

Enumeratio Tracheophytarum Ryukyu Insularum.

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During the summer vacation of 1922 I made a short trip to the island of Yakushima in order to collect plant. This was my first visit to an island of the Ryukyu Archipelago. The last one was made in the autumn of 1940 to Iriomote Island. Between these two visits I made about 20 plant-hunting trips to these islands and to several other islands in the Ryukyu Archipelago. As a result I was able to make a rather large collection of vascular plants growing there. Nearly all this collection is now preserved in the Herbarium of Taiwan National University (the former Taihoku Imperial University) where I was studying the flora of the Ryukyu Archipelago. Since I could bring only a very small part of the collection when I was repatriated in 1948 I cannot continue my study of the flora of the archipelago, so I have decided to publish my results in this form even though I know my investigations are not complete.

In this paper I use the title "the Ryukyu Archipelago," by which I mean the island chain which stretches between the main island of Kyusyu and that of Formosa.

I. LYCOPODIACEAE

1. *Urostacys* HERT.

1. ***Urostacys carinatus* (DESV.) HERT.** ex NESSEL, Bärlapp. p. 179 (1939) *Syn.* *Lycopodium carinatum* DESV., in LAMARK., Encycl. Bot. Suppl. III. p. 559 (1823); SPRING., Monogr. I. p. 59 (1841) et II. p. 26 (1848); TAGAWA, in Act. VIII. p. 229 (1939) *Nom. Nipp.* *Bokazura* *Hab.* Isigakizima *Distr.* Taiwan; Malay; Penninsl.; Philipp.; Polynesia.
2. ***U. chinensis* (CHR.) HERT;** NESSEL, Bärlap. p. 27 (1939) *Syn.* *Lycopodium chinense* CHR., in Neuv. Giorn. Bot. Ital. Nuov. IV. p. 101, t. 111, 4 (1897) et in Bull. Herb. Boiss. VII. p. 824 (1899); MASAMUNE, FY. p. 114 (1943) *Nom. Nipp.* *Himesugiran* *Hab.* Yakushima: alpine region *Distr.* Hokkaido; Honsyu; Sikoku; Kyusyu; China.
3. ***U. cryptomerianus* (MAX.) HERT;** NESSEL, Bärlap. p. 70, pl. 71 (1939) *Syn.* *Lycopodium cryptomerianum* MAXIM., in Bull. Acad. Sc. St. Pet. XII. p. 231 (1868) et in Mél. Biolog. VII. p. 340 (1870); MASAMUNE, FY. p. 115 (1934) *Nom. Nipp.* *Sugikazura* *Hab.* Yakushima *Distr.* Hokkaido; Honsyu; Sikoku; Kyusyu.

* Contribution from the Laboratory of Systematic Botany of the Faculty of Science, Kanazawa University, no .3.

4. *U. phlegmarius* (LINN.) HERT.; NESSEL, Bärlap. p. 215 (1939) *Syn.* *Lycopodium phlegmaria* LINN., Sp. Pl. ed. 1. p. 1101 (1753); CHR., in Bull. Herb. Boiss. 2. ser. 1. p. 1015 (1901); MATSUM., Ind. Pl. Jap. I. p. 395 (1904); SAKAG., Gen. Ind. Fl. Okin. p. 105 (1924); MASAMUNE, FY. p. 115 (1934) *Nom. Nipp.* *Yorakuhiba* **Hab.** Yakushima; Okinawa; Isigakizima; Iriomote. **Distr.** Taiwan; S-China; Philippin; Borneo; Java; Sumatra; Micronesia; Timor; Samoa; Hainan; Madagascar; Africa.
5. *U. poissonii* HERT.; NESSEL, Bärl. p. 196, Abb. 52 (1939) *Syn.* *Lycopodium poissonii* HERT., in Engl. Bot. Jährb. XLIII. Beiblatt. p. 51 (1909) **Hab.** Yakushima (FAURIE n. 4647 Herb. Mus. Paris!); Amami-ōshima (leg. WARB. Herb. Berl. !) **Distr.** Philipp.
6. *U. salvinoides* HERT., in Philipp. Journ. Sc. XXII. p. 67 (1923) *Syn.* *Lycopodium salvinoides* TAGAWA, in Act. VIII. p. 20 (1931) *Nom. Nipp.* *Himeyorakuran* **Hab.** Iriomote **Distr.** Taiwan; Philipp.
7. *U. serratus* (THUNB.) HERT., ex NESSEL, Bärl. p. 56 (1939) *Syn.* *Lycopodium serratum* THUNB. form. *intermedium* NAK., in TBM. XXXIX. p. 196 (1935); MASAMUNE, FY. p. 116 (1934) *Lycopodium serratum* THUNB. var. *javanicum* MAK.; KAWAG., in Bull. Kag. I. p. 106 (1915) *Lycopodium lucidulus* (non MICH.) WARB., Mons. I. p. 96 et 98 (1900); MATSUM., Ind. Pl. Jap. I. p. 358 (1904); NAK., in TBM. XXIX. p. 199 (1915); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 122 (1931) *Nom. Nipp.* *Togesiba* **Hab.** Iheyazima; Isigakizima; Iriomotezima; Nakanosima; Yakushima **Distr.** Hokkaido; Tisima; Honsyu; Sikoku; Kyusyu; Taiwan.
var. *longepetiolatum* (SPRING.) *Syn.* *Lycopodium serratum* THUNB. var. *longepetiolatum* SPRING., Monogr. Lycopod. II. p. 18 (1848); TAGAWA, in Act. VIII. p. 229 (1939) *Urostachys lucidulus* (non MICH.) HERB.; NESSEL, Bärl. p. 49 (1939) Pl. ex Osima *Nom. Nipp.* *Oni-togesiba* **Hab.** Iriomotezima; Okinawa; Amami-osima (Inter Nase-Gusuku) **Distr.** Taiwan; Hatizyozima.
var. *thunbergii* (Mak.) *Syn.* *Lycopodium serratum* THUNB., Fl. Jap. p. 341, t. 38 (1784); MASAMUNE, FY. p. 116 (1934) *Lycopodium serratum* THUNB. var. *Thunbergii* MAK., in TBM. XII. p. 12 (1896) *Nom. Nipp.* *Hosobatogesiba* **Hab.** Yaku-sima; Amami-osima **Distr.** Karahuto; Hokkaido; Honsyu; Sikoku; Kyusyu; Taiwan; Korea.
8. *U. sieboldii* (MIQ.) HERT.; NESSEL, Bärl. p. 138 (1939) *Syn.* *Lycopodium sieboldii* MIQ., in Ann. Mus. Bot. Lugd. Bat. III. p. 184 (1867); H. CHR., in Bull. Herb. Boiss. 2. ser. I. p. 1015 (1901); MASAMUNE, FY. p. 116 (1934); KODAMA, in TBM. XXXI. p. 18 (1907); TAGAWA, in Act. VIII. p. 229 (1939) *Nom. Nipp.* *Himoran*. **Hab.** Yakushima; Amami-osima; Okinawa. **Distr.** Honsyu; Kyusyu; Taiwan; Korea; Tahiti?
9. *U. quasiprimaevum* (KOIDZ.) MASAMUNE, in Tr. Nat. Histr. Soc. Formos. XXV. p. 409 (1936) *Syn.* *Lycopodium quasiprimaevum* KOIDZ., in Act. I. p. 32 (1932). *Nom. Nipp.* *Himosugiran*. **Hab.** Yakushima **Distr.** Endemic.
10. *U. subdistichum* (MAK.) HERT.; NESSEL, Bärl. p. 196 (1939) *Syn.* *Lycopodium*

subdistichum MAK., in TBM. XII. p. 37(1898); H. CHR., in Bull. Herb. Boiss. 2. ser. 1. p. 1015 (1901); MATSUM., Ind. Pl. Jap. I. p. 360 (1904) et 395 (1904); KAWAG., in Bull. Kag. I. p. 106 (1915); KODAMA, in TBM. XXXI. p. 18 (1917); SAKAG., Gen. Ind. Fl. Okin. p. 106 (1924); SASAI, Cat. Gov. Herb. Formos. p. 49 (1930); MASAMUNE, FY. p. 117 (1934) *Lycopodium fordii* (non BAK.) TAGAWA, in Act. VIII. p. 20 (1939) **Nom. Nipp.** *Nankakuran* **Hab.** Yakusima; Nakanosima; Amami-osima; Nonigawa Jul. 25, 1933 (leg. Ipse); Okinawa; Isigakizima; Iriomotezima; Nakaragawa
Distr. China; Taiwan; Kyusyu; Sikoku; Honsyu. **Not.** Very near to *U. fordii* (BAK.) but less ramosus. Leaves of the upper part of branches gradually become smaller and then change into sporophylli.

11. **U. tereticaulis** (HAY.) HERT; NESSEL, Bärl. p. 137 (1939) **Syn.** *Lycopodium tereticuale* HAY., Mat. Fl. Formos. p. 411 (1911); MASAMUNE, FY. p. 117 (1934) **Nom. Nipp.** *Hosohimoyorakuhiba* **Hab.** Yakusima **Distr.** Taiwan.
12. **U. yakusimensis** (MASAMUNE) NESSEL, Bärl. p. 65 (1937) **Syn.** *Lycopodium yakusimensis* MASAMUNE, Prel. Rep. Veg. Yak. p. 35 (1929) *Lycopodium chinensis* CHR. var. *somai* MASAMUNE, FY. p. 114 (1934) **Nom. Nipp.** *Yakusima-sugiran* **Hab.** Yakusima **Distr.** Endemic.

2. *Lycopodium* LINN.

