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臺灣總督府中央研究所林業部報 第三十號
紅頭嶼列島植物地理學的及區系學的研究第一冊陸花植特篇

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臺灣總督府

中央研究所林業部報告

第二十一號

紅頭嶼列島ノ植物地理學的及區系學的研究

第一冊 隱花植物篇

佐々木舜一

Report No. 21

PHYTOGEOGRAPHICAL AND FLORISTICAL STUDIES

ON THE ISLANDS SERIES OF KOTOSYO,

Generally Including Kôtôsyô (Botel Tobago Isl. proper),

Syô-kôtôsyô (Little Botel Tobago Isl.),

and Kwasyô-tô (Samasana Isl.).

Part. 1. Enumeration of Hitherto
Known Indigenous Pteridophytes and Their
Geographical Distribution

by

SYUN'ITI SASAKI

寄贈
13.6.15
帝國圖書館

DEPARTMENT OF FORESTRY
GOVERNMENT RESEARCH INSTITUTE
TAIHOKU, TAIWAN,
JAPAN.

1937

臺灣總督府中央研究所

昭和十二年九月

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中央研究所林業部報告

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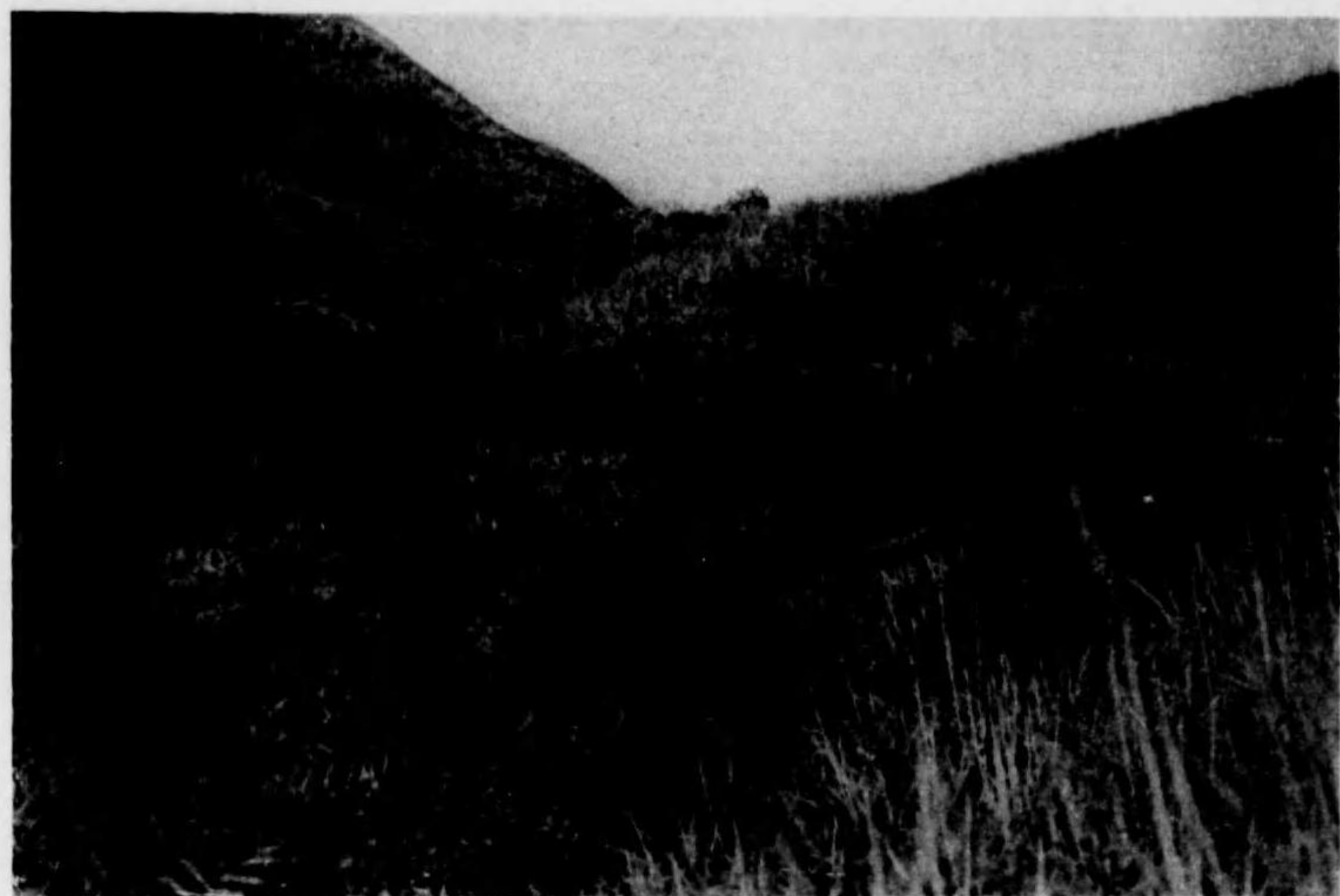
昭和十一年九月





(S. Sasaki, phot.)

Plate 1. An association of *Angiopteris D'Urvilleana*, DE VRIESE, in
the neuter forests of Irararai, Kôtô-syo Isl.



(S. Sasaki, phot.)

Plate 2. An association of *Alsophila tomentosa* Hook., at the Pass of Imaurutur to Iwarinu, Kôtô-syo Isl.

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本報告書ハ紅頭嶼列島ノ植物地理學的及區系學的研究
成績ニシテ學術的價值大ナルモノアルヲ認メ之レヲ印刷
ニ附ス

昭和十二年九月

臺灣總督府中央研究所林業部長

農學博士 關 文 彦

自 序

本文は曾て予の擔當して居る紅頭嶼列島の植物分類地理學的の研究記録で全篇を三部に分ち、分類第一冊隠花植物篇、第二冊顯花植物篇、第三冊植物生態及分布篇として發表する積りの第一冊である。

初め手を下したのは明治四十四年で最後は昭和九年で此間紅頭嶼に十一回、小紅頭嶼に二回、火燒島に三回程渡航して得たる材料と三宅驥一氏、小室要三郎氏、福山伯明氏、鈴木時夫氏、瀬川孝吉氏、佐多長春氏等の材料を加へたるものによつて全部を纏めて居る。

數度の渡航及海外出張に際しては歴代の研究所及殖産局上官の好意に浴し、文部省内恩賜財團日本學術振興會が理學博士池野成一郎氏、同柴田桂太氏を通して與へられた援助に對しては衷心から感謝の意を表する。

又紅頭嶼、火燒島駐在の歴代警察官諸氏及故齋藤典治氏より受けた好意も忘るゝことの出来ぬものである。

私は本研究の最善を盡すため左記の學者及研究所を訪ふて比較研究に鑑定に少なからざる御厚意を得たことを深く感謝する。

東京帝國大學理學部腊葉館

比律賓官立研究所腊葉館

同 ロスバニオス有用植物園腊葉館

英領海峽殖民地シンガポール植物園腊葉館

印度デヘラヅーン林學研究所腊葉館

同 カルカッタ植物園腊葉館

爪哇ボイテンゾルグ植物腊葉館

臺北帝國大學理農學部腊葉館

米國アーノルドアルボレタム園長メリル博士

比律賓ロスバニオス有用植物園コーブランド博士

同 官立研究所次長ケシヨンビン博士

其他萬事の助力を賜はつた技師松浦作治郎、福山伯明、謝阿才、田中正明諸氏に深く感謝の意を表する。

昭和十二年九月

臺灣總督府中央研究所林業部腊葉館にて

著 者

P R E F A C E

This essay represents the results of the researches made by myself into the systematic botany of Kotosyo Islands, on which I have long been working. It is part one of a series of three studies, which deal in detail with cryptogams (Part I), phanerogamous (Part II), and oecology and geographical distribution of plants (Part III), in these little-known islands situated in the Pacific some 45 nautical miles off the East Coast of Taiwan.

I have been to Kotosyo 11 times, to Syo-kotosyo twice and to Kasyoto 3 times during the period of 1911 to 1934. The materials collected in the above expeditions form the principal portion of this article, to which those collected by Dr. K. Miyake, and Messrs. Y. Komuro, Noriaki Hukuyama, Tokio Suzuki, Kokiti Segawa, Tyosyun Sata have been subsequently added.

My special thanks are due to for the ready and efficient help given me on many occasion by the successive directors of the Central Research Institute as well as of the Department of Productive Industries of the Government-General of Taiwan. I desire to thank the Imperial Japanese Society for the Advancement of Culture attached to the Ministry of Education for the pecuniary support accorded to me through Dr. Seitiro Ikeno and Dr. Keita Sibata.

The consideration and attention given by the successive resident policemen in Kotosyo and by the late Mr. Tenzi Saito will always be remembered with sincere gratitude.

Finally I am greatly indebted to all those botanists, who have generously given me willing advice and help in the classification of the plants, and in particular, to Dr. E. D. Merrill, Director of the Arnold Arboretum, Jamaica Plain, U. S. A., Dr. E. B. Copeland, Economical Gardens, Los Banos, Philippines, and Dr. E. Quisumbing, Assistant Director of the Bureau of Science of the Philippine Government.

I also wish to thank the Directors of the Herbarium of the Faculty of Science of the Imperial University of Tokyo; of the Herbarium of Bureau of Science of the Philippine Government, Manila; of the Herbarium of the Economic Gardens, Los Banos, Philippines; of the Herbarium of the Botanic Gardens, Singapore, Straits Settlements; of the Herbarium of the Research Institute of India, Dehra Dun, U. P., India; of the Herbarium of the Royal Botanic Gardens, Calcutta, Bengal, India; of the Herbarium of Buitenzorg, Java; and finally of the Herbarium of the Faculty of Agriculture and Science of the Imperial University of Taihoku, for various herbaria placed at my disposal which have proved of invaluable assistance in my comparative studies. Messrs. Sakuziro Matuura, Asai Sya, M. Tanaka, have assisted me in countless ways, for which I take this opportunity of thanking them.

Syun'iti Sasaki

In the Herbarium of the Research Institute of Forestry,
Government-General of Taiwan (Formosa), Japan.

September 1937, Taihoku.

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PTERIDOPHYTA

Danaceae

DANACEAE AGARDH, Aphorismi Bot. (1822) 117; LINDLEY, Natur. Syst. Bot. (1836) 402;
NAKAI, in Bot. Mag. Tokyo, 41 (1927) 74.

Marattiaceae KAULEUSS, Enum. Filic. (1824) 31; BORY, in Dict. Class. 6 (1824) 586;
GAUDICHAUD, Freycinet. Voy. (1826) 291; ENDLICH., Gen. Pl. (1836) 63; METTEN., Filic. Hort.
Lips. (1856) 15; MART., Fl. Brasil. 2 (1859) 147; H. CHRIST, Farnkr. d. Erde (1897) 357; BITTER,
in Engl. u. Prantl. Nat. Pflanz.-fam. 1. 4 (1900) 422; ROSENB., Malay. Fern. (1908) 761.

ANGIOPTERIS HOFFMANN, Comm. Soc. Reg. Gotting. 12 (1796) 29, t. 5; SWARTZ, in Schrad.
Journ. Bot. 1. pt. 2 (1801) 107, et Syn. Filic. (1806) 7 et 166; WILLD., Sp. Pl. 5 (1810) 46 et 69;
H. CHRIST, Farnkr. d. Erde (1897) 357; BITTER, in Engl. u. Prantl. Nat. Pfl.-fam. 1. 4 (1900)
436; C. CHRIST., Ind. Fil. (1906) 59; ROSENB., Malay. Fern. (1908) 761; NAKAI, in Bot. Mag.
Tokyo, 41 (1927) 75.

Clementoa CAVANILLES, Descrip. Pl. (1802) 553, no. 1164.

Pseudangiopteris PRESL, Suppl. Tent. Pterid. (1845) 23.

Psilodochea PRESL, Suppl. Tent. Pterid. (1845) 28.

Distrib. Japan, South China, Cochinchina, Malaya & Malay Archipelago, India, Himalaya,
Burma, Molucca, Pacific Islands, Madagascar.

1. *ANGIOPTERIS D'URVILLEANA* DE VRIESE, *Monogr. Marattiaceae*, 17 (1853) t. 3, f. 11, t. 4, f. 11; BITTER, in *Engl. u. Prantl. Nat. Pfl.-fam.* 1. 4 (1900) 438; C. CHRIST., *Ind. Fil.* (1906) 56; ROSENBERG, *Malay. Fern.* (1908) 838, et *Malay. Fern. & Fern Allies*, Suppl. 1 (1916) 44; NAKAI, in *Bot. Mag. Tokyo*, 41 (1927) 77; MAKINO et NEMOTO, *Fl. Jap.* (1925) 1, et 2 ed. (1931) 1.

Angiopteris evecta (non HOFFM.) YABE, in *Bot. Mag. Tokyo*, 16 (1932) 52; MATSUM. et HAYATA, *Enum. Pl. Formos.* (1936) 558, pro. parte; KAWAK. et SASAKI, in *Trans. Nat.-Hist. Soc. Formos.* No. 22 (1915) ad. 21; NAKAI, in *Bot. Mag. Tokyo*, 16 (1927) 77.

Nom. Jap. Kōtō-ryūbintai.

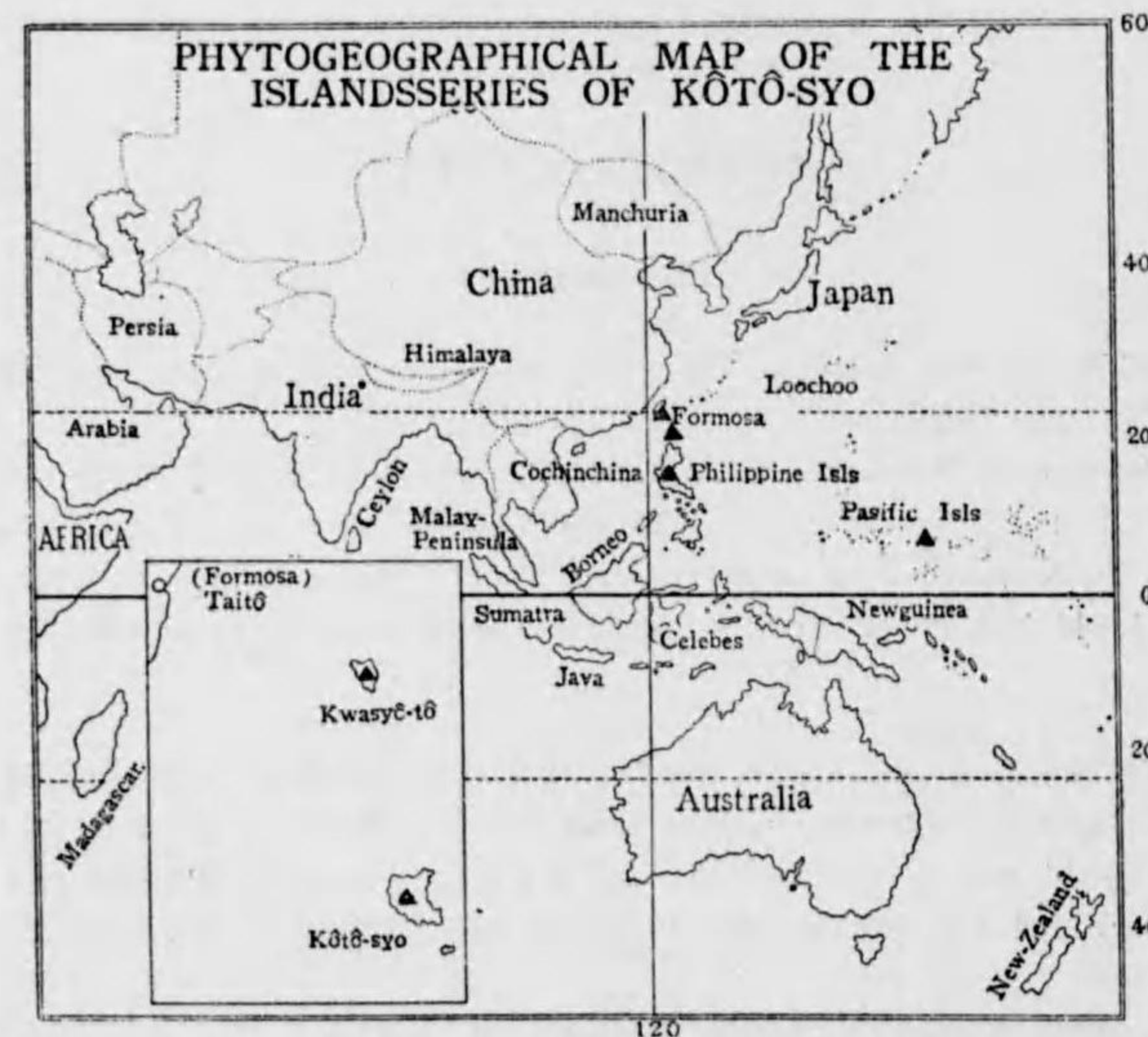
Serm. Nativ. pap-tock.

Hab. Kōtōs-yo, K. Miyake, 1899; *ibid.* June 1926, et. Oct. 9. 1934, S. Sasaki; Kwasyō-tō, June 4, 1917, et May 15, 1927, S. Sasaki.

Distrib. Philippines, Pacific Isls.

Note: This species generally grows in the moist and shade places in the neuter forests and valleys over the islands.

Fig. 1



MARATTIA SWARTZ, *Prodr. Ind. Occ.* (1788) 128; BEDD., *Fern. South. Ind.* (1863) 27; HOOK., *Handb. New-Zeal. Fl.* (1867) 386; HOOK. et BAKER, *Syn. Filic.* (1868) 440; BAKER, *Fl. Maurit.* (1877) 516; BENTH., *Fl. Austral.* 7 (1878) 695; BEDD., *Handb. Fern. Brit. Ind.* (1892) 460; SMITH, *Fern.* (1896) 266; BITTER, in *Engl. u. Prantl. Nat. Pfl.-fam.* 1. 4 (1900) 441; BAIL., *Queensl. Fl.* 6 (1902) 1936; C. CHRIST., *Ind. Filic.* (1906) 414; ROSENBERG, *Malay. Fern.* (1908) 763.

Myriotheca COMMERSON, in *Juss. Gen. Pl.* (1789) 15.

Eupodium J. SM., in *Hook. Gen. Fil.* (1842) t. 118.

Discostegia PRESL, *Suppl. Tent. Pterid.* (1845) 11.

Gymnotheca PRESL, *Suppl. Tent. Pterid.* (1845) 12.

Stibasia PRESL, *Suppl. Tent. Pterid.* (1845) 15.

Distrib. Asia, Australia, Africa tropics and Madagascar, Tropical both America.

2. *MARATTIA FRAXINEA* SMITH, *Pl. Ic. ined.* 2 (1790) t. 48; GMEL., *Syst. Nat.* 2-2 (1791) 1294; HOOK. et BAKER, *Syn. Fil.* (1868) 440; BEDD., *Fern. South. Ind.* 2 ed. (1873) 27, pl. 79, et *Handb. Fern. Brit. Ind.* (1892) 460, pl. 286; BENTH., *Fl. Austr.* 7 (1878) 695; BAIL., *Queensl. Fl.* 6 (1902) 1936; C. CHRIST., *Ind. Fil.* (1906) 414; ROSENBERG, *Malay. Fern.* (1908) 765.

Myriotheca fraxinea POIR., in *Lam. Encycl.* 4 (1797) 404.

Myriotheca fraxinifolia BORY, *Voy. Ind. Orient* 1 (1804) 266

Myriotheca sorbifolia BORY, *ibid.* 267.

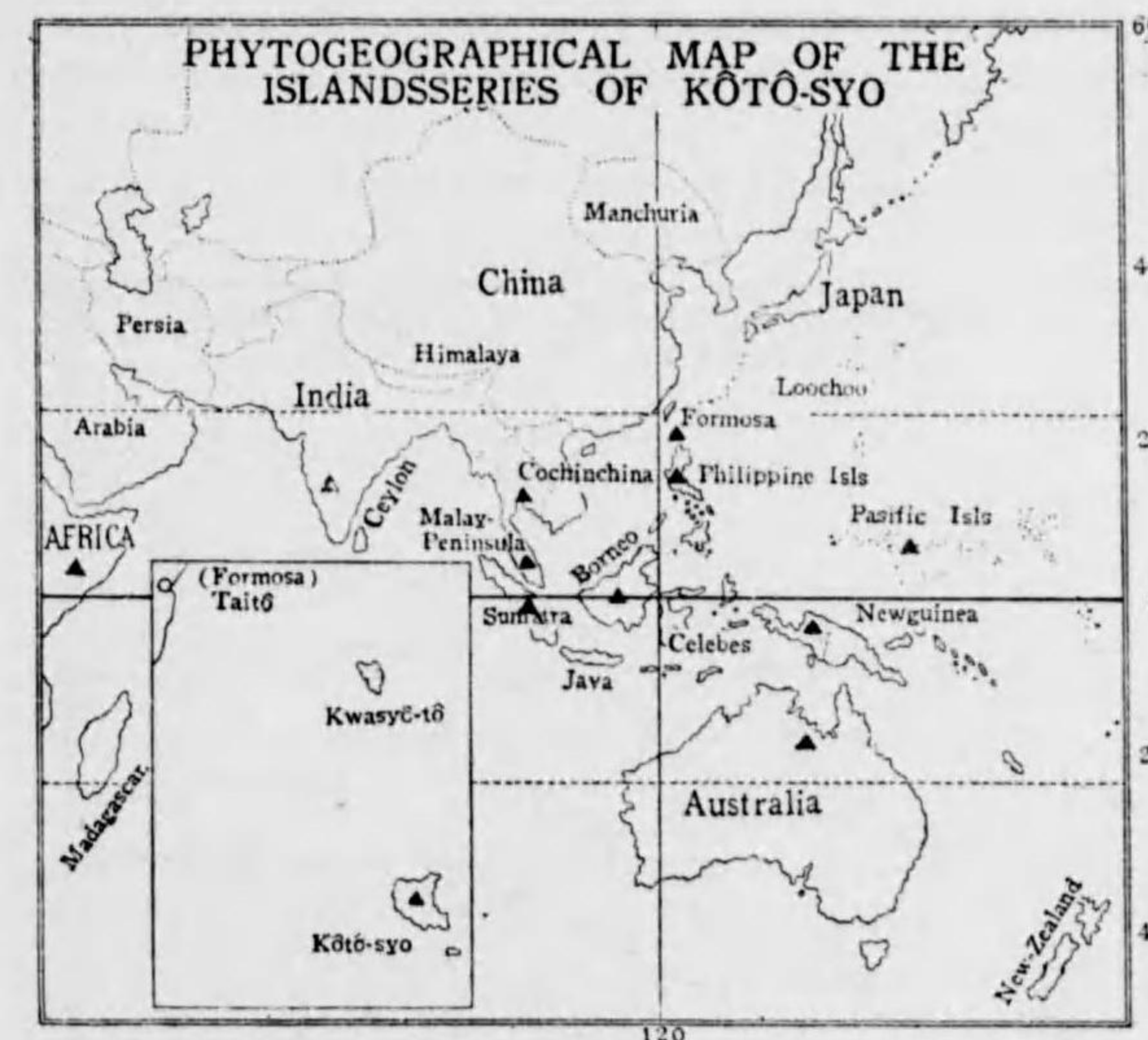
Nom. Jap. Nan'yō-ryūbintaimodoki.

Hab. Kōtō-syo, Irararai, Aug. 1932, Tyōsyun Sata!

Distrib. Trop. Asia, Australia & Africa.

Note: This species grows in the shade places of the neuter forests at the north part of Kōtō-syo.

Fig. 2



Ophioglossaceae

OPHIOGLOSSACEAE LINDL., *Nat. Syst. Bot.* (1836) 402; BEDD., *Fern. South. Ind.* (1863) 22; PRANTL, in *Jahrb. Berl. Bot. Gartens.* 3 (1884) 297-350; BEDD., *Handb. Fern. Brit. Ind.* (1892) 462; SMITH, *Fern.* (1896) 270; BITTER, in *Engl. u. Prantl. Nat. Pfl.-fam.* 1. 4 (1900) 449; ROSENBERG,

Malay. Fern. (1908) 270.

OPHIGLOSSUM LINN., Sp. Pl. (1753) 1062; BEDD., Fern. South. Ind. (1863) 23; HOOK., Handb. New-Zeal. Fl. (1867) 386; HOOK. et BAKER, Syn. Filic. (1868) 444; BAKER, Fl. Maurit. (1877) 517; BENTH., Fl. Austral. 7 (1878) 688; PRANTL, in Jahrb. Bot. Gart. u. Mus. Berlin (1884) 3; BEDD., Handb. Fern. Brit. Ind. (1892) 462; SMITH, Fern. (1896) 270; BITTER, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 465; BAIL., Queensl. Fl. 6 (1902) 1932; ROSENB., Malay. Fern. (1908) 771.

Rhizoglossum PRESL, Suppl. Tent. Pterid. (1845) 48.

Cheiroglossa PRESL, Suppl. Tent. Pterid. (1845) 56.

Cassiopteris KARSTEN, Klotzsch in Linn. 20 (1847) 437.

Paranera PRANTL, Ber. Deut. Bot. Ges. 1 (1883) 350.

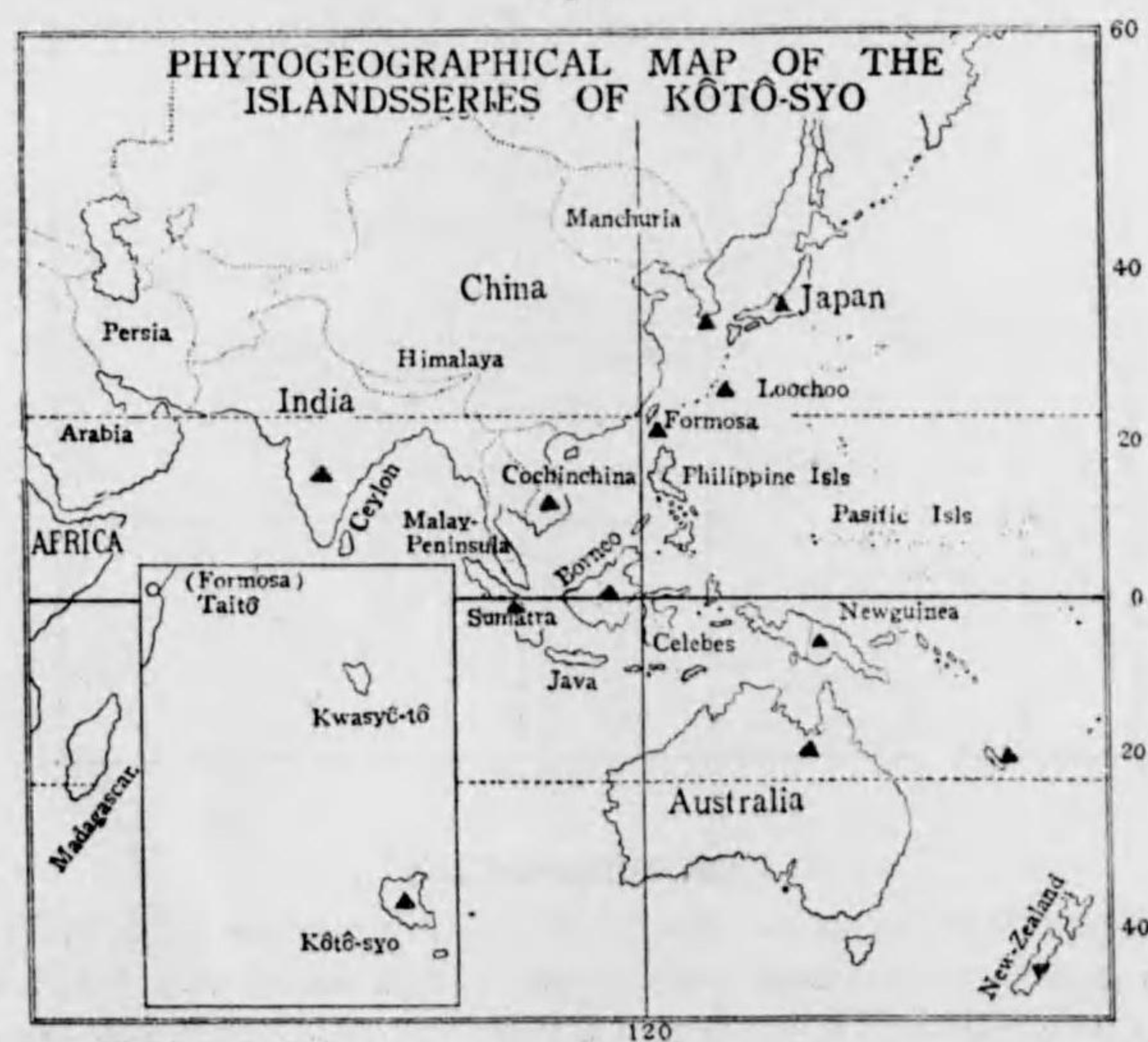
Ptiloneura PRANTL, Ber. Deut. Bot. Ges. 1 (1883) 351.

Distrib. Cosmopolitan.

3. **OPHIGLOSSUM PEDUNCULOSUM** DESV., in Berl. Mag. 5 (1811) 306; PRANTL, Ophiogl. (1883) 328, tal. 8, f. 33-34; BITTER, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 469; C. CHRIST., Ind. Fil. (1906) 471; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 148; ROSENB., Malay. Fern. (1908) 775; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 4; NAKAI, in Bot. Mag. Tokyo, 39 (1925) 193, et ibid. 40 (1926) 373; SASAKI, Cat. Govt. Herb. (1930) 2; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 4.

Ophioglossum petiolatum HOOK., Exot. Flora 1 (1823) t. 56.

