c. 462; MERR. I. c. 81.
Yap and Guam. Probably introduced. *Distrib.* Pantropic.

Amaranthus sp.
Kusai 1409. In thickets.

Celosia LINNAEUS

Celosia cristata LINN. Sp. Pl. (1753) 205; MERR. I. c. 81.
Guam. Introduced. *Distrib.* A native of tropical America.

Cyathula LOUREIRO

Cyathula prostrata (LINN.) BLUME Bijdr. (1825) 549; VOLKENS I. c. 462.

Achyranthes prostrata LINN. Sp. Pl. ed. 2 (1762) 296.
Ponape 852. In waste places. *Distrib.* Pantropic. *Jap. name:* Inokodutimodoki.

Deeringia R. BROWN

Deeringia amaranthoides (LAM.) MERR. Interpret. Herb. Amb. (1917) 211; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 278.

Achyranthes amaranthoides LAM. Encycl. **1** (1785) 548.
Saipan 40, 983. In the edge of primary forests at medium altitudes. *Distrib.* India to China, Formosa and Philippines southward to Australia. *Nat. name:* "pehzerak" (Saipan).

Gomphrena LINNAEUS

Gomphrena globosa LINN. Sp. Pl. (1753) 224; MERR. I. c. 81.
Guam; Kusai 1466. *Distrib.* A native of tropical countries, now cultivated or naturalized in all warm countries. *Jap. name:* Senniti-sô.

Psilotrichum LINNAEUS

Psilotrichum trichotomum BLUME Bijdr. (1825) 545.

Palau, Kamset 527. In open waste places. *Distrib.* India to the Malay Peninsula, Sumatra, Java, Philippines and Borneo.

Nyctaginaceae

Boerhaavia LINNEUS

Boerhaavia diffusa LINN. Sp. Pl. (1753) 3; MERR. l. c. 81.
Saipan 1034, 1041; Rota 1818. A common weed in and about towns. *Distrib.* Pantropic.

Bougainvillaea COMMERSON

Bougainvillaea spectabilis WILLD. Sp. Pl. 2 (1799) 348.
Saipan, Ponape etc. Planted in gardens. *Distrib.* A native of Madagascar, now widely cultivated for ornamental purposes.
Jap. name: Ikadakazura.

Mirabilis LINNAEUS

Mirabilis jalapa LINN. Sp. Pl. (1753) 177; MERR. l. c. 81; KOIDZ. in Bot. Mag. Tokyo 29 (1915) 249.
Guam; Jaluit; Kusai 1417. *Distrib.* A native of Mexico, now cultivated in all warm countries. *Jap. name:* Osiroi-bana.

Pisonia LINNAEUS

Pisonia grandis R. BR. Prodr. (1810) 422; MERR. l. c. 82; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 278, Fl. Mir. (1933) 98.
Pisonia Brunnoniana ENDL. Prodr. Fl. Norf. (1833) 43; VOLKENS l. c. 462.

Saipan 4, 968, 2219, 2245, 2256, Rota 1809. In primary forests at low and medium altitudes. The tree is very abundant in Tinian. *Distrib.* Philippines, Moluccas, north-eastern Australia across Polynesia to the Palmyra Islands. *Nat. names:* "umum" (Saipan), "umomo" (Rota).

Pisonia umbellifera (FORST.) SEEM. in Bonplandia 10 (1862) 154; KANEHIRA l. c. 278, Fl. Micr. 100, f. 26.

Ceodes umbellifera FORST. Char. Gen. (1776) 71, t. 71.

Saipan 969, 970, 985, 2235; Palau: Tôdai-yama 1858, Peliliu 2425, Angaur 578, 1846. In thickets and primary forests. *Distrib.* Formosa, Philippines, Java and Malaya to Australia and Poly-

nesia. *Nat. name*: "langsat" (Saipan). *Jap. name*: Nagami-no-udonoki.

Aizoaceae

Mollugo LINNAEUS

Mollugo pentaphylla LINN. Sp. Pl. (1753) 89; MERR. l. c. 82.
Palau, Korrer 372; Yap 1262. A weed in cultivated areas. *Distrib.*
India to Japan southward to Malaya. *Jap. name*: Zakuro-sô.

Sesuvium LINNAEUS

Sesuvium portulacastrum LINN. Syst. ed. 10 (1759) 1058; MERR.
l. c. 82.
Guam. Along sandy seashores. *Distrib.* Pantropic. *Jap. name*:
Hama-mizuna.

Portulacaceae

Portulaca LINNAEUS

Portulaca quadrifida LINN. Mant. 1 (1767) 73; VOLKENS l. c. 462.
MERR. l. c. 82.

Palau Marikyoku 454, Armatin 479; Saipan 1012. A weed in and
about villages. *Distrib.* Tropical Asia and Africa to Malaya.

Portulaca oleracea LINN. Sp. Pl. (1753) 445; VOLKENS l. c. 462,
MERR. l. c. 82; KOIDZ. in Bot. Mag. Tokyo 29 (1915) 249.
Yap, Guam, Jaluit. A weed. *Distrib.* All warm countries. *Jap.*
name: Tonbo-gusa.

Ceratophyllaceae

Ceratophyllum LINNAEUS

Ceratophyllum demersum LINN. Sp. Pl. (1753) 992; MERR. l. c. 82.
A weed in fresh water. Guam. *Distrib.* All warm countries. *Jap.*
name: Kingyo-mo.

Menispermaceae

Pachygone MIERS

Pachygone Ledermanni DIELS in ENGL. Bot. Jahrb. 56 (1921) 507;
KANEHIRA in Bot. Mag. 45 (1931) 278.