1. **Lycopodium casuarinoides** SPRENG. var. *japonicum* NAK., in TBM. XLVI. p. 63 (1932); SATO, in JJB. XII. p. 827. f. 4 (1936) **Nom. Nipp.** *Kinobori-hikagenokazura* **Hab.** Yakusima **Distr.** Taiwan; Kyusyu.
2. **L. cernuum** LINN., Sp. Pl. ed. 1. p. 1103 (1753); CHR., in Bull. Herb. Boiss. ser. 2. I. p. 1020 (1901); WARB., Mons. I. p. 97 (1900); MATSUM., in Gakugeisirin XIV. p. 457 (1884) et Ind. Pl. Jap. I. p. 357 et 395 (1904); KAWAG., in Bull. Kag. I. p. 101 (1915); SIMADA, in Tr. Nat. Histr. Soc. Formos. 31. p. 21 (1917); SASAKI, Cat. Gov. Herb. Formos. p. 47 (1930); MASAMUNE, Prel. Rep. Veg. Yak. p. 35 (1929) et FY. p. 114 (1934); TAKENOUTI, in Hukuoka-Hak. II. p. 11 (1936); NESSEL, Bärl. p. 350 (1939) **Nom. Nipp.** *Mizusugi*. **Hab.** Tanegasima; Kitatane Aug. 13, 1934 (leg. K. MORI); Nakanosima; Iwozima; Amami-osima; Yakusima; Okinawa; Miyakozima; Daito-zima; Isigakizima; Iriomotezima; Yonakuni, X. 1916 (leg. SIMADA! in G. H. Formos. n. 23711!) **Distr.** Hokkaido; Honsyu; Sikoku; Kyusyu; Taiwan; Philipp.; China and other tropical regions.
3. **L. clavatum** LINN. var. *wallachianum* SPRENG., Monogr. Lycopod. p. 90 (1842); MASAMUNE, FY. p. 114 (1934) **Syn.** *Lycopodium clavatum* LINN. var. *nipponicum* (non NAK.) MASAMUNE, Prel. Rep. Veg. Yak. p. 35 (1929) **Nom. Nipp.** *Nango-ku-hikagenokazura* **Hab.** Yakusima **Distr.** Korea; Honsyu; Sikoku; Kyusyu.
var. *japonicum* THUNB., Fl. Jap. p. 341 (1784); NESSEL, Bärl. p. 297 (1939) **Nom. Nipp.** *Hikageno-kazura* **Hab.** Yakusima **Distr.** Taiwan; Honsyu; Kyusyu; Hokkaido
4. **L. obscurum** LINN., Sp. Pl. ed. 1. p. 1102 (1873); MASAMUNE, FY. p. 115 (1934)

- Nom.** *Nipp. Mannensugi* **Hab.** Yakusima: in the alpine region. **Distr.** Kamtchataka; Hokkaido; Honsyu; Sikoku; Kyusyu; Taiwan; Korea; Manchria.
 5. *L. sitchense* RUPR. var. *nikoense* TAKEDA, in TBM. XXIII. p. 221 (1909); MASAMUNE, FY. p. 117 (1934) *Syn.* *Lycopodium nikoense* FR. et SAV., Enum. Pl. Jap. II. p. 198 (1879) **Nom.** *Nipp. Takane-hikagenokazura* **Hab.** Yakusima: in the alpine region. **Distr.** Karahuto; Hokkaido; Honsyu; Sikoku; Kyusyu; Philipp.

II. SELAGINELLACEAE

1. *Selaginella* SPRING.

1. *Selaginella biformis* A. BR. ex KUHN., Fil. Afr. p. 189 (1868); ALSTON, in Fan. Mem. Inst. Biolog. V. p. 282 (1934); KOIDZ., in Act. IV. p. 226 (1935) **Nom.** *Nipp. Turukatahiba* **Hab.** Okinawa **Distr.** S.-China; Hainan.
2. *S. döderleini* HIERON., in Hedwig. XL. 3. p. 41 (1904); ALSTON, in J.-Bot. 70, p. 93 (1932) et in Bull. Fan. Mem. Inst. Biolog. V. p. 279 (1934); KOIDZ., in Act. IV. p. 225 (1935) *Syn.* *Selaginella atroviridis* (non SPRENG.) WARB., Mons. p. 103 (1900); MATSUM., In d. Pl. Jap. I. p. 360 (1904); KODAMA, in TBM. XXXI. p. 18 (1917); SAKAGUTI, Gen. Ind. Fl. Okin. p. 105 (1924); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 124 (1931); MASAMUNE, FY. p. 119 (1934) *Selaginella canaliculata* BAK.; KAWAG, in Bull. Kag. I. p. 106 (1915) *Selaginella springiana* (non ROSEN.) SASAKI, Cat. Gov. Herb. Formos. p. 50 (1930) **Nom.** *Nipp. Onikuramagoke* **Hab.** Tanegasima; Yakusima; Nakanosima; Amami-osima, IV. 1910 (leg. T. KAMIYA in G. H. Formos. n. 2543!); Okinoerabuzima; Tokunosima; Okinawa: Kunigani (leg. Ispe 1924. III. 21); Isigakizima; Iriomote. **Distr.** Kyusyu; Taiwan; China Australis; Hainan.
3. *S. heterostachys* BAK., in Journ. Bot. XXIII. p. 177 (1885) et Fern. All. p. 110 (1887); ALSTON, in Journ. Bot. LXX. p. 62 (1932); KOIDZ., in Act. IV. p. 230 (1935) *Syn.* *Selaginella recurvifolia* A. BR., apud WARB., Mons. I. p. 109 (1900) **Nom.** *Nipp. Himetatikuramagoke*; *Kokekatahiba* **Hab.** Tanegasima; Yakusima; Tokunosima **Distr.** Taiwan; Hainan.
4. *S. kelungensis* HAY., Ic. Pl. Formos. VII. p. 97. f. 59(1918); KOIDZ., in Act. IV. p. 228 (1935) *Syn.* *Selaginella limbata* ALSTON, in Journ. Bot. LXX. p. 70 (1932) et in Bull. Fan. Mem. Inst. Biolog. V. p. 275 (1934) *S. kraussiana* A. BR.; MAK. et NEMOTO, Fl. Jap. p. 1551 (1925) p. p. **Nom.** *Nipp. Okinawa-kuramagoke* **Hab.** Amami-osima; Yonakuni **Distr.** Taiwan.
5. *S. lutchuensis* KOIDZ., Pl. Nov. Amami-osima p. 4 (1929) et in Act. III. p. 228 (1935) **Nom.** *Nipp. Himekuramagoke* **Hab.** Amami-osima; Okinawa **Distr.** Endemic.
6. *S. pachystachys* KOIDZ., in Act. IV. p. 226 (1935) *Syn.* *Selaginella caulescens* (non SPRING.) SAKAGUTI, Gen. Ind. Fl. Okin. p. 105 (1924); SASAKI, Cat. Gov. Herb. Formos. p. 50 (1930); MASAMUNE, FY. p. 119 (1934) **Nom.** *Nipp. Kata-*

hiba **Hab.** Tanegasima; Yakushima; Tokunosima; Amami-osima III. 14, 1924 (leg. Z. TASIRO in G. H. Formos. n. 27218!), inter Nase et Gusuku (leg. Ipse); Okinawa: Katuodake I. 16, 924 (leg. Z. TASIRO in G. H. Formos. n. 27219!) **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan.

7. **S. remotifolia** SPREING., in MIQ., Pl. Jungh. p. 276 (1854) **Syn.** *Selaginella kraussiana* Al. BRAUN; SASAKI, Cat. Gov. Herb. Formos. p. 5 (1930); MASAMUNE, Prel. Rep. Veg. Yak. p. 37 (1929) *Selaginella japonica* MIQ., in Ann. Mus. Lugd. Bat. III. p. 185 (1867); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 125 (1931); MASAMUNE, FY. p. 119 (1934) *Selaginella remotifolia* SPR. var. *japonica* KOIDZ., in Act. IV. p. 228 (1935) **Nom. Nipp.** *Kuramagoke* **Hab.** Yakushima; Amami-osima; Okinawa; Isigakizima; Iriomotezima. **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan; Philippin; China; Java; Sumatra.
8. **S. tamariscina** (BEAUV.) SPRING., in Bull. Ac. Brux. p. 136 (1843); KOIDZ., in Act. IV. p. 224 (1935) **Syn.** *Selaginella involuvens* (non SPRENG.) SAKAG., Gen. Ind. Fl. Okinawa p. 105 (1924); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 125 (1931) *Lycopodium tamariscinum* DESV., in POIR., Encycl. Suppl. III. p. 540 (1814) *Lycopodium circinale* THUNB., Fl. Jap. p. 341 (1784); **Nom. Nipp.** *Iwahiba* **Hab.** Yakushima; Okinawa: Kunigami; Iheya; Kumezima; Uotorizima. **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan; Philipp.; Hainan; China.
9. **S. utchinensis** KOIDZ., in Act. IV. p. 229 (1935); DOI, in JJB. XVIII. p. 419 (1942) **Nom. Nipp.** *Kokuramagoke* **Hab.** Okinawa **Distr.** Kyusyu.

III. PSILOTACEAE

1. *Psilotum* SW.

1. **Psilotum nudum** BEAUV., Prodr. Aeth. p. 112(1805); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 128 (1931); MASAMUNE, FY. p. 12 (1934); MASAMUNE et YANAGIHARA, in Tr. Nat. Histr. Soc. Formos. XXXI. p. 269 (1941) **Syn.** *Lycopodium nudum* LINN., Sp. Pl. ed. 1. p. 1100 (1753) *Psilotum triquetrum* SPR., Monogr. Lycopod. II. p. 269 (1840); MATSUM., in Gakugeisirin XIV. p. 508 (1884) et Ind. Pl. Jap. I. p. 395 (1904); CHR., in Bull. Herb. Boiss. 2. ser. I. p. 1015 (1901); KAWAG., in Bull. Kag. I. p. 106 (1915); SAKAG., Gen. Ind. Fl. Okinawa p. 105 (1924) **Nom. Nipp.** *Matubaran* **Hab.** Tanegasima; Yakushima; Nakanosima; Amami-osima; Tokunosima; Da-itozima; Okinawa; Isigakizima; Iriomotezima. **Distr.** Taiwan; Kyusyu; Sikoku; Honsyu; Philipp.; China.

IV. EQUISETACEAE

1. *Equisetum* LINN.

1. **Equisetum ramosissimum** DESF. var. *glaucum* NAK., in TBM. XXXIX. p. 195

- (1925) *Syn. Equisetum ramosissimum* (non DESF.) FR. et SAV., Enum. Pl. Jap. II. p. 102 (1876); SAKAG., Gen. Ind. Fl. Okinawa p. 106 (1924) *Nom. Nipp. Inudokusa* *Hab.* Tanegasima; Kitatane, sea coast Aug. 14, 1934 (leg. MORI); Okinawa (leg. ?) *Distr.* Honsyu; Kyusyu; Manchuria; Corea;

V. OPHIOGLOSSACEAE

1. *Ophioglossum* LINN.

1. *Ophioglossum pedunculatum* DESV., in Bot. Mag. V. p. 306 (1811); CHR., Ind. Fil. p. 471 (1905); NAK., in TBM. XL. p. 373 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 4 (1931) *Nom. Nipp. Kohiroha-hanayasuri* *Hab.* Okinawa? *Distr.* Honsyu; Sikoku; Kyusyu; Taiawan.
2. *O. reticulatum* LINN., Sp. Pl. ed. 2. p. 1063 (1763); H.ITO, in JJB. XVIII. p. 200 (1942) et Fil. Jap. Ill. f. 502 (1944) *Nom. Nipp. Hirohano-hanayasuri* *Hab.* Iriomote: Sonae *Distr.* Honsyu; Sikoku; Kyusyu; Taiwan.
3. *O. vulgatum* LINN., Sp. Pl. ed. 1. p. 1062 (1753); MASAMUNE et YANAGIHARA, in Tr. Nat. Histr. Soc. Formos. XXXI. p. 268 (1941); MASAMUNE, FY. p. 38 (1934) *Syn. Ophioglossum nudicaule* LINN. f.; SAKAG., Gen. Ind. Fl. Okinawa p. 106 (1924) *Nom. Nipp. Kohanayasuri* *Hab.* Yakushima; Daitozima; Iheyazima; Okinawa. *Distr.* Honsyu; Sikoku; Kyusyu; Taiwan; China.