Fig. 3



Ophioglossum moluccanum SCHLT., Adunbr. (1825) 9; RACIB., Pter. Fl. Buitenz. 1 (1898) 4.

Ophioglossum elongatum A. CUNN., in Hook. Comp. Bot. Mag. 2 (1836) 361.

Ophioglossum vulgatum (non LINN.) MIQ., in Ann. Mus. Bot. Lugd. Bat. 3 (1867) 188, PROL. Fl. Jap. (1867) 347, 390.

Ophioglossum reticulatum (non LINN.) NAKAI, in Journ. Coll. Sci. Tokyo, 31 (1910) 420, et Veg. Isl. Quelp. (1914) 12, n. 125, et in Bot. Mag. Tokyo, 28 (1914) 100.

Nom. Jap. Ko-hiroha-hanayasuri.

Hab. Kōtō-syo, Nov. 21, 1934, S. Sasaki!

Distrib. Japan, Korea, Loochoo, Tropic Asia, Australia, New-Zealand, New-Caledonia.

Note: This species grows only one places in the Valley of Yayū.

HELMINTHOSTACHYS KAULFUSS, Flora (1822) 103, et Enum. Filic. (1824) 28; BEDD., Fern. South. Ind. (1863) 23; HOOK. et BAK., Syn. Fil. (1868) 447; BEDD., Handb. Fern. Brit. Ind. (1892) 467; SMITH, Fern. (1896) 272; BITTER, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 472; BAIL., Queens. Fl. 6 (1902) 1933; ROSENB., Malay. Fern. (1908) 777.

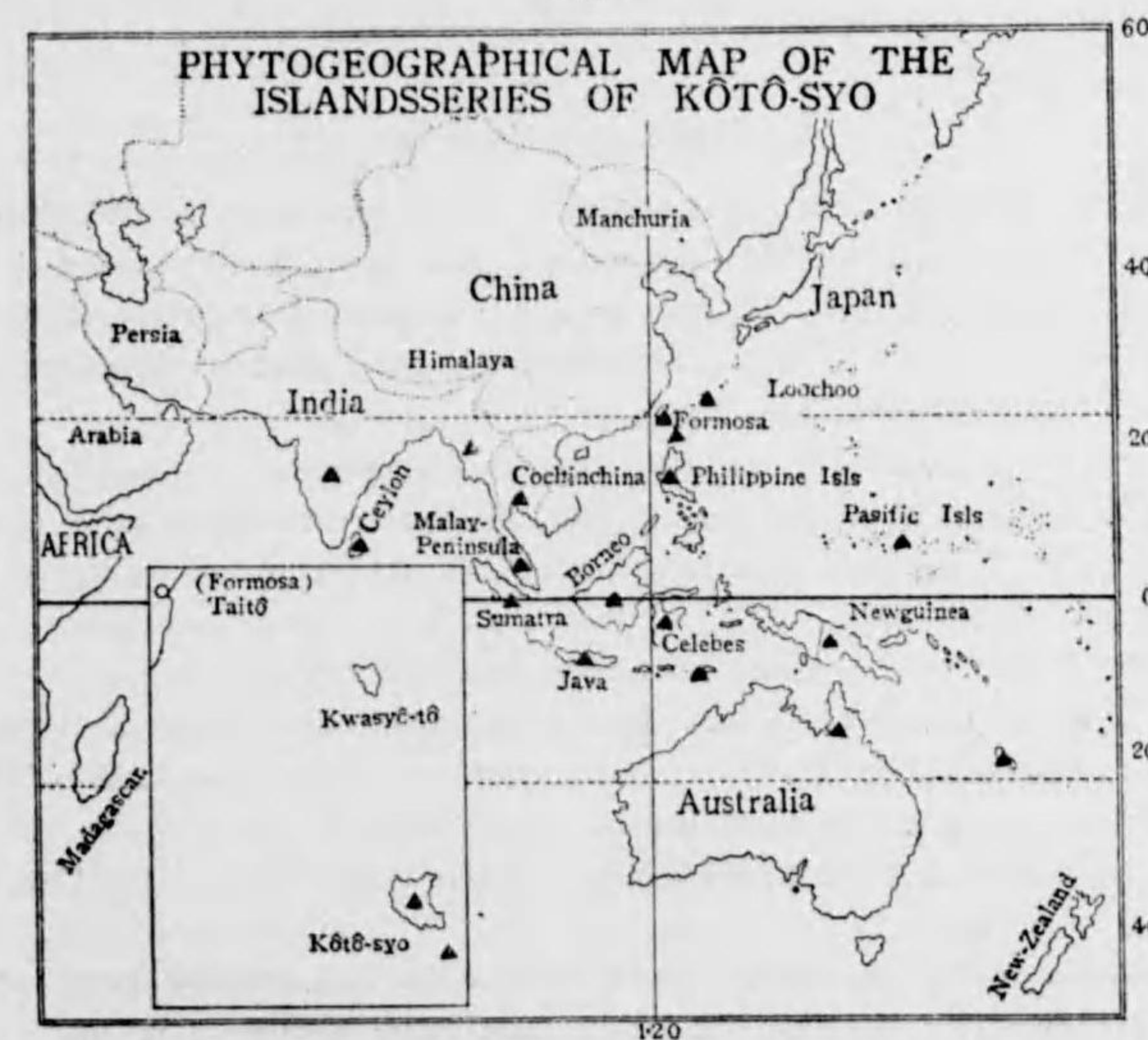
Botryopteris PRESL, Rel. Haenk. 1 (1825) 76.

Ophiala DESV., Prodr. fam. Foug. (1827) 195.

Distrib. Himalaya, Cochinchina, Philippine to Ceylon, New-Caledonia & Queensland.

4. **HELMINTHOSTACHYS ZEYLANICA** HOOK., Gen. Fil. (1840) t. 47; HOOK. et BAKER, Syn. Fil. (1868) 447, t. 9, f. 74; BEDDOME, Fern. South. Ind. 2 ed. (1873) t.

Fig. 4



69; BENTH., Fl. Austr. 7 (1878) 690; CLARKE, Rev. Fern. North. Ind. (1880) 587; BEDD., Handb. Fern. Brit. Ind. (1892) 467, t. 292; RACIB., Pterid. Fl. Buitenz. 1 (1898) 4; BITTER, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 472; YABE, in Bot. Mag. Tokyo, 16 (1902) 52; BAILEY, Queensl. Fl. pt. 6 (1902) 1933; C. CHRIST., Ind. Filic. (1906) 344; MATSUM. et HAY., Enum. Pl. Formos. (1906) 558; ROSENBERG., Malay. Fern. (1908) 777; H. CHRIST., in Nova Guinea, 8 Bot. 1 (1909) 164; COPELAND, in Philip. Journ. Sci. Bot. 4 (1909) 8, pl. 3, et 1. c. 6 (1911) 67; ROSENSTOCK, in Nova Guinea, 8. Bot. 4 (1913) 732; KAWAK. et SASAKI, in Trans.-Nat. Hist. Soc. Formos. 5, no. 22 (1915) ad. 21; ROSENBERG., in Philip. Journ. Sci. Bot. 11 (1916) 117; MAKINO et NEMOTO, Fl. Jap. (1925) 1562, 2 ed. (1931) 4; MERR., Pl. Elm. Born. (1929) 13; SASAKI, in Trans.-Nat. Hist. Soc. Formos. 24 (1934) 421.

Ophioglossum laciniatum RUMPH., Herb. Amb. 6 (1750) 153, t. 68, f. 3.

Osmunda zeylanica LINN., Sp. Pl. (1753) 1063; ROXBURGH, in Calc. Journ. Nat. Hist. 4 (1844) 478.

Botrychium zeylanicum SWARTZ, in Schrad. Journ. 1800 2 (1801) 111.

Helminthostachys dulcis KAULF., Enum. Filic. (1824) 28, t. 1, f. 1; BLUME, Pl. Jav. Fil. 2 (1828) 258; WALL., List (1828) 54; BLANCO, Fl. Filip. ed. 2 (1845) 596.

Botryopteris mexicana PR., Rel. Haenk. 1 (1825) 76, t. 12, f. 1.

Botryopteris crenata PR., Abh. Böhm. Ges. 5. 5 (1845) 324.

Nom. Jap. Miyakozima-hanawarabi.

Hab. Kōtō-syo, Feb. 7, 1920, ibid. May 5, 1924, June 15, 1926, S. Sasaki; Syō-Kōtōsyo, July 1911, S. Sasaki; ibid. June 1926, S. Sasaki!

Distrib. India, Ceylon & other Tropical Continental Asia and Archipelago, New-Caledonia, Northern Australia.

Note: This species grows wet places of the grassland or the shade places in the neuter forests.

Hymenophyllaceae

HYMENOPHYLLACEAE PRESL, Hymenophyll. (1843) 9; METTENIUS, in Abh. Math-Phys. Klasse Königl. Sächs. Gesells. Wiss. 7 (1846) 403; VAN DEN BOSCH, in Nederl. Archief. Kruidk. 3 (1858) 346; BEDD., Handb. Fern. Brit. Ind. (1892) 28; J. SMITH, Fern. (1896) 249; H. CHRIST., Farnkr. (1897) 14; SADEBECK, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 91; ROSENBERG., Malay. Fern. (1908) 65; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 239.

Filices Gyrateae SWARTZ, Syn. Filic. (1806) 3, pro parte.

Polypodiaceae R. BROWN, Prodr. Fl. Nov. Holland. (1810) 145, pro parte; KAULFUSS, Enum. Filic. (1824) 55, pro parte; BARTLING, Ord. Nat. Pl. (1830) 17, pro parte; BLUME, Enum. Pl. Jav. 2 (1830) 99, pro parte.

Filices trib. 5. *Trichomaneae* DUMORTIER, Analyse (1829) 67.

Hymenophylleae BORY, in Dict. Class. 6. Endlicher, Prodr. Fl. Norf. (1833) 16, et Gen. Pl. (1836) 62; MARIUS, Icon. Pl. Crypt. Brasil. (1834) 102; METTENIUS, Filic. Hort. Lips. (1856) 15 & 112; STURM, in Martius Fl. Brasil. 2 (1859) 239-40.

Filices subordo *Polypodiaceae* trib. 10. *Hymenophylleae* MEISSNER, Pl. Vase. Gen. 1 (1836) 435, 2 (1842) 335.

Gleicheniaceae Hymenophylleae BORY, apud Lindley, Nat. Syst. Bot. (1836) 401.

Trichomanoideae MARTENS & GALEOTTI, Mem. Fourg. Mexique (1842) 81.

Filices subordo I. *Hymenophylleae* MILDE, Filic. Europ. & Atl. (1857) 10.

TRICHOMANES, LINN. Sp. Pl. (1753) 1097; HOOK., Gen. Filic. (1840) tab. 31, et Sp. Filic. 1 (1846) 113; BENTH., Fl. Hongk. (1861) 462; BEDD., Fern. South. Ind. (1863) 2; HOOK., Handb. New-Zeal. Fl. (1867) 355; HOOK. et BAK., Syn. Filic. (1867) 71; BAKER, Fl. Maurit. (1877) 463; BENTH., Fl. Austral. 7 (1878) 700; BEDD., Handb. Fern. Brit. Ind. (1892) 36; J. SMITH, Fern. (1896) 252; H. CHRIST., Farnkr. d. Erde (1897) 23; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 104, 108; BAIL., Queensl. Fl. 6 (1902) 1940; ROSENBERG., Malay. Fern. (1908) 82; COPELAND, Trichomanes, in Philip. Journ. Sci. 51 (1933) 119.

Pyxidaria GLEDITSCH, Syst. plant. (1764) 291.

Achomanes NECKER, Element. Bot. 3 (1790) 313.

Feca BORY, Dict. class d' Hist. Nat. 6 (1824) 446.

Didymoglossum DESV., Prodr. (1827) 330.

Hymenostachys BORY, apud Lindley, Nat. Stst. Bot. (1836) 462

Lecanium PRESL, Hymenoph. (1843) 11.

Cardiomanes PRESL, Hymenoph. (1843) 12.

Pachychaetum PRESL, Hymenoph. (1843) 16.

Ragatelus PRESL, Hymenoph. (1843) 16.

Cephalomanes PRESL, Hymenoph. (1843) 17.

Neurophyllum PRESL, Hymenoph. (1843) 18.

Microgonium PRESL, Hymenoph. (1843) 19.

Abrodictyum PRESL, Hymenoph. (1843) 20.

Chilodidium PRESL, Hymenoph. (1843) 23.

Crepidium PRESL, Hymenoph. (1843) 23.

Meringium PRESL, Hymenoph. (1843) 24.

Hemiphlebiium PRESL, Hymenoph. (1843) 25.

Homoeotes PRESL, Abh. Böhm. Ges. Wiss. 5. 5 (1848) 331.

Macroglena PRESL, Abh. Böhm. Ges. Wiss. 5. 5 (1848) 333.

Pseudachomanes PRESL, Epim. Bot. (1849) 16.

Odontomanes PRESL, Epim. Bot. (1849) 20.

Crepidomanes PRESL, Epim. Bot. (1849) 258.

Leucomanes PRESL, Epim. Bot. (1849) 258.

Pleuromanes PRESL, Epim. Bot. (1849) 258.

Taschneria PRESL, Epim. Bot. (1849) 258.

Neuromanes TREV., Atti Istituto Veneto 2. 2 (1851) 163.

Bergera SCHAFFNER, F&E, 9 mem. (1857) 30.

Gonocormus BOSCH, Hymenoph. Jav. (1861) 7.

Craspedoneuron BOSCH, Hymenoph. Jav. (1861) 12, t. 10.

Lacostea BOSCH, Versl. Akad. Wet. Amsterd. 11 (1861) 320.

Maschalosorus BOSCH, Versl. Akad. Wet. Amsterd. 11 (1861) 320.

Phlebophyllum BOSCH, V. A. W. Amsterd. 11 (1861) 321.

Ptilophyllum BOSCH, V. A. W. Amsterd. 11 (1861) 321.

Davalliopsis BOSCH, Versl. Akad. Wet. Amsterd. 11 (1861) 323.

- Mulleria* SCHAFFNER, Fourn. Mex. (1872) pl. 1, 59.
Acarpacrium PRANTL, Hymenoph. (1875) 48.
Trigonophyllum PRANTL, Hymenoph. (1875) 48.
Microtrichomanes METT., Prantl, Hymenoph. (1875) 51.
Leptomanes PRANTL, Hymenoph. (1875) 52.
Lacosteopsis PRANTL, Hymenoph. (1875) 53.
Selenodesmium PRANTL, Hymenoph. (1875) 53.
Holophlebium CHRIST, Farnkr. d. Erde (1897) 27.

Distrib. Tropical region of all the Both Hemispheres.

5. *TRICHOMANES ASPLENIOIDES* PRESL, Hymen. (1843) 129; KUNZE,

Farnkr. (1843) 218, pl. 89; COPEL., Trichom. in Philip. Journ. Sci. 51 (1933) 249.

Trichomanes javanicum (non BLUME) YABE, in Bot. Mag. Tokyo, 16 (1902) 47, et 1. c. 19 (1935) 34; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 565; H. CHRIST, in Nova Guinea, 8 Bot. 1 (1909) 164, et ROSENSTOCK, l. c. 8 (1913) 717; MAKINO et NEMOTO, Fl. Jap. (1925) 1677; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 258; SASAKI, Cat. Govt. Herb. (1930) 4; MAKINO et NEMOTO, Fl. Jap. 2 ed (1931) 9; KANEHIRA, Fl. Micron. (1933) 391; OGATA, Icon. Filic. Jap. 6 (1935) 297.

Nom. Jap. Sotetu-horagoke, Kuzyaku-horagoke.

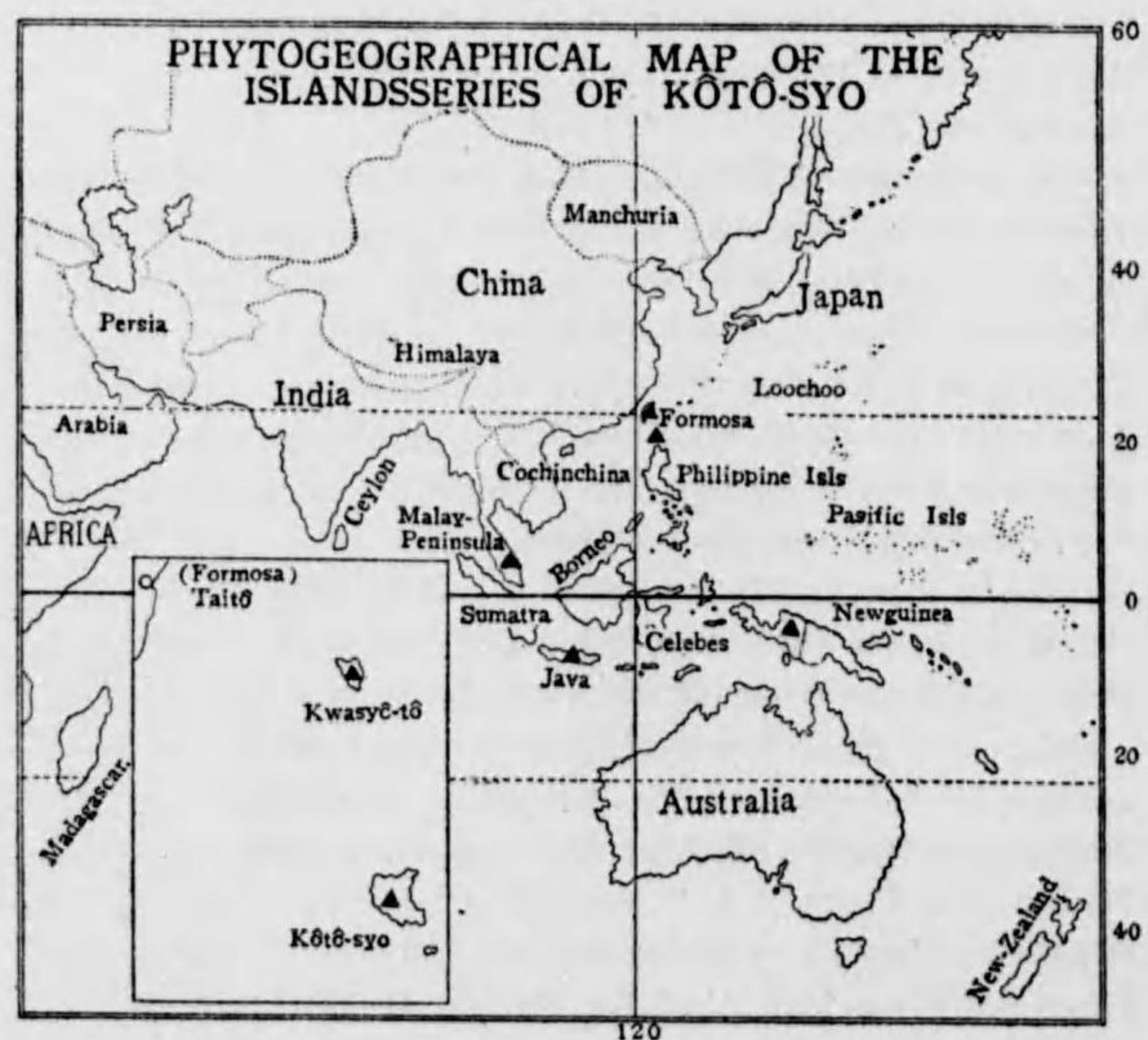
Hab. Kōtō-syo, Nov. 24, 1899, K. Miyake; ibid. July 1912, T. Kawakami et S. Sasaki;

Kwasyō-tō, June 2, 1919, S. Sasaki, June 15, 1925, ibid. Oct. 28, 1934, S. Sasaki.

Distrib. Formosa, Malay, Polynesia.

Note: This species grows wet or shade places in the neuter forests.

Fig. 5



6. *TRICHOMANES AURICULATUM* BLUME, Enum. Pl. Jav. et Insul. 2 (1828) 225; HOOK., Sp. Filic. 1 (1846) 133; BOSCH., in Miq. Pl. Junghun. 1 (1856) 553; HOOK. et BAKER, Syn. Filic. (1867) 82; FRANCIS. et SAVAT., Enum. Pl. Jap. 2 (1876) 208; BAKER, in Journ. Bot. 28 (1890) 262; BEDD., Handb. Fern. Brit. Ind. (1892) 44; H. CHRIST, Farnkr. d. Erd. (1897) 29; RACIB., Pter. Fl. Buitenz. 1 (1898) 26; MAKINO, in Bot. Mag. Tokyo, 12 (1898) 193; H. CHRIST., in Warburg, Monsunia 1 (1900) 55; YABE, in Bot. Mag. Tokyo, 19 (1905) 33; C. CHRIST., Ind. Filic. (1906) 635; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 364; ROSENB., Malay. Fern. (1908) 96; KAWAKAMI et SASAKI, l. c. 21; MAKINO et NEMOTO, l. c. 1676; MAK. et NEM., l. c. 2 ed. (1931) 8; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 263; OGATA, Icon. Filic. Jap. 4 (1931) 198; COPEL., in Philip. Journ. Sci. 51 (1933) 223.

Trichomanes Belangeri BORY, Bel. Voy. Bot. 2 (1833) 79, t. 8, f. 1.

Trichomanes dissectum SMITH, in Journ. Bot. 3 (1841) 417; HOOK., Sp. Filic. 1 (1846) 140; BEDD., Fern. Brit. Ind. 2 (1868) 182, t. 182.

Trichomanes dimidiatum PR., Hym. 15 (1843) 38.

Cephalomanes auriculatum BOSCH, Ned. Kr. Arch. 4 (1859) 352 et Hymen. Jav. (1861) t. 25.

Lacosteia auriculata PRANTL, Hymenophyl. (1875) 50.

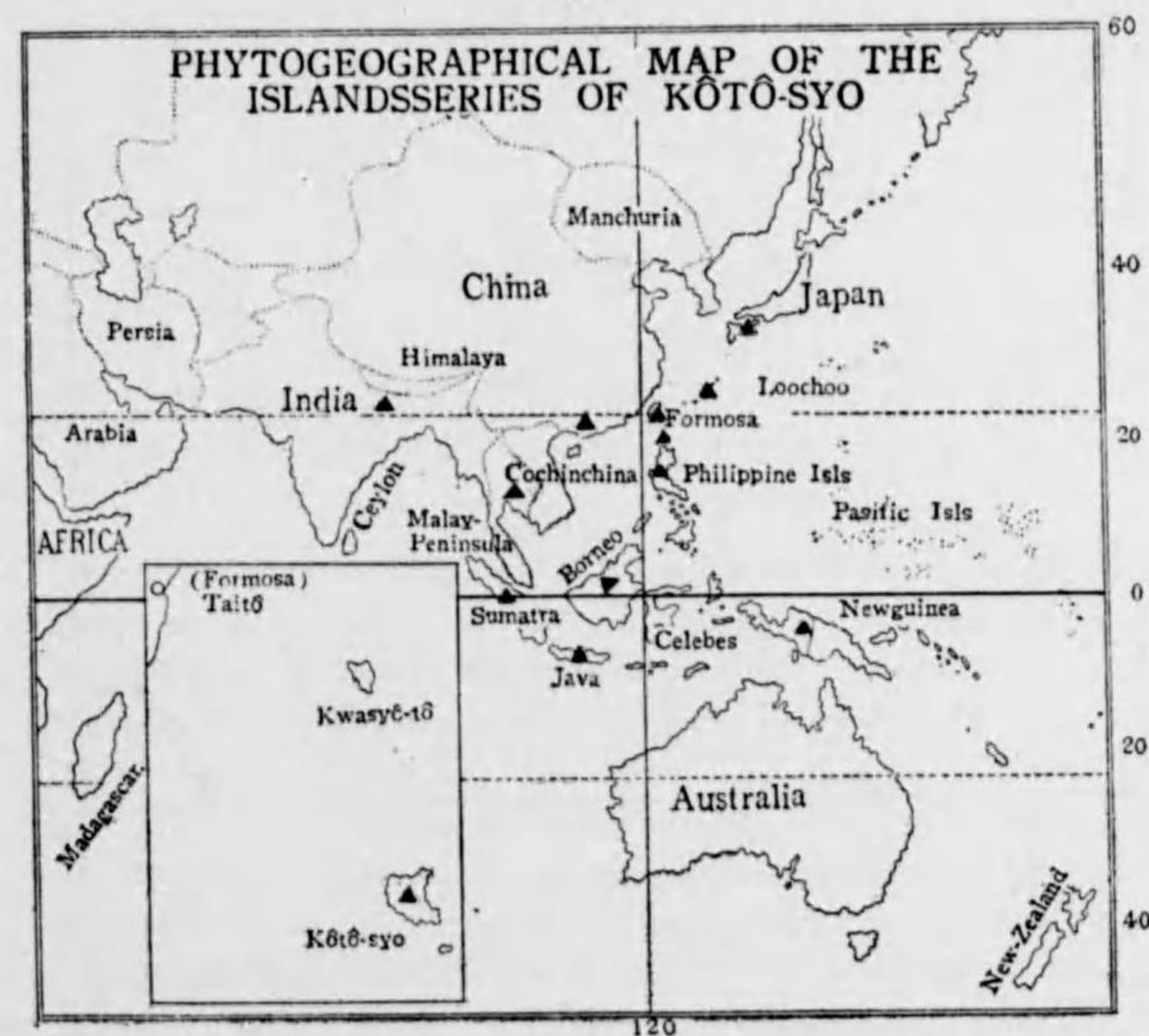
Nom. Jap. Turu-horagoke.

Hab. Kōtō-syo, June 3, 1926, S. Sasaki!

Distrib. Japan, Loochoo, Formosa, North India, Tropical Asia and China, Philippines, Malay Archipelago.

Note: This stems climbing other broad leaved trees or creeping on the ground in the shade neuter forests.

Fig. 6



7. *TRICHOMANES BAUERIANUM* ENDLICHER, Prodr. Fl. Norf. (1833)

17; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 107; ROSENB., Malay. Fern. (1908) 104; OGATA, Icon. Fil. Jap. 6 (1935) 294, et in Journ. Jap. Bot. 11 (1935) 36.

Trichomanes millefolium PRESL, Hymen. (1843) 135?; v. D. BOSCH, Hymen. Jav. (1861) 27, pl. 20; non DESV. (1827).

Trichomanes anceps var. β . HOOK., Sp. Fil. 1 (1846) 135, pl. 40 C, fig. 3.

Trichomanes elatum v. D. BOSCH, Ned. Kruid. Arch. 5 (1861) 177, non FORSTER (1786).

Trichomanes grande COPELAND, in Philip. Journ. Sci. Bot. 6 (1911) 70; ROSENB., Mal. Fern & Fern All. Suppl. 1 (1916) 104; COPEL., ibid. 51 (1933) 224; SASAKI, in Trans. Nat. Hist. Soc. Formos. 26 (1936) 128.

Trichomanes maximum (non BLUME) HAYAT., Ic. Pl. Formos. 4 (1914) 138; KAWAK. et SASAKI, l. c. 22; MAKINO et NEMO., Fl. Jap. (1925) 1678, et 2 ed. (1931) 9; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 267; SASAKI, Cat. Govt. Herb. (1931) 4, pro parte.

Trichomanes japonicum var. *formosanum* CHRIST; KAWAK. et SASAKI, l. c. 22.

Trichomanes Preslianum NAKAI, in Bot. Mag. Tokyo, 40 (1926) 261.

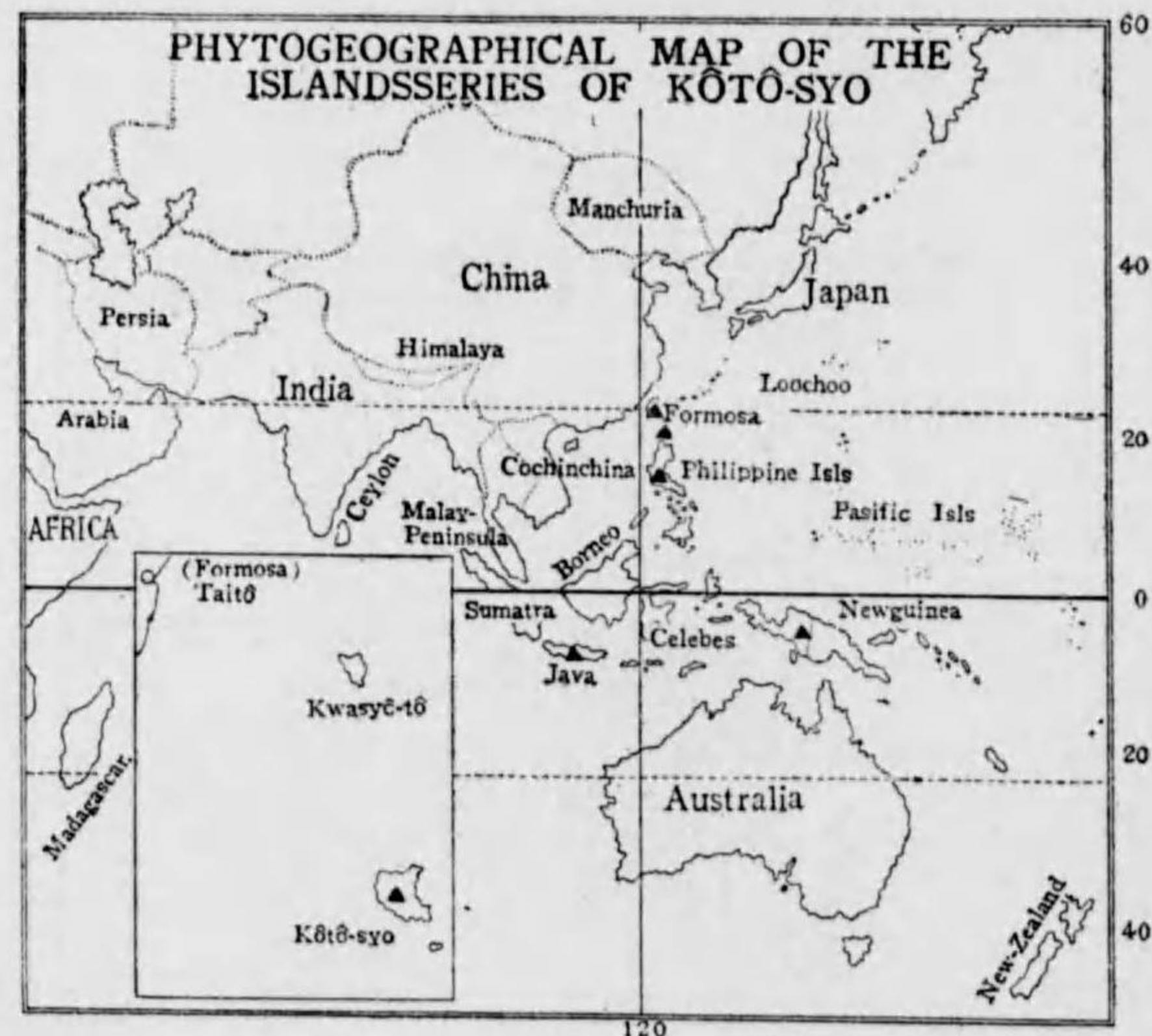
Nom. Jap. Seriba-horagoke, Sinobu-horagoke, Kikumoba-horagoke.