Palau, Kamset 541. The type from Babeldaob, Palau. A climber in forests at low altitudes. *Distrib.* Endemic.

Pachygone ponapensis KANEHIRA Mss.

Ponape, Kolonia 669, 1519.

Tinospora MIERS

Tinospora homosepala DIELS in Philip. Journ. Sci. **8** (1913) Bot. 158; MERR. l. c. 83.

The type from Guam. *Distrib.* Endemic.

Anonaceae

Anona LINNAEUS

Anona glabra LINN. Sp. Pl. (1753) 537; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 278.

Ponape 872. Planted. *Distrib.* Introduced from tropical America.

Anona muricata LINN. Sp. Pl. (1753) 537; KANEHIRA l. c. 278.

Palau Aimiyan 507; Ponape, Metaranium 782; Saipan 2250. Planted.

Distrib. A native of tropical America, now widely in cultivation.

Nat. name: "syasyap" (Saipan).

Anona reticulata LINN. Sp. Pl. (1753) 537; KANEHIRA l. c. 279.

Saipan 44, Tinian 1058. Planted. *Distrib.* Introduced from tropical America, now pantropic in cultivation.

Anona squamosa LINN. Sp. Pl. (1753) 537; MERR. l. c. 83; KANEHIRA Fl. Micr. (1933) 103.

Guam, Saipan. *Distrib.* A native of tropical America, now cultivated in all tropical countries.

Canangium BAILLON

Canangium odoratum (LAM.) BAIL. ex KING in Journ. As. Soc. Beng. **41**, 2 (1892) 41; KANEHIRA l. c. 279.

Uvaria odorata LAM. Encycl. **1** (1785) 595.

Ponape, Kolonia 870. Planted in gardens, road sides, sometimes in thickets in and about towns. *Distrib.* Indigenous in Burma and Java. Planted in most tropical countries.

Goniothalamus HOOK. f. et THOMSON

Goniothalamus carolinensis KANEHIRA in Bot. Mag. Tokyo **45** (1931) 279, Fl. Micr. (1933) 104, f. 28.

Palau Armatin 477, Kamset 531, New Gaspan 2125. *Distrib.* Endemic.

Guamia MERRILL

Guamia mariannae (SAFFORD) MERR. in Journ. Sci. **10** (1915) Bot. 243; KANEHIRA l. c. **45** (1931) 279, Fl. Micr. (1933) 106, f. 29. *Papualthia mariannae* SAFFORD in Journ. Washingt. Acad. Sci. **2** (1912) 456; DIELS in ENGL. Bot. Jahrb. **52** (1914) 16, f. 2. *Polyalthia mariannae* MERR. in Philip. Journ. Sci. **9** (1914) Bot. 83, Saipan 14, 883, 2236; Tinian 56, 1050, 1074, 2259; Rota 1805, 1768; Pagan 2199. Very common in forests and thickets from low to about 200 m alt. *Distrib.* The type from Guam, endemic. *Nat. name*: "paipai."

Polyalthia BLUME

Polyalthia Merrillii KANEHIRA Fl. Micr. (1933) 108, f. 30 seminudum in Bot. Mag. Tokyo **47** (1933) 669. Palau Tōdai-yama 2025. In dense primary forests at 100 m altitudes. *Distrib.* Endemic.

Myristicaceae

Horsfieldia WILLDENOW

Horsfieldia amklaal KANEHIRA Fl. Micr. (1833) 109, f. 31, Bot. Mag. Bot. Mag. Tokyo **47** (1933) 669. Palau Babeldaob 564, 1944, 1978, 2058! 2059! In primary forests at low altitudes. *Distrib.* Endemic. *Nat. name*: "amklaal" (Palau).
Horsfieldia nunu KANEHIRA in Bot. Mag. Tokyo **46** (1932) 451, Fl. Micr. 111, f. 32. Kusai 1303! 1314! In primary forests at medium altitudes. *Distrib.* Endemic. *Nat. name*: "nunu" (Kusai).
Horsfieldia palauensis KANEHIRA l. c. 452, Fl. Micr. 111, f. 32. Palau: Aimiriik 270! 1847, 1958! 1960, 2371; Korrer 1847, Gaspan 482, Peliliu 2440. In primary forests. *Distrib.* Endemic.

Myristica LINNAEUS

Myristica hypargyraea A. GRAY in Bot. U. S. Expl. Exped. (1854)

33; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 280, Fl. Micr. (1933) 113, f. 34.

Ponape: Parkier 727, Kolonia 763, Metaranium 788, Kity 1512, 1529, 1545. In primary forests at low altitudes. *Distrib.* The type from Navigator (Samoan) Islands. *Nat. name*: "karala" (Ponape).

Myristica insularis KANEHIRA semi-nud., Fl. Micr. 115. f. 35, Bot. Mag. Tokyo **47** (1933) 671.

Palau Tôdai-yama 1865! In dense primary forests at 150 m altitude. *Distrib.* Endemic.

Lauraceae

Cassytha LINNAEUS

Cassytha filiformis LINN. Sp. Pl. (1753) 35; VOLKENS l. c. 462; MERR. l. c. 84; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 249; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 280.

Palau Korrer 371; Saipan 1043. A strand climber. *Distrib.* Pan-tropic- *Jap. name*: Suna-zuru.

Cinnamomum TOURNEFORT

Cinnamomum carolinense KOIDZ. in Bot. Mag. Tokyo **30** (1916) 401; KANEHIRA l. c. 280, Fl. Micr. (1933) 117, f. 36.