2. *Ophioderma* BLUME

1. *Ophioderma pendula* (LINN.) PRESL., Suppl. Tent. Pteridgr. p. 57 (1843); NAK., in TBM. XL. p. 372 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 4 (1931); MASAMUNE, FY. p. 39 (1934); NEMOTO, Fl. Jap. Suppl. p. 2 (1936) *Syn. Ophioglossum pendulum* LINN., Sp. Pl. ed. 2. p. 1518 (1763); CHR., in Bull. Herb. Boiss. 2. ser. 1. p. 1015 (1901); MATSUM., Ind. Pl. Jap. I. p. 391 (1904); MATH., in J.-Linn. XXXIX. p. 371 (1911); SAKAGUTI, Gen. Ind. Fl. Okinawa p. 106 (1924); H.ITO, Fil. Jap. Ill. f. 505 (1944) *Nom. Nipp. Koburan* *Hab.* Yakushima; Amami-osima; Okinawa; Isigakizima; Iriomotezima. *Distr.* Taiwan; Asia tropics.

3. *Botrychium* SW.

1. *Botrychium formosanum* TAGAWA, in Act. IX. p. 87 (1940) *Hab.* Amami-osima; Okinawa. *Distr.* Taiwan.
2. *B. ternatum* SW., in Schred. Journ. I. 2. p. 111 (1801); CHR., Ind. Fil. p. 163 (1906); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 3 (1931) *Syn. Botrychium japonicum* THUNB., Fl. Jap. p. 329 (1784)? *B. daucifolium* var. *japonicum* FRANTL., in Jahrb. des Kön. Bot. Gart. Berlin. III. p. 340 (1884) *Nom. Nipp. Huyuno-hanawarabi* *Hab.* Amami-osima *Distr.* Honsyu; Sikoku; Kyusyu; Taiwan.

VI. HELMINTHOSTACHYACEAE

1. *Helminthostachys* KAUFUSS.

1. *Helminthostachys zeylanicus* (LINN.) HOOK., Gen. Fil. t. 17 (1840); CHR., Ind. Fil. p. 344 (1905); SAKAGUTI, Gen. Ind. Fl. Okinawa p. 106 (1924); NAK., in TBM. XL. p. 385 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 4 (1931); NEMOTO, Fl. Jap. Suppl. p. 2 (1936); H.ITO, Fil. Jap. Ill. f. 512 (1944) *Syn. Osmunda zeylanica* LINN., Sp. Pl. ed. 1. p. 1063 (1753) *Helminthostachys dulcis* KAULFUSS, Flora p. 103 (1822) *Nom. Nipp. Miyakozima-hanawarabi* **Hab.** Okinawa: Simaziri; Miyakozima VIII. 2, 1934 (leg. MASAMUNE et K. MORI); Isigakizima ca. Bannadake IV. 22, 1941 (leg. G. MASAMUNE); Iriomote: Hositate VII. 26, 1938 (leg. FUKUYAMA n. 7193!) **Distr.** Taiwan; Philipp.; Malay; New Guinea; New Zeyland; Australia.

VII. ANGIOPTERIDACEAE

1. *Angiopteris* HOFFM.

1. *Angiopteris D'Urvilleana* De VRIES, Monogr. p. 17, t. 3, f. 11 (1853); CHR., Ind. Fil. p. 56 (1905); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 1 (1931); NAK., in TBM. XLI. p. 77 (1927); *Nom. Nipp. Kotoryubintai* **Hab.** Iriomote? **Distr.** Kotosyo; Philipp; Taiti **Not.** The pseudveins inter serrulations are wanting.
2. *A. faurieri* HIERON., in Hedwig. LXI. p. 272 (1920) **Hab.** Amami-osima (leg. U. FAUREI Jul. 1900 n. 4585 bis, Cotyp. Mus. Pari) **Distr.** Endemic. **Not.** It seems to me the species is conspecific to *A. lygodifolia* ROSENST.
3. *A. oshimensis* HIERONIM., in Hedwigia XLI. p. 282 (1920) *Nom. Nipp. Amami-ryubintai* **Hab.** Amami-osima: Toguti (leg. FAUREI!) **Distr.** Endemic. **Not.** I can not find any character which separate the species from the following species (*A. lygodifolia*).
4. *A. lygodifolia* ROSENSTOCK., in Med. Rijk. Herb. 31. p. 2 (1910); H. ITO, Fil. Jap. Ill. f. 499 (1944) *Syn. Angiopteris evecta* HOFFM.; LUERSSEN, in Engl. Bot. Jahrb. IV. p. 366 (1883); MATSUM., in Gakugeisirin XIV. p. 512 (1884) et Ind. Pl. Jap. I. p. 383 (1904); MATH., in J.-Linn. XXXIX. p. 342 (1911); KAWAGOE, in Bull. Kag. I. p. 105 (1915); SAKAG., Gen. Ind. Fl. Okinawa p. 106 (1924) *Angiopteris crassipes* (non WALL.) MATSUM., Ind. Pl. Jap. I. p. 383 (1904); CHR., in Bull. Herb. Boiss. ser. 2. I. p. 1020 (1901); MATH., in J.-Linn. XXX.IX. p. 342 (1911); *Angiopteris suboppositifolia* De VRIESE et HARTING.; NAK., in TBM. XLI. p. 76 (1927); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 1 (1931); SASAKI, Cat. Gov. Herb. Formos. p. 1 (1930); MASAMUNE, FY. p. 37 (1934); TAKENOUTI, in Fukuoka-Hak. II. p. 10 (1936) *Nom. Nipp. Ryubintai* **Hab.** Tanegasima; Yakushima; Nakanosima; Amami-osima; Tokunosima; Okinawa; Iheyazima; Isigakizima; Iriomotezima **Distr.** Hon-syu; Sikoku; Kyusyu; Taiwan and tropical Asia.

VIII. OSUMUDNACEA

1. *Osmunda* TURNEFORT

1. *Osmunda japonica* THUNB., in Nov. Act. Reg. Soc. Upsal. II. p. 209 (1780) et Fl. Jap. p. 330 (1784); MASAMUNE, FY. p. 110 (1934) *Syn. Osumnda regalis* LINN. var. *japonica* MILDE; KAWAG., in Bull. Kag. I. p. 105 (1915) *Nom. Nipp. Zenmai Hab.* Tanegasima: Kitatane Aug. 13, 1934 (leg. K. MORD); Yakushima; Nakano-sima. *Distr.* Karahuto; Hokkaido; Honsyu; Sikoku; Kyusyu; Taiwan; China; Corea.

2. *Osmundastrum* PRESL.

1. *Osmundastrum cinnamomeum* (LINN.) PREL. var. *fokiense* (COPEL.) TAGAWA, in JJB. XVII. p. 697 (1941) *Syn. Osmunda cinnamomea* LINN. var. *fokiensis* COPEL., in Philipp. Journ. Sc. IV. p. 16 (1909) *Osmunda cinnamomea* LINN. var. *asiatica* FERNALD., in Rhodra XXXII p. 75 (1930) *Osmunda cinnamomea* LINN.; MASAMUNE, Prel. Rep. Veg. Yak. p. 35 (1929) et FY. p. 109 (1934) *Struthiopteris cinnamomea* BERNH., in Schr. J. Bot. 1800, p. 126 (1801) *Nom. Nipp. Yamadorizenmai Hab.* Yakushima: Ambo, near sea level. *Distr.* Karahuto; Hokkaido; Honsyu; Sikoku; Kyusyu; Taiwan; Philipp.; Corea; Manchuria; China.

3. *Plenasium* PRESL.

1. *Plenasium banksiaefolium* (PRESL.) PRESL., Tent. Pterid. p. 110 (1836) *Syn. Nephrodium banksiaefolium* PREL., Rel. Haenk. I. p. 34 (1825) *Osmunda banksiaefolia* KUHN., in MIQ., in Ann. Mus. Bot. Lugd. Bat. IV. p. 299 (1869); LUERSS., in Engl. Bot. Jahrb. IV. p. 336 (1883); SAKAG., Gen. Ind. Fl. Okinawa. p. 107 (1924) *Osmunda javanica* Bl.; CHR., in Bull. Herb. Boiss. 2. ser. 1. p. 1020 (1901); MATSUM., Ind. Pl. Jap. I. p. 331, 391 (1904); MATH., in J.-Linn. XXXIX. p. 375 (1911) *Osmunda bromeliaefolia* COPEL.; NAK., in TBM. XLI. p. 675 (1927); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 115 (1931); MASAMUNE, in Tr. Nat. Histr. Soc. Formos. XXII. 121 (1932) et FY. p. 109 (1934); OGATA, Ic. Fil. Jap. pl. 237 (1933); MASAMUNE et YANAGIHARA, in Tr. Nat. Histr. Soc. Formos. XXXI. p. 269 (1941) *Nom. Nipp. Siroyamazenmai Hab.* Yakushima; Tanegasima; Amami-osima; Tokunoshima; Daito-zima; Okinawa; Isigakizima; Iriomotezima. *Distr.* Sikoku; Kyusyu; Ogasawara; Taiwan; Philipp.; China.

IX. GELIHENIACEAE

1. *Dicranopteris* BERNHARD.

1. *Dicranopteris dichotoma* BERNH., in Schr. New Journ. I. 2. p. 38 et 39, t. III. a. (1806); MAK., in TBM. XXXI. p. 695 (1927); SASAKI, Cat. Gov. Herb. Formos. p. 44 (1930); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 113 (1931); MASAMUNE, FY.

p. 105 (1934) **Syn.** *Gleichenia linearis* BEDD.; KAWAG., in Bull. Kag. I. p. 105 (1915); SIMADA, in Tr. Nat. Histr. Soc. Formos. 31. p. 21 (1917); SAKAG., Gen. Ind. Fl. Okinawa p. 107 (1924); OGATA, Ic. Fil. Jap. pl. 180 (1931) **Nom. Nipp.** *Kosida* **Hab.** Tanegasima: Kitatane. Aug. 13, 1934 (leg. K. MORI); Yakushima; Nakanosima; Takarazima; Akuseki; Iwosima; Amami-osima; Okinawa: Yaggati (Ipse); Isigakizima; Iriomotezima. **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan; Hainan; China.

2. *Hicriopteris* PRESL.

1. ***Hicriopteris glauca*** (THUNB.) CHING., in Sunyat. V. p. 279 (1940) **Syn.** *Polypodium glaucum* THUNB., in HOUTT., Nat. Histr. XIV. p. 177 (1783) et Fl. Jap. ed. 2. p. 113 (1931); *Gleichenia glauca* HOOK.; KAWAG., in Bull. Kag. I. p. 105 (1915); SAKAG., Gen. Ind. Fl. Okin. p. 107 (1924) *Dicranopteris glauca* NAK.; MASAMUNE, FY. p. 106 (1934) **Nom. Nipp.** *Uraziro* **Hab.** Tanegasima: Kitatane Aug. 13, 1934 (leg. K. MORI); Yakushima; Nakanosima; Tokunosima; Amami-osima; Okinawa **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan.
2. ***H. laevissima*** (CHR.) CHING., in Sunyat. V. p. 280 (1940) **Syn.** *Gleichenia laevissima* CHR., in Bull. Acad. Inst. Geogr. Bot. 3. ser. XI. p. 268 (1902) *Gleichenia kiusiana* MAK., in TBM. XVIII. p. 139 (1904); OGATA, Ic. Fil. Jap. Pl. 179 (1931) *Dicranopteris laevissima* NAK., in TBM. XLI. p. 692 (1927); MASAMUNE, FY. p. 107 (1934) **Nom. Nipp.** *Kanekosida* (MAKINO) **Hab.** Yakushima: Wari-isidake **Distr.** Kyusyu; China; Luzon.