Hab. Kōtō-syo, Nov. 22, 1899, K. Miyake; ibid. July 1912, T. Kawakami et S. Sasaki!

Distrib. Formosa, Philippine, Java and New-Guinea.

Note: This species grows shade places in the neuter forests.

Fig. 7

8. *TRICHOMANES BECCARIANUM* CESATI, Atti Acad. Napol. 7-8

(1876) 8, t. 1, f. 2; ROSENB., Malay. Fern. (1908) 86; COPEL., Trichomanes, in Philip. Journ. Sci. 51 (1933) 200.

Trichomanes Molleyi (non v. D. BOSCH) YABE, in Bot. Mag. Tokyo, 16 (1902) 46, et ibid. 19 (1905) 31; MATSUM. et HAY., Enum. Pl. Formos. (1906) 566; MAKINO et NEMOTO, Fl. Jap. (1925) 1678, NAKAI, in Bot. Mag. Tokyo, 40 (1926) 252; SASAKI, Cat. Govt. Herb. (1930) 4; MAK. et NEMO., l. c. 2 ed. (1931) 10.

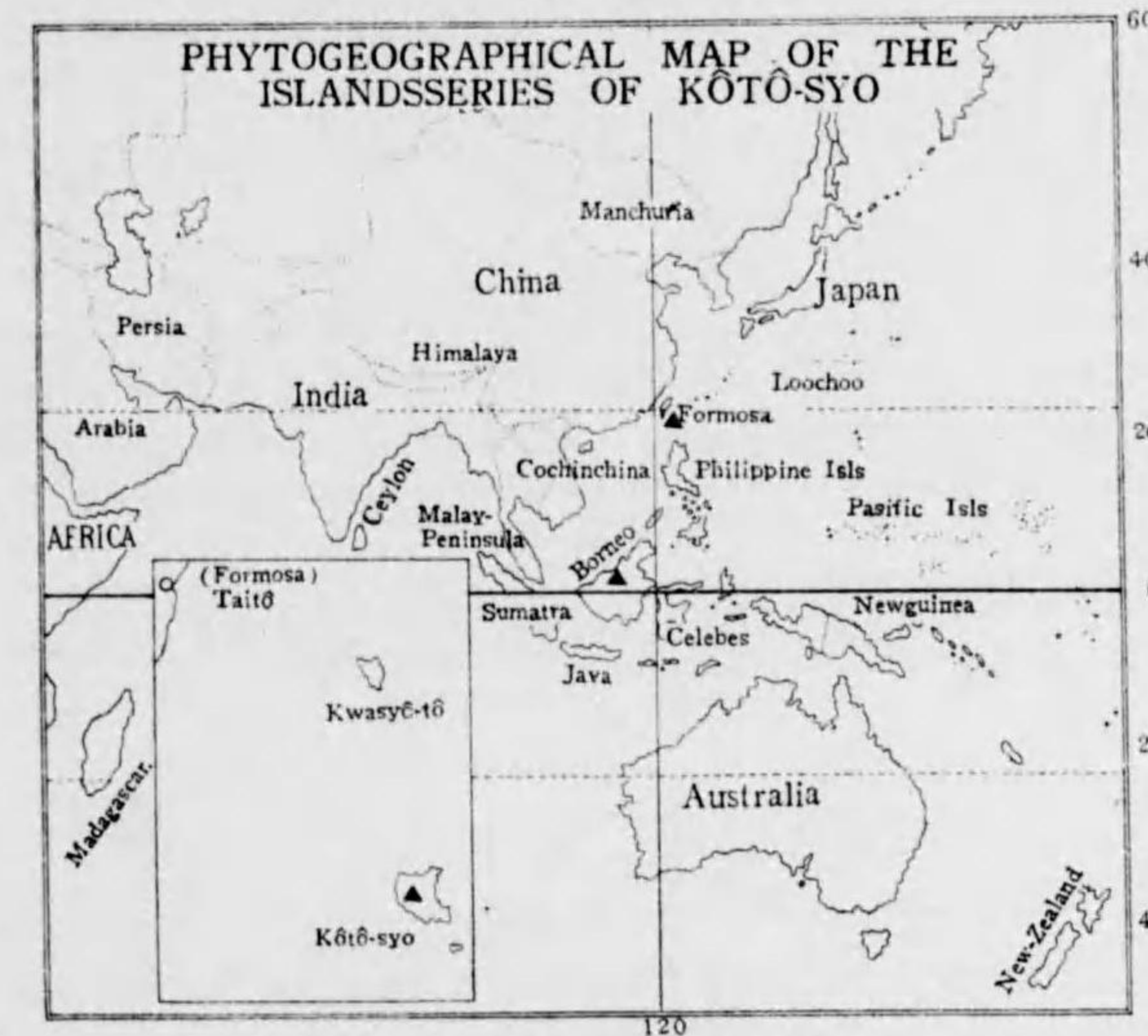
Nom. Jap. Mame-kokesida.

Hab. Kōtō-syo, Nov. 21, 1899, K. Miyake!

Distrib. Malay and Malay Archipelago.

Note: This species creeping on the trees or the ground in the shade places of the neuter forests.

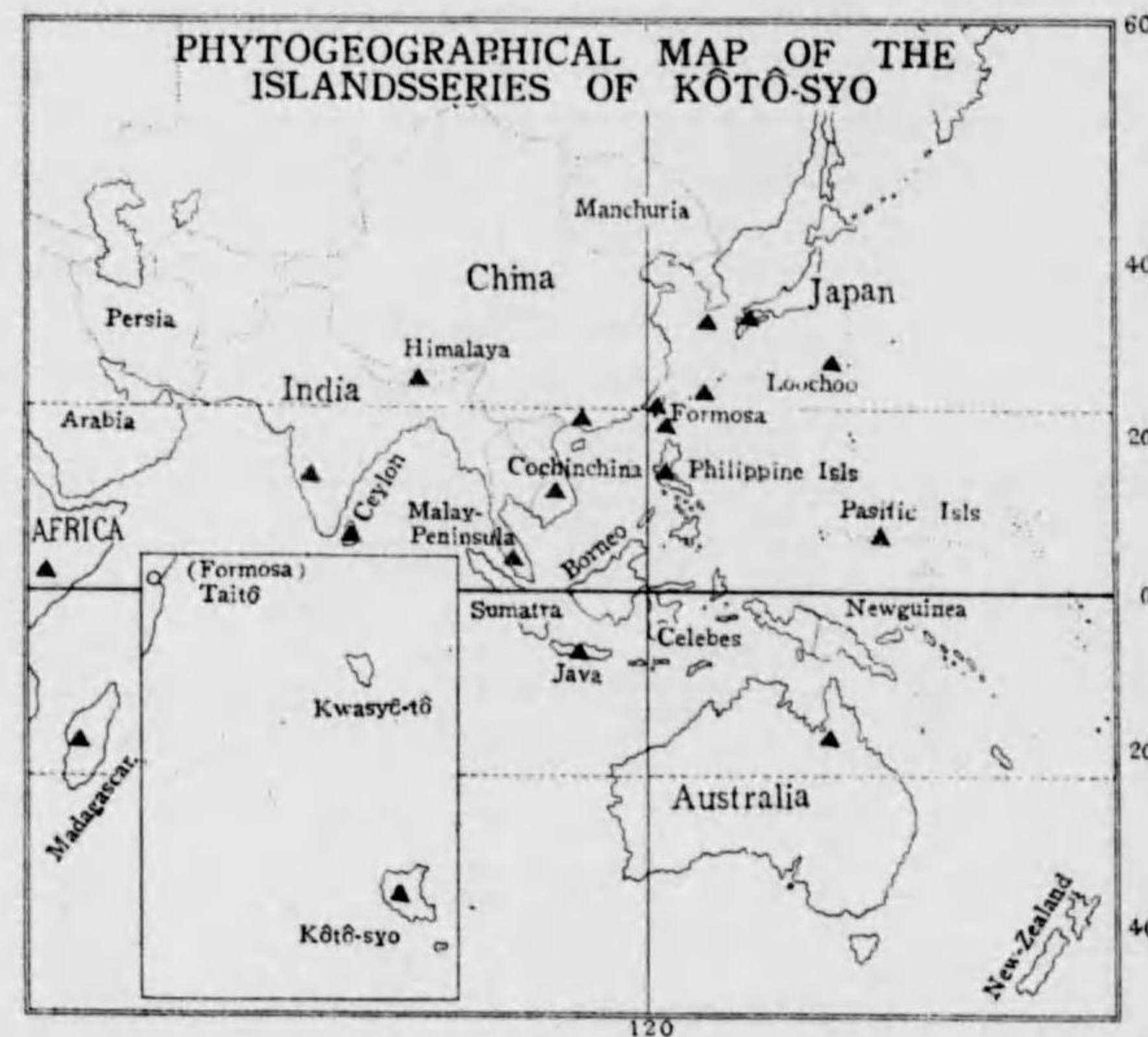
Fig. 8

9. *TRICHOMANES BIPUNCTATUM* POIR., in Encycl. Meth. Bot. 8

(1808) 69; BAKER, Fl. Mourit. (1877) 465; CLARKE, Rev. Fern. North. Ind. (1880) 440; BEDD., Fern. Brit. Ind. (1892) 41; H. CHRIST, Famkr. d. Erd. (1897) 32; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 105; H. CHRIST, in Warburg, Monsunia 1 (1900) 55; YABE, in Bot. Mag. Tokyo, 16 (1902) 33; C. CHRIST., Ind. Fil. (1906) 636; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 564; ROSENB., Malay. Fern. (1908) 95; HAYAT., Ic. Pl. Formos. 4 (1914) 137; NAKAI, in Bot. Mag. Tokyo, 28 (1914) 66; KAWAK. et SASAKI, l. c. 21; MORI, Enum. Pl. Cor. (1922) 2; MAK. et NEMO., Fl. Jap. (1925) 1676; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 254; OGATA, Icon. Filic. Jap. 1 (1928) 45; MAK. et NEMOTO, Fl. Jap. 2 ed. (1931) 8; COPEL., in Philip. Journ. Sci. 51 (1933) 177; MASAM., Fl. Geob. Stud. Yak. (1934) 40.

- Hymenophyllum alatum* (non Sw.) SCHKUH. Kr. Gew. 1 (1809) 133 t. 135 b.
Hymenophyllum Filicula BORY, in Willd., Sp. Pl. 5 (1810) 528.
Trichomanes striatum DON, Prod. Fl. Nepal. (1825) 11.
Didymoglossum decipiens DESV., Prod. (1827) 330, t. 7, f. 3.
Didymoglossum filicula DESV., Prod. Fam. Foug. (1827) 331; PRESL, Hymenophyl. (1845) 25, t. 8; BOSCH, Hymenophyl. Jav. (1861) 35, t. 26.
Hymenophyllum densum WALL. List (1828) n. 171.
Trichomanes filicula BORY, in Duperré, Voy. 1 (1828) 283; HOOK., Sp. Fil. 1 (1846) 124; KUNZE, in Bot. Zeit. 6 (1848) 587; HOOK. et BAKER, Syn. Fil. (1867) 81; BEDD., Fern. Brit. Ind. 2 (1868) 283, t. 283; CARRUTH., in Seemann, Enum. Fern. Fiji (1873) 344; FRANCH.

Fig. 9



et SAVAT., Enum. Pl. Jap. 2 (1876) pl. 1, 207; BAKER, in Journ. Bot. 23 (1885) 103; RACIB., Pter. Fl. Buitenz. (1898) 28; YABE, in Bot. Mag. Tokyo, 16 (1902) 47; BAIL., Queensl. Fl. 6 (1902) 1943.

- Didymoglossum alatum* PRESL, Hymenophyl. (1843) 23.
Didymoglossum undulatum PRESL, Hymenophyl. (1843) 23, 48.
Didymoglossum capillatum PRESL, Hymenophyl. (1843) 65; BOSCH, Hymenophyl. Jav. (1861) 38, t. 28.
Taschneria filicula PRESL, Epim. Bot. (1849) 258.
Didymoglossum racemosum BOSCH, Ned. Kr. Arch. 5-3 (1863) 137.
Didymoglossum plicatum BOSCH, Ned. Kr. Arch. 5-3 (1863) 139.
Didymoglossum anomalum BOSCH, Ned. Kr. Arch. 5-3 (1863) 140.
Didymoglossum Griffithii BOSCH, Ned. Kr. Arch. 5-3 (1863) 141.
Didymoglossum euphlebiu BOSCH, Ned. Kr. Arch. 5-3 (1863) 142.

- Didymoglossum insigne* BOSCH, Ned. Kr. Arch. 5-3 (1863) 143.
Didymoglossum dilatatum BOSCH, Ned. Kr. Arch. 5-3 (1863) 144.
Trichomanes latifrons BOSCH, Ned. Kr. Arch. 5-3 (1863) 209.
Trichomanes insigne BEDD., Fern. Brit. Ind. (1868) t. 284.
Trichomanes plicatum BEDD., Fern. Brit. Ind. (1868) t. 285.
Trichomanes dilatatum KUHN, Fil. Afr. (1868) 33.
Trichomanes punctatum (non POIR.) CHRIST, in Bot. Jahrb. 23 (1896) 336.
Trichomanes latealatum CHRIST, Verh. Nat. Ges. Basel. 11 (1896) 424.
Trichomanes acuto-obtusum HAY., Ic. Pl. Formos. 4 (1914) 135, f. 72.

Nom. Jap. Awo-horagoke.

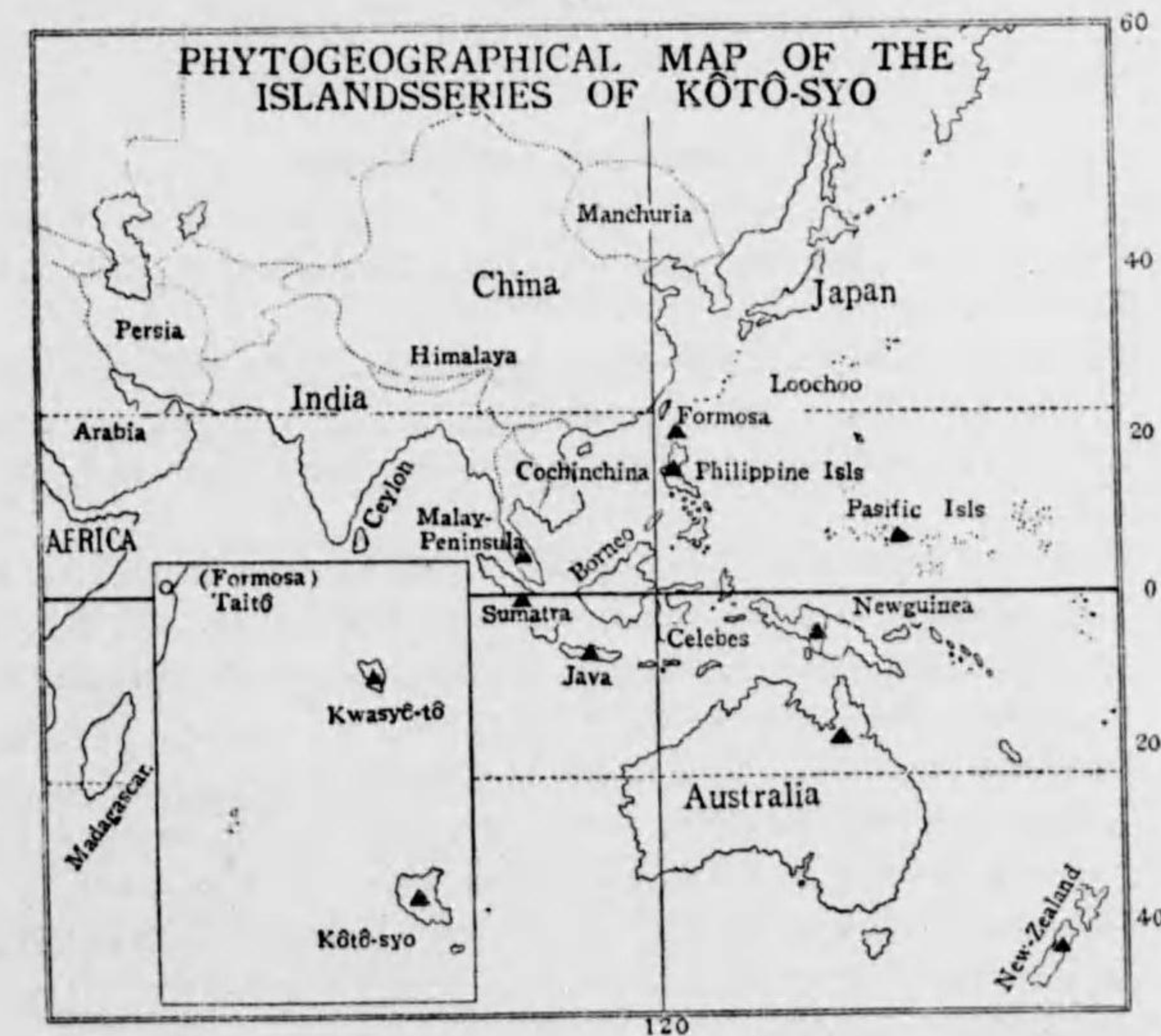
Hab. Kōtō-syo, July 13, 1912, S. Sasaki; ibid June 3, 1926, et Nov. 21, 1934, S. Sasaki!

Distrib. Japan, Quelpaert, Bonin, Loochoo, Formosa, Polynesia, Asia tropics, Australia, East & South Africa.

Note: This species grows on the barks of trees and wet places in the shade places of the neuter forests.

10. *TRICHOMANES HUMILE* FORST., Flor. Ins. Austr. Prodr. (1786) 84; SWARTZ, Syn. Filic. (1806) 143; WILLD., Sp. Pl. 5. pars 1 (1810) 507; HOOK. et GREV., Icon. Filic. (1828) t. 85; HOOK. et ARN., Bot. Capt. Beech. Voy. (1830-41) 75; HOOK., Sp. Filic. 1 (1846) 123; HOOK. et BAKER, Syn. Filic. (1867) 80; CARR., in Seem. Fl. Vit. (1873) 343; H. CHRIST, in Engl. Bot. Jahrb. 23 (1896) 336; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 105;

Fig. 10



YABE, in Bot. Mag. Tokyo, 16 (1902) 47; MATSUM. et HAY., Enum. Pl. Formos. (1906) 565; C. CHRIST., Ind. Filic. (1906) 642; ROSENB., Malay. Fern. (1908) 94; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 72; HAYATA, Icon. Pl. Formos. 4 (1914) 138; KAWAKAMI et SASAKI, l. c. 22; ROSENB., Malay. Fern. & Fern. All. Suppl. 1 (1916) 103; MAKINO et NEMOTO, Fl. Jap. (1925) 1677, et 2 ed. (1931) 9; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 257; COPEL., in Philip. Journ. Sci. 51 (1933) 164; OGATA, Icon. Filic. Jap. 6 (1935) 296.

Trichomanes minutulum GAUD., Freyc. Voy. Bot. (1827) 377, t. 12, f. 2.

Didymoglossum humile PRESL, Hymenophyl. (1843) 23.

Didymoglossum minutulum PRESL, Hymenophyl. (1843) 23.

Trichomanes luzonicum PRESL, Hymenophyl. (1843) 134.

Trichomanes Endlicherianum PRESL, Abh. Böhm. Ges. 5. 5 (1848) 333, et Epimel. Bot. (1849) 10, t. 5 A.

Trichomanes erectum BRACK., Expl. Exp. 16 (1854) 250, t. 56, f. 1.

Trichomanes aureum BOSCH, Ned. Kr. Arch. 5. 3 (1863) 208.

Trichomanes concinnum METTEN., Linnaea 35 (1868) 385.

Trichomanes filiculoides CHRIST, in Schum. & Laut. Fl. Deut. Schutzgeb. (1901) 108.

Trichomanes Lauterbackii CHRIST, in Schum. & Laut. Fl. Deut. Schutzgeb. (1901) 108.

Nom. Jap. Hime-horagoke.

Hab. Kôto-syo, July 1912, ibid. June 15, 1926, Sept. 21, 1933, et Nov. 21, 1934 S. Sasaki; Kwasyô-tô, July 1915, T. Sôma, Aug. 2, 1925. S. Sasaki; June 3, 1929. S. Sasaki; May 3, 1927. S. Sasaki; Apr. 17, 1934. S. Sasaki.

Distrib. Java, New-Guinea, Philippine, Polynesia, Australia, New-Zealand.

Note: This species grows moist places in the nuter forests.

11. TRICHOMANES LATEMARGINALE EATON, in Perry, Narrat.

Exped. Chin. & Jap. 2 (1856) 31, et Proc. Am. Acad. 4 (1858) 111; HOOK. et BAKER, Syn. Filic. (1867) 79; C. CHRIST., Ind. Fil. (1906) 643; COPEL., Trichomanes, in Philip. Journ. Sci. 51 (1933) 189.

Trichomanes nanum (non HOOK.) v. D. BOSCH, Ned. Kruid. Arch. 5. 2 (1863) 206; HOOK. et BAK., Syn. Fil. (1867) 77; YABE, in Bot. Mag. Tokyo, 16 (1902) 46, et l. c. 19 (1905) 33; MATS. et HAYAT., Enum. Pl. Formos. (1906) 566; ROSENB., Malay. Fern. (1908) 89; KAWAK. et SASAKI, l. c. 22.

Trichomanes Kurzii BEDD., Fern. Brit. Ind. 2 (1868) t. 286, et Handb. Fern. Brit. Ind. (1892) 40; BAIL., Queensl. Fl. 6 (1902) 1942; C. CHRIST., Ind. Filic. (1906) 643; MAK. et NEM., Fl. Jap. (1925) 1677, et 2 ed. (1931) 9; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 239.

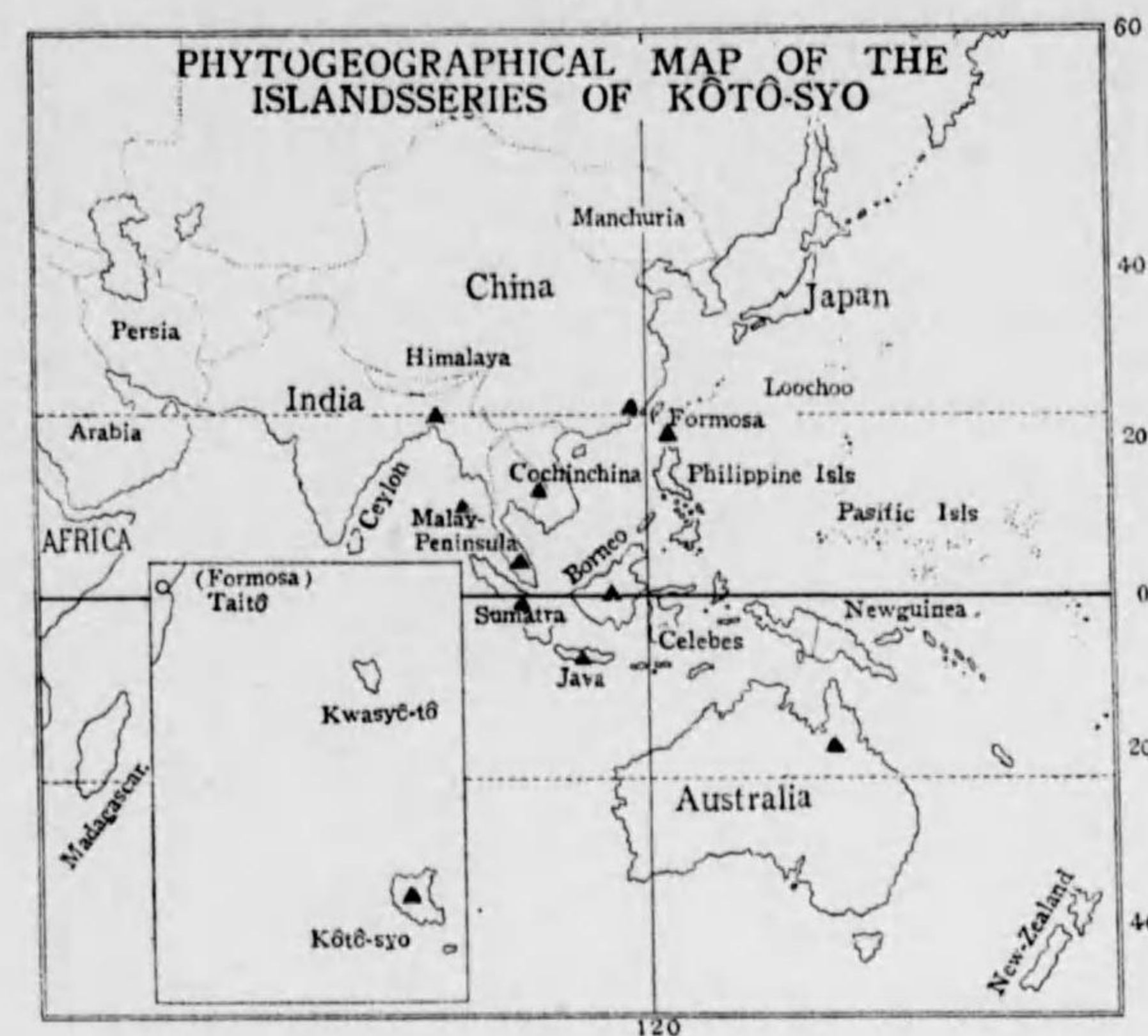
Trichomanes viridans METT., Linn. 35 (1868) 389.

Trichomanes formosanum YABE, in Bot. Mag. Tokyo, 16 (1902) 46, et l. c. 19 (1905) 31, f. 1-4; C. CHRIST., Ind. Fil. (1906) 640; KAWAK. et SASAKI, l. c. 21; MAKINO et NEM., Fl. Jap. (1925) 1677, et 2 ed. (1931) 9; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 239.

Trichomanes palmifolium HAY., Ic. Pl. Formos. 4 (1914) 138, f. 78, et l. c. 5 (1915) 260.

Nom. Jap. Matuba-kokesinobu.

Fig. 11



Hab. Kôto-syo, Nov. 1899, K. Miyake.

Distrib. Hongkong, Asia tropics, Queensland.

Note: This species grows shade and moist places in the neuter forests.

12. TRICHOMANES MAXIMUM BLUME, Enum. Pl. Jav. 2 (1828) 228,

excl.; HOOK., Sp. Fil. 1 (1846) 137; KUNZE, Bot. Zeit. 5 (1847) 418, et l. c. 6 (1848) 304; BOSCH, in Miquel, Pl. Junghuh. 1 (1856) 554, in Nedl. Kruidk. Arch. 4 (1859) 376, et Hymenophyl. Jav. (1861) 25, t. 18; HOOK. et BAK., Syn. Filic. (1867) 86; RACIB., l. c. 29; C. CHRIST., Ind. Fil. (1906) 644; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 143; ROSENB., Malay. Fern. (1908) 99; H. CHRIST, in Nova Guinea, 8 Bot. 1 (1909) 164, et ROSENSTOCK, in l. c. (1913) 718; RIDLEY, Fl. Low. Siam (1911) 231; COPEL., in Philip. Journ. Sci. 51 (1933) 217; SASAKI, in Trans. Nat. Hist. Soc. Formos. 26 (1936) 129.