Cinnamomum carolinense var. *oblongum* KANEHIRA in Bot. Mag. Tokyo **46** (1932) 452, Fl. Micr. 118, f. 37.

Ponape, Kolonia 639, 1492, 1524, 2139; Kusai Moto 1434, 1351. In thickets and primary forests about 100 m altitudes. *Distrib.* The type from Ponape. Endemic. *Nat. name*: "mattieu" (Ponape). The bark boiled in water is used for drinking.

Cinnamomum sessilifolium KANEHIRA l. c. 453, Fl. Micr. 119, f. 38. Ponape Nânaraut-zan 1658! In forests at about 700 m altitude. *Distrib.* Endemic.

Persea PLUMIER

Persea americana MILL. Gard. Dict. ed. 8 (1768).

Persea gratissima GAERTN. Fruct. **3** (1805-07) 222.

Ponape 1588. Planted in the garden of the Experiment Station.
Distrib. A native of tropical America.

Henandiaceae

Hernandia LINNAEUS

Hernandia ovigera LINN. in *Stickm. Herb. Amb.* 1754) 14, *Amoen. Acad.* **4** (1757) 125; MEISN. in *DC. Prodr.* **15**, 1 (1864) 262; KANEHIRA in *Bot. Mag. Tokyo* **45** (1931) 280. *Fl. Micr.* (1933) 121, f. 39.

Hernandia peltata MEISN. l. c. 263; MERR. l. c. 249.

Palau Marikyoku 435; Saipan 888; Kusai 1413; Rota 1780. *Distrib.* Ceylon to tropical East Africa, Madagascar, through Malaya to tropical Australia and Polynesia. *Nat. names*: "dokoo" (Palau), "gachal" (Yap), "nônak" (Saipan and Rota), "punpun" (Kusai).

Capparidaceae

Capparis LINNAEUS

Capparis carolinensis KANEHIRA in *Bot. Mag. Tokyo* **48** (1934) 919, f. 6.

Palau, Peliliu 2428. In thicket at low altitudes. *Distrib.* Endemic.

Capparis cordifolia LAM. *Encycl.* **1**, (1785) 609; MERR. l. c. 84; KANEHIRA in *Bot. Mag. Tokyo* **45** (1931) 280.

Capparis mariana JACQ. *Hort. Schoenbr.* **1** (1797) 109.

Tinian 1070, 1052, 2277; Saipan 1020; Rota 1812; Palau, a coral island 1994. Along the seashore. *Distrib.* Endemic.

Crataeva LINNAEUS

Crataeva speciosa VOLKENS l. c. 463; KANEHIRA in *Bot. Mag. Tokyo* **45** (1931) 281.

Palau Korrer 80, 2067, 2765; Truk 603; Yap 1106; Truk 1285; Ponape 1548. Very common in Yap; planted or growing spontaneously in Truk, Ponape and Palau. *Distrib.* Endemic. *Nat. names*: "abeech" (Yap), "kapopsung" (Palau), "abûts" (Truk).

Gynandropsis de CANDOLLE

Gynandropsis speciosa (HBK.) DC. Prodr. **1** (1824) 238.

Cleome speciosa HBK. Nov. Gen. Sp. Pl. **5** (1817) 84, t. 436.

Ponape 853. In waste places near houses. *Distrib.* A native of tropical America, now pantropic.

Polanisia RAFINESQUE

Polanisia icosandra (LINN.) W. et A. Prodr. (1834) 22.

Cleome icosandra LINN. Sp. Pl. (1753) 672.

Cleome viscosa LINN. l. c.; MERR. l. c. 85.

Saipan 909. A common weed in the settled area. *Distrib.* Pantropic. *Jap. name*: Hime-fûtyôso.

Cruciferae**Brassica** TOURNEFORT

Brassica integrifolia (WEST) O. E. SCHULZ var. **timoriana** (DC.)

O. E. SCHULZ in ENGL. Bot. Jahrb. **56** (1921) 507.

Sinapis integrifolia WEST Bijdr. St. Croix (1793) 296.

Ponape, Metaranium, Atol Napali (LEDERMANN). On sandy shores.

Distrib. The species pantropic.

Brassica juncea (LINN.) COSS. in Bull. Soc. Bot. Fr. **6** (1859) 609;

MERR. l. c. 84.

Sinapis juncea LINN. Sp. Pl. (1753) 668.

Guam. *Distrib.* A native of Asia, now widely distributed in all warm countries wild or cultivated. *Jap. name*: Takana.

Raphanus LINNAEUS

Raphanus sativus LINN. Sp. Pl. (1753) 669; MERR. l. c. 84.

Distrib. Cultivated in all warm countries. *Jap. name*: Hatukadaikon.

Moringaceae**Moringa** BURMAN

Moringa oleifera. LAM. Encycl. **1** (1785) 398.

Morinaga pterygiosperma. GAERTN. Fruct. **2** (1791) 314.

Ponape 1680. Planted in the Experiment Station. *Distrib.* Probably a native of India, now cultivated in all tropical countries.

Nepenthaceae

Nepenthes LINNAEUS

Nepenthes mirabilis (LOUR.) MERR. Interpret. Herb. Amb. (1917) 242; KANEHIRA in Bot. Mag. **45** (1931) 231.

Phyllamphora mirabilis LOUR. Fl. Cochinch. (1790) 606.

Nepenthes phyllamphora WILLD. Sp. Pl. **4**, 2 (1805) 874; VOLKENS l. c. 463.