X. LYGODIACEAE

1. *Lygodium* SW.

1. ***Lygodium flexuosum*** SW., in Schr. Journ. 1800(2) p. 106 (1801) p. p.; NAK., in TBM. XLI. p. 685 (1927); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 114 (1931) **Syn.** *Lygodium japonicum* SW.; MATSUM., Ind. Pl. Jap. I. p. 312 (1904) p. p. **Nom. Nipp.** *Hirohakanikusa* **Hab.** Miyakozima **Distr.** Taiwan.
2. ***L. japonicum*** SW., in Schrad. Journ. 1800 (2) p. 160 (1801); HOOK. et ARNOT., Bot. Beech. Voy. 2. p. 274 (1840); LUERSS., in Engl. Bot. Jahrb. IV. p. 365 (1883); MATSUM., in Gakugeisirin XIV. p. 512 (1884) et Ind. Pl. Jap. I. p. 390 (1904); CHR., in Bull. Herb. Boiss. 2. ser. I. p. 1020 (1901); KAWAG., in Bull. Kag. I. p. 105 (1915); SIMADA, in Tr. Nat. Histr. Soc. Formos. 31, p. 21 (1917); SAKAG., Gen. Ind. Fl. Okin. p. 103 (1924); SASAKI, Cat. Gov. Herb. Formos. p. 45 (1930); OGATA, Ic. Fil. Jap. VII. pl. 322 (1936); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 114 (1931); MASAMUNE, FY, p. 107 (1934); MASAMUNE et YANAGIHARA, in Tr. Nat. Histr. Soc. Formos. XXXI. p. 269 (1941) **Syn.** *Ophioglossum japonicum* THUNB., Fl. Jap. p. 328 (1784) et ex MURRAY, Syst. Veg. p. 926 (1784) **Nom. Nipp.** *Turusinobu*; *Kanikusa* **Hab.** Tanegasima: Kitatane. Aug. 13, 1934 (leg. K. MORI);

Yakushima; Nakanosima; Takarazima; Amami-osima: inter Urakami et Nakakati, Jul. 18, 1933 (leg. T. ITO); Okinawa; Isigakizima (VII. 7, 1932)? Yonakuni **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan; China.

3. *L. microstachyum* DESV., in Berl. Mag. V. p. 308 (1811); NAK., in TBM. XLI. p. 686 (1927); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 114 (1931); OGATA, Ic. Fil. Jap. VII. pl. 323 (1936); H. ITO, Fil. Jap. Ill. f. 489 (1944) **Nom. Nipp.** *Nagabakanikusa* **Hab.** Amami-osima : Nase; Okinawa Mt. Onna, VII. 24, 1923; (leg. Ipse) Iheyazima; Miyakozima, Aug. 2. 1934 (leg. MASAMUNE et K. MORI); Isigakizima. **Distr.** Taiwan.
 var. *glabrescens* NAK., in TBM. XLI. p. 686 (1927); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 114 (1931); et NEMOTO, Suppl. p. 79 (1936) **Nom. Nipp.** *Teribakanikusa* **Hab.** Okinawa? **Distr.** Taiwan.
4. *L. scandens* SW. var. *microphyllum* BONAPART., ex NAK., in TBM. XLI. p. 684 (1927); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 115 (1931); H. ITO, Fil. Jap. Ill. f. 490 (1944) **Syn.** *Lygodium scandens* SW; MATSUM., Ind. Pl. Jap. I. p. 313 (1904); SAKAG., Gen. Ind. Fl. Okinawa p. 107 (1924); MAK., in TBM. IX. p. 9 (1895); MAK., in TBM. XLI. p. 683 (1927); OGATA, Ic. Fil. Jap. VII. pl. 324 (1936) **Nom. Nipp.** *Iriomote-syamisenzuru* **Hab.** Iriomote; Isigakizima. **Distr.** Taiwan; old world tropics.

XI. SCHIZAEACEAE

1. *Schizaea* J. E. SMITH.

1. *Schizaea biroi* RICHTER in MATH., Termesget. Ert. 29, p. 1074 (1915); H. ITO Fil. Jap. Ill. f. 491 (1944) **Syn.** *Schizaea kikuzatonis* OGATA, in JJB. XI. p. 36 (1935) et Ic. Fil. Jap. VII. pl. 346 (1936) et in JJB. XVI. p. 39 (1940) *Schizaea digitata* SW.; SAKAG., Gen. Ind. Fl. Okinawa p. 115 (1924)? **Nom. Nipp.** *Kanzasizarabi* (OGATA) **Hab.** Kumezima; Okinawa; Iriomote? **Distr.** Taiwan; Malayan Archipelago; New Zealand.

XII. MARSILEACEAE

1. *Marsilea* LINN.

1. *Marsilea quadrifolia* LINN., Sp. Pl. ed. 1. p. 1099 (1753); SAKAG., Gen. Ind. Fl. Okin. p. 108 (1924) **Nom. Nipp.** *Denziso* **Hab.** Okinawa: Naha VII. 1935 (leg. SUZUKI n. 1640) **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan; China.

XIII. HYMENOPHYLLACEAE

1. *Mecodium* PRESL.

1. *Mecodium badium* COPEL., in Philipp. Journ. Sc. LXVII. p. 23 (1938); H. ITO, Fil. Jap. Ill. f. 462 (1944) **Syn.** *Hymenophyllum badium* HOOK. et GREVILLE, Ic.

Fil. pl. 77 (1828); COPEL., in Philipp. Journ. Sc. LXIV. pp. 144 et 176 (1937) *Hymenophyllum crispatum* WALL.; NAK., in TBM. XL. p. 245 (1926); MASAMUNE, FY. p. 42 (1934); NEMOTO, Fl. Jap. Suppl. p. 3 (1936) *Nom. Nipp. Onikokesinobu, Yakusima-kokesinobu Hab.* Yakusima; Amami-osima: Ongati VII. 14, 1935 (leg. Ipse!) *Distr.* Taiwan; Philipp.; China; India.

2. **M. flexile** (MAK.) COPEL., in Philipp. Journ. LXVII. p. 23 (1938) *Syn. Hymenophyllum flexile* MAK., in TBM. XIII. pp. 45 et 112 (1899) et Phan. et Pterid. Ill. I. pt. 4. pl. 18 (1899); KODAMA, in TBM. XXXI. p. 17 (1917); NAK., in TBM. XL. p. 245 (1926); SAKAG., Gen. Ind. Fl. Okinawa p. 116 (1924); OGATA, Ic. Fil. Jap. pl. 30 (1926); SASAKI, Cat. Gov. Herb. Formos. p. 2 (1930); MASAMUNE, FY. p. 42 (1934); COPEL., in Philipp. Journ. Sc. LXIV. p. 150, pl. 80 (1937); H. ITO, in TBM. LII. p. 584 (1938) *Nom. Nipp. Okokesinobu Hab.* Yakusima; Okinawa; Isigakizima; Iriomotezima *Distr.* Honsyu; Kyusyu; Sikoku; Taiwan.
3. **M. javanicum** (SPR.) COPEL., in Philipp. Journ. Sc. LXVII. p. 20 (1938) *Syn. Hymenophyllum javanicum* SPRENG., Syst. Veg. IV. p. 32 (1827); MAK., in TBM. XIII. p. 112 (1899); MATSUM., Ind. Pl. Jap. I. p. 310 (1904); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 6 (1931); COPEL., in Philipp. Journ. Sc. LXIV. p. 120 (1937) *Hymenophyllum australe* (non WILLD.) CHR., in Bull. Herb. Boiss. 2. ser. 1. p. 193 (1901); MATSUM., Ind. Pl. Jap. I. p. 389 (1904); MATH., in J.-Linn. Soc. XXXIX. p. 370 (1911); KODAMA, in TBM. XXXI. p. 17 (1917) *Nom. Nipp. Simakokesinobu Hab.* Yakusima (leg. FAUREI VII. 1900, n. 4637 in Herb. Mus. Nat. Hist. Paris.) *Distr.* Taiwan; Malay; Australia.
4. **M. polyanthos** (SW.) COPEL., in Philipp. Journ. Sc. LXVII. p. 19 (1938) *Syn. Trichomanes polyanthos* SW., Prodr. Fl. Ind. Occ. p. 137 (1788) *Hymenophyllum polyanthos* SW., in Sehrad. Journ. 1800, 2. p. 102 (1801); LUERSS., in Engl. Bot. Jahrb. IV. p. 354 (1883); CHR., in Bull. Herb. Boiss. 2. ser. 1. p. 1013 (1901); MATSUM., Ind. Pl. Jap. I. p. 389 (1904) p. p.; KODAMA, in TBM. XXXI. p. 17 (1917); SAKAG., Gen. Ind. Fl. Okinawa p. 116 (1924); COPEL., in Philipp. Journ. LXIV. p. 97 (1937); H. ITO, in TBM. LII. p. 584 (1938) *Hymenophyllum integrum* v. d. BOSCH.; NAK., in TBM. XL. p. 248 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 6 (1931); SASAKI, Cat. Gov. Herb. Formos. p. 3 (1930); MASAMUNE, FY. p. 43 (1934) *Hymenophyllum pycnocarpum* v. d. BOSCH.; OGATA, Ic. Fil. Jap. I. pl. 31 (1928) *Hymenophyllum fujisanense* NAK., in TBM. XL. p. 249 (1926); MASAMUNE, FY. p. 43 (1934) *Nom. Nipp. Hosobakokesinobu Hab.* Yakusima; Amami-osima; Okinawa *Distr.* Honsyu; Sikoku; Kyusuy; Taiwan.
5. **M. riukiunense** (CHR.) COPEL., in Philipp. Journ. Sc. LXVII. p. 21 (1938); H. ITO, Fil. Jap. Ill. f. 460 (1944) *Syn. Hymenophyllum riukiunense* CHR., in Ann. Cons. Jard. Bot. Gen. IV. p. 208 (1900) et in Bull. Herb. Boiss. 2 ser. 1. p. 1014 (1901); MATSUM., Ind. Pl. Jap. I. p. 310 et 390 (1904); MATH., in J.-Linn. XXXIX. p.

- 370 (1911); KODAMA, in MATSUM., Ic. Pl. Koish. I. (3.) pl. 43 (1912); NAK., in TBM. XL. p. 244 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 7 (1931); MASAMUNE, FY. p. 43 (1934); NEMOTO, Fl. Jap. Suppl. p. 4 (1936); COPEL., in Philipp. Journ. Sc. LXIV. p. 123, pl. 61 (1937); H. ITO, in TBM. LII. p. 584 (1938) *Hymenophyllum liukiuense* CHR., in Bull. Herb. Boiss. II. 1. p. 1021 (1901); SAKAG., Gen. Ind. Fl. Okinawa p. 116 (1924) **Nom. Nipp.** *Ryukyukokesinobu* **Hab.** Yakushima; Amami-osima inter Gusuku et Nase; Okinawa; Isigakizima; Iriomotezima. **Distr.** Kyusyu.
6. **M. wrightii** (v. d. BOSCH.) COPEL., in Philipp. Journ. Sc. LXVII. p. 23 (1938) *Syn. Hymenophyllum wrightii* v. d. BOSCH., Ned. Kruid. Arch. IV. p. 391 (1859); KAWAG., in Bull. Kag. I. p. 103 (1915); COPEL., in Philipp. Journ. Sc. LXVI. p. 152, p. 183 (1937); H. ITO, in TBM. LII. p. 854 (1938) *Hymenophyllum oligosorum* MAK.; MASAMUNE, FY. p. 43 (1934) **Nom. Nipp.** *Kokesinobu* **Hab.** Yakushima; Nakanosima **Distr.** Querparte; Hokkaido; Honsyu; Sikoku; Kyusyu.