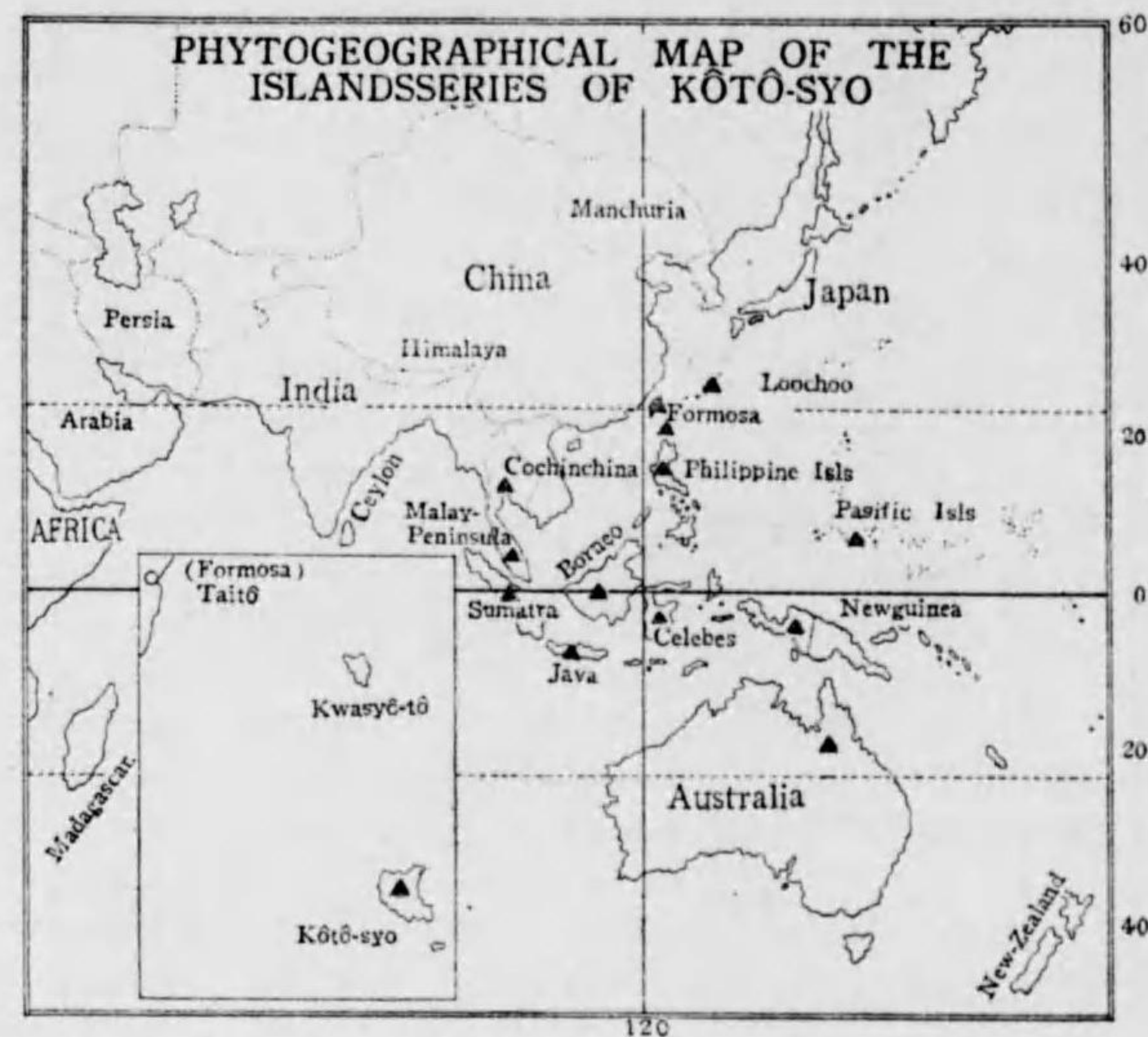
Nom. Jap. Taiwan-ôhoragoke.

Hab. Kôto-syo, June 1911, T. Kawakami et S. Sasaki

Distrib. Malaya, Siam, Formosa, Polynesia, Queensland.

Note: This species grows shade & moist places in the neuter forests.

Fig. 12

13. *TRICHOMANES PARVULUM* POIRET, in Lamarck Encycl. Meth.

Bot. 8 (1808) 64; HOOK., Sp. Filic. 1 (1846) 118, t. 39. A.; BENTH., Fl. Hongk. (1861) 462; MIQUEL, in Ann. Mus. Lugd. Batav. 3 (1867) 183; HOOK. et BAKER, Syn. Filic. (1867) 75; BEDD., Fern. South. Ind. (1873) t. 179; FRANCH. et SAVAT., Enum. Pl. Japon. 2. 1 (1876) 207; BENTH., Fl. Austral. 7 (1878) 701; BAKER, in Journ. Bot. 13 (1885) 103; BEDD., Handb. Fern. Brit. Ind. (1892) 39; MAKINO, in Bot. Mag. Tokyo, 12 (1898) 193; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 105; MAKINO, Phanerog. et Pterid. Jap. Illustr. 1 (1899) pt. 3, pl. 14; H. CHRIST, in Warburg, Monsunia 1 (1900) 55; YABE, in Bot. Mag. Tokyo, 16 (1902) 46; BAIL., Queensl. Fl. 6 (1902) 1941; YABE, in Bot. Mag. Tokyo, 19 (1905) 33; H. CHRIST, in Philip. Journ. Sci. Bot. 2 (1907) 156; ROSENB., Malay. Fern. (1908) 88; NAKAI, in Bot. Mag. Tokyo, 28 (1914) 66; MAKINO et NEMOTO, Fl. Jap. (1925) 1679, et 2 ed. (1931) 10; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 262; OGATA, Ic. Fil. Jap. 4 (1931) 199; COPEL., in Philip. Journ. Sci. 51 (1933) 145.

Trichomanes saxifragoides PRESL., Hymenophyl. (1843) 16 et 39.

Trichomanes Thouarsianum PRESL., l. c. 16, 40.

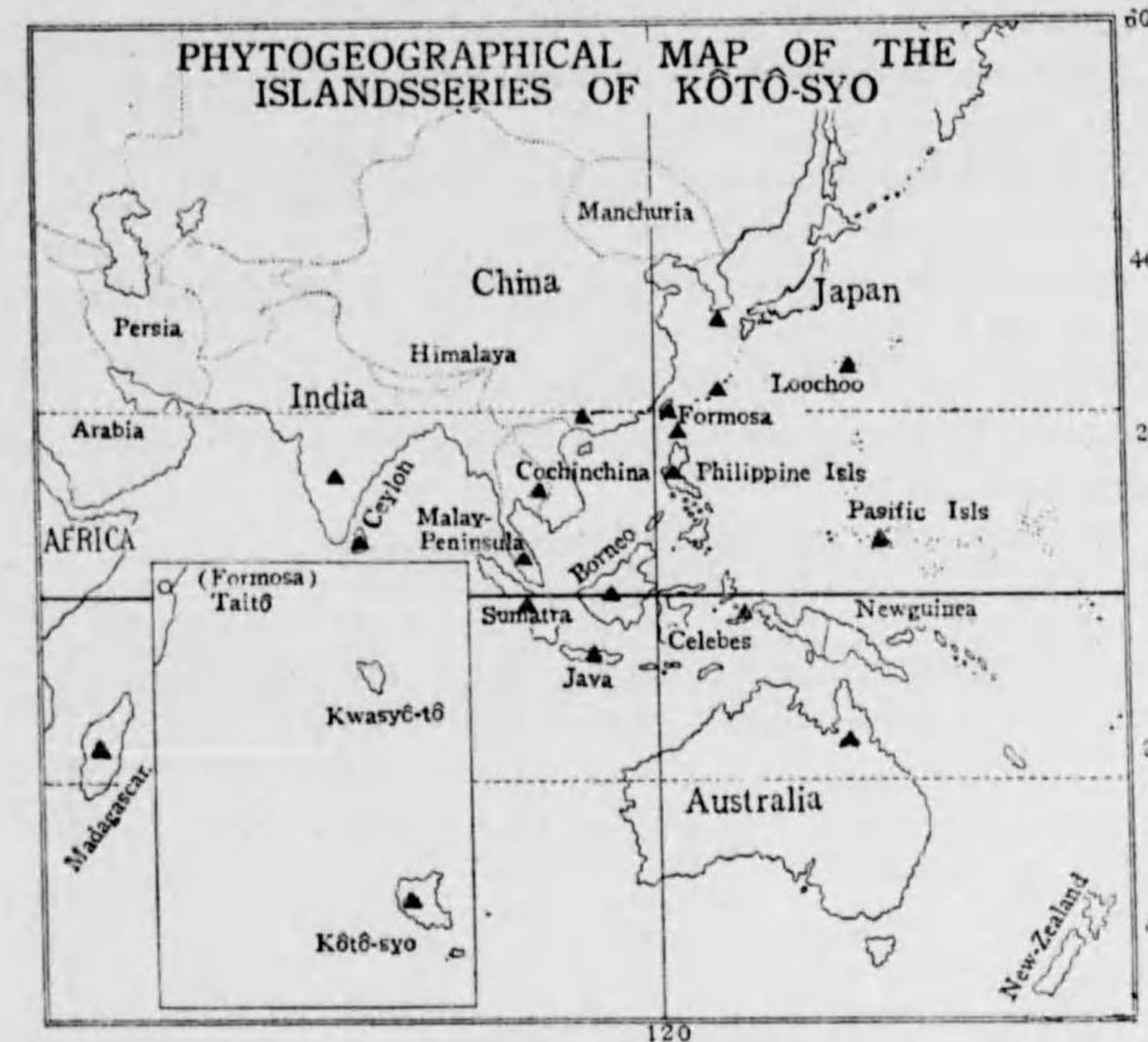
Trichomanes subpinnatifidum v. D. BOSCH, Ned. Kr. Arch. 5-2 (1861) 141, Journ. Bot. Neerl. 1 (1861) 345; MEDED., Rijks Herb. 17 (1913) 25, f. 14.

Trichomanes Mannii HOOK., in Hook. et Baker, Syn. Fil. (1867) 75.

Trichomanes musolense BRAUSE, Bot. Jahrb. 53 (1915) 377.

Nom. Jap. Maruba-horagoke, Utiwa-goke.

Fig. 13



Hab. Kōtō-syo, June 15, 1926, et Sept. 21, 1933, S. Sasaki!

Distrib. Japan, Korea, Quelpaert, Bonin, Loochoo, Formosa, China, Malacca, Java, Ceylon, Philippine, Polynesia, Madagascar.

Note: This species grows on the lands and the trees barks in the neuter forests.

14. *TRICHOMANES RADICANS* Sw., Schrad. Journ. 1800 2 (1801)

97, Fl. Ind. Occ. 3. (1806) 1736; WILLD., Sp. Pl. 5 (1810) 513; HOOK., Sp. Fil. 1 (1846) 125; HOOK. et BAK., Syn. Fil. (1867) 81; BEDD., Fern. Brit. Ind. 2 (1868) pl. 181, FRANCH. et SAVAT., Enum. Pl. Jap. 2. (1876) 207; BEDD., Handb. Brit. Ind. (1892) 43; C. CHRIST., Ind. Fil. (1906) 648; MATSUM. et HAYATA, Enum. Pl. Formos. (1906) 567; COPEL., Trichom. in Philip. Journ. Sci. 51 (1933) 213.

Trichomanes speciosum WILLD., Sp. Pl. 5 (1810) 514; H. CHRIST, Farnkr. d. Erde. (1897) 30; ROSENB., Malay. Fern. (1908) 99.

Trichomanes birmanicum BEDD., Fern. Brit. Ind. Suppl. 3 (1876) pl. 349.

Trichomanes japonicum FR. et SAV., Enum. Pl. Jap. 2 (1876) 207, 618; MAKINO, in Bot. Mag. Tokyo, 12 (1898) 193, et Phanerog. Pterid. Illustr. 1 pt. 5 (1899) pl. 21; YABE, in Bot. Mag. Tokyo, 19 (1905) 33; MATSUM. et HAYATA, Enum. Pl. Formos. (1906) 565.

Trichomanes naseanum CHRIST, Soc. Bot. Fr. Mem. 1 (1905) 11; MATSUM., in Bot. Mag. Tokyo, 24 (1910) 239; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 267; OGATA, Ic. Fil. Jap. 1 (1928) 46; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 10.

Trichomanes liukiense YABE, in Bot. Mag. Tokyo, 19 (1905) 35.

Trichomanes orientalis CHRIST., Ind. Fil. (1906) 646; HAYATA, Ic. Pl. Formos. 4 (1914)

138; NAKAI, in Bot. Mag. Tokyo, 40 (1926) 268; OGATA, Ic. Fil. Jap. 1 (1928) 47; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 10.

Trichomanes japonicum var. *formosanum* CHRIST, ex Matsum., in Bot. Mag. Tokyo, 24 (1910) 239; KAWAK. et SASAKI, l. c. 22.

Trichomanes amabile NAKAI, in Bot. Mag. Tokyo, 28 (1914) 65.

Trichomanes quelpaertense NAKAI, l. c. 66.

Trichomanes kalamocarpum HAY., Ic. Pl. Formos. 5 (1915) 260, f. 93.

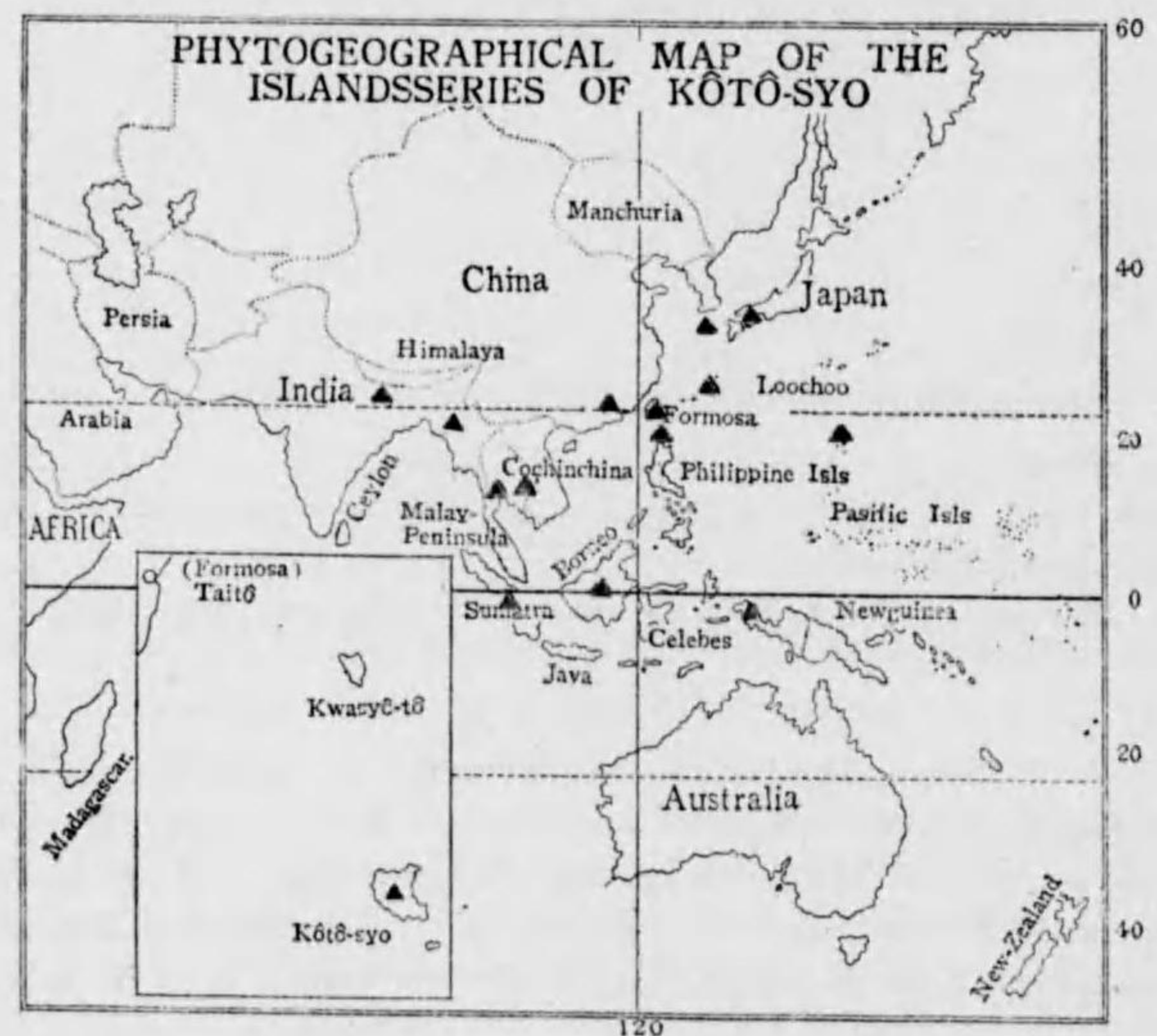
Nom. Jap. Hai-horagoke, Oo-haihoragoke.

Hab. Kōtō-syo, June 1926, ibid. Sept. 21, 1933, S. Sasaki.

Distrib. Japan, Quelpaert, Formosa, Bonin, China, Northern India, Burma, Indo-China, Siam, Sumatra, Western Africa.

Note: This species grows shade places in the neuter forests.

Fig. 14



HYMENOPHYLLUM SMITH, Mém. Acad. Turin. 5 (1793) 418; SWARTZ, Syn. Filic. (1806) 145; HOOK., Gen. Filic. (1840) t. 32; HOOK., Sp. Filic. 1 (1846) 86; BEDD., Fern. South. Ind. (1863) 3; HOOK. et BAK., Syn. Filic. (1866) 56; BAKER, Fl. Maurit. (1877) 461; BENTH., Fl. Austral. 7 (1878) 704; BEDD., Handb. Fern. Brit. Ind. (1892) 28; J. SMITH, Fern. (1896) 249; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 108; BAILL., Queensl. Fl. 6 (1902) 1945; ROSENB., Malay. Fern. (1908) 65.

Ptychomanes HEDWIG, Filic. Gen. et Sp. (1800) fasc. 2.

Leptosium PRESL, Hymenophyl. (1843) 26.

Myrmecostylum PRESL, l. c. 27.

Ptychophyllum PRESL, l. c. 28.

Sphaerodium PRESL, l. c. 31.

Cycloglossum PRESL, l. c. 32.

Craspedophyllum PRESL, l. c. 33.

Sphaerocionium PRESL, l. c. 33.

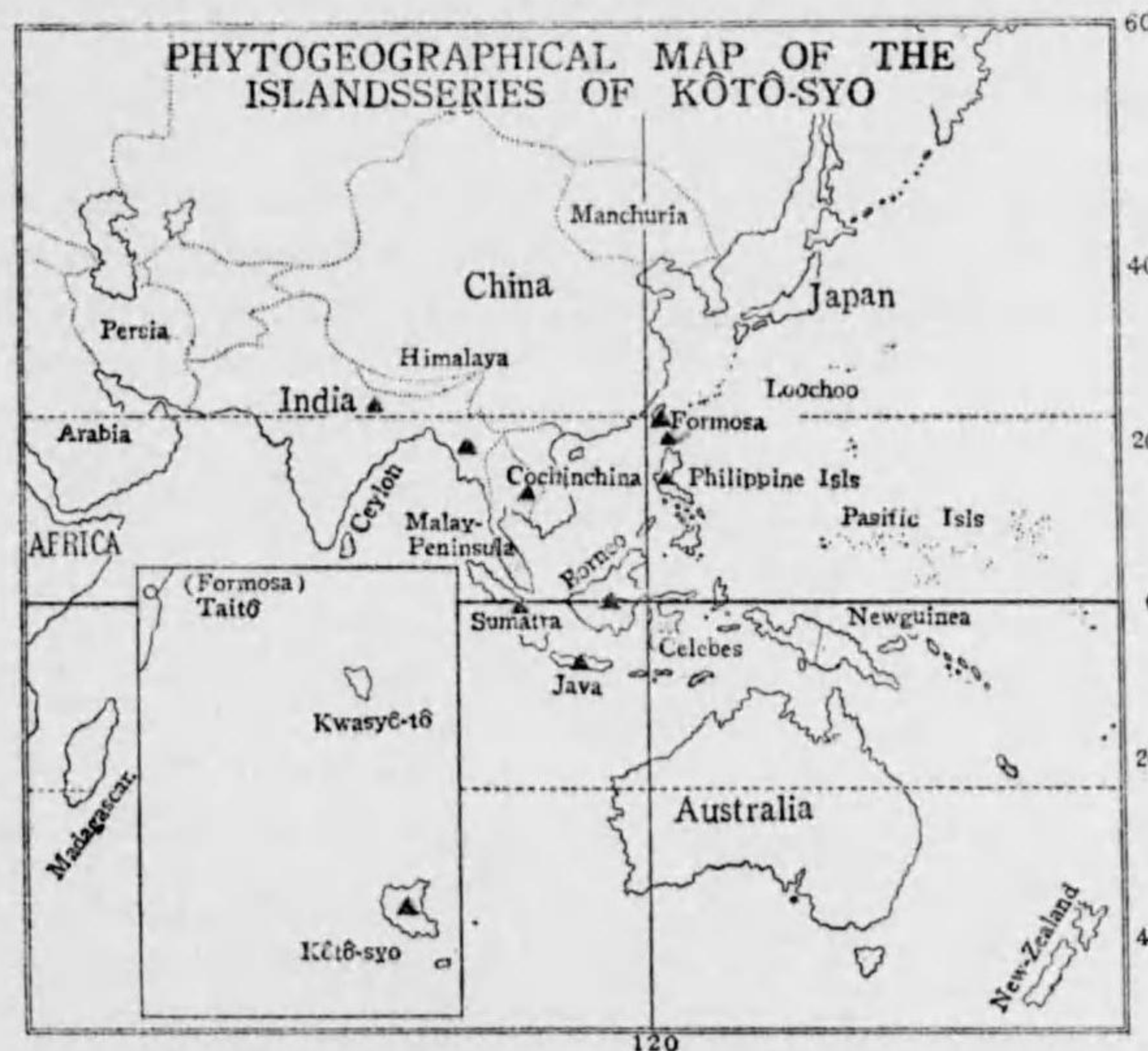
Hymenoglossum PRESL, l. c. 35.

Mecodium PRESL, Epim. Bot. (1849) 258.

Distrib. Tropical and extra-tropical in the southern countries rarely in the Northern Hemisphere.

15. **HYMENOPHYLLUM DENTICULATUM** Sw., Schrad. Journ. 1800 2 (1801) 100, et Syn. Fil. (1806) 148 et 375; WILLD., Sp. Pl. 5 (1810) 524; HOOK., Sp. Fil. 1 (1846) 101; HOOK. et BAK., Syn. Fil. (1867) 101; BEDD., Fern. Brit. Ind. 2 (1868) 278; DIELS, Fl. Centr. Chin. in Engl. Bot. Jahrb. 29 (1898) 187; RACIBORSK., Pter. Fl. Buitenz. 1 (1898) 21; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 112; H. CHRIST, in Warburg, Monsunia 1 (1900) 54; C. CHRIST., Ind. Fil. (1906) 359; ROSENB., Malay. Fern. (1908) 81; SASAKI, in Trans. Nat. Hist. Soc. Formos. 26 (1936) 129.

Fig. 15



Trichomanes denticulatum POIR., Encycl. 8 (1808) 75.

Hymenophyllum humile NEES et BL., Nov. Acta 11 (1823) 25 t. 13, f. 3.

Hymenophyllum dichotomum (non CAV.) NEES et BL., Nova Acta 11 (1823) 127, t. 13, f. 4, BLUME, Enum. Pl. Jav. 2 (1828) 222.

Trichomanes Neesii BL., Enum. Pl. Jav. 2 (1828) 226.

Didymoglossum Neesii PR., Hymen. (1843) 23.

Hymenophyllum Neesii HOOK., Sp. Fil. 1 (1844) 99; HOOK. et BAK., Syn. Fil. (1867) 71, pro parte.

Didymoglossum denticulatum HASSK., Obs. Bot. Fil. 2 (1857) 16.

Leptocionium denticulatum BOSCH, Syn. Hymenophyl. (1859) 382, et Hymenophyl. Jav. (1861) 40, t. 30.

Nom. Jap. Nanbu-kokesinobu.

Hab. Kōtō-syo, June 15, 1926, S. Sasaki!

Distrib. Tropical Asia.

Note: This species grows the shade places in the neuter forests.

Cyatheaceae

CYATHEACEAE ENDLICH., Prodr. Fl. Norf. (1833) 15, et Gen. Pl. (1836) 63; METTEN., Filic. Hort. Bot. Lips. (1856) 15 et 106; BAKER, in Mart., Fl. Brasil. 1. pt. 2 (1870) 305, pro parte; H. CHRIST, Farnkr. d. Erde (1897) 313; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 113; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 28.

Polypodiaceae R. BROWN, Prodr. Fl. Nov. Hoeland. (1810) 145, pro parte; KAULF., Enum. Filic. (1824) 55, pro parte; BLUME, Enum. Pl. Jav. 2 (1830) 99, pro parte; BARLING, Ord. Nat. Pl. (1830) 17, pro parte.

ALSOPHILA R. BROWN, Prodr. Fl. Nov. Holl. (1810) 158; PRESL, Tent. Pterid. (1836) 60, t. 1, f. 6, 19, 20; HOOK., Sp. Filic. 1 (1846) 34; BENTH., Fl. Hongkong. (1861) 460; HOOK. et BAK., Syn. Filic. (1865) 31; HOOK., Handb. New-Zeal. Fl. (1867) 350; BENTH., Fl. Austral. 7 (1878) 709; BEDD., Handb. Fern. Brit. Ind. (1892) 11; SMITH, Fern. (1896) 243; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 132; BAIL., Queensl. Fl. 6 (1902) 1948; ROSENB., Malay. Fern. (1908) 29.

Polypodium LINN., Sp. Pl. (1753) 1082, pro parte.

Trichipteris PRESL, Del. Prag. 1 (1822) 172.

Chnoophora KAULF., Enum. Filic. (1824) 250.

Gymnosphaera BLUME, Enum. Pl. Jav. (1828) 242.

Haplophlebia MAURIT., Icon. Sel. Cr. Bras. (1834) 62.

Dicranophlebia MAURIT., Icon. Sel. Cr. Bras. (1834) 63.

Trichopteris PRESL, Apud Schott, Gen. Filic. (1834) t. 5, et Tent. Pterid. (1836) 58

Amphidesmidum SCHOTT, Gen. Filic. (1834) t. 5.

Metaxya PRESL, Tent. Pterid. (1836) 59, t. 1, f. 5.

Hymenostegia J. SMITH, Lond. Journ. Bot. 1 (1842) 666.

Trichostegia J. SMITH, Lond. Journ. Bot. 1 (1842) 666.

Dichorexia PRESL, in Abhandl. Böhm. Ges. Wiss. 5. ser. 5 (1848) 344.

Lophosoria PRESL, in Abhandl. Böhm. Ges. Wiss. 5. ser. 5 (1848) 344.

Trichosorus LIEBMANN, Vid. Selsk. Skr. 5. ser. 1 (1849) 281.

Alsophilopsis KARST, Fl. Columb. 1 (1858) 4.

Fourniera BOMMER, in Bull. Soc. Bot. France, 20 (1873) 19.

Distrib. Warm regions of the both Hemispheres.

16. **ALSOPHILA FUJIANA** NAKAI, in Bot. Mag. Tokyo, 41 (1927) 72; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 12.

Alsophila sp., KAWAKAMI et SASAKI, l. c. 22.

Nom. Jap. Edauti-hego.

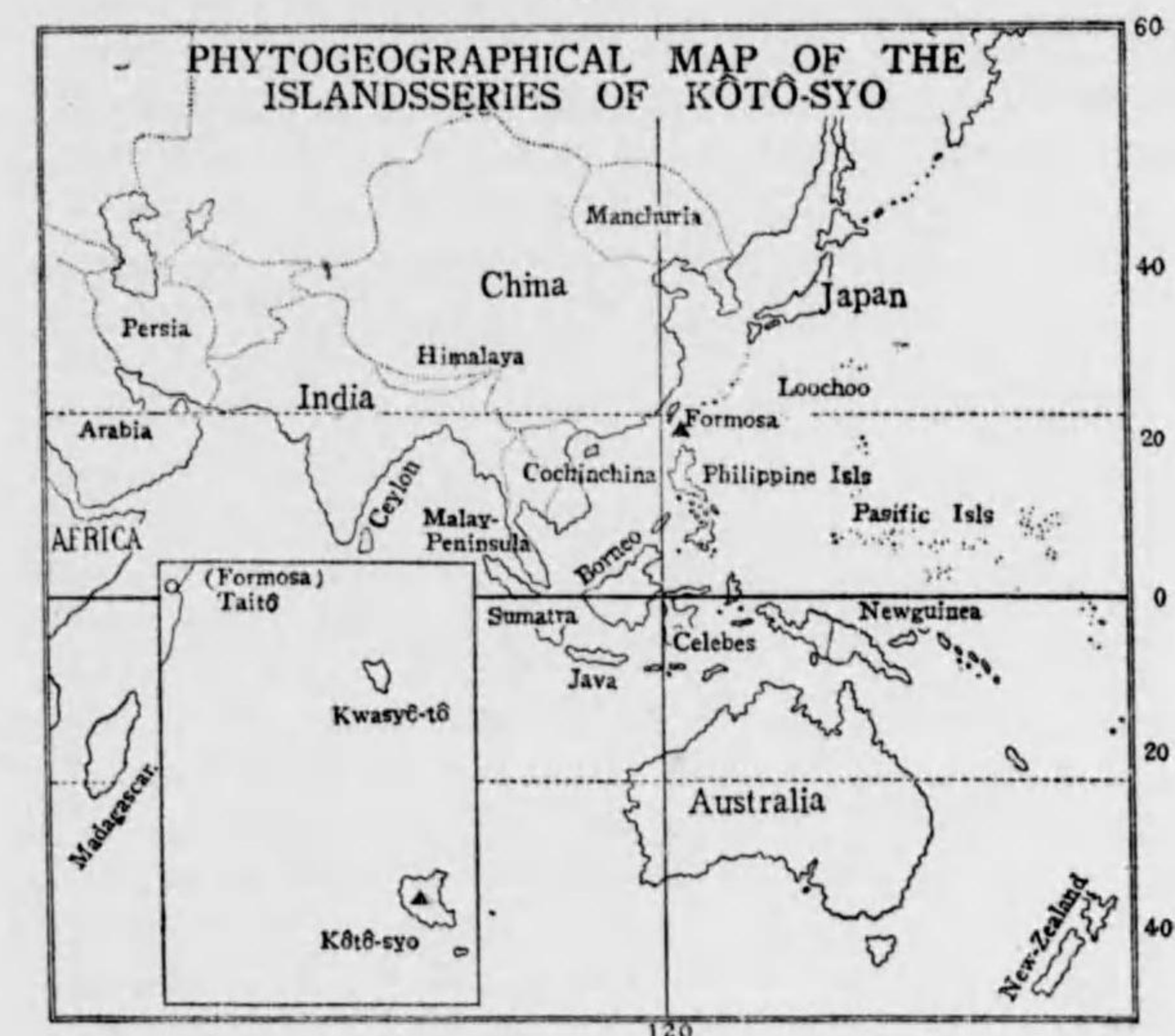
Serm. Nativ. Ragarag. (Yami!)