Palau Korrer 78, Aimiriik 283, Marikyoku 420, 2051; Yap 1117. Very common in open fields and waste places in Palau and Yap. *Distrib.* Southern China and Indo-China, through Malaya and the Philippines to New Guinea. *Nat. names*: "finnabolo" or "mariek" (Yap), "amireek" (Palau).

Droseraceae

Drosera LINNAEUS

Drosera Burmanni VAHL Symb. **3** (1794) 50; DIELS in ENGL. Pflanzenr. **26** (1906) 75, t. 27, E-G.

Palau 2047. In open places. *Distrib.* India to Japan, Philippines southward to northern Australia. *Jap. name*: Kurumabamōsengoke.

Crassulaceae

Bryophyllum SALISBURY

Bryophyllum pinnatum (LAM.) KURZ in Journ. As. Soc. Beng. **40**, 2 (1876) 309; MERR. l. c. 85.

Cotyledon pinnatum LAM. Encycl. **2** (1786) 171.

Bryophyllum calycinum SALISB. Parad. Lond. (1805) t. 3; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 249.

Jaluit (KOIDZUMI). *Distrib.* In all tropical countries, probably a native of the eastern hemisphere. *Jap. name*: Seiron-benkei.

Pittosporaceae

Pittosporum BANKS

Pittosporum ponapense KANEHIRA in Bot. Mag. Tokyo **45** (1931) 281, Fl. Micr. (1933) 124, f. 40.

Ponape Kolonia 659! 1470! Truk 1292, 1273, 1718. In the edge of primary forests. *Distrib.* Endemic. *Nat. name*: "kamal" (Ponape).

Pittosporum kusaiense KANEHIRA l. c. **46** (1932) 454, Fl. Micr. 125, f. 41.

Kusai 1336! 1375! In primary forests at 400-500 m altitudes. *Nat. name*: "cane" (Kusai).

Rosaceae**Eriobotrya** LINDLEY

Eriobotrya japonica LINDL. in Trans. Linn. Soc. **13** (1822) 102.

Ponape Kolonia 1600. Planted. *Distrib.* Japan to China. *Jap. name*: Biwa.

Parinarium AUBLET

Parinarium corymbosum (BLUME) MIQ., Fl. Ind. Bat. **1**, 1 (1855) 356.

Maranthes corymbosa BL. Bijdr. (1825) 162.

Palau 166. In thickets. *Distrib.* India through Malaya, Philippines to tropical Australia.

Parinarium glaberrimum HASSK. in Tijdschr. Nat. Gesch. **10** (1843) 147, nom. nud., Cat. Hort. Bogor. (1844) 269, nom. nud., Fl. 27 (1844) 583; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 282, Fl. Micr. 127, f. 42.

Parinarium laurinum A. GRAY Bot. WILKES U. S. Explor. Exped. (1854) 490, t. 55.

Palau: Aimiriik 2296, Marikyoku 433, Babeldaob 2818, Arakabesan 2818; Ponape 847, 1538; Yap 1213; Kusai 1337. In forests near houses, sometimes in primary forests from low to medium altitudes; very abundant in Kusai. *Distrib.* Java, Borneo Philippines to Polynesia. *Nat. names*: "ais" (Ponape, Truk), "gritin" or "agaritin" (Palau, Yap), "yarado" or "adidi"

(Yap), "aset" (Kusai). Seeds oily and used for painting canoes and houses.

Parinarium palauense KANEHIRA in Bot. Mag. Tokyo **45** (1931) 282, Fl. Micr. 128, f. 43.

Palau Babeldaob Armatin 469!, Aimiriik 1940, 2373, 2753, Ogiwal 2060. In primary forests. *Distrib.* Endemic. *Nat. name:* "apgau" (Palau).

Rubus TOURNEFORT

Rubus moluccanus LINN. Sp. Pl. (1753) 1197.

Kusai 1338, 1394. In forests at medium altitudes. *Distrib.* India, through Malaya and Philippines to Australia and Fiji. *Nat. name:* "kôkor" (Kusai).

Connaraceae

Connarus LINNAEUS

Connarus Gaudichaudii (DC.) PLANCH. in Linnaea **23** (1850) 429; SCHELLENB. in ENGL. Bot. Jahrb. **59** (1924) 17; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 282, Fl. Micr. (1933) 129, f. 44.

Omphalobium Gaudichaudii DC. Prodr. **2** (1825) 85.

Palau: Korrer 81, 144, 364, 1894, 2074, 2392, 2464, Aimion 514, Arumonogui 2090, Aimiriik 1919, 2355. In thickets at low altitudes. *Distrib.* Moluccas to New Guinea.

Leguminosae

Abrus LINNAEUS

Abrus precatorius LINN. Syst. ed. 12 (1767) 472; VOLKENS l. c. 464; MERR. l. c. 91; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 283.

Ponape Metaranium 857; Tinian 1083. Very common in thickets and waste places. *Distrib.* Pantropic. *Jap. name:* Tôazuki.

Acacia WILLDENOW

Acacia confusa MERR. in Philip. Journ. Sci. **5** (1910) Bot. 27.

Planted in Saipan, Palau, Ponape. *Distrib.* Philippines, southern China to Formosa. Introduced. *Jap. name:* Sôsijyu.

Acacia Farnesiana (LINN.) WILLD. Sp. Pl. **4**, 2 (1805) 1083; MERR. l. c. 86.

Mimosa Farnesiana LINN. Sp. Pl. (1753) 521.

Guam. *Distrib.* A native of tropical America, now in all warm countries.