2. *Hymenophyllum* SMITH.

1. **Hymenophyllum barbatum** BAK., Syn. Fil. p. 68 (1874); MIQ., in Ann. Lugd. Bat. III. p. 183 (1864); SAKAG., Gen. Ind. Fl. Okin. p. 115 (1924); SASAKI, Cat. Gov. Herb. Formos. p. 2 (1930); NAK., in TBM. XL. p. 240 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 5 (1931); MASAMUNE, FY. p. 42 (1934); NEMOTO, Fl. Jap. Suppl. p. 3 (1936); COPEL., in Philipp. Journ. Sc. LXIV. p. 84 (1937) et LXVII. p. 38 (1938); H. ITO, in TBM. LII. p. 584 (1938) et Fil. Jap. Ill. f. 465 (1944) *Syn. Hymenophyllum japonicum* MIQ., in Ann. Mus. Bot. Lugd. Bat. II. p. 183 (1867); Fr. et SAV., Enum. Pl. Jap. II. 1. p. 68 (1874) *Leptocionium barbatum* v. d. BOSCH., Ned. Krid. Arch. V. 2. p. 146 (1863) **Nom. Nipp.** *Koyakokesinobu* **Hab.** Yakushima; Amami-osima, IV. 2. 1910 (leg. T. KAMIYA in G. H. Formos. n. 46), Yuwandake III. 14, 1924 (leg. Z. TASIRO in G. H. Formos. n. 2747); Okinawa (leg. MATSUMURA n. 201) **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan; Corea; China.
2. **H. simonsianum** HOOK. 2nd. Cent. Fern. t. 13 (1861); MASAMUNE, FY. p. 44 (1934) H. ITO, in TBM. LII. p. 584 (1938) et Fil. Jap. Ill. f. 466 (1944) **Nom. Nipp.** *Simonkokesinobu* **Hab.** Yakushima **Distr.** Taiwan; S-China to India.

3. *Meringium* PRESL.

1. **Meringium denticulatum** (SW.) COPEL., in Philipp. Journ. Sc. LXVII. n. 1. p. 42 (1938); TAGAWA, in Act. IX. p. 231 (1940) *Syn. Hymenophyllum denticulatum* SW., in Schrad. Journ. p. 100 (1801) **Nom. Nipp.** *Himetizirekokesinobu* **Hab.** Isigakizima **Distr.** Taiwan.

4. *Vandenboschia* COPEL.

1. **Vandenboschia auriculata** (BL.) COPEL., in Philipp. Journ. Sc. LXVII. p. 55 (1938); H. ITO, Fil. Jap. Ill. f. 471 (1944) *Syn. Trichomanes auriculatum* BL., Enum. Pl.

- Jav. II. p. 225 (1828); MAK., in TBM. XII. p. 193 (1898) et Phan. et Pterid. Jap. Ill. 1. pt. 5. pl. XXII (1899); CHR., in Bull. Herb. Boiss. 2 ser. 1. pp. 1014 et 1016 (1901); YABE, in TBM. XIX. p. 33 (1905); MATSUM., Ind. Pl. Jap. I. p. 348 et 394 (1904); MATH., in J.-Linn. XXXIX. p. 391 (1911); KAWAG., in Bull. Kag. I. p. 103 (1915); SAKAG., Gen. Ind. Fl. Okin. p. 116 (1924); KODAMA, in TBM. XXXI. p. 17 (1917); NAK., in TBM. XL. p. 263 (1926); SASAKI, Cat. Gov. Herb. Formos. p. 3 (1930); OGATA, Ic. Fil. Jap. IV. pl. 198 (1931); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 8 (1931); MASAMUNE, FY. p. 40 (1934); COPEL., in Philipp. Journ. Sc. LI. p. 223 (1933) *Lacosta auriculata* PARANT.; LUERSSEN., in Engl. Bot. Jahrb. IV. p. 354 (1883) *Cephalomanes auriculata* v. d. BOSCH., Hym. Jav. XXXIV. pl. 25 (1861) **Nom. Nipp.** *Turuhoragoke* **Hab.** Yakusima; Tanegasima; Nakanosima; Amami-osima (leg. T. KAWAKAMI in G. H. Formos. n. 96); id. loc. 1900 (leg. MATSUM. n. 5. in Mus. Hist. Nat. Paris.); id. loc. (leg. DÖDERLEIN in Herb. Mus. Hist. Nat. Paris.); id. isl.: Sumiomura III. 3. 1924 (leg. Z. TASIRO in G. H. Formos. n. 23149!); Yakusima (MATSUM. n. 214 in Herb. Mus. Hist. Nat. Paris.) id. loc. VII. 1900 (leg. FAURIE n. 4631 Herb. Mus. Histr. Nat. Paris.) Okinawa: Kuni-gami, Ibedake I. 29, 1924 (leg. Z. TASIRO in G. H. Formos. n. 27150!); Isigakizima; Iriomotezima **Distr.** Kyusyu; Taiwan; S-China; Himalaya.
2. **V. radicans** (SW.) COPEL., in Philipp. Journ. Sc. LXVII. p. 54 (1938); H. ITO, Fil. Jap. Ill. f. 469 (1944) **Syn.** *Trichomanes radicans* SW., in Schr. Journ. Bot. p. 97 (1800); COPEL., in Philipp. Journ. Sc. LI. p. 213 (1933); H. ITO, in TBM. LII. p. 583 (1938) *Trichomanes japonicum* var. *angustatum* CHR., in Bull. Herb. Boiss. VII. p. 818 (1899); MATSUM., Ind. Pl. Jap. I. p. 349 (1904); MATH., in J.-Linn. XXXIX. p. 392 (1911) *Trichomanes maximum* (non Bl.) MAK., in TBM. p. 139 (1898); MATH., in J.-Linn. XXXIX. p. 391 (1911); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 1678 (1925) *Trichomanes naseanum* CHR., in Bull. Soc. Bot. Fr. LII. p. 11 (1905); MATSUM., in TBM. XXIV. p. 239 (1910); MATH., in J.-Linn. XXXIX. p. 391 (1911); SAKAG., Gen. Ind. Fl. Okin. p. 116 (1924); NAK., in TBM. XL. p. 267 (1926); OGATA, Ic. Fil. Jap. I. pl. 46 (1928); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 10 (1931); NEMOTO, Fl. Jap. Suppl. p. 5 (1936) *Trichomanes japonicum* (non THUNB. nec POIR.) FR. et SAV., Enum. Pl. Jap. II. 1. p. 267 (1876) et 2. p. 618 (1879); MATSUM., Ind. Pl. Jap. I. p. 349 (1904); YABE, in TBM. XIX. p. 33 (1905) *Trichomanes japonicum* FR. et SAV. var. *oshimense* CHR., in Bull. Herb. Boiss. 2 ser. 1. p. 1016 (1901); MATH., in J.-Linn. XXXIX. p. 392 (1911); MATSUM., Ind. Pl. Jap. I. p. 394 (1904); SAKAG., Gen. Ind. Fl. Okinawa p. 116 (1924) *Trichomanes speciosum* SW. var. *umbrosum* WALL.; CHR., in Bull. Herb. Boiss. 2 ser. 1. p. 1016 (1901); MATSUM., Ind. Pl. Jap. I. p. 394 (1904) *Trichomanes anceps* WALL.; CHR., in Bull. Acad. Géogr. Bot. XVI. p. 101 (1906) *Trichomanes liukiense* YABE, in TBM. XIX. p. 35 (1905); MATSUM., in TBM. XXIV. p. 239 (1910); MATH., in J.-Linn. XXXIX. p. 391 (1911); SAKAG., Gen. Ind. Fl. Okin. p. 116 (1924); NAK.,

in TBM. LX. p. 268 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 9 (1931); NEMOTO, Fl. Jap. Suppl. p. 5 (1936); H. ITO, in TBM. LII. p. 583 (1938) *Trichomanes randicans* SW. var. *anceps* C. B. CLARKE, in MATH., in J.-Linn. XXXIX. p. 392 (1911) *Trichomanes orientale* C. CHR.; SAKAG., Gen. Ind. Fl. Okin. p. 116 (1924); NAK., in TBM. XL. p. 269 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 10 (1931); MASAMUNE, FY. p. 41 (1934) *Nom. Nipp.* *Ryukyu-kogane*; *Hinahoragoke*; *Ryukyu-horagoke* (MAK.); *Koganesinobu Hab.* Tanegasima; Yakushima; Amami-osima: Gusuku (Ipse!), Nase Oct. 1900 (leg. MATSUM. in Mus. Hist. Nat. Paris Typ.); Okinawa: Kunigami; Isigakizima; Iriomotezima *Distr.* Kyusyu; Taiwan; Ogasawara; Honkong.

5. *Gonocormus* v. d. BOSCH.

1. *Gonocormus minutus* v. d. BOSCH., Hym. Jav. p. 7 (1843) *Syn.* *Trichomanes minutum* BL., Enum. II. p. 223 (1830) *Trichomanes parvulum* (non POIR.) CHR., in WARBI., Monsunia I. p. 55 (1900); MATSUM., Ind. Pl. Jap. I. p. 349 (1904); YABE, in TBM. XIX. p. 33 (1905); KAWAG., in Bull. Kag. I. p. 103 (1915); SAKAG., Gen. Ind. Fl. Okin. p. 116 (1924); NAK., in TBM. XL. p. 262 (1926); OGATA, Ic. Fil. Jap. IV. pl. 199 (1931); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 10 (1931); MASAMUNE, FY. p. 41 (1934); TAKENOUTI, in Fuku. Hak. II. p. 11 (1936) *Nom. Nipp.* *Utiwagoke Hab.* Tanegasima; Nakanoshima; Hirasima; Amami-osima; Okinawa; Isigakizima; Iriomotezima Yonakuni; *Distr.* Honsyu; Sikoku; Kyusyu; Taiwan; Querpart; China.

6. *Crepidopteris* COPEL.

1. *Crepidopteris humilis* (FORST.) COPEL., in Philipp. Journ. Sc. LXII. p. 58 (1936); H. ITO, Fil. Jap. Ill. f. 474 (1944) *Syn.* *Trichomanes humile* FORST., Fl. Ins. Austr. Pr. p. 84 (1786); OGATA, Ic. Fil. Jap. VI. pl. 296 (1936); COPEL., in Philipp. Journ. Sc. LI. p. 164, pl. 12 (1933); H. ITO, in TBM. LII. p. 583 (1938) *Nom. Nipp.* *Himehoragoke Hab.* Iriomote *Distr.* Kotosyo; Sumatra.