Hab. Kōtō-syo, July 1919, S. Sasaki; ibid. May. 1924, S. Sasaki; ibid. July, 1926, S. Sasaki; ibid. Dec. 1927, S. Sasaki; ibid. Nov. 1934, S. Sasaki.

Distrib. Endemic.

Note: This species grows the shade places in the neuter forests of Kōtō-syo.

Fig. 16



17. **ALSOPHILA TOMENTOSA** HOOK., Sp. Fil. 1 (1846) 55; METT., in Ann. Lugd. Bot. 1 (1863-4) 53; HOOK. et BAK., Syn. Fil. (1866) 42; HENRY, List Pl. Formos. (1896) 109; MATSUM. et HAYATA, Enum. Pl. Formos. (1906) 572; C. CHRIST., Ind. Fil. (1906) 48; ROSENB., Malay. Fern. (1908) 43; KAWAK. et SASAKI, l. c. 22.

Chnoophora tomentosa BL., Enum. Pl. Jav. et Insl. adj. (1828) 244.

Chnoophora lanuginosa JUNGH., in Hœv. Tijdschr. 8 (1841) 372.

Cyathea tomentosa ZOLL. et MORITZ., Syst. Verz. Jahr. Jav. (1845-46); COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 40.

Alsophila latebrosa (non WALL.) HENRY, List Pl. Formos. (1896) 109; MATSUM. et

HAYATA, Enum. Pl. Formos. (1906) 571; KANEHIRA, Formos. Tree (1917) 647; MAKINO et NEMOTO, Fl. Jap. (1925) 1672; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 73; MAKINO et NEMOTO, l. c. 2 ed. (1931) 13.

Alsophila pustulosa CHRIST, in Bull. Herb. Boiss. 2 sér 1 (1901) 1019; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 73; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 12.

Alsophila spinulosa (non WALL.) YABE, in Bot. Mag. Tokyo, 16 (1902) 47; KAWAK. et SASAKI, *ibid.*

Cyathea spinulosa (non WALL.) YABE, in Bot. Mag. Tokyo, 16 (1902) 47; MATSUM. et HAYATA, Enum. Pl. Formos. (1906) 570.

Nom. Jap. Aya-hego.

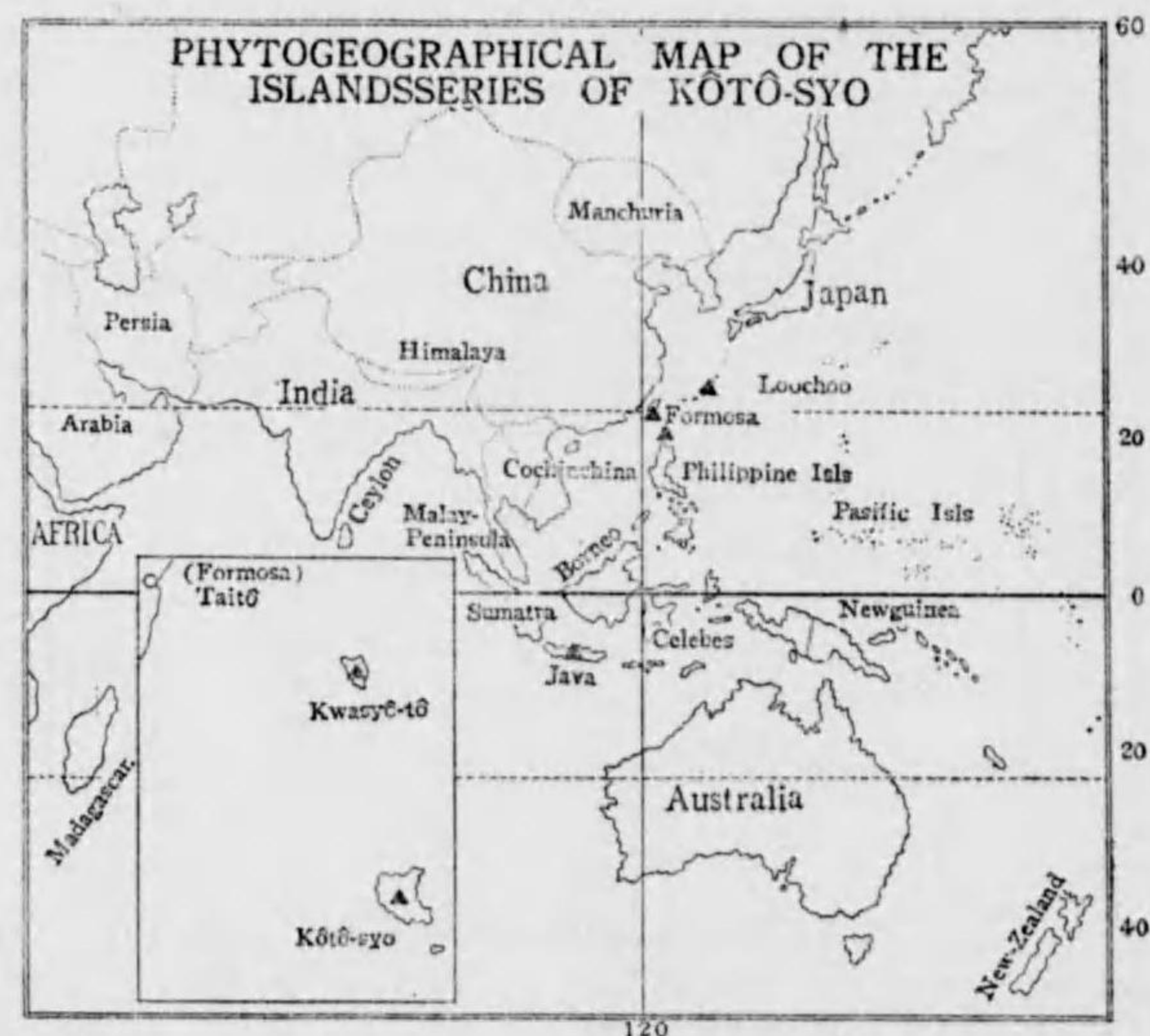
Serm. Nativ. Ragarag. (Yami!)

Hab. Kôto-syo, Apr. 1907, U. Mori; *ibid.* June 1911, T. Kawakami et S. Sasaki; *ibid.* July 1912, S. Sasaki; *ibid.* May 1924, S. Sasaki; *ibid.* June 1926, S. Sasaki; Kwasyô-tô, May 15, 1929 S. Sasaki.

Distrib. Loochoo, Formosa, Java.

Note: This species grows river sides or sunken places of the grass land and some times makes simple vegetation.

Fig. 17



Polypodiaceae

POLYPODIACEAE R. BROWN, Prodr. Fl. Nov. Holland. (1810) 145, pro parte; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 139; COPEL., Polyp. Philip. (1905) 11; ROSENBERG, Malay. Fern. (1908) 121; MERRILL, Fl. Manila (1912) 45.

Filices Subodoro *Polypodiaceae* KAULF., Enum. Filic. (1824) 55, pro parte; BLUME, Filic. Jav. 3 (1828) 11, et Enum. Pl. Jav. 2 (1830) 99, pro parte; BARTLING, Ord. Nat. Pl. (1830) 17, pro parte; LINDLEY, Nat. Syst. Bot. (1836) 400, pro parte; LINK, Filic. Hort. Reg. Bot. Berol. (1841) 33, pro parte; METZ., Filic. Hort. Lips. (1856) 12, pro parte; BAKER, in Maurit. Fl. Brasil. 2 (1870) 335, pro parte; H. CHRIST, Farnkr. (1879) 33, pro parte.

DRYOPTERIS ADANSON, Fam. des Pl. 2 (1763) 20; ROSENBERG, Malay. Fern. (1908) 174; MERRILL, Fl. Manila (1912) 47.

Gleichenia NECKER, Element. Bot. 3 (1790) 314.

Psidopodium NECKER, l. c. 315.

Meniscium SCHREBER, Linn. Gen. Pl. 8. ed. 2 (1791) 757.

Tectaria CAV., Anales de Historia Nat. 1 (1799) 115, pro parte, et Descr. (1802) 251.

Grammitis SWARTZ, Schrad. Journ. 1800 2 (1801) 17, pro parte.

Aspidium Sw., Schrad. Journ. 1800 2 (1801) 44.

Nephrodium RICHARD, in Marthe, Cat. Jard. Méd. Paris (1801) 120; MICHAUX, Fl.

Bor. Am. 2 (1803) 263, DIELS, in Engl. u. Prantl, Nat. Pfl.-fam 1. 4 (1899) 167.

Lastrea BORY, Dict. Class. d'hist. Nat. 6 (1824) 588, 9 (1826) 232.

Stegnogramma BLUME, Enum. Pl. Jav. (1828) 172, pro parte.

Arthrobotrys WALL., List (1828) n. 395.

Cyclosorus LINK, Hort. Berol. 2 (1833) 128.

Hypodematium KUNZE, Flora 2 (1833) 690.

Thelypteris SCHOTT, Gen. ad. (1834) t. 10.

Monogonia PRESL, Tent. Pterid. (1836) 146.

Goniopteris PRESL, Tent. Pterid. (1836) 181.

Pleurogramma R. BROWN, in Horsf. Pl. Jav. rar. (1838) 4.

Leptogramma J. Sm., Journ. Bot. 4 (1841) 51.

Abacopteris FÉE, Congr. Sci. de France X me Sess. 1 (1843) 178.

Amauropelta KUNZE, Farakt. 1 (1843) 86, 109.

Arsenopteris WEBB et BERTH., Hist. Nat. Canar. 3-2, 3 (1847) 437.

Glaphyopteris PRESL, Abhandl. Böhm. Ges. Wiss. 5. 5 (1848) 344.

Lastreastrum PRESL, Epim. Bot. (1849) 37.

Haplodictyum PRESL, Epim. Bot. (1849) 50.

Anisocampium PRESL, Epim. Bot. (1849) 58.

Pronephrium PRESL, Epim. Bot. (1849) 258.

Phegopteris FÉE, Gen. Fil. (1850-52) 242.

Oochlamys FÉE, Gen. Fil. (1850-52) 297.

Camptodium FÉE, Gen. Fil. (1850-52) 298.

Dichasium FÉE, Gen. Fil. (1850-52) 302.

Oligocampia TREVIS, Atti Istituto Veneto 11. 2 (1851) 165.

Gymnothalamium ZENKER, Kunze, Linn. 24 (1851) 287.

Lophodium NEWMAN, Phytolog. 4 (1851) 371, app. 16.

Gymnocarpium NEWMAN, Phytolog. 4 (1851) 371.

Hemestheum NEWMAN, Phytolog. 4 (1851) app. 22.

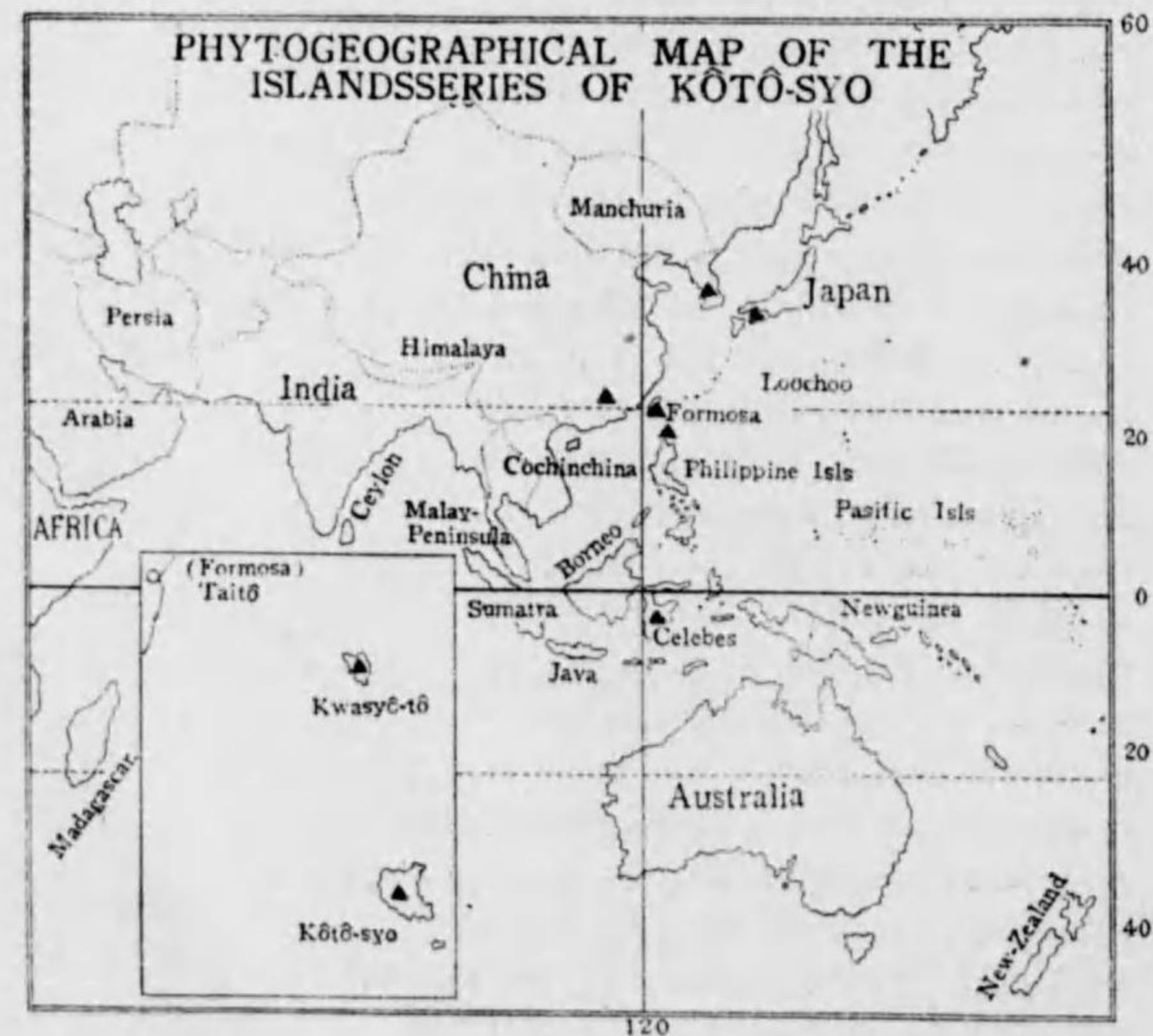
Syneuron J. SMITH, Hook. Ic. Pl. (1854) t. 950.

- Pycnopteris* MOORE, Gard. Chr. (1855) 468.
Eleutherophlebia GRIS, Abh. Gött. Ges. Wiss. 7 (1857) 282, 285.
Anopodium J. SMITH, Cat. Cult. Fern. (1857) 16.
Catopodium J. SMITH, Cat. Cult. Fern. (1857) 16.
Oreopteris J. SMITH, Cat. Cult. Fern. (1857) 57.
Monophlebia MOORE, Ind. Filic. (1857) 89.
Diclisodon MOORE, Ind. Filic. (1857) 95.
Pachyderris J. SMITH, Moore Ind. (1857) 146.
Desmopodium J. SMITH, Moore Ind. (1861) 308.
Microdictyon FÉE, 11 Mem. (1866) 66.
Parapolystichum KEYSERL., Polyp. Cyath. Hb. Bung. (1873) 4.
Polystichopsis J. SMITH, Hist. Fil. (1875) 127.
Megalastrum J. SMITH, Hist. Fil. (1875) 216.
Polystichum SANIO, Verh. Bot. Ver. Brand. 25 (1884) 84.

Distrib. Tropical, Subtropical & Warm Countries of all the World.

18. **DRYOPTERIS DECURSIVE-PINNATA** O. KUNTZE, Rev. Gen. Pl. 2 (1891) 812; C. CHRIST., Ind. Filic. (1905) 261; LEVILLE, in Bull. Acad. Int. Geogr. Bot. (1910) 6; NAKAI, Fl. Kor. 2 (1911) 393; MATH, in Journ. Linn. Soc. 39 (1911) 361; NAKAI, in Bot. Mag. Tokyo, 28 (1914) 72; ROSENBERG, Malay. Fern. & Fern. All. Suppl. 1 (1916) corr. 48; MAKINO et NEMOTO, Fl. Jap. (1925) 1611, et 2 ed. (1931) 54; OGATA, Icon. Filic. Jap. 3 (1930) 119; CHING, Pterid. Kiangs. in Sinensia, 3 (1933) 325; MASAM., Fl. Geob. Stud. Yak. (1934) 50.

Fig. 18



- Polypodium decursive-pinnatum* VAN HALL, Nieuwe Verhdl. Nederl. Inst. 5 (1836) 204, c. t.; HOOK., 2nd Cent. Fern. (1861) t. 40, et Sp. Fil. 4 (1862) 231.
Lastrea decurrens J. SMITH, in Bot. Mag. 72, comp. (1846) 32.
Aspidium decursive-pinnatum KUNTZE, in Bot. Zeitung, 6 (1848) 555; LOWE, Fern. Brit. Exotic. 6 (1857) t. 5; METTEN., in Ann. Lugd. Bot. 1 (1863-4) 229; MIQUEL, Prolus. Fl. Jap. (1866-7) 342; LUERSS, in Flora (1875) 296; FRANCH. et SAVAT., Enum. Pl. 2. 1 (1876) 235; H. CHRIST, in Bull. Boiss. (1901) 828, et in Bull. Soc. Bot. Fr. 52, Mem. 1 (1905) 37.
Phegopteris decursivo-pinnata FÉE, Gen. Filic. (1850-2) 242, t. 20. A. f. 1; H. CHRIST, in Warburg, Monsunia, 1 (1900) 83.
Lastrea decursivo-pinnata SMITH, Fern. Brit. Foreign, (1866) 154.
Nephrodium decursivo-pinnatum BAKER, in Hook. et Baker, Syn. Filic. (1867) 259; HARRINGT., in Journ. Linn. Soc. 16 (1877) 29; BAKER, in Journ. Bot. 23 (1885) 105; YABE, in Bot. Mag. Tokyo, 16 (1902) 48; MATS. et HAYAT., Enum. Pl. Formos. (1906) 573; KAWAK. et SASAKI, l. c. 23.

Nom. Jap. Gezigezī-sida.

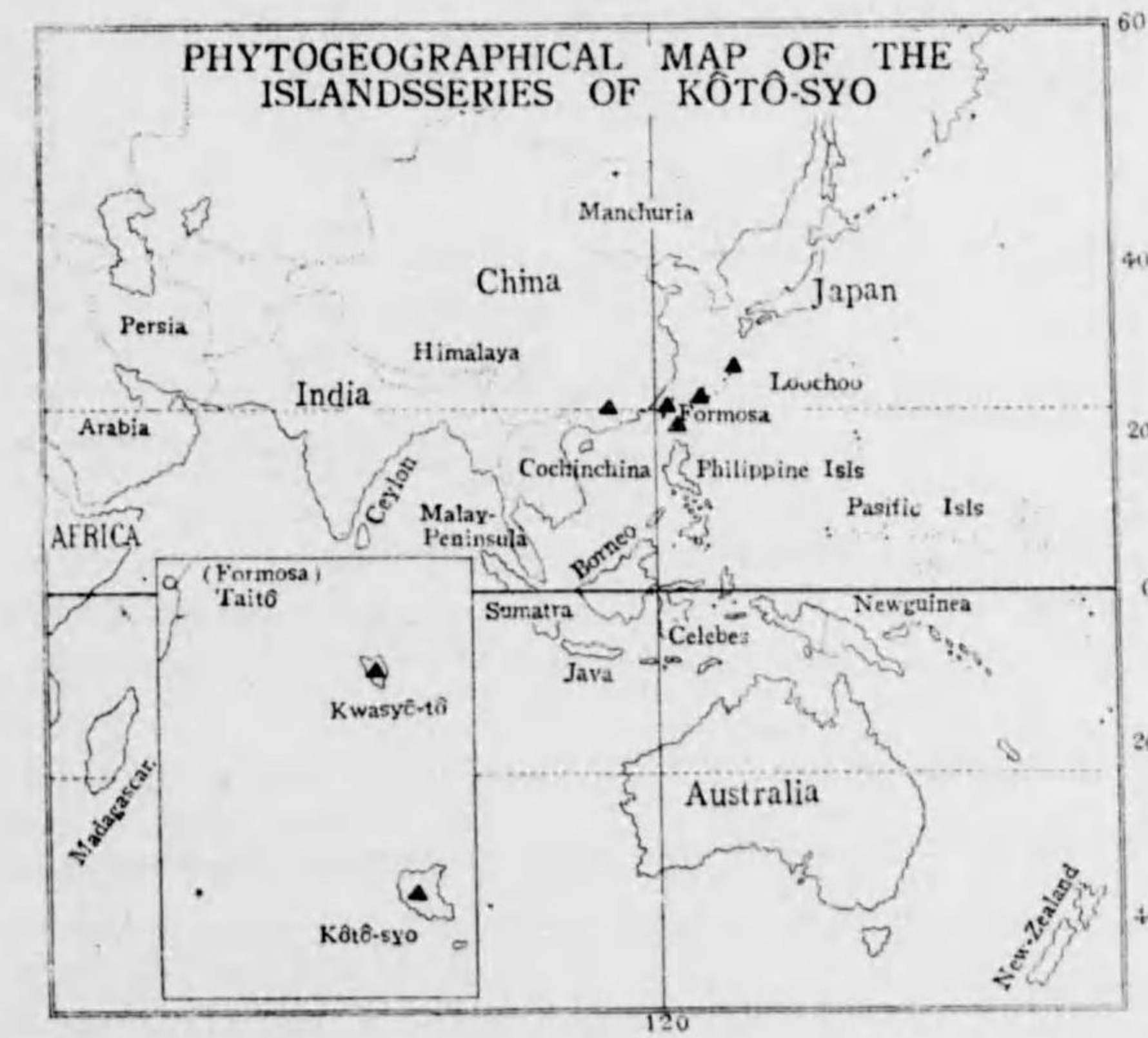
Hab. Kōtō-syō, Apr. 1907, U. Mori; June 1911, T. Kawakami et S. Sasaki; May 1924, June 1926, Apr. 1934, S. Sasaki; Kwasyō-tō, June 1927, et July 4, 1935, S. Sasaki.

Distrib. Korea, China, Japan, Loochoo, Formosa, Celebes.

Note: This species grows wet places or hanging on the precipices.

19. **DRYOPTERIS EATONI** O. KUNTZE, Rev. Gen. Pl. 2 (1891) 812; C. CHRIST., Ind. Filic. (1905) 262; COPEL., in Philip. Journ. Sci. Bot. 3 (1908) 277; HAYATA, Icon.

Fig. 19



Pl. Formos. 4 (1914) 150; KAWAKAMI et SASAKI, l. c. 23; MAKINO et NEMOTO, Fl. Jap. (1925) 1613; OGATA, Icon. Fil. Jap. 2 (1929) 70; MAK. et NEM., l. c. 2 ed. (1931) 55; MASAM., Fl. Geob. Stud. Yak. (1934) 51.

Nephrodium Eatonii BAKER, in Hook. et Baker, Syn. Filic. (1867) 276; YABE, in Bot. Mag. Tokyo, 16 (1902) 48; MATSUM., Ind. Pl. Jap. 1 (1904) 137.

Nom. Jap. Hora-kaguma.

Hab. Kōtō-syo, Nov. 1899, K. Miyake; June 1926, S. Sasaki; Kwasyō-tō, May 1927, et July 5, 1935, S. Sasaki.

Distrib. Amami-ōsima, Loochoo, Formosa, China.

Note: This species grows on the precipices especially shade places in the neuter forests.

20. *DRYOPTERIS KOTOENSIS* HAYATA, Ic. Pl. Formos. 5 (1915) 279;

MAKINO et NEMOTO, Fl. Jap. (1925) 1616, et 2 ed. (1931) 58.

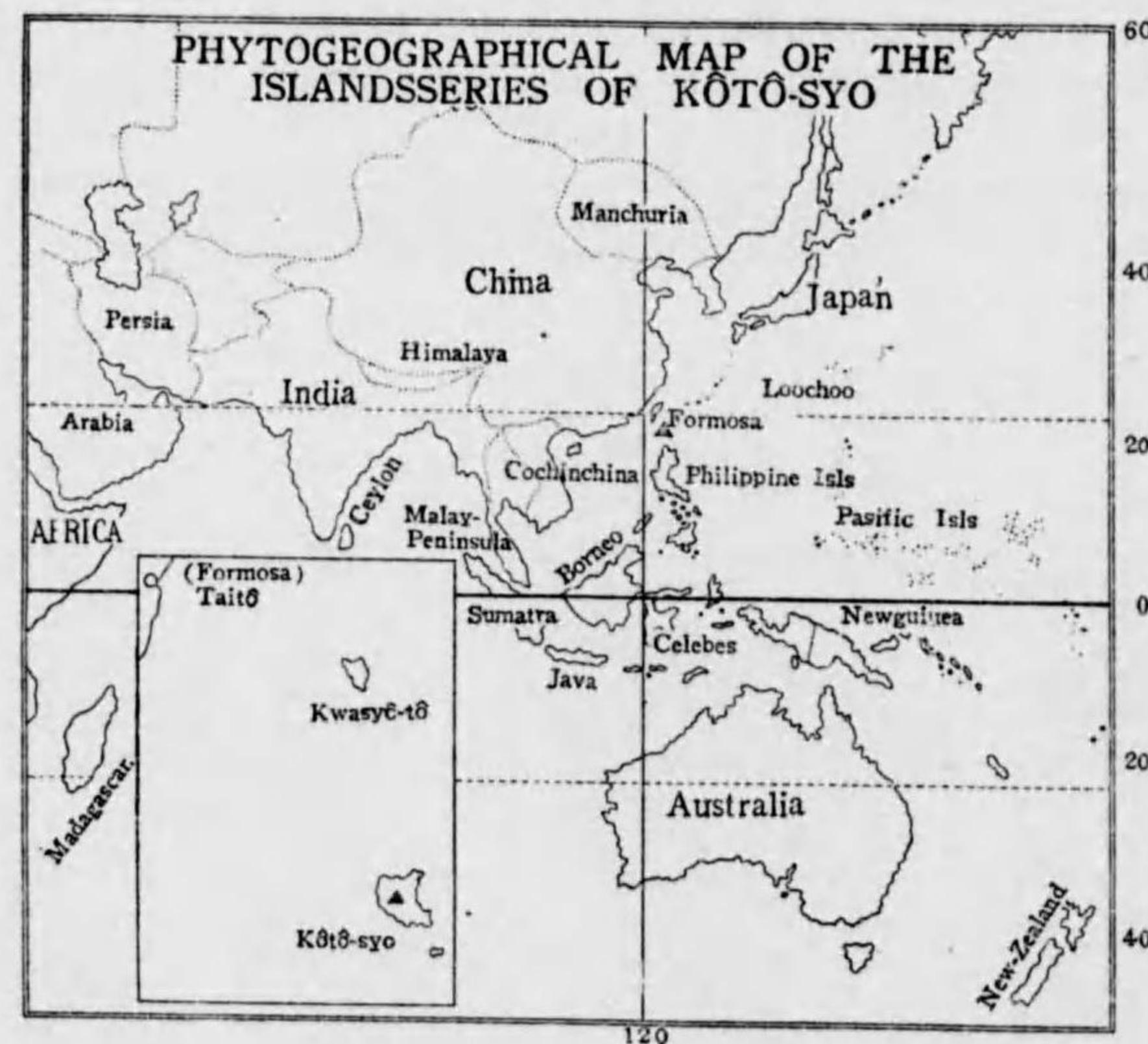
Nom. Jap. Kōtō-sida.

Hab. Kōtō-syo, Feb. 1906, G. Nakahara, no. 1008; ibid. July 1912, T. Kawakami et S. Sasaki, no. 1007; ibid. June 1926, et Sept. 1934, S. Sasaki.

Distrib. Endemic.

Note: This species grows shade places in the neuter forests.

Fig. 20



21. *DRYOPTERIS LEPIGERA* O. KUNTZE, Rev. Gen. Pl. (1891) 813;

C. CHRIST., Ind. Fil. (1905) 274; MATH., in Journ. Linn. Soc. 39 (1911) 364; NAKAI, in Bull. Biogeogr. Soc. Jap. 1 (1930) 251; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 60; MASAM., Fl. Geob. Stud. Yakus. (1934) 54; OGATA, Icon. Fil. Jap. 7 (1936) 312.

Nephrodium lepigerum BAKER, in Hook. et Baker, Syn. Fil. (1867) 284.

Aspidium lepigerum BAK., H. Christ, in Warb. Mons. 1 (1900) 82; MATSUM., Ind. Pl. Jap. 1 (1904) 288; MATS. et HAY., Enum. Pl. Formos. (1906) 579.