Jap. name: Gingôkan.

Acacia laurifolia WILLD. Sp. Pl. **4** (1805) 1053.

Rota 3532. In thickets. *Distrib.* Ranging from Fiji and Samoa to the New Hebrides and New Caledonia. A species new to the Micronesian flora. The specimen identified by Dr. MERRILL.

Adenantha ROYEN

Adenantha pavonina LINN. Sp. Pl. (1753) 385; MERR. l. c. 86.

Guam. Kusai 1335. In forests at medium altitudes. *Distrib.* A native of tropical Asia, now widely distributed in cultivation.

Nat. name: "metekam" (Kusai).

Aeschynomene LINNAEUS

Aeschynomene indica LINN. Sp. Pl. (1753) 713; MERR. l. c. 90.

Guam. *Distrib.* Widely distributed in the tropics of the Old World.

Jap. name: Kusanemu.

Albizzia DURAZZINI

Albizzia acle (BLANCO) MERR. in Philip. Journ. Sci. **5** (1910) Bot. 25.

Mimosa acle BLANCO Fl. Filip. (1837) 738.

Ponape Kolonia 667. Planted in avenues. *Distrib.* Introduced from Philippines.

Albizzia Lebbeck (LINN.) BENTH. in HOOK. Lond. Journ. Bot. **3** (1844) 87; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 283.

Mimosa Lebbeck LINN. Sp. Pl. (1753) 516.

Saipan 1084; Yap 1256. Planted in gardens. *Distrib.* A native of tropical Africa, now widely distributed in cultivation. *Jap.*

name: Biruma-nemu.

Albizzia retusa BENTH. in HOOK. l. c. **3** (1844) 90; VOLKENS l. c. 463.

Yap 1256. *Distrib.* Nicobar Islands across Malaya, Philippines to Polynesia.

Alysicarpus NECKER

Alysicarpus nummularifolium (LINN.) DC. Prodr. **2** (1825) 353;
MERR. l. c. 91.

Hedysarum nummularifolium LINN. Sp. Pl. (1753) 746.

Guam. *Distrib.* Widely distributed in the Indo-Malayan region,
introduced in tropical America. *Jap. name*: Nagaba-takehagi.

Alysicarpus vaginalis (LINN.) DC. Prodr. **2** (1825) 353; VOLKENS
l. c. 464.

Hedysarum vaginale LINN. Sp. Pl. (1753) 746.

Yap 1261. In open grassland. *Distrib.* Tropical Asia and Malaya.

Arachis LINNAEUS

Arachis hypogaea LINN. Sp. Pl. (1753) 741; MERR. l. c. 90.

Cultivated. *Distrib.* A native of tropical America, now widely
distributed in all warm countries. *Jap. name*: Nankin-mame.

Bauhinia LINNAEUS

Bauhinia monandra KURZ in Journ. As. Soc. Beng. **42**, 2 (1873)
73; MERR. l. c. 87.

Ponape, Kolonia 874. Planted for ornaments. *Distrib.* A native
of tropical America, now pantropic.

Bauhinia tomentosa LINN. Sp. Pl. (1753) 375; MERR. l. c. 87.

Guam. *Distrib.* A native of India, now widely distributed in cul-
tivation.

Caesalpinia LINNAEUS

Caesalpinia crista LINN. Sp. Pl. (1753) 380; MERR. l. c. 88.

Guam. *Distrib.* Pantropic. *Jap. name*: Sirotubu.

Caesalpinia jayabo MAZA in Anal. Soc. Esp. Hist. Nat. **19** (1890)
234; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 283.

Caesalpinia glabra MERR. l. c. 88, non *Guilandina glabra* MILL.

Palau Aimiriik 330; Rota 1808. *Distrib.* Pantropic. *Jap. name*:
Hasunomi-kadura.

Caesalpinia nuga (LINN.) AIT. Hort. Kew. ed. 2, **3** (1811) 32;
VOLKENS l. c. 464; KANEHIRA l. c. 283.

Guilandina nuga LINN. Sp. Pl. (1753) 546.

Palau, Korrer 360 2010, 2780; Yap 1207. On coral rock near the sea. *Distrib.* Pantropic. *Jap. name*: Nanten-kudura.

Caesalpinia pulcherrima (LINN.) SW. Obs. (1791) 166; VOLKENS l. c. 464; MERR. l. c. 89.

Poinciana pulcherrima LINN. Sp. Pl. (1753) 380.

Ponape, Kolonia 1678, 1679. Planted in gardens. *Distrib.* Origin of tropical America, now pantropic.

Caesalpinia Sappan LINN. Sp. Pl. (1753) 381; MERR. l. c. 89.

Guam. *Distrib.* Widely distributed in the Indo-Malayan region and in other tropical countries. *Jap. name*: Suwô-no-ki.

Cajanus de CANDOLLE

Cajanus cajan (MILL.) MILLSP. in Field Columb. Mus. Bot. **2** (1900) 53; MERR. l. c. 94.

Guam. *Distrib.* Probably a native of tropical Asia, now cultivated in all tropical countries. *Jap. name*: Kimame.

Canavalia de CANDOLLE

Canavalia ensiformis (LINN.) DC. Prodr. **2** (1825) 404; VOLKENS l. c. 464; MERR. l. c. 93; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 250.

Dolichos ensiformis LINN. Sp. Pl. (1753) 725.

Guam, Yap, Jaluit. *Distrib.* A native of the West Indies.

Canavalia lineata (THUNB.) DC. Prodr. **2** (1825) 404; MERR. l. c. 92.