7. *Crepidomanes* PRESL.

1. *Crepidomanes latemarginale* (EAT.) COPEL., in Philipp. Journ. Sc. LXVII. p. 60 (1938); H. ITO, Fil. Jap. Ill. f. 475 (1944) *Syn.* *Trichomanes latemarginale* EAT., in Pr. Am. Acad. IV. p. 111 (1858); COPEL., in Philipp. Journ. Sc. LI. p. 189, pl. 24 (1933); H. ITO, in TBM. LII. p. 583 (1938) *Trichomanes bifunctatum* LAM.; H. ITO, in TBM. LII. p. 583 (1938) *Trichomanes filicaule* BORY.; SAKAG., Gen. Ind. Fl. Okin. p. 116 (1924) *Nom. Nipp.* *Matsuda-kokesinobu*; *Aohoragoke Hab.* Iriomote *Distr.* Kotosyo, Asia tropics.

8. *Microgonium* PRESL.

1. *Microgonium beccarianum* (CESASTI) COPEL., in Philipp. Journ. Sc. LXVII. p. 63

- (1938); TAGAWA, in Act. IX. p. 142 (1940) *Syn.* *Trichomanes beccarianum* CESASTI, Att. Accad. Napol. VII. 8. pl. 1. (1876); COPEL., in Philipp. Journ. Sc. Si. p. 200 (1933) *Trichomanes motleyi* BOS.; H. ITO, in TBM. LII. p. 584 (1938) *Nom.* *Nipp.* *Mamekokesinobu* **Hab.** Isigakizima; Iriomotezima **Distr.** Kotosyo; Philipp.; Malayan region; Solomon.
2. *M. omphalodes* VIELL., ap. FOURNIER, in Ann. Soc. Nat. V. (17) p. 255 (1873); COPEL., in Philipp. Journ. Sc. LXVII. p. 63 (1938); H. ITO, in TBM. LII. p. 584 (1938) et Fil. Jap. Ill. f. 477 (1944) *Syn.* *Trichomanes peltatum* (non POIRET) MAK., in TBM. XII. p. 193 (1898); ROSENBURG, Malay Ferns. p. 85 (1909); SAKAG., Gen. Ind. Fl. Okinawa p. 116 (1924) *Trichomanes omphalodes* (VIELLARD.) C. CHR., Ind. Fil. p. 646 (1906); MATH., in J.-Linn. XXXIX. p. 391 (1911); NAK., in TBM. XL. p. 251 (1926); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 10 (1931); OGATA, Ic. Fil. Jap. V. pl. 248 (1933); COPEL., in Philipp. Journ. Sc. LI. p. 203, pl. 31. f. 1-6 (1933) *Nom.* *Nipp.* *Zenigokesida* **Hab.** Okinawa; Onnadae; Iriomote X. 23, 1935 (leg. Ipse) **Distr.** Ogasawara; Taiwan; Asia tropics.

9. *Nesopteris* COPEL.

1. *Nesopteris pseudoblepharistomum* (TAGAWA) *Syn.* *Trichomanes pseudoblepharistomum* TAGAWA, in Act. VII. p. 72 (1938); H. ITO, in TBM. LII. p. 583 (1938) *Nom.* *Nipp.* *Okansinobuhoragoke* **Hab.** Iriomotezima **Distr.** Endemic.
2. *N. thysnostoma* (MAK.) COPEL., in Philipp. Journ. Sc. LVII. p. 66 (1938); H. ITO, Fil. Jap. III. f. 479 (1944) *Syn.* *Trichomanes thysanostomum* MAK., in TBM. XII. p. 193 (1898) et XIII. p. 46 (1899); MATSUM., Ind. Pl. Jap. I. p. 350 (1904); MATH., in J.-Linn. Sc. XXXIX. p. 392 (1911); SAKAG., Gen. Ind. Fl. Okin. p. 117 (1924); NAK., in TBM. XL. p. 261 (1926); OGATA, Ic. Fil. Jap. VII. pl. 348 (1936); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 11 (1931) *Trichomanes apiifolium* (non PRESL.) MAK., in TBM. VIII. p. 412 (1894) *Trichomanes anceps* var. HOOK., Sp. Fil. I. p. 135, t. XL. C. f. 3 (1846)? *Trichomanes blepharistomum* COPEL., in Philipp. Journ. Sc. LI. p. 225, pl. 41 (1933) *Nom.* *Nipp.* *Kansinobu-horagoke* (Y. TASIRO) **Hab.** Okinawa?; Iriomotezima; Nakaragawa area X. 24, 1933. (leg. Ipse) **Not.** Affinis *T. uppressooides* sed stipes glabri differt. **Distr.** Taiwan; Kotosyo; Philipp. Batan Island.

10. *Cephalomanes* PRESL.

1. *Cephalomanes javanicum* PRESL., in Abb. Höhm. Ges. V. p. 5 (1848); v. d. BOSCH., Hym. Jav. p. 30, t. 22 (1861); H. ITO, Fil. Jap. Ill. f. 480 (1944) *Syn.* *Trichomanes javanicum* BL., Enum. Pl. Jav. p. 224 (1828); MATSUM., Ind. Pl. Jap. I. p. 349 (1904); YABE, in TBM. XIX. p. 34 (1905); MATH., in J.-Linn. Soc. XXXIX. p. 391 (1911); SAKAG., Gen. Ind. Fl. Okin. p. 116 (1924); MAK. et NEMOTO, Fl. Jap. p. 1677 (1925); NAK., in TBM. XI. p. 258 (1926); COPEL., in Philipp. Journ. Sc.

LI. p. 246, pl. 52, f. 1 (1933); H. ITO, in TBM. LII. p. 538 (1938) *Cephalomanes oblongifolium* PRESL., Epim. Bot. XIX. p. 10 (1849); COPEL., in Philipp. Journ. Sc. LXVII. p. 67 (1938) *Trichomanes zollingeri* v. D. BOSCH.; MAK., in TBM. XII. p. 193 (1898); MATSUM., Ind. Pl. Jap. I. p. 350 (1904) *Trichomanes acrantom* H. ITO, in Nak., Ic. Pl. As. Or. II. pl. XLV. p. 110 (1937) **Nom. Nipp.** *Sotetuhoragoke* **Hab.** Isigakizima **Distr.** Kotosyo (Nov. 24, 1899 ex MATSUM. in Mus. Paris); Philipp.; Solomon Island; Java; Borneo.

11. *Selenodesmium* COPEL.

1. ***Selenodesmium obscurum* (BL.) COPEL.**, in Philipp. Journ. Sc. LXVII. p. 81 (1938); H. ITO, Fil. Jap. Ill. f. 481 (1944) *Syn. Trichomanes obscurum* BL., Enum. Pl. Jav. p. 227 (1828); CHR., in Bull. Herb. Boiss. ser. 2. 1. p. 1016 (1901); MATSUM., Ind. Pl. Jap. I. p. 394 (1904); COPEL., in Philipp. Journ. Sc. LI. p. 233, pl. 43 et 44 (1933) *Trichomanes rigidum* (non SW.) MATSUM., Ind. Pl. Jap. I. p. 350 (1904); MAK., in TBM. XII. p. 193 (1898); YABE, in TBM. XIX. p. 35 (1905); MATH., in J.-Linn. XXXIX. p. 392 (1911); KAWAG., in Bull. Kag. I. p. 103 (1915); SAKAG., Gen. Ind. Fl. Okin. p. 116 (1924); MAK. et NEMOTO, Fl. Jap. ed. 1. p. 1679 (1925) *Trichomeanes cupressoides* DESV.; MATH., in J.-Linn. XXXIX. p. 391 (1911); NAK., in TBM. XL. p. 260 (1926); SASAKI, Cat. Gov. Herb. Formos. p. 3 (1930); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 8 (1931); H. ITO, in TBM. LII. p. 583 (1938) **Nom. Nipp.** *Onihoragoke* **Hab.** Yakushima; Nakanosima; Amami-osima : inter Nase et Gusuku (leg. Ipse), Yuwandake III. 14, 1924 (leg. Z. TASIRO in G. H. Formos. n. 27152!); Okinawa: Mt. Onna (leg. MIYAKE in Herb. Tokyo Univ.); Kuntyan (leg. Y. TASIRO); Isigakizima; Iriomotezima **Distr.** Kyusyu; Taiwan; Philipp.; Borneo; Java; Sumatra; Malayan Island.

XIV. AZOLLACEAE

1. *Azolla* LINN.

1. ***Azolla imbricata* NAK.**, in TBM. XXXIX. p. 185 (1925) *Syn. Salvinia imbricata* ROXB., in Cal. Journ. IV. p. 470 (1844) *Azolla pinnata* R. BR. var. *africana* BAK.; SIMADA, in Tr. Nat. Histr. Soc. Formos. 31. p. 21 (1917) *Azolla pinnata* R. BR.; SAKAG., Gen. Ind. Fl. Okin. p. 106 (1924) **Nom. Nipp.** *Aka-ukikusa* **Hab.** Okinawa; Miyakozima; Yonakuni. **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan to Ceylon.

XV. DICKSONIACEAE

1. *Cibotium* KAUELFUSS.

1. ***Cibotium barometz* SM.**, in HOOK. Lond. Journ. Bot. I. p. 347 (1842); MATSUM.,

Ind. Pl. Jap. I. p. 299 (1904); SAKAG., Gen. Ind. Fl. Okin. p. 109 (1924); NAK., in TBM. XLI. p. 65 (1927); MAK. et NEMOTO. Fl. Jap. ed. 2. p. 13 (1931); H. ITO, in TBM. LII. p. 584 (1938) et Fil. Jap. III. f. 458 (1944) *Syn.* *Polypodium barmetz* LINN., Sp. Pl. ed. 1. p. 1092 (1753) *Dicksonia barmetz* LINK., ap. HOOK. et BAK., Syn. Fill. p. 49 (1874); NAK., in TBM. VIII. p. 413 (1894) *Nom.* *Nipp.* *Takawarabi Hab.* Okinawa: Onnada, VII. 24. 1923 (leg. S. TANAKA!); Iheya; Iriomotezima; Isigakizima. *Distr.* Taiwan: China australis; Malaya; Cochinchina; Assam; Philipp.

var. *assamica* C. CHR., Ind. Fil. p. 183 (1905); H. ITO, in TBM. XLI. p. 585 (1938) *Syn.* *Cibotium assamicum* HOOK., Sp. Fil. I. p. 83 (1844); NAK., in TBM. XLI. p. 66 (1927); SASAKI, Cat. Gov. Herb. Formos. p. 5 (1930); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 13 (1931) *Nom.* *Nipp.* *Assamutakawarabi Hab.* Okinawa: Hanetimura, Kunigami, Genkai. 21, 1924 (leg. Z. TASIRO in G. H. Formos. n. 27158!) *Distr.* Taiwan; S-China; Malay Assam.

var. *cumingii* C. CHR., Ind. Fil. p. 185 (1905); NAK., in TBM. XLI. p. 66 (1927); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 13 (1931); H. ITO, in TBM. LII. p. 585 (1938) et in JJB. XIII. p. 373, f. 23 (1937) *Syn.* *Cibotium cumingii* KUNZE, Fark. I. p. 64 (1841) *Cibotium barometz* subs. *cumingii* DIELS, in Nat. Pfl.-fami. I. pt. 4. p. 121 (1897) *Nom.* *Nipp.* *Kumintakawarabi Hab.* Okinawa: Nagodake, Onnada; Isigakizima; Iriomotezima. *Distr.* Taiwan to old world tropics.