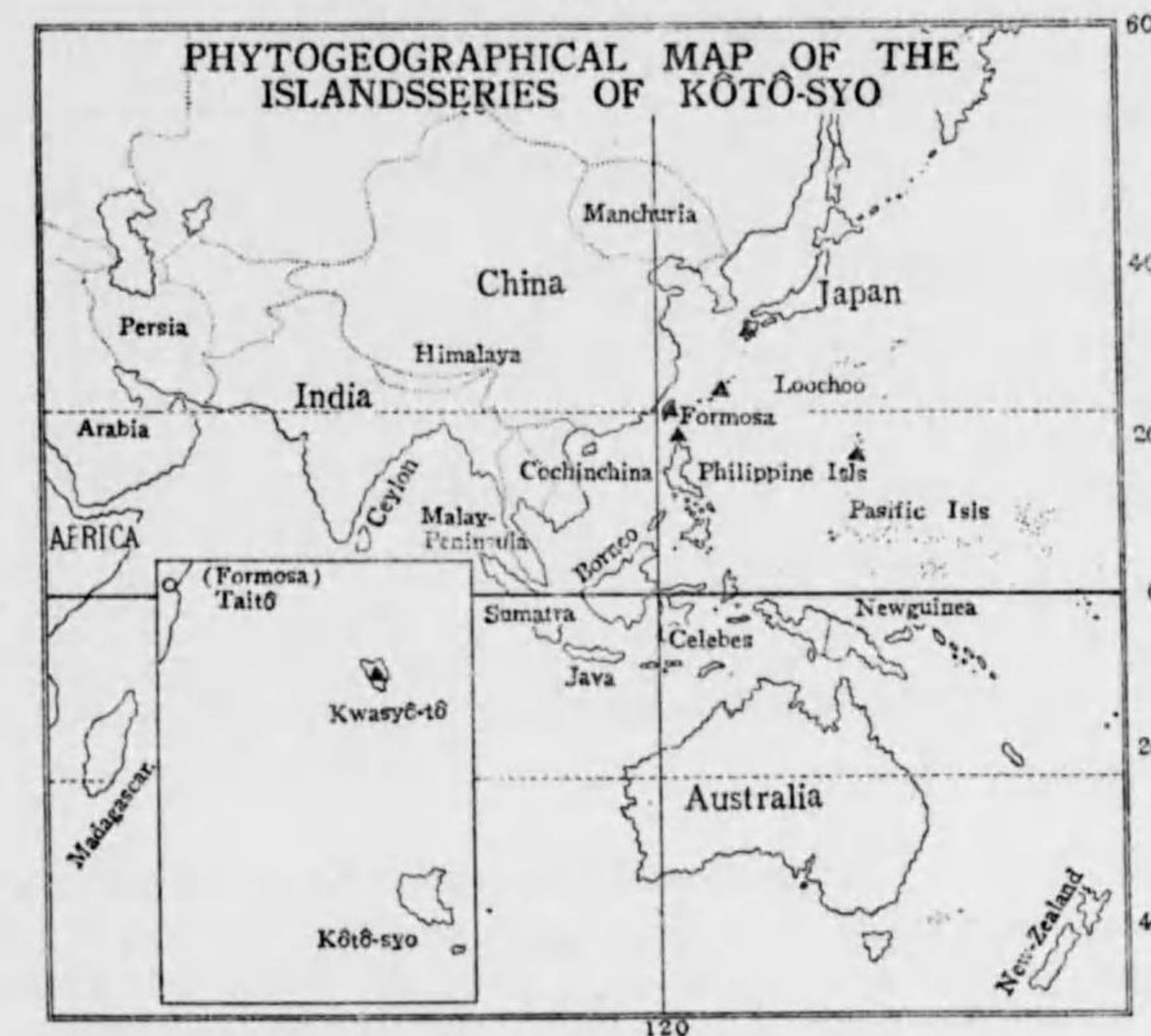
Nom. Jap. Kinmō-inode.

Hab. Kwasyō-tō, June 1927, et July 1935, S. Sasaki!

Distrib. Japan, Tanega-sima, Amami-ōsima, Yaku-sima, Loochoo, Formosa, Bonin.

Note: This species grows shade places in the neuter forests.

Fig. 21



22. *DRYOPTERIS LEUCOSTIPES* C. CHRIST., Ind. Fil. (1905) 274;

HAYATA, Mater. Fl. Formos. (1911) 418; MAK. et NEM., Fl. Jap. (1925) 1617, et 2 ed. (1931) 60.

Nephrodium leucostipes BAKER, in Journ. Bot. 23 (1885) 103; HENRY, List Pl. Formos. (1896) 113.

Dryopteris laevifrons HAY., Ic. Pl. Formos. 4 (1914) 158; MAK. et NEM., Fl. Jap. (1925) 1616; SASAKI, List Pl. Formos. (1928) 21, et Cat. Govt. Herb. (1930) 21; MAK. et NEMOTO, Fl. Jap. 2 ed. (1931) 59.

Dryopteris kwashotensis HAY., Ic. Pl. Formos. 5 (1915) 278; MAK. et NEMOTO., Fl. Jap. (1925) 1616, et 2 ed. (1931) 59.

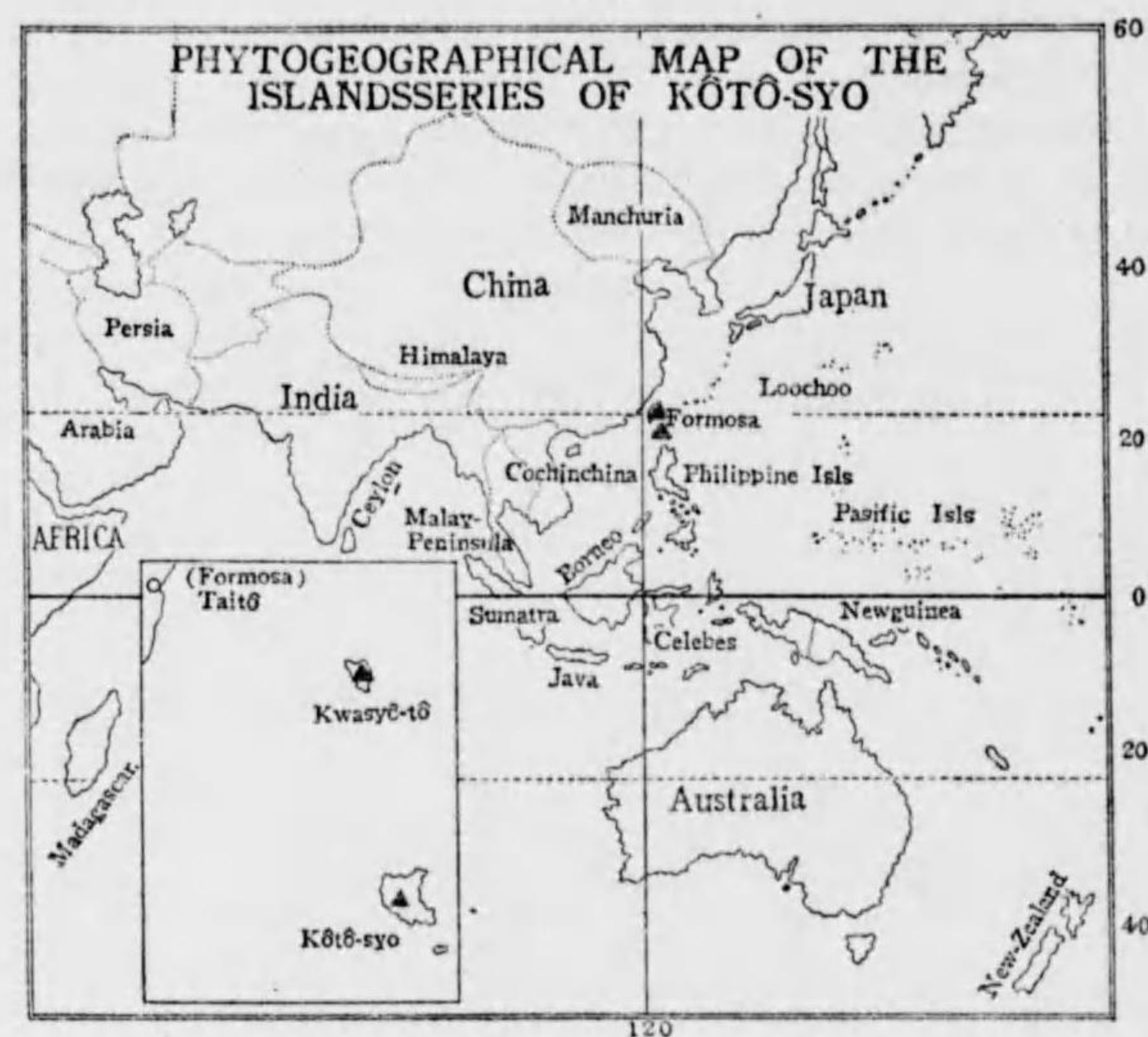
Nom. Jap. Siroguki-sida, Ooba-hosida, Kwasyō-sida.

Hab. Kōtō-syo, Feb. 1906, G. Nakahara, no. 1012, et 1021; June 1911, S. Sasaki; ibid. June 1926, S. Sasaki; Nov. 1934, S. Sasaki; Kwasyō-tō, Feb. 1906, G. Nakahara, no. 1013; June 3, 1927, et Apr. 1934, July 5, 1935, S. Sasaki.

Distrib. Formosa.

Note: This species grows wet or shade places in the neuter forests.

Fig. 22



23. *DRYOPTERIS OCHTHODES* C. CHRIST., Ind. Filic. (1905) 280; ROSENBL., Malay. Fern. 1 (1908) 215; CHRIST, Not. Syst. 1 (1909) 41; LEVEILLE, in Bull. Acad. Int. Geogr. Bot. (1910) 280; NAKAI, Fl. Korean. 2 (1911) 394; HAYATA, Icon. Pl. Formos. 4 (1914) 167; NAKAI, in Bot. Mag. Tokyo, 28 (1914) 72; MAKINO et NEMOTO, Fl. Jap. (1925) 1619; MERR., Enum. Hainan Pl. (1927) 9; OGATA, Icon. Filic. Jap. 3 (1930) 125; MAK. et NEM., Fl. Jap. 2 ed. (1931) 62; MASAM., Fl. Geob. Stud. Yak. (1934) 55.

Aspidium ochthodes KUNTZE, Linnaea, 24 (1851) 282.

Lastrea ochthodes MOORE, Ind. Fil. (1858) 98; BEDD., Fern. South. Ind. (1873) t. 106, et Handb. Fern. Brit. Ind. (1892) 240.

Lastrea xylodes MOORE, Ind. Fil. (1858) 107.

Nephrodium ochthodes HOOK., Sp. Filic. 4 (1862) 109.

Nephrodium multijugum BAKER, in Hook. et Baker, Syn. Filic. (1867) 291.

Nephrodium punctatum BAKER, in Hook. et Baker, Syn. Filic. 2 ed. (1874) 503.

Dryopteris multijuga O. KUNTZE, Rev. Gen. Pl. 2 (1891) 813.

Dryopteris punctata (non C. CHR.) O. KUNZE, Rev. Gen. Pl. 2 (1891) 813.

Aspidium multijugum (non WALL.) CHRIST, in Ann. Jard. Bot. Buitenz. 15 (1897) 135.

Nephrodium prolixum (non DESV.) MATS., Ind. Pl. Jap. 1 (1904) 323.

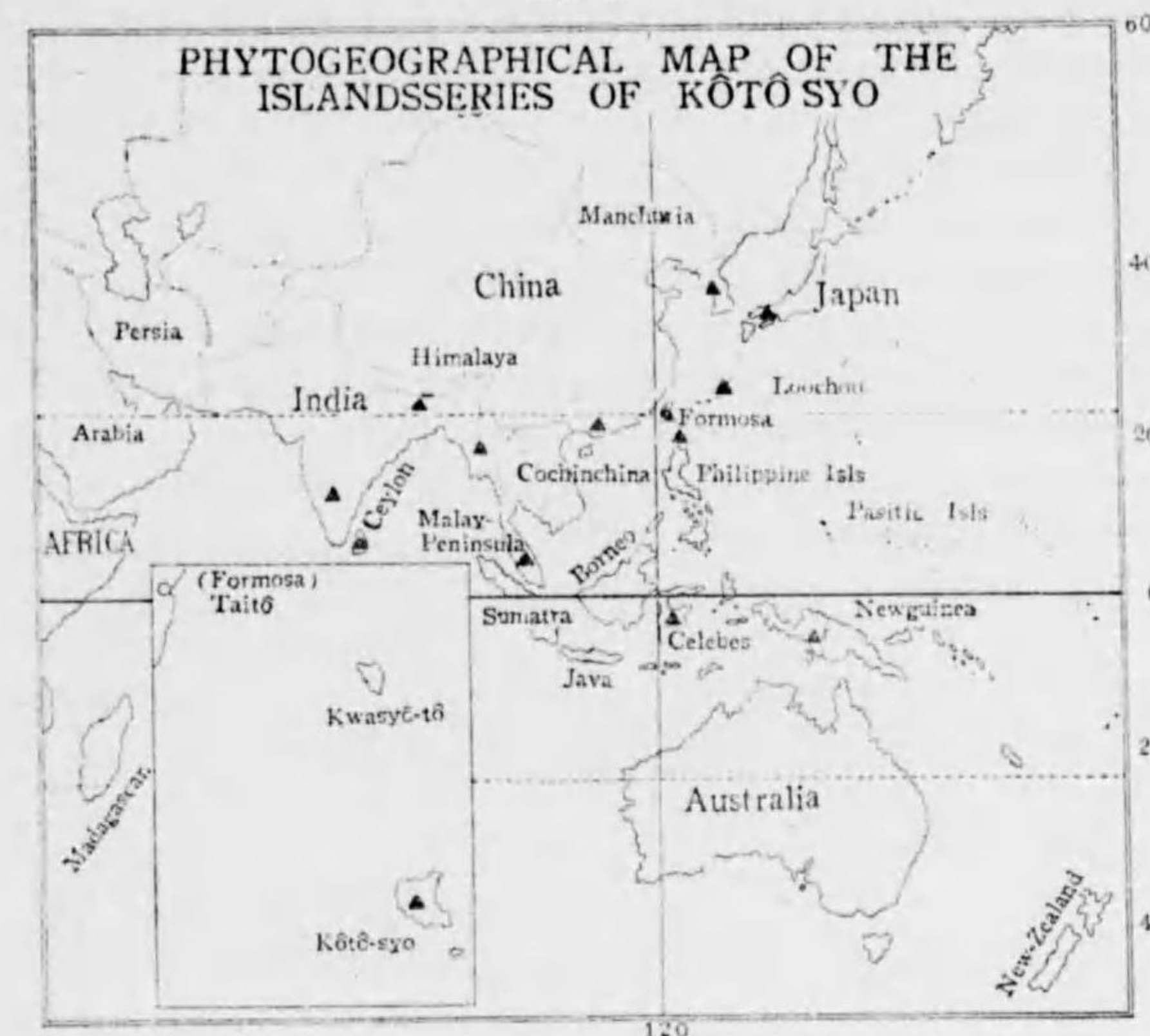
Nom. Jap. Ibuki-sida.

Hab. Kōtō-syo, July 1911, T. Kawakami et S. Sasaki, no. 1063.

Distrib. Korea, Japan, Loochoo, Formosa, Southern China, India, Malay Peninsula, Celebes, New-Guinea.

Note: This species grows wet or shade places in the neuter forests.

Fig. 23



24. *DRYOPTERIS PARASITICA* O. KUNTZE, Rev. Gen. Pl. 2 (1891) 811; C. CHRIST., Ind. Filic. (1905) 282; H. CHRIST, in Philip. Journ. Sci. Bot. 2 (1907) 197; ROSENBL., Malay. Fern. (1908) 224; MERR., Pl. Bat. Babuy. Isl., in Philip. Journ. Sci. Bot. 3 (1908) 391; HAYATA, Mater. Fl. Formos. (1911) 421; MERR., Fl. Manila (1912) 47; NAKAI, in Bot. Mag. Tokyo, 28 (1914) 74; SAKAGUTI, Gen. Ind. Fl. Okinawa (1924) 111; MAKINO et NEMOTO, Fl. Jap. (1925) 1620; SASAKI, List Pl. Formos. (1928) 22; MAK. et NEM., Jap. 2 ed. (1931) 64; OGATA, Ic. Fil. Jap. 4 (1931) 174; MASAM., Fl. Geob. Stud. Yak. (1934) 56.

Polypodium parasiticum LINN., Sp. Pl. 2 (1753) 1093.

Polypodium dentatum FORSK., Fl. Aegypt. arab. (1775) 185.

Polypodium nymphale FORST., Prodr. (1786) 81.

Aspidium parasiticum SWARTZ, Schrad. Journ. 1800 2 (1801) 34; H. CHRIST, Farnkr. d. Erde, (1897) 243, et in Warburg, Monsunia 1 (1900) 78.

Aspidium molle SWARTZ, Schrad. Journ. 1800 2 (1801) 34, Syn. Filic. (1806) 49, et in Franch. et Savat., Enum. Pl. Jap. 2 (1876) 242; BENTH., Fl. Austr. 7 (1875) 756; BAILL., Queensl. Fl. 6 (1902) 1976.

Nephrodium asplenoides MICHX. Fl. Bor. Am. 2 (1803) 268.

Aspidium nymphale SCHUHR, Linn. Pflanz. Syst. Krypt. Gewach. 1 (1806) 36, t. 34.

Aspidium amboinense WILLD., Sp. Pl. 5 (1810) 228.

Nephrodium molle R. BROWN, Prodr. Fl. N. Holl. (1810) 149; BEDD., Fern. South. Ind. (1873) 29, t. 84, et Handb. Fern. Brit. Ind. (1892) 277; SMITH, Fern. Brit. Foreign, (1896) 140; RACIBORSK., Pterid. Fl. Buitenz. 1 (1898) 188; YABE, in Bot. Mag. Tokyo, 16 (1902) 48.

Nephrodium nymphale DESV., Prodr. (1827) 258.

Nephrodium parasiticum DESV., Prodr. Foug. (1827) 260; CLARKE, Rev. Fern. North. Ind. (1880) 533; COPEL., Polypod. Philip. (1905) 32; HATTORI, l. c. 16; MATS. et HAY., Enum. Pl. Formos. (1906) 576.

Nephrodium amboinense PRESL, Tent. (1836) 80.

Nephrodium appendiculatum PRESL, Epim. (1849) 47.

Nephrodium diversilobum PRESL, Epim. (1849) 47, pro parte.

Nephrodium patens J. SMITH, Cat. Cult. Ferns. (1857) 54.

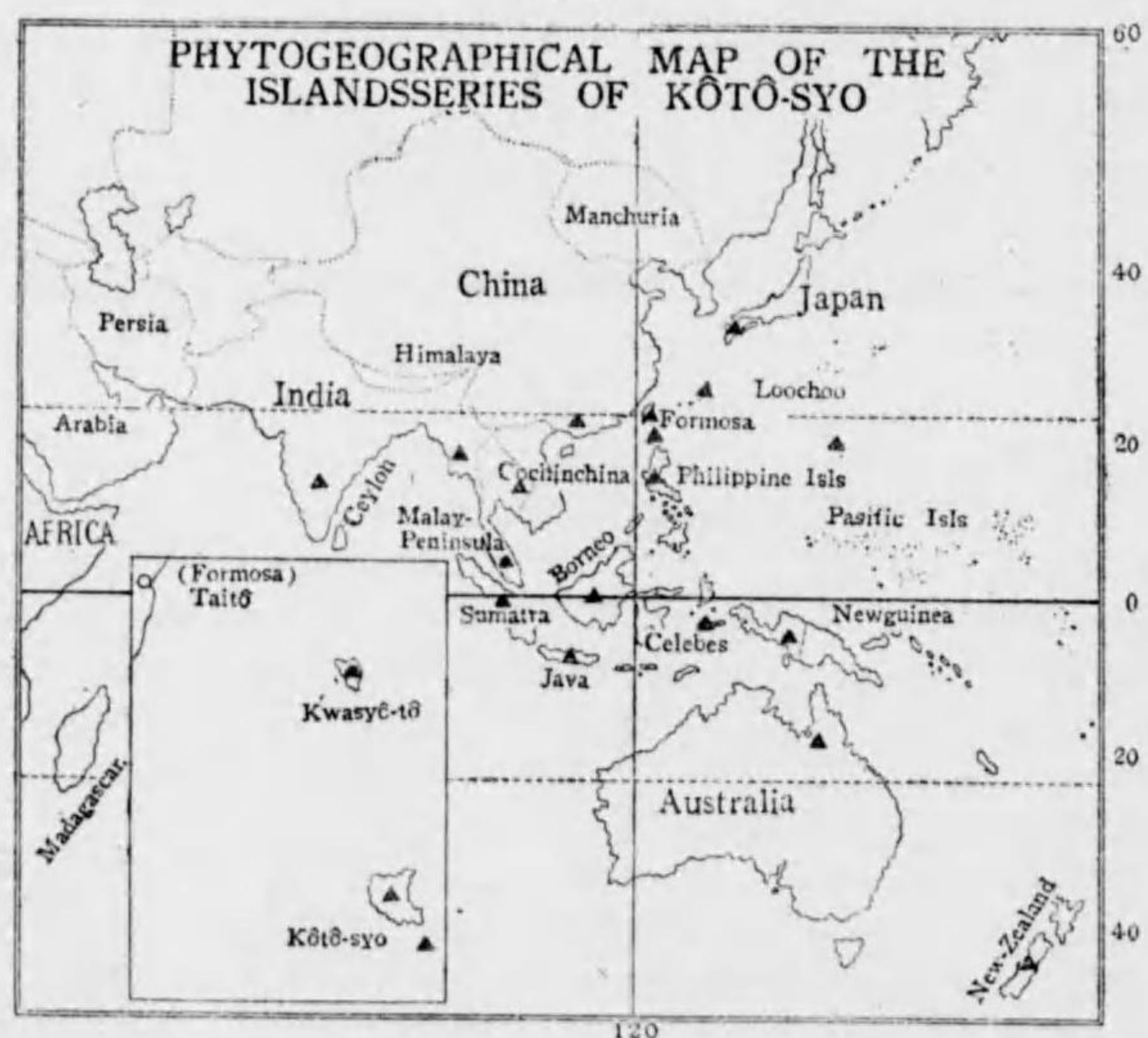
Nephrodium extensum β . *minor* BEDD., Fern. Brit. Ind. (1866) t. 201.

Hemestheum molle GANDOG. Fl. Eur. 27 (1891) 178.

Dryopteris amboinense O. KUNTZE, Rev. Gen. Pl. 2 (1891) 812.

Dryopteris didymosora (non CHRIST.) SASAKI, in Trans. Nat. Hist. Soc. Formos. 24 (1934) 422.

Fig. 24



Nom. Jap. Ke-hosida.

Serm. Nativ. Chir-chirunodobun.

Hab. Kōtō-syo, May 1924, S. Sasaki; Aug. 1924, Y. Komuro; June 1926, S. Sasaki; *ibid.*

July 1932, T. Sata!; Oct. 1934, S. Sasaki!; Kwasyō-tō, June 1927, June 2, 1929, et Apr. 17, 1934, S. Sasaki; Syō-kōtōsyo, July 1911, et June 1926, S. Sasaki.

Distrib. Tropic & subtropic regions of all the World.

Note: This species grows waste places or on the common grounds.

25. *DRYOPTERIS SETIGERA* O. KUNTZE, Rev. Gen. Pl. 2 (1891) 813; C. CHRIST., Ind. Fil. (1905) 292; H. CHRIST, Philip. Sp. Dryopteris, in Philip. Journ. Sci. Bot. 2 (1907) 215; ROSENB., Malay. Fern. (1908) 202; MERR., Pl. Bat. Isl. in Philip. Journ. Sci. Bot. 3 (1908) 390; MERR. et MERRITT, Fl. Mt. Pulog, in Philip. Journ. Sci. Bot. 5 (1910) 317; HAYATA, Gen. Ind. Fl. Formos. (1916) 108.

Cheilanthes setigera BLUME, Enum. Pl. Jav. 2 (1828) 138.

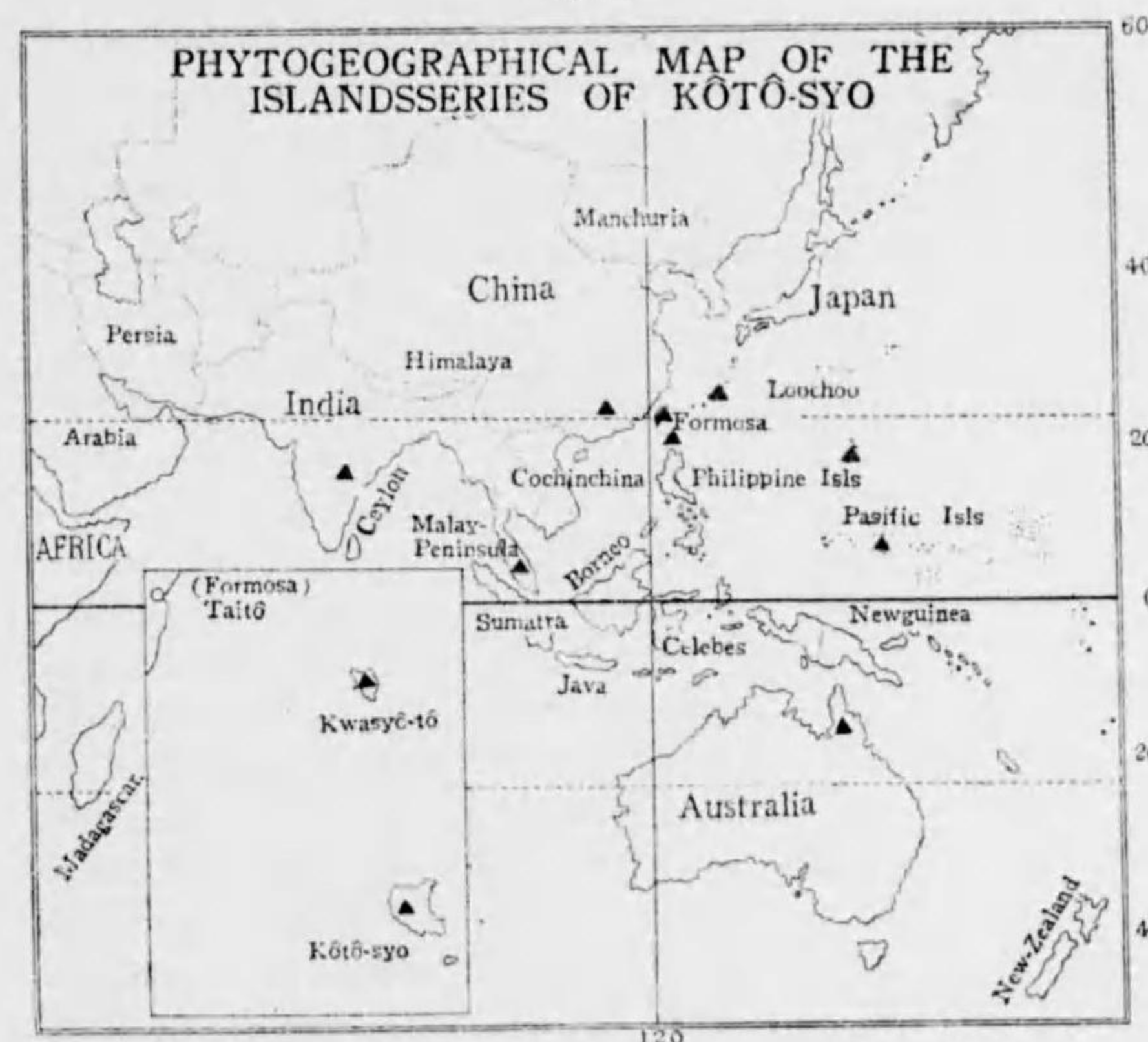
Hypolepis setigera HOOK., Sp. Fil. 2 (1852) 62.

Nephrodium setigerum BAK., Hook. et Baker, Syn. Fil. (1867) 284; HENRY, List Pl. Formos. (1896) 113; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 177.

Aspidium setigerum KUHN, in Verh. Zool. Bot. Ges. 19 (1869) 578.

Lastrea setigera BEDD., Fern. Brit. Ind. Corr. 2 (1870).

Fig. 25



Dryopteris oligophlebia C. CHRIST., Ind. Filic. (1905) 280; MATH., in Journ. Linn. Soc. 39 (1911) 365; MAK. et NEM., Fl. Jap. 2 ed. (1931) 63, pro parte; OGATA, Icon. Filic. Jap. 4 (1931) 173.

Dryopteris oligophlebia var. *lasiocarpa* NAKAI, in Bot. Mag. Tokyo, 34 (1920) 142; SASAKI, List Pl. Formos. (1928) 22, et Cat. Govt. Herb. (1930) 22.

Nom. Jap. Hime-warabi.

Hab. **Kôtô-syo**, Feb. 1906, G. Nakahara, no. 1079; June 1926, et Nov. 1934, S. Sasaki;
Kwasyô-tô, Apr. 1932, June 6, 1935. S. Sasaki.

Distrib. Bonin, Loochoo, Formosa, China, India, Malaya to Australia and Polynesia.

Note: This species grows waste places or common grounds.

26. **DRYOPTERIS TRIPHYLLA** C. CHRIST., Ind. Fil. (1905) 298;
H. CHRIST, Philip. Sp. Dryopt., in Philip. Journ. Sci. Bot. 2 (1907) 207; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 75; HAYATA, Gen. Ind. Fl. Formos. (1916) 109; MAK. et NEM., Fl. Jap. (1925) 1627; OGATA, Icon. Filic. Jap. 1 (1928) 25; SASAKI, List Pl. Formos. (1928) 25, et Cat. Govt. Herb. (1930) 24; MAK. et NEM., Fl. Jap. 2 ed. (1931) 71.

Meniscium triphyllum Sw., in Schrad. Journ. 1800 2 (1801) 16; BEDD., Fern. Brit. Ind. (1892) 397, pl. 231; RACIBORSK., Pterid. Fl. Buitenz. 1 (1898) 66.