Dolichos lineata THUNB. Fl. Jap. (1784) 280.

Guam. *Distrib.* Pantropic, along sandy seashores. *Jap. name*: Hama-natamame.

Canavalia megalantha MERR. in Philip. Journ. Sci. **9** (1914) Bot. 93. The type from Guam. *Distrib.* Endemic.

Canavalia microcarpa (DC.) PIPER in Proc. Biol. Soc. Wash. **30** (1917) 177.

Lablab microcarpa DC. Prodr. **2** (1825) 402.

Canavalia turgida GRAH. in WALL. Cat. (1832) No. 5534; MERR. l. c. 92.

Commonly near the seashore. *Distrib.* India to Malaya, southern China and Formosa to Polynesia. *Jap. name*: Takanatamame.

Cantharospermum WIGHT et ARNOTT

Cantharospermum scarabaeoides (LINN.) BAIL. Bull. Soc. Linn. Paris **1** (1883) 384; MERR. l. c. 93.

Dolichos scarabaeoides LINN. Sp. Pl. (1753) 726.

Guam; Saipan 966. In open grasslands. *Distrib.* India to the Mascarene Islands, southern China to Malaya. *Jap. name*: Birôdo-himeuzu.

Cassia LINNAEUS

Cassia alata LINN. Sp. Pl. (1753) 378; MERR. l. c. 88.

Palau, Armatin 481; Ponape, Metaranium 783. *Distrib.* Introduced from tropical America, now pantropic. *Jap. name*: Hane-senna.

Cassia fistula LINN. Sp. Pl. (1753) 377; MERR. l. c. 88.

Ponape, Kolonia 1586. Introduced recently by Dr. T. KARIYONE. *Distrib.* A native of tropical Asia, now widely distributed. *Jap. name*: Nanban-saikati.

Cassia mimosoides LINN. Sp. Pl. (1753) 379; MERR. l. c. 88.

Guam; Palau (OKAMOTO); Pagan 2202. *Distrib.* India to Japan southward to Australia.

Cassia occidentalis LINN. Sp. Pl. (1753) 377; VOLKENS l. c. 563; MERR. l. c. 88; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 250.

Saipan 959; Palau, Korrer 177, Angaur 583; Jaluit; Yap. *Distrib.* A native of tropical America, now pantropic. *Jap. name*: Habusô.

Cassia Sophora LINN. Sp. Pl. (1753) 379; VOLKENS l. c. 463; MERR. l. c. 88.

Guam, Yap. *Distrib.* The same distribution as the preceding.

Cassia surattensis BURM. f. Fl. Ind. (1768) 97.

Kusai 1460. Cultivated in garden. *Distrib.* A native of tropical America, now widespread in cultivation as a shade tree.

Cassia Tora LINN. Sp. Pl. (1753) 376; VOLKENS l. c. 463; MERR. l. c. 88.

Guam, Yap, Palau (OKAMOTO). *Distrib.* Same as the two preceding. *Jap. name*: Ebisu-gusa, Habutya.

Clitoria LINNAEUS

Clitoria ternata LINN. (1753) 753; MERR. l. c. 92.

Guam. *Distrib.* Probably a native of tropical America, now pan-tropic. *Jap. name*: Tyômame.

Crotalaria DILLENII

Crotalaria linifolia LINN. f. *Suppl.* (1781) 322; VOLKENS l. c. 464. Yap (VOLKENS). *Distrib.* India to southern China and Formosa southward through Malaya to Australia. *Jap. name*: Hosobatanukimame.

Crotalaria quinquefolia LINN. *Sp. Pl.* (1753) 716; MERR. l. c. 89. Guam. *Distrib.* Pantropic, probably a native of tropical America. *Jap. name*: Kibana-hagi.

Crotalaria trifolium WILLD. *Sp. Pl.* 3 (1800) 983; HOSOKAWA in *Trans. Nat. Hist. Soc. Formos.* 25 (1935) 18. Pagan HOSOKAWA 7974! *Distrib.* India, Malaya, Philippines to Australia.

Cynometra LINNAEUS

Cynometra carolinensis KANEHIRA in *Bot. Mag. Tokyo* 56 (1932) 455, *Fl. Micr.* 133, f. 45.

The type from Palau 510! (not 5101); Marikyoku 431, Korrer 2764, 2785, Aimiriik 314, 1982; Saipan 8, 915, 979.

Cynometra carolinensis var. **glabrescens** KANEHIRA

Palau Aimiriik 1915! (flos.), Marikyoku 2754 (flos.), Babeldaob 384 (sterile); Yap 1166 (fr.)

Cynometra Hosinoi KANEHIRA MSS.

Cynometra ramiflora (non LINN.) KANEHIRA in *Bot. Mag. Tokyo* 45 (1931) 283. The species is distinguished from *C. carolinensis* by its glabrous inflorescences, much larger leaves and nearly globose fruit which is rounded at the tip.

Ponape Kolonia 2140! (flos.) 662 (fr.), 1525 (fr.), 1543 (fr.). In thickets and forests.

Cynometra Yokotai KANEHIRA l. c. 454, *Fl. Micr.* 134, f. 46.

The type from Truk, Tol, 1277! In forests at medium altitudes. *Distrib.* Endemic.

Dalbergia LINNAEUS f.

Dalbergia candenatensis (DENNST.) PRAIN in *Journ. As. Soc. Beng.*

72, 2 (1901) 49; MERR. l. c. 91; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 283.

Cassia candenatensis DENNST. SCHLÜS. Hort. Malabar. (1818) 32.