XVI. DENSTAEDTIACEAE

1. *Microlepia* PRESL

- Microlepia majuscula*** MOORE, Ind. Fil. p. 297 (1861); H. ITO, in TBM. LII. p. 645 (1938) et Fil. Jap. Ill. f. 3 (1944); NAK. et MOMOSE, in Cytologica, p. 361 (1938); *Syn.* *Microlepia obtusiloba* HAY.; TAGAWA, in Act. V. p. 101 (1936) et VIII. p. 166 (1939) *Nom.* *Nipp.* *Kosyunsida Hab.* Okinawa; Miyakozima; Yakushima *Distr.* Tiwan to Ceylon.
- M. marginata*** CHR., Ind. Fil. p. 212 (1905); SASAKI, Cat. Gov. Herb. Formos. p. 23 (1930); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 78 (1931); MASAMUNE, FY. p. 65 (1934); H. ITO, in TBM. LII. p. 645 (1938) et Fil. Jap. Ill. f. 1 (1944) *Syn.* *Polypodium marginatum* HOUTT., Pfl. Syst. XIII. 1. p. 199 (1786) *Polypodium marginale* (non LINN.) THUNB., Fl. Jap. p. 337 (1874) *Microlepia marginata* CHR. var. *yakusimensis* H. ITO, in JJB. XVIII. p. 197 (1942) (*Kebukahumotosida* H. ITO) *Microlepia marginata* var. *villosa* WU, WONG et PONG; H. ITO, in JJB. XVIII. p. 197 (1942) *Nom.* *Nipp.* *Humotosida Hab.* Yakushima; Amami-osima; Okinawa: Nago *Distr.* Honsyu; Sikoku; Kyusyu; Taiwan; China; Ceylon.
var. *bipinnata* MAK., in JJB. III. p. 47 (1926); TAGAWA, in Act. X. p. 203 (1941) *Nom.* *Nipp.* *Kuzyakuhumotosida Hab.* Okinawa *Distr.* Honsyu; Sikoku; Kyusyu; Taiwan.
- M. pyramidata*** (WALL.) LACAITA, in Journ. Linn. XLIII. p. 483 (1916); TA-

- GAWA, in Act. X. p. 198 (1941) *Syn. Microlepia speluncae* (non MOORE); SAKAG., Gen. Ind. Fl. Okin. p. 112 (1924); H. ITO, in TBM. LII. p. 645 (1938) et Fil. Jap. Ill. f. 6 (1944) *Davallia pyramidalata* WALL., Cat. n. 26 (1828) n. n. *Nom. Nipp. Oisikaguma Hab.* Okinawa; Miyakozima; Isigakizima. *Distr.* Taiwan; S-China and other tropical lands.
4. **M. strigosa** (THUNB.) PRESL, Epim. Bot. p. 95 (1849); LUERSS., in ENGL. Bot. Jahrb. IV. p. 354 (1883); MATSUM., Ind. Fl. Jap. I. p. 314 (1904); SAKAG., Gen. Ind. Fl. Okin. p. 112 (1924); OGATA, Ic. Fil. Jap. II. pl. 81 (1929); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 78 (1931); MASAMUNE, FY. p. 66 (1934); H. ITO, in TBM. LII. p. 645 (1939) et Fil. Jap. Ill. f. 4 (1944) *Syn. Trichomanes strigosa* THUNB., Fl. Jap. p. 339 (1784) *Davallia strigosa* MATSUM., in Gakugeisirin XIV. p. 475 (1884) *Nom. Nipp. Isikaguma Hab.* Tanegasima: Kitatane Aug. 13, 1934 (leg. MORI!); Yakushima; Amami-osima; inter Urakami et Nakagami VII. 18, 1933 (leg. Ipse!); Okinawa; Miyako; Iriomotezima; Isigakizima. *Distr.* Honsyu; Sikoku; Taiwan; China.
 5. **M. subpinnata** HAY., Ic. Pl. Formos. IV. p. 209 (1914); TAGAWA, in Act. V. p. 101 (1936); H. ITO, in TBM. LII. p. 654 (1938) *Nom. Nipp. Kirebahumotosida Hab.* Miyakozima *Distr.* Taiwan.
 6. **M. substrigosa** TAGAWA, in Act. V. p. 189 (1936); H. ITO, in TBM. LII. p. 645 (1938) *Nom. Nipp. Usubainukaguma Hab.* Yakushima *Distr.* Taiwan.
 7. **M. yakusimensis** TAGAWA, in Act. XI. p. 238 (1942) *Syn. Microlepia obtusiloba* HAY.; TAGAWA, in Act. V. p. 101 (1936) Pl. ex Yakushima *Nom. Nipp. Yakusimakaguma Hab.* Yakushima *Distr.* Endemic.

2. *Scypholepis* J. SMITH.

1. **Scypholepis hookeriana** J. SMITH., Histr. Fil. p. 262 (1875); H. ITO, Fil. Jap. Ill. f. 7 (1944) *Syn. Davallia hookeriana* WALL., Cat. p. 91, n. 2684 (1828) n. n.; HOOK., Sp. Fil. I. p. 172, t. 473 B (1846) *Microlepia hookeriana* PRESL., Epim. p. 95 (1849); SASAKI, Cat. Gov. Herb. Formos. p. 28 (1930); OGATA, Ic. Fil. Jap. V. pl. 233 (1933) *Nom. Nipp. Yanbaruhumotosida Hab.* Okinawa: Kunigami I. 30, 1924 (leg. Z. TASIRO in G. H. Formos. n. 27204!) *Distr.* Taiwan; S-China; India.

3. *Fuziiflix* NAK. et MOMOSE

1. **Fuziiflix pilosella** NAK. et MOMOSE, in Cytologica, Fuzii Jubilaei p. 365 (1937) *Syn. Trichomanes hirsutum* (non LINN.) THUNB., Fl. Jap. p. 339 (1784) *Microlepia pilosella* MOORE, Ind. Fil. p. 298 (1861); MASAMUNE, FY. p. 66 (1934) *Denstaedtia hirsuta* METTEN. ex MIQ., in Ann. Mus. Bot. Lugd.-Bat. III. p. 181 (1868) *Nom. Nipp. Inusida Hab.* Yakushima: Isizuka-yama *Distr.* East-Siberia; Manchuria; Corea; Honsyu; Sikoku; Kyusyu; Taiwan; Philipp.; China.

4. *Denstaedtia* BERNHARDI

1. **Denstaedtia formosana** CHR., in Bull. Herb. Boiss. 2 ser. IV. p. 614 (1904); MASAMUNE, FY. p. 68 (1934) **Nom. Nipp.** *Taiwankaguma* **Hab.** Yakusima **Distr.** Taiwan
2. **D. scabra** MOORE, Ind. Fil. p. 307 (1861); KODAMA, in TBM. XXXI. p. 17 (1917); SAKAG., Gen. Ind. Fl. Okin. p. 109 (1924); MASAMUNE, FY. p. 68 (1934); H. ITO, in TBM. LII. p. 645 (1938) **Syn.** *Dicksonia scabra* WALL., Cat. n. 2173 (1829); HOOK., Sp. Fil. I. p. 80, t. 28 B (1844) **Nom. Nipp.** *Kobanoisikaguma* **Hab.** Yakusima **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan.
var. *glabrescens* (CHING.) TAGAWA, in Act. V. p. 151 (1936) **Syn.** *Denstaedtia glabrescens* CHING, in Bull. Dep. Biolog. Col. Se. Sun. Yatsen Univ. V. p. 24 (1933) **Nom. Nipp.** *Usugekobano-isikaguma* **Hab.** Yakusima **Distr.** Honsyu; China.

XVII. HYPOLEPIDACEAE

1. *Hypolepis* BERNHARDI.

1. **Hypolepis bamleriana** ROSENSTOCK, in Fedd. Rep. X. p. 325 (1912); H. ITO, in JJB. XIII. p. 370 (1937), in TBM. LIII. p. 25 (1939) et Fil. Jap. Ill. f. 62 (1912) **Nom. Nipp.** *Sima-iwahimewarabi* (H. ITO) **Hab.** Yakusima **Distr.** Ogasawara; New Guinea.
2. **H. punctata** METTENIUS, apud KUHN, Fil. Afr. p. 120 (1886); MASAMUNE, FY. p. 85 (1934); H. ITO, in TBM. LIII. p. 25 (1939) et Fil. Jap. Ill. f. 61 (1934) **Syn.** *Polypodium punctatum* THUNB., Fl. Jap. p. 337 (1784) **Nom. Nipp.** *Hime-warabi* **Hab.** Yakusima; Amami-osima **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan.

XVIII. CYATHEACEAE

1. *Cyathea* SMITH.

1. **Cyathea bonisimensis** COPEL., in Philipp. Journ. Sc. IV. p. 38 (1909); NAK., in TBM. XLI. p. 67 (1927); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 13 (1931); MASAMUNE, FY. p. 46 (1934); H. ITO, in TBM. LII. p. 584 (1938) et Fil. Jap. Ill. f. 450 (1944) **Syn.** *Hemitelia bonisimensis* DIELS, in ENGL u. PRANT., Nat. Pfl.-fam. I. 4. p. 132 (1899) *Cyathea spinulosa* (non WALL.) HOOK. et BAK., Syn. Fil. p. 23 (1865) p. p.; LUERSSEN, in Engl. Bot. Jarb. IV. p. 365 (1883); MATSUM., in Gakugeisirin XIV. p. 506 (1884) et Ind. Pl. Jap. I. p. 301 (1904); KAWAG., in Bull. Kag. I. p. 104 (1915); SAKAG., Gen. Ind. Fl. Okin. p. 115 (1924); KODAMA, in TBM. XXXI. p. 17 (1917); MATH., in J.-Linn. XXXIX. p. 353 (1911) *Alsophila bonisimensis* CHR., in WARBI. Mons. I. p. 90 (1900) *Cyathea fauriei* COPEL.; KOIZUMI, in Act. V. p. 38 (1933) **Nom. Nipp.** *Hego* **Hab.** Tanegasima: Kitatane Aug. 15, 1934 (leg. K. MORI); Nakanosima; Yakusima; Amami-osima; Tokunosima; Okinawa; Isigakizima? Iriomotezima. **Distr.** Kyusyu; Ogasawara; Taiwan.

2. *C. tiwaniana* NAK., in TBM. XLI. p. 66 (1927); SASAKI, Cat. Gov. Herb. Formos. p. 6 (1930); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 13 (1913) *Nom. Nipp. Taiwan-hego Hab.* Okinawa : Kunigami, Sosu, V. 1923 (leg. Z. TASIRO, in G. H. Formos). *Distr.* Taiwan.

2. *Alsophila* R. BROWN.

