

## 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. PRESL<sup>1)</sup> and some of NÉE's specimens were studied by CAVANILLES<sup>2)</sup>. 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 BETCHE<sup>6)</sup> 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 papers<sup>7)</sup>, 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 Karolinen-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 papers<sup>1)</sup>.

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. MERRILL<sup>2)</sup>, "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. KOIDZUMI<sup>3)</sup> 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*<sup>1)</sup>. He also prepared and published his "*Flora Micronesica*"<sup>2)</sup> 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. HOSOKAWA<sup>2)</sup> 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

<sup>1)</sup> 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).

<sup>2)</sup> 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<sup>D</sup>.

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.

<sup>D</sup> 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.

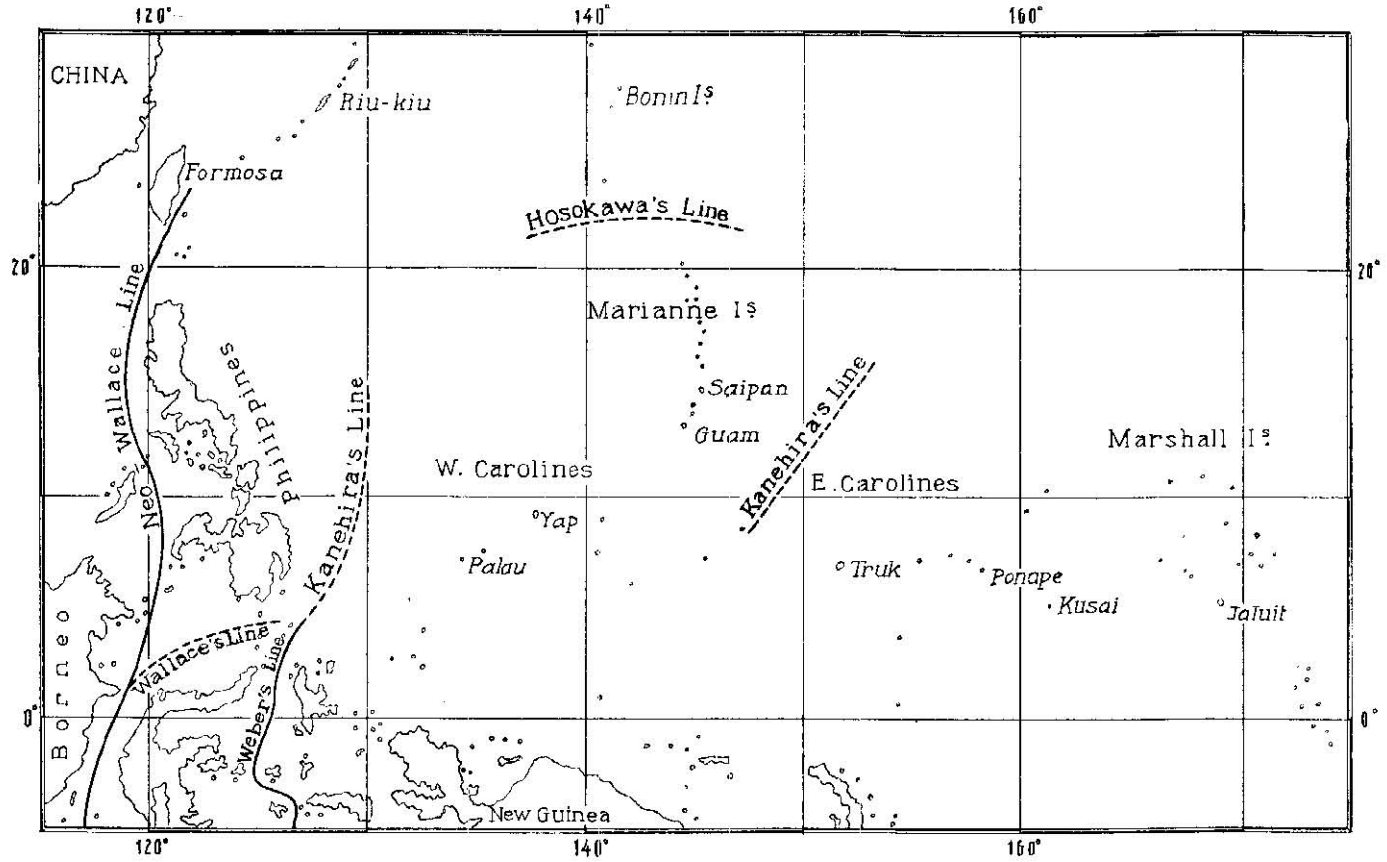
### 1934

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.* Tropical 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 I c. 453; MERR. I. 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; VOLKENS I. c. 453; MERR. I. 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.  
I. 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 I. c. 453.

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

**Nephrolepis acutifolia** (DESV.) CHRIST. in Verh. Nat. Ges. Basel. **11** (1905) 243; MERR. I. 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 squarrosum** 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. (Pandanaeeae)* (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. *Disirib.* 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** (GAUDICHI.) 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.* Meditaranean region to India.

**Panicum luzoniense** PRESL, Rel. Haenk. **1** (1830) 303; MERR. I. 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 I. c. 456.

Yap. *Distrib.* Pantropic.

#### **Paspalum** LINNAEUS

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

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

**Paspalum scrobiculatum** LINN. Mant. **1** (1767) 29; VOLKENS I. 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 I. 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, Korrôr 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.

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

Palau: Korrer 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** ZIPPEN

**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 Polynesia.

**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 Korrör, Palau. Korrör 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 Korrer. Palau: Korrer 141, Aimirrik 283, 1948,  
Korrer 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.  
Korrer, 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, Korrer (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 HOLLER. Fl. Kais. Wilhemsl. (1889) 36.

Palau, Korror 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, Tôdai-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: Korrer 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, Korrör 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, Korrör 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 Aimiyon 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; Korrör 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.) MILLS. 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.