Dalbergia torta GRAH. VOLKENS l. c. 464.

Palau Korrör 194, Ponape Kolonia 670; Yap 1208. In thickets along the seashore. *Distrib.* India to southern China southward to New Guinea and Australia. A strictly littoral species.

Dalbergia ferruginea ROXB. Hort. Beng. (1814) 98, nom. nud., Fl. Ind. ed. 2, **3** (1832) 228; VOLKENS l. c. 464.

Yap (VOLKENS). *Distrib.* Borneo, Philippines to New Guinea.

Dalbergia oligophylla HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 415.

Palau, Babeldaob HOSOKAWA 7298! *Distrib.* Endemic.

Dalbergia palauensis HOSOKAWA l. c. 415.

Palau Babeldaob, HOSOKAWA 6766! *Distrib.* Endemic.

Delonix RAFINESQUE

Delonix regia (BOJ.) RAF. Fl. Tellur. **2** (1836) 92; MERR. l. c. 88; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 285.

Poinciana regia BOJ. in CURTIS's Bot. Mag. **56** (1829) t. 2884; VOLKENS l. c. 463.

Planted for ornamental purpose in Saipan, Palau, Ponape etc.

Distrib. A native of Madagascar, now pantropic in cultivation.

Jap. name: Hōwōboku.

Derris LOUREIRO

Derris elliptica (ROXB.) BENTH. in Journ. Linn. Soc. Bot. **4** (1860) Suppl. 111; VOLKENS l. c. 464; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 284.

Galedupa elliptica BENTH. Hort. Beng. (1814) 53.

Palau, Marikyoku 446; Ponape 675; Yap 1163. *Distrib.* Chittagong through Malaya to New Guinea and Bismarck Archipelago. The plant is commonly cultivated and the roots are used for poisoning fish. *Nat. names:* "duup" (Palau), "yubu" (Yap), "uup" (Truk), "oop" (Kusai).

Derris mariannensis HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **25** (1935) 124.

Rota HOSOKAWA 7592. *Distrib.* Endemic.

Derris trifoliata LOUR. Fl. Cochinch. (1790) 433; KANEHIRA l. c. 283.

Derris uliginosa BENTH. in Miq. Pl. Jungh. (1852) 252; VOLKENS l. c. 464.

Palau Korrer 140, 174, 254; Marikyoku 2048; Truk 602; Ponape Kolonia 718; Kusai 1355. A climber in littoral forests. *Distrib.* Tropical East Africa through Asia and Malaya to Australia.

Desmodium DESVAUX

Desmodium capitatum (BURM. f.) DC. Prodr. **2** (1825) 336; VOLKENS l. c. 464.

Hedysarum capitatum BURM. f. Fl. Ind. (1768) 167, t. 64, f. 1.

Yap (VOLKENS). *Distrib.* India to Malaya.

Desmodium giganticum (LINN.) DC. Prodr. **2** (1825) 327; MERR. l. c. 90.

Hedysarum giganticum LINN. Sp. Pl. (1753) 746.

Guam. *Distrib.* Through the tropics of the Old World, introduced in the West Indies. *Jap. name:* Tamatunagi.

Desmodium heterocarpum (LINN.) DC. Prodr. **2** (1825) 337; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 284.

Hedysarum heterocarpum LINN. Sp. Pl. (1753) 747.

Desmodium polycarpum DC. Prodr. **2** (1825) 334; VOLKENS l. c. 464. Yap 1172; Ponape 1517, 1574. In open grasslands. *Distrib.* Tropical Africa and Asia through Malaya to Australia.

Desmodium heterophyllum (WILLD.) DC. Prodr. **2** (1825) 334; VOLKENS l. c. 464; MERR. l. c. 90.

Hedysarum heterophyllum WILLD. Sp. Pl. **3** (1800) 1201.

Yap. *Distrib.* India to the Mascarene Islands, southern China and Malaya.

Desmodium triflorum (LINN.) DC. Prodr. **2** (1825) 334; VOLKENS l. c. 464; MERR. l. c. 91.

Hedysarum triflorum LINN. Sp. Pl. (1753) 749.

Palau, Korrer 139; Ponape Metaranium 780. Aramagan 2183.

Distrib. Pantropic. *Jap. name:* Hai-makiehagi.

Desmodium umbellatum (LINN.) DC. Prodr. **2** (1825) 325; VOLKENS l. c. 464; MERR. l. c. 284.

Hedysarum umbellatum LINN. Sp. Pl. (1753) 747.

Palau, Korrer 96, 161, 2409, Marikyoku 437; Ponape Kolonia 690, Parkier 1511; Saipan 1018; Rota 1820.

In forests and thickets at low altitudes or in strand jungles. *Distrib.* Mascarene Islands and tropical Asia through Malaya to northern Australia. *Jap. name*: Ooikihagi.

Dioclea HUMBOLDT, BONPLAND et KUNTH

Dioclea reflexa HOOK. f. Niger Flora (1849) 306; VOLKENS l. c. 464. Yap (VOLKENS). *Distrib.* Pantropic.

Dolichos LINNAEUS

Dolichos Lablab LINN. Sp. Pl. (1753) 725; VOLKENS l. c. 464; MERR. l. c. 94.

Guam, Yap. *Distrib.* Pantropic in cultivation. *Jap. name*: Hudi-mame.

Entada ADANSON

Entada phaseoloides (LINN.) MERR. in Philip. Journ. Sci. **9** (1914) Bot. 86; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 284.

Lens phaseoloides LINN. in Stickm. Herb. Amb. (1754) 18.