1. *Alsophila denticulata* BAK., in Journ. Bot. p. 102 (1885) et in Ann. Bot. V. n. 18, p. 120 (1890); KOIDZ., in Act. V. p. 37 (1936); H. ITO, in TBM. LII. p. 583 (1938) *Syn. Alsophila formosana* BAK., in Ann. Bot. p. 190 (1891); NAK., in TBM. XLI. p. 70 (1927); SASAKI, Cat. Gov. Herb. Formos. p. 5 (1930); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 12 (1930); H. ITO, in TBM. LII. p. 585 (1938) et Fil. Jap. Ill. f. 455 (1944) *A. acaulis* MAK., in TBM. XXVIII. p. 335 (1914); NAK., in TBM. XLI. p. 70 (1927); SASAKI, Cat. Gov. Herb. Formos. p. 5 (1930); MASAMUNE, FY. p. 46 (1934) *Nom. Nipp. Kusamaruhati, Yanbaruhego, Tyabohego. Hab.* Tanegasima; Yakushima; Amami-osima, III. 7. 1924 (leg. Z. TASIRO, in G. H. Formos. n. 27165); Okinawa: Kunigami Benokigawasuzi, II. 11. 1924 (leg. Z. TASIRO in H. G. Formos. n. 27164); Iriomote; Amami-osima: Nonigawa (leg. Ipse), Ongati VII. 14, 1935 (leg. Ipse), inter Nase et Gusuku (leg. Ipse) *Distr.* Sikoku; Kyusyu; Taiwan; S.-China *Not.* I can easily distinguish this fern collected in Kyusyu and Ryukyu from *A. formosana*, but in Formosa I found those forms of plants which were gradually changing from one to the other.
2. *A. podophylla* HOOK., in Kew Journ. Bot. p. 334 (1857); MAK., in TBM. VIII. p. 411 (1894); MATSUM., in Gakugeisirin XIV. p. 475 (1884) et Ind. Pl. Jap. I. p. 286 et 382 (1904); H. CHR., in Bull. Herb. Boiss. 2 ser. 1. p. 1015 (1901); CHR., Ind. Fil. p. 46 (1905); SAKAG., Gen. Ind. Fl. Okin. p. 115 (1924); NAK., in TBM. XLI. p. 71 (1927); SASAKI, Cat. Gov. Herb. Formos. p. 5 (1930); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 12 (1931); H. ITO, in TBM. LII. p. 585 (1938) et Fil. Jap. Ill. f. 457 (1944) *Nom. Nipp. Onihego* (Y. TASIRO); *Kurohego* (Y. TASIRO) *Hab.* Yakushima?; Amami-osima; Tokunosima; Okinawa; Isigakizima; Iriomotezima, X. 24, 1933 (leg. Ipse) *Distr.* Taiwan; S.-China; Siam.
3. *A. pustulosa* C. CHR., in Bull. Herb. Boiss. 2 ser. I. p. 10119 (1901); MATSUM., Ind. Pl. Jap. I. p. 382 (1904); MATH., in J.-Linn. XXXIX. p. 341 (1911); SAKAG., Ind. Fl. Okin. p. 115 (1924); H. ITO, in TBM. LII. p. 585 (1938) et Fil. Jap. Ill. f. 453 (1944); KOIDZ., in Act. V. p. 382 (1904) *Syn. Alsopila faurei* CHR., in Bull. Herb. Boiss. ser. 2. I. p. 1019 (1901); MATSUM., Ind. Pl. Jap. I. p. 382 (1904); MATH., in J.-Linn. XXXIX. p. 341 (1911); NAK., in TBM. XLI. p. 72 (1927) *Alsophila tomentosa* HOOK.; SASAKI, Cat. Gov. Herb. Formos. p. 5 (1930) *Alsophilal atebrosa* HOOK.; SAKAG., Gen. Ind. Fl. Okin. p. 115 (1924) *Nom. Nipp. Ayahego Hab.* Amami-osima; Tokunosima; Okinawa; Kunigami, Sosu, I. 28, 1924 (leg. Z. TASIRO in G. H. Formos. n. 27155) et Kunigami, 1922 (leg. SAKAGUTI in G. H.

Formos. n. 27156!), Yaggati (leg. Ipse) **Distr.** Taiwan.

XIX. PLAGIOGYRIACEAE

1. *Plagiogyria* METT.

1. **P. adnata** BEDD., Fern. Britt. Ind. I. p. 51 (1865); MASAMUNE, FY. p. 112 (1934); H. ITO, in TBM. LII. p. 586 (1938) et Fil. Jap. Ill. f. 444 (1944); TAGAWA, in Act. VIII. p. 165 (1939) *Syn.* *Plagiogyria yakusimenis* K. SATO, in JJB. XII. p. 823 f. 3 (1936) *Nom. Nipp.* *Takasagokizinoo* **Hab.** Yakushima; Amami-osima: Yuwandake VII. 27, 1923 (leg. Ipse) **Distr.** Taiwan; S-China; India; Philipp.; Java.
2. **P. euphlebia** METT., in Abh. Senkumb. Naturf. Gessel. II. p. 274 (1858); MATH., in J.-Linn. XXXIX. p. 376 (1911); MASAMUNE, FY. p. 111 (1934); H. ITO, Fil. Jap. Ill. f. 443 (1944). *Nom. Nipp.* *Okizinoo* **Hab.** Yakushima; Amami-osima **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan.
3. **P. falcata** COPEL., in Philipp. Journ. Sc. II. 2. p. 133, t. 1. B. (1907); SASAKI, Cat. Gov. Herb. Formos. p. 31 (1930) *Nom. Nipp.* *Taiwanyamasotetu* **Hab.** Yakushima **Distr.** Taiwan.
4. **P. japonica** NAK., in TBM. XXXII. p. 206 (1928); H. ITO, in TBM. LII. p. 586 (1938); MASAMUNE, FY. p. 112 (1934) p. p. *Syn.* *Plagiogyria adnata* (non BEDD.) MATSUM., Ind. Pl. Jap. I. p. 331 (1904); KODAMA, in TBM. XXXI. p. 18 (1917); SAKAG., Gen. Ind. Fl. Okin. p. 112 (1924) *Plagiogyria euphlebia* KUNZ.; CHR., in Bull. Herb. Boiss. 2. ser. 1. p. 1016 (1901); MATSUM., Ind. Pl. Jap. I. p. 391 (1904) p. p. ; MASAMUNE, FY. p. 112 (1934) p. p. *Nom. Nipp.* *Kizinoosida* **Hab.** Yakushima **Distr.** Honsyu; Sikoku; Kyusyu.
5. **P. koizumii** TAGAWA, in Act. II. p. 189 (1933); H. ITO, in TBM. LII. p. 58 (1938) *Syn.* *Plagiogyria adnata* BEDD.; SAKAG., Gen. Ind. Fl. Okin. p. 112 (1924) *Nom. Nipp.* *Ryukyu-kizinoo* **Hab.** Iriomote **Distr.** Endemic.
6. **P. matsumureana** MAK., in TBM. VIII. p. 333 (1894); MATSUM., Ind. Pl. Jap. I. p. 332 (1904); MASAMUNE, FY. p. 112 (1934); H. ITO, Fil. Jap. f. 446 (1944) *Syn.* *Lomaria matsumureana* MAK., in TBM. VIII. p. 90 (1894) Ill *Nom. Nipp.* *Yamasotetu* **Hab.** Yakushima **Distr.** Hokkaido; Honsyu; Sikoku; Kyusyu.
7. **P. stenoptera** DIELS, in ENGL. u. PRANT., Nat. Pfl.-fam. I. 4. p. 282 (1899); NAK., in TBM. XXIII. p. 244 (1909); MAK. et NEM., Fl. Jap. ed. 2. p. 84 (1931); MASAMUNE, FY. p. 112 (1934); H. ITO, in TBM. L. p. 586 (1938) et Fil. Jap. Ill. f. 447 (1944) *Syn.* *Blechnum stenopterum* HANCE, in J.-Bot. XXIII. p. 103 (1885) *Nom. Nipp.* *Simayamasotetu* **Hab.** Yakushima **Distr.** Taiwan; China; Philipp.

XX. DIPTERIDACEAE

1. *Dipteris* REINWARDT.

1. *Dipteris conjugata* REINW., Syll. Pl. II. p. 3 (1824); MATSUM., Ind. Pl. Jap. I. p. 305 (1904); MATH., J.-Linn. XXXIX. p. 359 (1911); SAKAG., Gen. Ind. Fl. Okin. p. 110 (1924); NAK., in TBM. XLII. p. 216 (1928); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 50 (1931); OGATA, Ic. Fil. Jap. VI. pl. 266 (1935); H. ITO, in TBM. LII. p. 585 (1938) et Fil. Jap. Ill. f. 449 (1944) *Syn.* *Polypodium dipteris* BL., Enum. p. 135 (1828) et Fl. Jav. p. 174, t. 81 (1829); MAK., in TBM. X. p. 59 (1896); MATSUM., Ind. Pl. Jap. I. p. 392 (1904) *Dipteris horsfieldii* BEDD.; CHR., in Bull. Herb. Boiss. VI. p. 880 (1898) *Nom. Nipp.* *Yaburegasaurabosi* **Hab.** Iriomotezima; Isigakizima **Distr.** Taiwan; China.

XXI. CHEIROPLEURIACEAE

1. *Cheiropleuria* PRESL.

1. *Cheiropleuria bicuspis* PRESL. var. *integrifolia* EAT., ap. MATSUM., Ind. Pl. Jap. I. p. 299 (1904); KAWAG., in Bull. Kag. I. p. 104 (1915) sub form.; NAK., in TBM. XLII. p. 214 (1928); SAKAG., Gen. Ind. Fl. Okin. p. 109 (1924); SASAKI, Cat. Gov. Herb. Formos. p. 13 (1930); MAK. et NEMOTO, Fl. Jap. ed. 2. p. 37 (1931); MASAMUNE, FY. p. 47 (1934); H. ITO, in TBM. LII. p. 585 (1938) et Fil. Jap. Ill. f. 448 (1944) *Syn.* *Cheiropleuria bicuspis* (non PR.) HOOK. et BAK., Syn. Fil. ed. 1. p. 421 (1868); LURESS., in ENGL. Bot. Jahrb. IV. p. 354 (1883); CHR., in Bull. Herb. Boiss. 2 ser. 1. p. 1016 (1901); OGATA, Ic. Fil. Jap. II. pl. 61 (1929) *Acrostichum bicupre* HOOK., Sp. Fil. V. p. 271 (1863); HOOK. et BAK., Syn. ed. 1 p. 421 (1868); MATSUM., in Gakugeisirn XIV. p. 421 (1884) *Acrostichum bicuspe* HOOK. var. *integrifolia* EAT.; MAK., in TBM. X. p. 55 (1896) *Nom. Nipp.* *Suzihitotuba* **Hab.** Tanegasima; Yakushima; Nakanosima; Amami-osima (DODERLEIN Herb. in Berl.); Tokunosima; Okinawa: Kunigami, Benoki-gawasuzi II. 11, 1924 (leg. Z. TASIRO in G. H. Formos. n. 27177!), Nagodake, IV. 1907) leg. KAWAKAMI et NAKAHARA, in G. H. Formos. n. 580); Miyakozima; Isigakizima; Iriomotezima **Distr.** Honsyu; Sikoku; Kyusyu; Taiwan; S-China.

(to be continued)