Phegopteris triphylla METT., Fil. Lechl. 2 (1859) 21; H. CHRIST, Farnkr. Erde, (1897) 269, fig. 850; ROSENB., Malay. Fern. (1908) 509.

Nephrodium triphyllum DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 178.

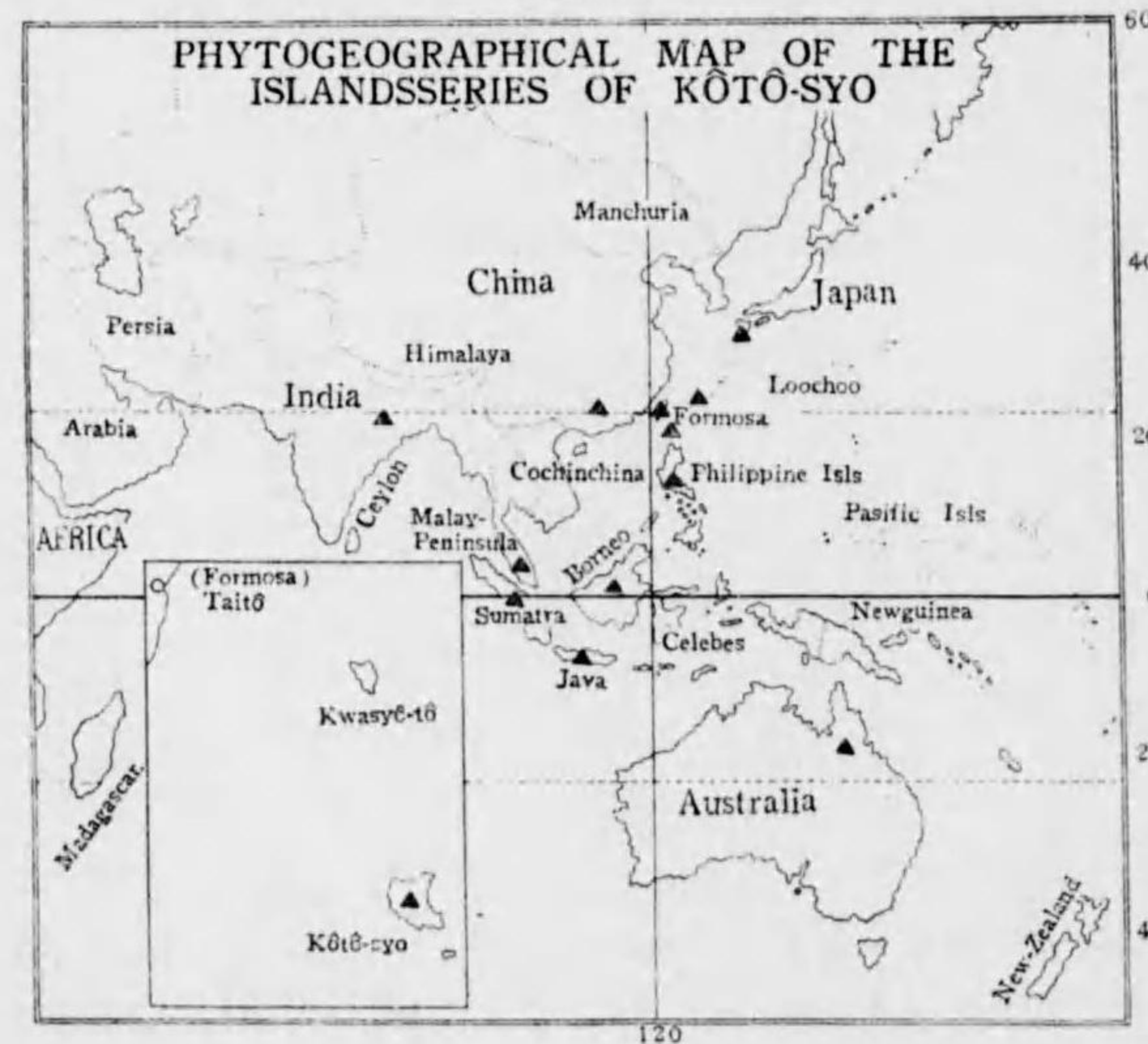
Nom. Jap. Kômori-sida.

Hab. **Kôtô-syo**, June 1926, S. Sasaki!

Distrib. Japan, Loochoo, Formosa, South China, India, Malaya, also Philippines, Queensland.

Note: This species grows waste & rather dry places in the neuter forests.

Fig. 26



var. **ELATA** H. CHRIST, in Philip. Journ. Sci. Bot. 2 (1907) 207.

Meniscium liukuense H. CHRIST, apud Matsum., in Bot. Mag. Tokyo, 24 (1910) 240.

Dryopteris liukuensis C. CHR., Ind. Fil. Suppl. (1913) 34; OGATA, Icon. Fil. Jap. 7 (1936) 313.

Nom. Jap. Seitaka-kômorisida. (n. n.)

Hab. **Kôtô-syo**, June 1926, S. Sasaki; ibid. Dec. 1927, Y. Komuro; ibid. Oct. 1934, S. Sasaki; **Kwasyô-tô**, June 1927, Jan. 1929, S. Sasaki.

Distrib. Loochoo, Formosa, Philippine.

Note: This variety grows rather dry places in the neuter forests.

TECTARIA CAVAN., Anal. Hist. Nat. 1 (1799) 115; COPELAND, in Philip. Journ. Sci. Bot. 2 (1907) 407.

Polypodium LINN., Sp. Pl. (1753) 1082, pro parte.

Aspidum Sw., Schrad. Journ. 1800 2 (1801) 29; HOOK., Gen. Fil. (1840) t. 333; BENTH., Fl. Hongk. (1861) 453; HOOK., Sp. Fil. 4 (1862) 6; HOOK., Handb. New-Zeal. Fl. (1867) 374; HOOK. et BAK., Syn. Fil. (1867) 248; BAKER, Fl. Maurit. (1877) 492; BENTH., Fl. Austral. 7 (1878) 752; BEDD., Handb. Fern. Brit. Ind. (1892) 212; SMITH, Fern. (1896) 143; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 183; BALL., Queensl. Fl. 6 (1902) 1974; COPEL., Polyp. Philip. (1905) 33; ROSENB., Malay. Fern. (1908) 233.

Nephrodium RICHARD, in Marthe, Cat. Jahd. Méd. Paris (1801) 120, pro parte.

Gymnogramma DESV., Berl. Mag. 5 (1811) 304, pro parte.

Deparia HOOK. et GREV., Icon. Fil. (1829) t. 154, pro parte.

Sagenia PRESL, Tent. Pterid. (1836) 86, pro parte.

Digrammaria PRESL, Tent. Pterid. (1836) 116, pro parte.

Pteocnemia PRESL, l. c. 183, pro parte.

Dictyopteris PRESL, Tent. Pterid. (1836) 194.

Bathmum LINK, Fil. Sp. (1841) 99, 114.

Microbrochis PRESL, Epim. Bot. (1849) 51.

Polydictyum PRESL, Epim. Bot. (1849) 52.

Heterogonium PRESL, Epim. Bot. (1849) 142.

Proferea PRESL, Epim. Bot. (1849) 259.

Dryomenis FÉE, Gen. Fil. (1850-52) 225.

Phegopteris FÉE, Gen. Fil. (1850-52) 242, pro parte.

Podopeltis FÉE, Gen. Fil. (1850-52) 286.

Phlebiogonium FÉE, Gen. Fil. (1850-52) 314.

Cardiochlaena FÉE, Gen. Fil. (1850-52) 314.

Cionidium MOORE, Gard. Comp. (1852) 143.

Dictyocline MOORE, Gard. Chron. (1855) 854.

Trichiocarpa J. SMITH, Cat. Kew Fern. (1856) 7.

Patanea J. SMITH, Moore Ind. (1857) 98.

Depariopsis BAKER, Ann. Bot. 5 (1891) 462.

Arcypteris UNDERW., Bull. Torr. Cl. 30 (1903) 678.

Distrib. Tropical & warmer countries of over the World.

27. *TECTARIA AMBIGUA* COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 415; C., CHRIST. Suppl. Ind. Fil. (1913) 71.

Digrammaria ambigua PRESL, Tent. (1836) 117, t. 4 f. 12.

Stenosemia aurita J. SM., in Hook. Gen. Fil. (1842) t. 94 f. 1-4.

Phegopteris philippinensis METT., Phegopteris & Aspidium (1858) 26, n. 55.

Gymnogramma ambigua HOOK., Sp. Fil. 5. (1864) 150.

Aspidium ambiguum DIELS, in Engl. u Prantl. Nat. Pfl.-fam. 1. 4 (1899) 188.

Dictyopteris ambigua ROSENB., Malay. Fern. (1908) 521.

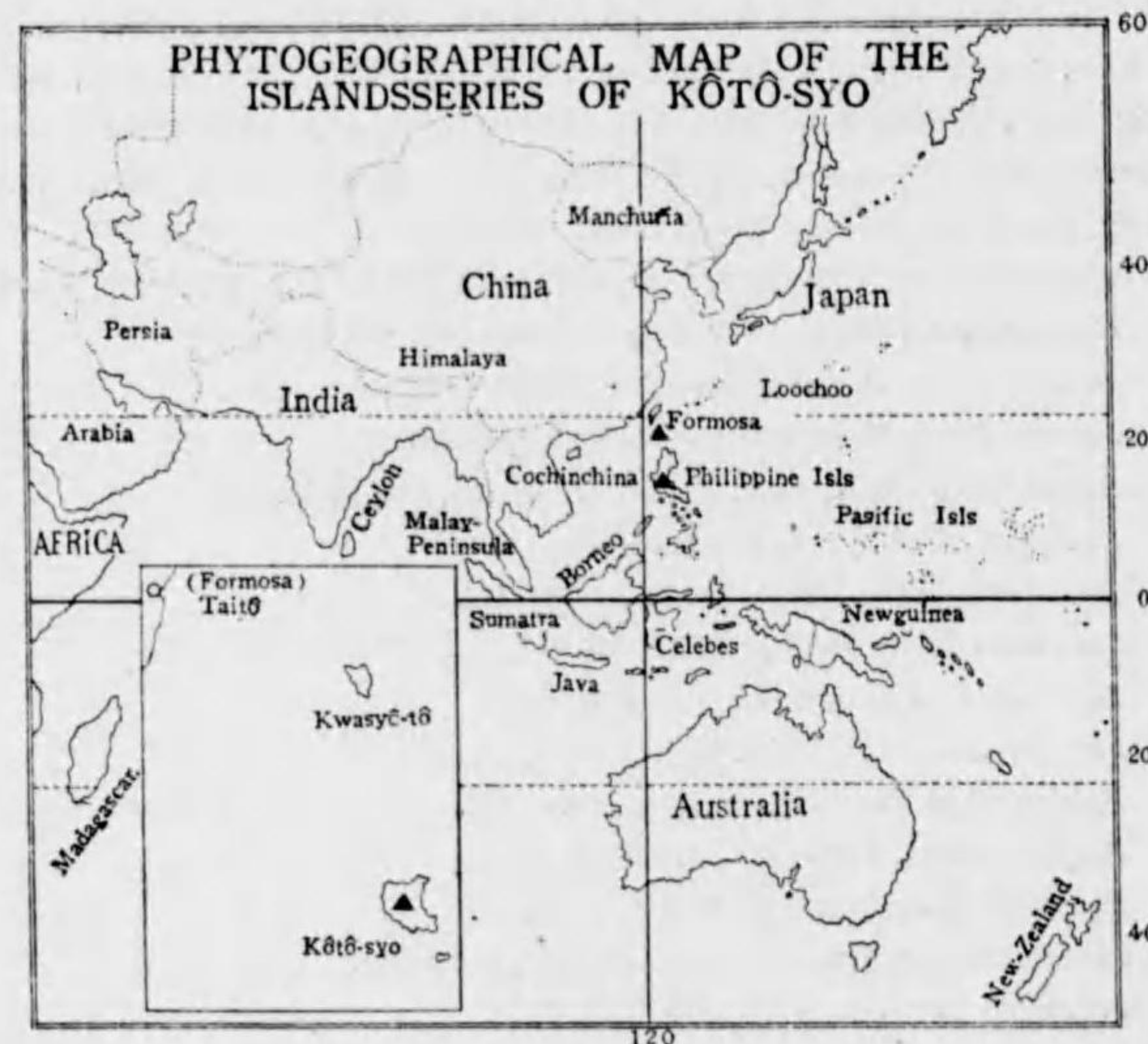
Nom. Jap. Kōtō-migawarisida.

Hab. Kōtō-syo, Jan. 1, 1919, et June 12, 1926, S. Sasaki!

Distrib. Philippine.

Note: This species grows shade places in the neuter forests.

Fig. 27



28. *TECTARIA DECURRENS* COPEL., in Elm. Leaf. Philippine Bot. 1 (1907) 236, et in Philip. Journ. Sci. Bot. 2 (1907) 412, et ibid. 6 (1911) 76; CHING, in Sinensia 2. 2 (1931) 22.

Aspidium decurrens PRESL, in Rel. Haenk. 1-1 (1825) 28; BEDD., Fern. Brit. Ind. (1870) t. 245; BEDD., Handb. Fern. Brit. Ind. (1892) 219, cum. var. *minor*, H. CHRIST., Farnkr. d. Erde (1897) 229; C. CHRIST., Ind. Fil. (1905) 71; ROSENB., Malay. Fern. (1908) 247; MATT., in Journ. Linn. Soc. 39. (1911) 342; MAK. et NEM., Fl. Jap. (1925) 1572, et 2 ed. (1931) 20; OGATA, Icon. Filic. Jap. 6 (1935) 253.

Aspidium macrophyllum BLUME, Enum. Jav. (1828) 144.

Aspidium pteropus KUNZE, in Bot. Zeit. 4 (1846) 462; HOOK., Sp. Fil. 4 (1862) 47; BEDD., Fern. South. Ind. (1863) t. 82; SMITH, Fern. (1866) 146.

Aspidium platynotus KUNZE, in Linn. 23 (1850) 229.

Cardiochlaena alata FÉE, Gen. Fil. (1850-52) 315.

Sagenia decurrens HOULST, Moore Ind. Fil. 5 (1857) 86; RACIBORSK., Pter. Fl. Buitenz. 1 (1898) 196.

Sagenia pteropus MOORE, Ind. Fil. 5 (1857) 89; NAKAI, in Bot. Mag. Tokyo, 47 (1933) 165.

Nephrodium decurrens HOOK. et BAKER, Syn. Fil. (1867) 299, pro parte; CLARKE, Fern. North. Ind. (1880) 539; BAKER, in Britten, Journ. Bot. 23 (1885) 105; MAKINO, in Bot. Mag. Tokyo, 9 (1895) 7, et ibid. 10 (1896) 53; HENRY, List Pl. Formos. (1898) 113; MATSUM., Ind. Pl. Jap. 1 (1904) 316; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 573.

Sagenia mamillata MOORE, in Gard. Chron. n. s. 26 (1886) 38.

Dryopteris decurrens O. KUNTZE, Rev. Gen. Pl. 2 (1891) 812.

Aspidium heterodon COPEL., in Perk. Fragm. (1905) 177.

Aspidium mamillosum C. CHRIST., Ind. Fil. (1905) 81.

Aspidium Copelandi C. CHRIST., Ind. Fil. (1906) 661.

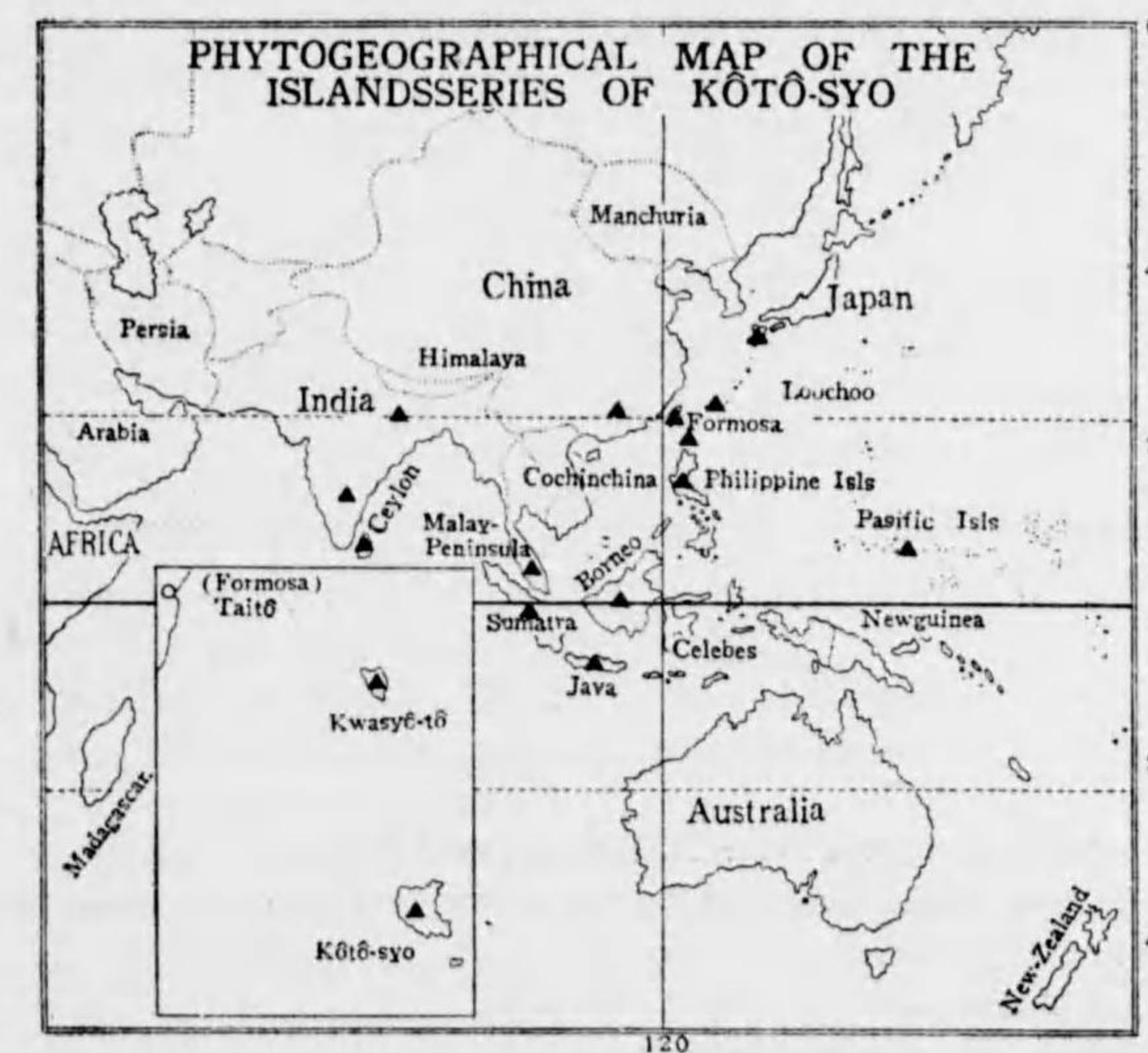
Nom. Jap. Nanabake-sida.

Hab. Kōtō-syo, March 1906, G. Nakahara; ibid. July 1911, T. Kawakami et S. Sasaki; ibid. May 1924, S. Sasaki; Kwasyō-tō, May 15, 1927, S. Sasaki; ibid. Jan. 1, 1929; ibid. Apr. 7, 1934; ibid. July 5, 1935, S. Sasaki!

Distrib. Japan, Loochoo, Formosa, China, Philippine, India, Ceylon, Malay, Polynesia.

Note: This species grows waste places in the neuter forests.

Fig. 28



29. **TECTARIA DEVEXA** COPEL., Rev. Tectaria, in Philip. Journ. Sci. Bot. 2 (1907) 415; SASAKI, List Pl. Formos. (1928) 41, et Cat. Govt. Herb. (1930) 43; CHING, in Sinensia, 2-2 (1931) 16.

Aspidium devexum KUNZE, in Bot. Zeit. 6 (1848) 259; METT., in Ann. Mus. Bot. Lugd. Bat. 1 (1863) 237; C. CHRIST., Ind. Fil. (1905) 71; MATT., in Journ. Linn. Soc. 39 (1911) 342; MAK. et NEM., Fl. Jap. (1925) 1572, et 2 ed. (1931) 20; OGATA, Icon. Filic. Jap. 6 (1935) 254.

Polypodium membranaceum (non D. DON) HOOK. apud Blackiston, Yang-tsue (1862) 365, fide Christ. C.

Aspidium giganteum var. *minor* HOOK., Sp. Fil. 4 (1862) 50.

Aspidium giganteum var. *β. minor* HOOK., apud Thwaites, Enum. Pl. Zeyl. (1864) 390; SMITH, Erit. & For. (1866) 146.

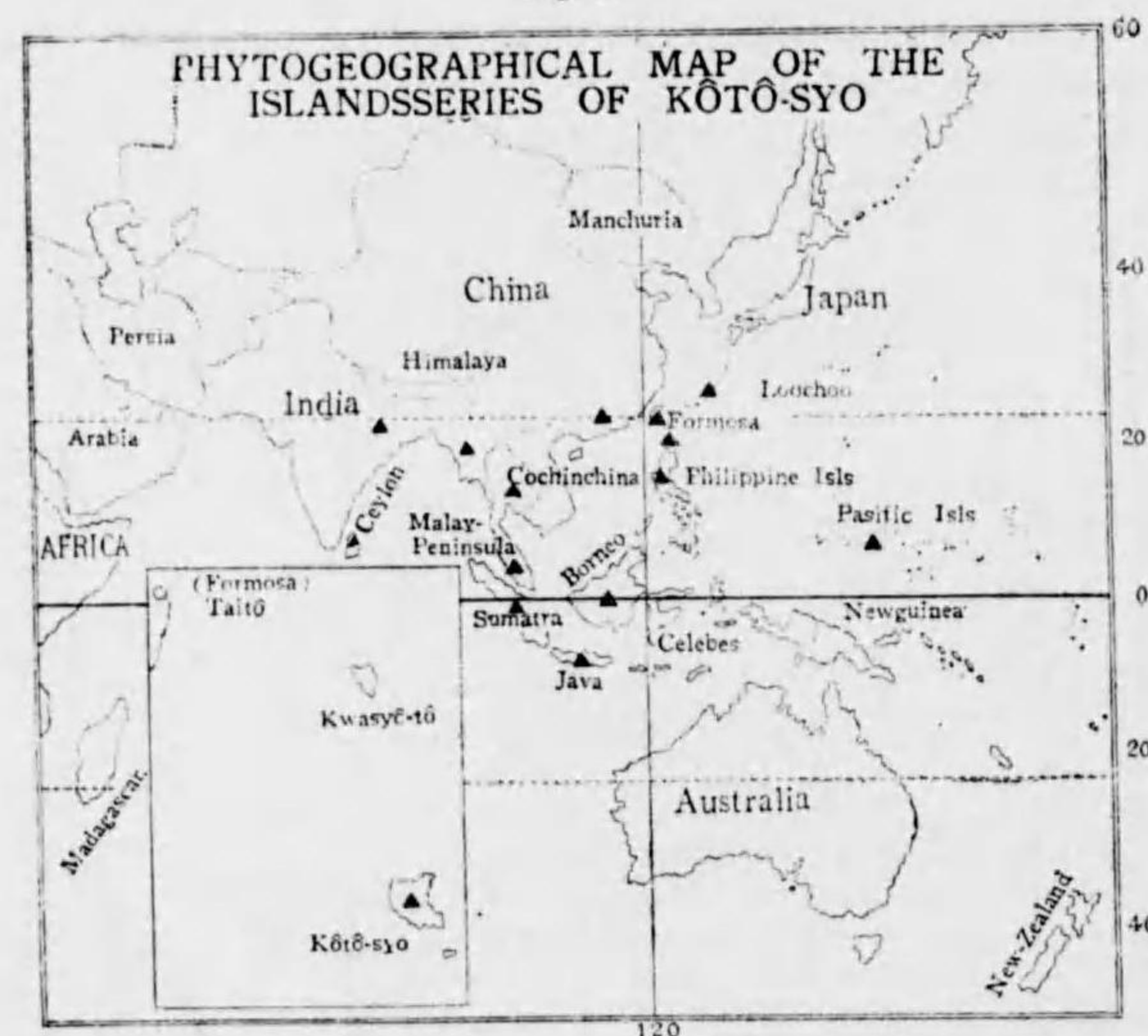
Aspidium membranaceum HOOK., Sp. Fil. 5. (1864) 105; HOOK. et BAK., Syn. Fil. (1867) 259; DIELS., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 188; MATS. et HAY., Enum. Pl. Formos. (1906) 574.

Sagenia membranacea BEDD., Fern. Brit. Ind. corr. 2 (1870)

Pleocnemia membranacea BEDD., Fern. Brit. Ind. Suppl. (1876) 15, et Handb. Fern. Brit. Ind. (1883) 225.

Nephrodium devexum MAK., in Bot. Mag. Tokyo, 10 (1896) 56; MATS., Ind. Pl. Jap.

Fig. 29



1 (1904) 316; MATSUM. et HAY., Enum. Pl. Formos. (1906) 574.

Pleocnemia devexa ROSENB., Malay. Fern. (1908) 174, cum. var. *minor*; NAKAI, in Bot. Mag. Tokyo, 47 (1933) 163.

Nom. Jap. Usuba-sida.

Hab. Kōtō-syo, Oct. 30, 1934, S. Sasaki!

Distrib. Formosa, Loochoo, China, Philippine, Polynesia, Malaya.

Note: This species looked one time only at the entrance of the cave near the seashore of East South Cape.

30. **TECTARIA SASAKII** SASAKI, comb. nom.

Dryopteris tenuifrons (non C. CHRIST.) HAY., Ic. Pl. Formos. 4 (1914) 184.

Dryopteris Sasakii HAY., Ic. Pl. Formos. 6 (1916) 158; MAK. et NEM., Fl. Jap. (1925) 1623; SASAKI, List Pl. Formos. (1928) 23, et Cat. Govt. Herb. (1930) 23; MAK. et NEM., Fl. Jap. 2 ed. (1931) 67.

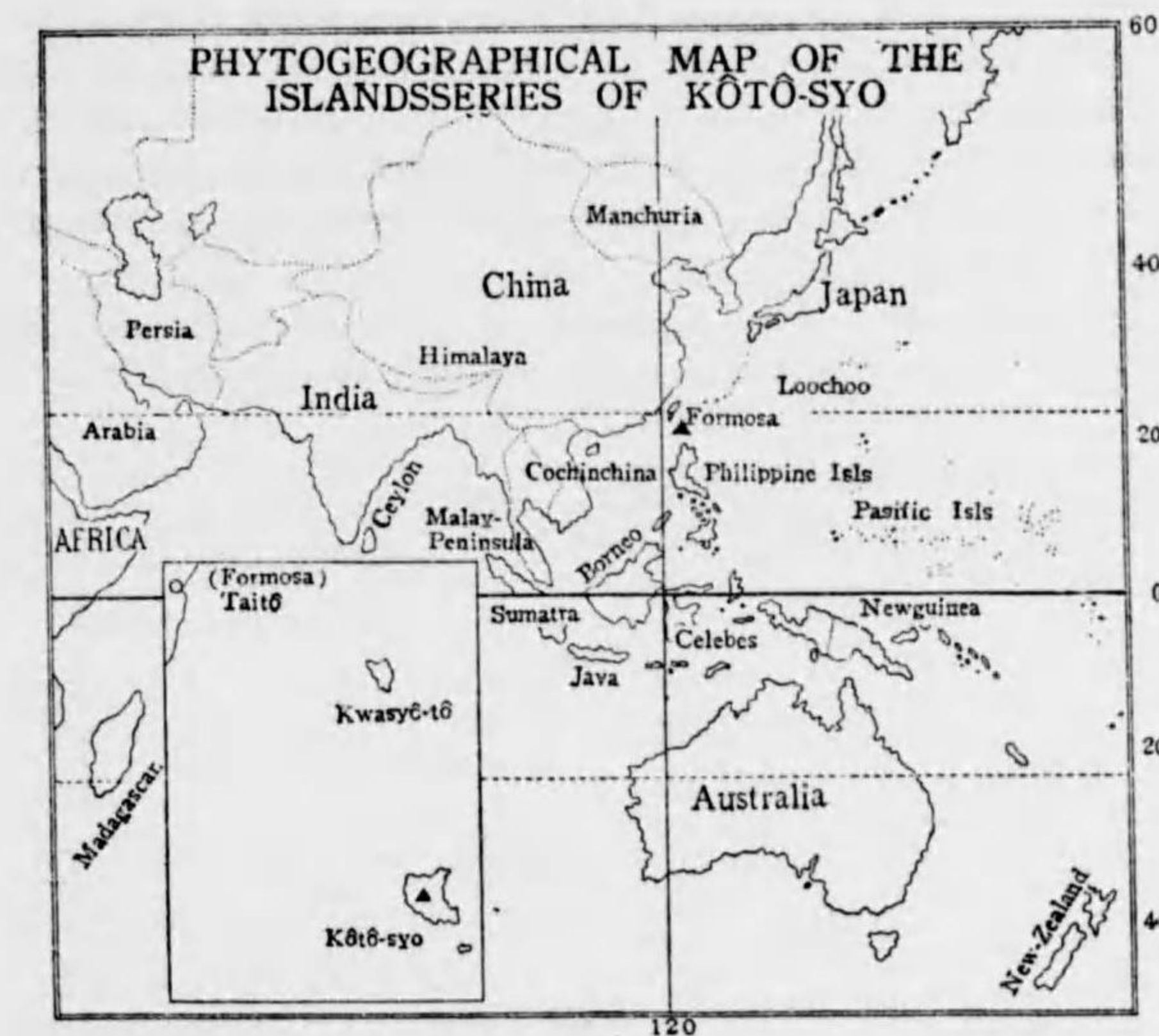
Nom. Jap. Oo-usubasida.