Palau Korrer 121; Ponape 750; Saipan 990; Ponape 1697. In forests at low and medium altitudes. *Distrib.* Pantropic. *Nat. names*: "bozokdonkle" (Saipan), "kesegeguh" (Yap).

Erythrina LINNAEUS

Erythrina fuscus LOUR. Fl. Cochinch. (1790) 427; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 427.

Ponape 746, 1689. In swampy places near the sea. *Distrib.* India to Indo-China southward to Malaya and Polynesia.

Erythrina variegata LINN. in Stickm. Herb. Amb. (1754) 10; KANEHIRA l. c. 284.

Erythrina indica LAM. Encycl. **2** (1785) 391; VOLKENS l. c. 464; MERR. l. c. 92; KOIDZ. in Bot. Mag. Tokyo **29** (1915) 250.

Saipan 907, 1078. In forests near the seashore. *Distrib.* India, Philippines to Polynesia. *Nat. names*: "gau-gau" (Saipan), "ral," "lolo," (Yap).

Flemingia ROXBURGH

Flemingia strobifera (LINN.) R. BR. in Ait. Hort. Kew. ed. 2, 4 (1812) 350; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 285.

Hedysarum strobifera LINN. Sp. Pl. (1753) 764.

Yap 1205. Planted. *Distrib.* India to Malaya; introduced in Mauritius and the West Indies.

Gliricidia HUMBOLDT, BONPLAND et KUNTH

Gliricidia sepium (JACQ.) STEUD. nomencl. (1821) 688; VOLKENS l. c. 464.

Robinia sepium JACQ. Enum. (1760) 28.

Yap. *Distrib.* A native of Mexico, introduced.

Glycine LINNAEUS

Glycine cladestina WENDL.: DC. Prodr. 2 (1825) 241; BENTH. Fl. Austr. 2 (1864) 243; HOSOKAWA in Trans. Nat. Hist. Soc. Formos. 25 (1935) 18.

Tinian, Pangan and Saipan (HOSOKAWA). *Distrib.* Australia to Formosa.

Indigofera LINNAEUS

Indigofera suffruticosa MILL. Gard. Dict. ed. 8 (1768) No. 2; MERR. l. c. 89; DEGENER New Ill. Fl. Hawaiian Isl. 169 c.

Guam. *Distrib.* A native of tropical America, now pantropic. *Jap. name*: Nanban-koma-tunagi.

Indigofera tinctoria LINN. Sp. Pl. (1753) 751; MERR. l. c. 90.

Guam. *Distrib.* Pantropic. *Jap. name*: Taiwan-komatunagi.

Inocarpus FORSTER

Inocarpus edulis FORST. Char. Gen. (1776) 66, t. 33; VOLKENS l. c. 464; MERR. l. c. 91; KANEHIRA in Bot. Mag. Tokyo 45 (1931) 285, Fl. Micr. (1933) 140, f. 47.

Yap 1170; Palau Korrer 344. Very common in Palau, Yap, Ponape, Kusai and Truk but not found in Saipan. In thickets and forests near houses; frequently planted; the seeds are a favorite food among the natives. *Distrib.* Malay Archipelago. *Nat. names*: "marrap" (Ponape), "keam" (Palau), "bui" (Yap), "clark" (Kusai).

Intsia THOUARS

- Intsia bijuga** (COLEBR.) O. KUNTZE, Rev. Gen. Pl. (1891) 192; MERR. l. c. 87; KANEHIRA l. c. 285, Fl. Micr. 142, f. 48.
- Macrobium bijugum* COLEBR. in Trans. LINN. Soc. **12** (1819) 359, t. 17.
- Azelia bijuga* A. GRAY Bot. WILKES U. S. Explor. Exped. (1854) 467, t. 51; VOLKENS l. c. 463.
- Palau, Korror 363, 2401; Ponape Metaranium 854, 1693, Kolonia 1575; Saipan 905; Yap 1198; Rota 1751. In primary forests at low altitudes, usually along the seashore. *Distrib.* Madagascar across Malaya to Polynesia. *Nat. names*: "show," "wantal," "zolt" (Palau and Yap); "ifil" (Saipan); "tuamis" or "kuren" (Truk). *Jap. name*: Siroyona.

Leucaena BENTHAM

- Leucaena glauca** (LINN.) BENTH. in HOOK. Journ. Bot. **4** (1842) 416; VOLKENS l. c. 463; MERR. l. c. 86; KANEHIRA in Bot. Mag. Tokyo **45** (1931) 285.
- Mimosa glauca* LINN. Sp. Pl. (1753) 520.
- Saipan 960. Introduced from tropical America, now pantropic. *Nat. name*: "tagan-tagan." *Jap. name*: "Gingokwan."

Macropsychanthus HARMS

- Macropsychanthus carolinensis** KANEHIRA et HOSOKAWA in Trans. Nat. Hist. Soc. Formos. **24** (1934) 414.
- Moen, Truk 1711. In forests at medium altitudes. A genus new to the flora of Micronesia.

Mimosa LINNAEUS

- Mimosa pudica** LINN. Sp. Pl. (1753) 518.
- Ponape Kolonia 863. *Distrib.* Introduced from tropical America, now a pantropic weed. *Jap. name*: Nemurigusa.

Medicago LINNAEUS

- Medicago denticulata** WILLD. Sp. Pl. **3** (1803) 1414; MERR. l. c. 89.
- Guam. *Distrib.* A native of Europe, now cultivated in the north warm countries. *Jap. name*: Umakoyasi.