Hab. Kōtō-syo, July 1912, T. Kawakami et S. Sasaki; ibid. May 3, 1924, S. Sasaki!

Distrib. Endemic.

Note: This species grows shade palces in the neuter forests.

Fig. 30



CYRTOMIUM PRESL, Tent. Pter. (1836) 86; BEDD., Handb. Fern. Brit. Ind. (1892) 211; SMITH, Fern. (1896) 141; ROSENB., Malay. Fern. (1908) 253.

Polystichum ROTH., Röm. Mag. 2.-1 (1799) 106; BEDD., Fern. South. Ind. (1863) 41; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1.-4 (1899) 189; COPEL., Polyp. Philip. (1905) 18; C. CHRIST., Ind. Fil. (1906) 575, pro parte.

Aspidium SWARTZ., Schrad. Journ. 1800 2 (1801) 29; HOOK., Gen. Fil. (1840) 33; BENTH., Fl. Hongk. (1861) 453; HOOK., Sp. Fil. 4 (1862) 6; BEDD., Fern. South. Ind. (1863) 40; HOOK. et BAK., Syn. Fil. (1867) 248, pro parte.

Dryopteris O. KUNTZE, Rev. Gen. Pl. 2 (1891) 812, pro parte.

Distrib. Asia & Africa.

31. **CYRTOMIUM FALCATUM** PRESL, Tent. Pter. (1836) 86; EATON, in Perry, Narr. Exp. China 2 (1856) 329; HOOK. f., in Benth. Fl. Hongk. in Lond. Journ. Bot. 9 (1857) 340; BEDD., Handb. Fern. Brit. Ind. (1892) 211; ROSENBL., Malay. Fern. (1908) 253; CHING, Pter. Kiangs. in Sinens. 3 (1933) 332.

Polypodium falcatum LINN. f., Suppl. Pl. Syst. Veg. 13 ed. (1781) 446; THUNB., Fl. Jap. (1784) 336, t. 36.

Aspidium falcatum SW., Schrad. Journ. 1800. 2 (1801) 31, et Syn. Fil. (1806) 43; WILLD., Sp. Pl. 5 (1810) 218; LANGUSD. et FISCH., Ic. Fil. (1818) 13, t. 15; HOOK. et ARNOT., Bot. Capt. Beech. Voy. (1830-41) 274; KUNZE, in Bot. Zeit. 6 (1848) 558; HOOK., Fil. Exot. (1857-59) t. 92; BENGH., Fl. Hongk. (1861) 454; METT., in Ann. Lugd. Bat. 1 (1864) 34; HOOK., Sp. Fil. 4 (1862) 40; HOOK. et BAK., Syn. Fil. (1867) 257; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 336; HARRINGT., in Journ. Linn. Soc. 16 (1877) 29; BAKER, in Journ. Bot. 23 (1885) 105; H. CHRIST, in Warb. Mons. 1 (1900) 76.

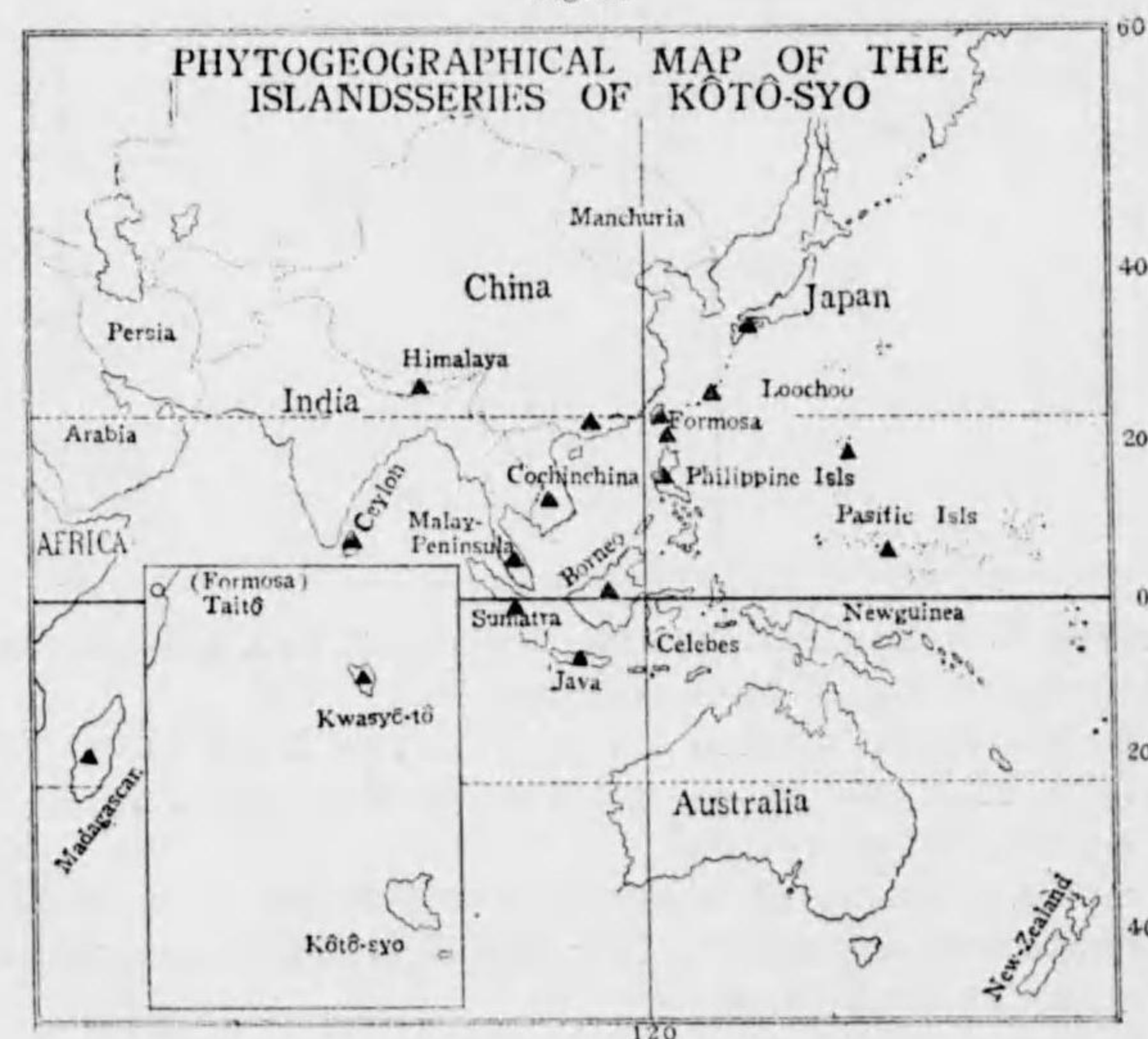
Dryopteris falcata O. KUNZE, Rev. Gen. Pl. 2 (1891) 812.

Aspidium falcatum var. *genuina* MAK., in Bot. Mag. Tokyo, 10 (1896) 212.

Polystichum falcatum DIELS, Fl. Centr.-Chin. in Engl. Bot. Jahrb. 29 (1898) 194, et Engl. u. Prantl, Nat. Pfl.-fam. 1.-4 (1899) 194; COPEL., Polyp. Philip. (1905) 18; C. CHRIST., Ind. Fil. (1905) 581; MATS. et HAY., Enum. Pl. Formos. (1906) 583; SASAKI, List Pl. Formos. (1928) 37, et Cat. Govt. Herb. (1930) 38; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 100; OGATA, Icon. Fil. Jap. 7 (1936) 338.

Polystichum falcatum DIELS, var. *genuina* MAK. Matsum., Ic. Pl. Jap. 1 (1904) 342; MAK. et NEM., Fl. Jap. (1925) 1657; MASAM., Fl. Geob. Stud. Yak. (1934) 61.

Fig. 31



Nom. Jap. Oni-sida.

Hab. Kwasyo-to, June 3, 1927. July 1935, S. Sasaki.

Distrib. India to Malaya, Pacific Isl. China, Loochoo, Bonin, Formosa.

Note: This species grows edges of the tidal forests, or on the rocks of coral reef, or shade places in the rock caves near the seashore.

RUMOHRA RADDI, Opusc. Sci. Bologn. 3 (1819) 290, t. 12 f. 1, et Pl. Bras. 1 (1825) 28, t. 43; DESV., Prodr. (1827) 262; CHING, Rev. Comp. Leav. Polyst. in Sinens. 5 (1934) 33.

Polystichum ROTH., Röm. Mag. 2. 1 (1799) 106; PRESL, Tent. Pterid. (1836) 84; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 193, pro parte.

Aspidium SWARTZE, Schrad. Journ. 1800 2 (1801) 37; KAULF., Enum. Filic. (1824) 253; DON, Prod. Fl. Nepal. (1825) 5; BLUME, Pl. Jav. (1828) 165; HOOK. et BAK., Syn. Fil. (1867) 248; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876-9) 240, 634, pro parte.

Nephrodium RICHL., in Marthe, Cat. Jard. Méd. Paris (1801) 120; MICHAUX, Fl. Bor. Am. 2 (1803) 266; PRESL, Rel. Haenk. 1 (1825) 37; HOOK. et BAK., Syn. Filic. (1867) 276, pro parte.

Polypodium BLUME, Pl. Jav. (1828) 195; HOOK., Sp. Filic. 4 (1862) 257, pro parte.

Lastrea MOORE, Ind. Fil. (1857) 88, pro parte.

Aspidium Rumohra H. CHRIST, Farnkr. d. Erde (1897) 242.

Distrib. Japan, Southern China, Formosa, Quelpaert, Java, Malaysia, Philippine, India, Himalaya, Assam, Pacific Isls, Natal, North America.

32. **RUMOHRA AMABILIS** CHING, Rev. Comp. Leav. Polyst. in

Sinens. 5 (1934) 41.

Aspidium amabile BL., Enum. Pl. Jav. (1828) 165; HOOK., Sp. Fil. 4 (1862) 27, t. 225; METT., in Ann. Lugd. Bat. 1 (1863-4) 227; MIQ., Prod. Fl. Jap. (1867) 340, 389; HOOK. et BAK., Syn. Fil. (1867) 254; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 232; HARRINGT., in Journ. Linn. Soc. 16 (1877) 29; CLARKE, Fern. North. Ind. (1880) 510; BAKER, in Journ. Bot. (1885) 105; HENRY, List Pl. Formos. (1896) 113; MAK., in Bot. Mag. Tokyo, 10 (1896) 286; H. CHRIST, Farnkr. d. Erde (1897) 240, in Bull. Herb. Boiss. 6 (1898) 191, et in Warb. Mons. 1 (1900) 78; COPEL., Polyp. Philip. (1905) 17; DUNN et TUTCHER, Fl. Kwangt. & Hongk. (1912) 345.

Aspidium rhomboideum WALL. List (1828) n. 268; METT., Farngatt. Pheg. u. Asp. (1858) 350; LUERS., in Engl. Bot. Jahrb. 4 (1883) 359.

Polystichum rhomboideum SCHOTT., Gen. Fil. ad. (1834) t. 9.

Lastrea amabilis MOORE, Ind. Fil. (1858) 85, BEDD., Fern. South. Ind. (1868) t. 109, et Handb. Fern. Brit. Ind. (1883) 228.

Aspidium controversum HANCE, Ann. Sci. Nat. 4-18 (1862) 235.

Polystichum amabile J. SM. Fern. Brit. & Fore. (1866) 152; DIELS, Fl. Centr. China (1898) 194, et in Engl. u. Prantl, Nat. Pfl.-fam. 1.-4 (1899) 193; H. CHRIST, in Bull. Acad. Geogr. Bot. (1902) 262; MATS., Ind. Pl. Jap. 1 (1904) 340; C. CHRIST., Ind. Fil. (1906) 578; MATS. et HAY., Enum. Pl. Formos. (1906) 582; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 123; MERR. et MERRITT, in Philip. Journ. Sci. Bot. 5 (1910) 317; MATH., in Journ. Linn. Soc. 39 (1911) 385; NAKAI, Enum. Fil. Quelp. in Bot. Mag. Tokyo, 28 (1914) 78; SAKAG., Gen. Ind. Fl. Okin. (1924)

114; MAK. et NEM., Fl. Jap. (1925) 1655, et 2 ed. (1931) 98; WU, Polyp. Yaoshan, in Bull. Dept. Boil. Sun Yatsen Univ. 3 (1932) 76 t. 29; MASAM., Fl. Geob. Stud. Yak. (1934) 60; OGATA, Icon. Fil. Jap. 7 (1936) 334.

Dryopteris amabilis O. KUNTZE Rev. Gen. Pl. 2 (1891) 812.

Nephrodium amabile HAND.-MZT., Symb. Sinic. 6 (1929) 26.

Nom. Jap. Kana-warabi.

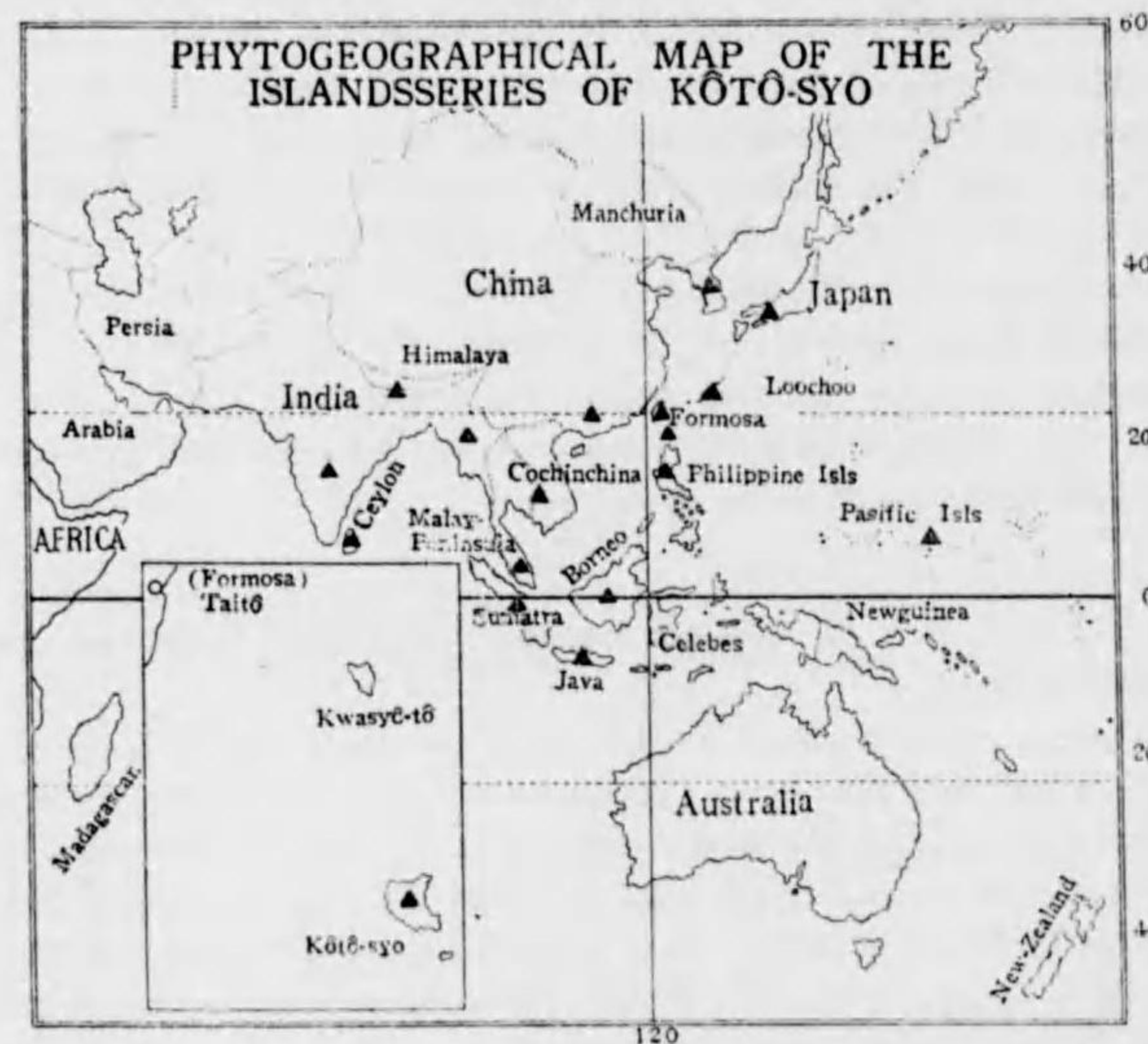
Serm. Nativ. Tobuo.

Hab. Kōtō-syo, June 1926, S. Sasaki; *ibid.* Dec. 1927, Y. Komuro.

Distrib. Widely distributed from Polynesia, Malaysia to India, China, Korea, Japan, Loochoo, Formosa.

Note: This species grows on the rock or in the neuter forests.

Fig. 32



33. RUMOHRA ARISTATA CHING, in Sinens. 5 (1934) 50.

Polypodium aristatum FORST., Prod. (1786) 82.

Aspidium aristatum SW., Schrad. Journ. 1800 2 (1801) 37; et Syn. Fil. (1806) 53, 252; WILLD., Sp. Pl. 5. (1810) 264; BLUME, Enum. Pl. Jav. 2 (1828) 166; METT., Farng. 4 Phegopt. u. Aspid. (1858) 47; BENTH., Fl. Hongk. (1861) 456; HOOK., Sp. Fil. 4 (1862) 27; HOOK. et BAK., Syn. Fil. (1867) 255; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 234; HARRINGT., in Journ. Linn. Soc. 16 (1877) 29; BENTH., Fl. Austr. 7 (1878) 757; CLARKE, Fern. North. Ind. (1880) 511; MAKINO, in Bot. Mag. Tokyo, 10 (1896) 286; H. CHRIST, in Warb. Mons. 1 (1900) 78; DUNN et TUTCH., Fl. Kwangt. & Hongk. (1912) 346; KANEH., Fl. Micron. (1933) 395.

Aspidium mucronatum DON, Prod. Fl. Nepal. (1825) 5.

Nephrodium aristatum PRESL, Rel. Haenk. 1 (1825) 37; HOPE, in Bomb. Journ. Nat.

Hist. Soc. 14 (1903) 720; HAND.-MZT. Symb. 6 (1929) 26 (non PRESL. 1826, nec HOOK. 1862)

Polystichum aristatum PRESL, Tent. Pter. (1836) 83; HOOK., Journ. Bot. (1857) 340;

CHRIST, in Bull. Herb. Boiss (1898) 6; DIELS, Fl. Centr. Chin. (1898) 194, et in Engl. u. Prantl, Nat. Pfl.-fam. 1-4 (1899) 193; COPEL., Polyp. Philip. (1905) 17; MATS. et HAY., Enum. Pl. Formos. (1906) 582; C. CHRIST., Ind. Fil. (1906) 578; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 3; MATH., in Journ. Linn. Soc. 39 (1911) 385; NAKAI, Fl. Kor. 2 (1911) 400, et in Bot. Mag. Tokyo, 28 (1914) 28; MAK. et NEM. Fl. Jap. (1925) 1655, et 2 ed. (1931) 98; MASAM., Fl. Geob. Stud. Yak. (1934) 61.

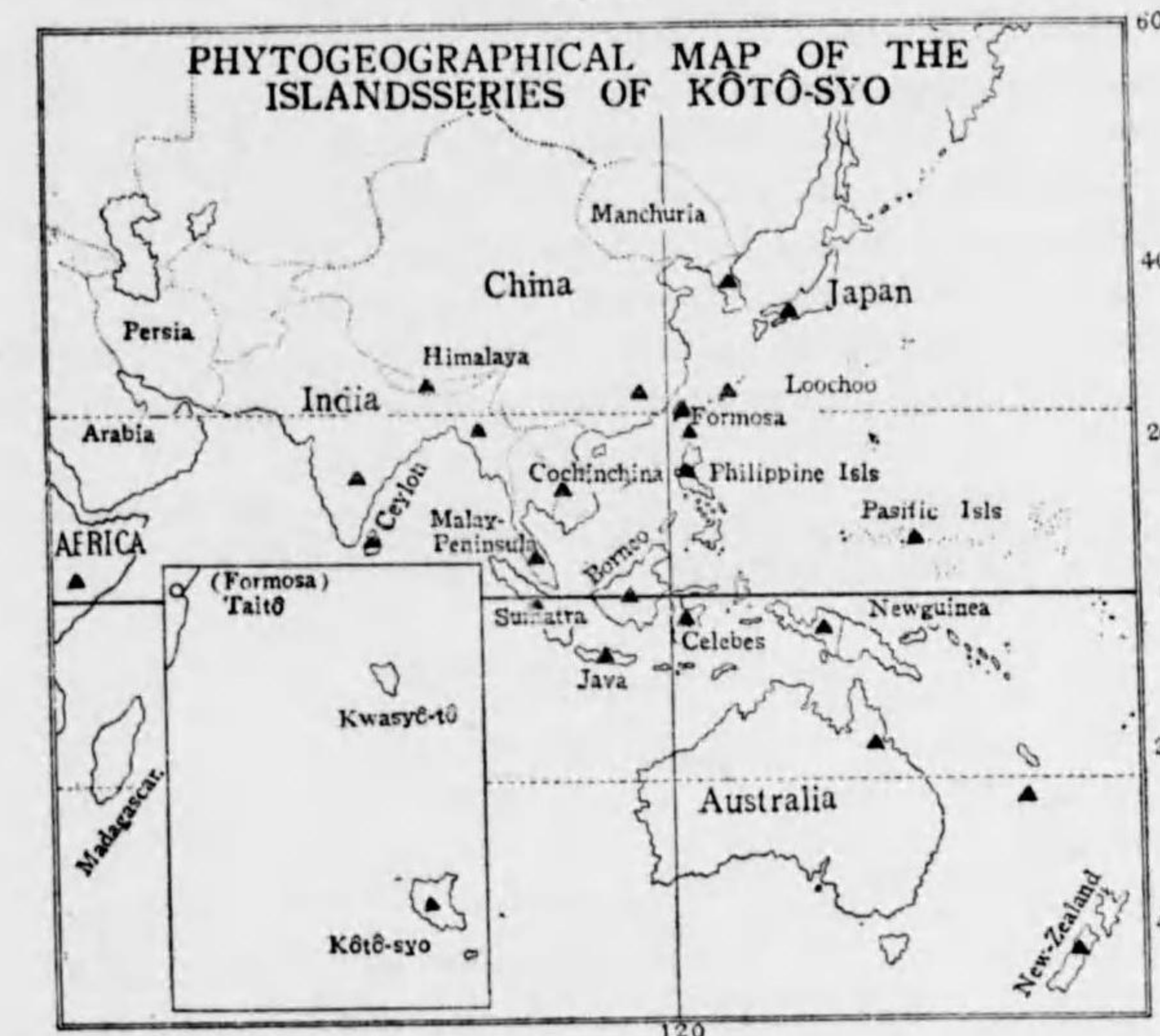
Lastrea aristata MOORE, Ind. Fil. (1858) 85; BEDD., Fern. South. Ind. (1864) t. 101, Handb. Fern. Brit. Ind. (1883) 229, et Suppl. (1892) 50.

Aspidium Maximowiczianum MIQ., Ann. Lugd. Bat. 3 (1867) 178.

Aspidium exile HANCE, in Journ. Bot. (1883) 268.

Dryopteris aristata O. KTZE, Rev. Gen. Pl. 2 (1891) 812; C. CHRIST., Contr. U. S. Nat. Herb. 26 (1931) 282.

Fig. 33



Nom. Jap. Hosoba-kanawarabi.

Hab. Kōtō-syo, June 1926, S. Sasaki.

Distrib. Japan, Korea, Loochoo, Formosa, China, Malaya, Philippine, Polynesia, Ceylon, New-Zealand.

Note: This species grows in the mountain foot forests, on the stone walls or waste places of all the island.

EGENOLFIA SCHOTT, Gen. Fil. (1834) tab. 16; J. SMITH, Hist. Filic. (1875) 131; COPEL., in Univ. California Publ. Bot. 16, 2 (1929) 64; NAKAI, in Bot. Mag. Tokyo, 47 (1933) 169.

Acrostichum LINN., Gen. Pl. (1737) 785, pro parte; HOOK., Sp. Fil. 5 (1864) 194, pro parte; HOOK. et BAK., Syn. Fil. (1868) 399, pro parte; BAKER, Fl. Maurit. (1877) 510, pro parte.

Polybotrya HUMB. et BONPL., in Willd. Sp. Pl. 5 (1810) 99, pro parte; BEDD., Fern. South. Ind. (1873) 66, et Handb. Fern. Brit. Ind. (1892) 424; C. CHRIST., Ind. Fil. (1906) 503, pro parte; ROSENB., Malay Fern. (1908) 722, pro parte.

Gymnogramma DESV., Berl. Mag. 5 (1811) 304, pro parte, KAULF., Enum. (1824) 69, pro parte; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 259, pro parte.

Lacaussadea GAUDICH., Voy. Bonite Bot. (1846) t. 118-120.

Distrib. Loochoo, Formosa, Hongkong, Philippines, Borneo, Celebes, Pacific Islands, Siam, Malay Peninsula, Burma, Sikkim and Northern India, South India, Ceylon, South Africa, Mauritius, Equador, Venezuela, Costalica, Peru and Other Tropical American regions.

34. **EGENOLFIA APPENDICULATA** J. SMITH, Fern. Brit. For. (1866) 16, Hist. Filic. (1875) 132; NAKAI, in Bot. Mag. Tokyo, 47 (1933) 169; SASAKI, in Trans. Nat. Hist. Soc. Formosa, 26 (1936) 60.

Acrostichum appendiculatum WILLD., Sp. Pl. 5 (1810) 114; HOOK., Sp. Fil. 5 (1864) 251; HOOK. et BAK., Syn. Fil. (1868) 415; RACIBOLSK. Flor. Btz. 1 (1898) 52.

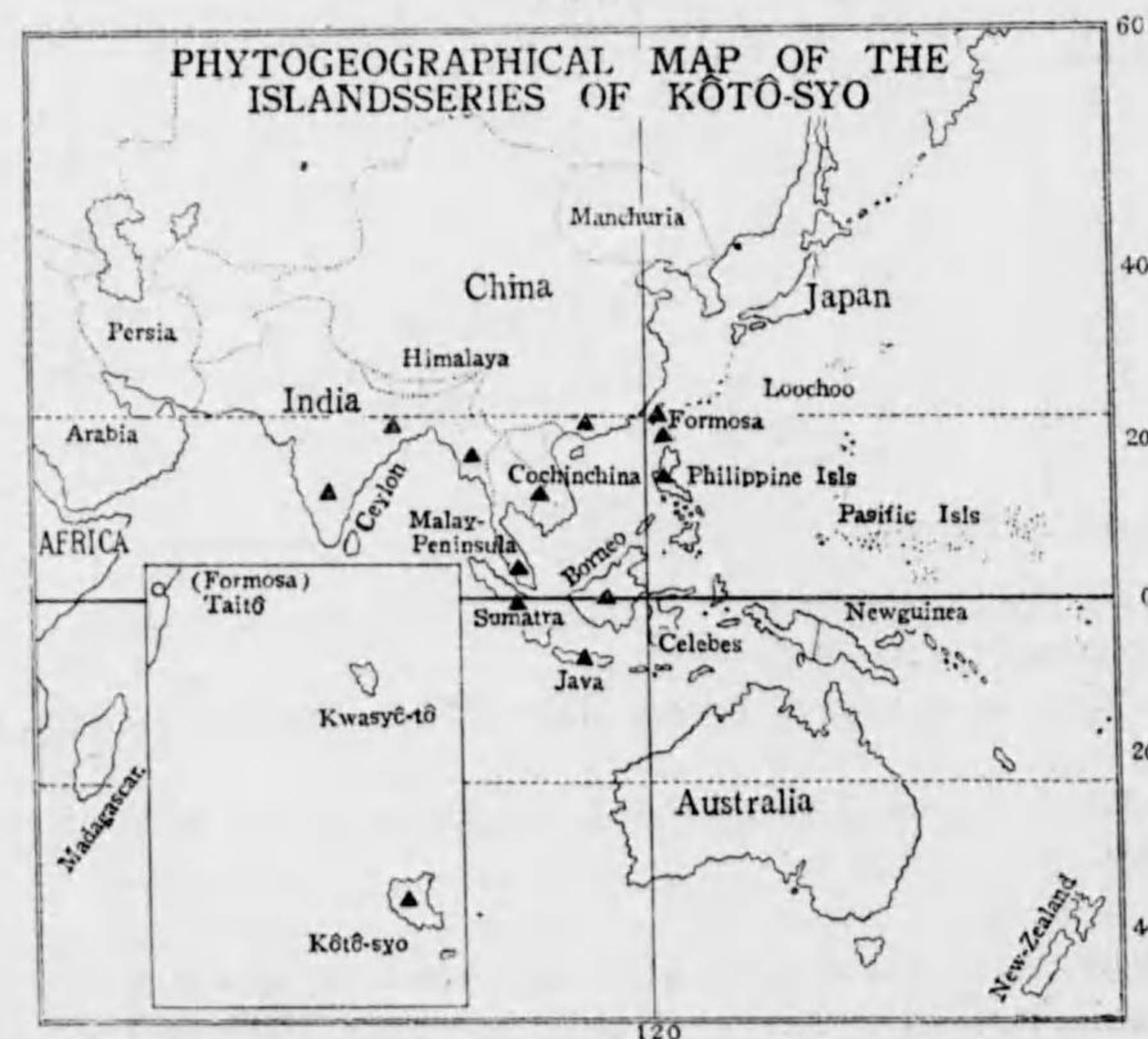
Gymnogramma rhizophylla KAULF., Enum. Fil. (1824) 78.

Gymnogramma auriculata KAULF., Enum. Fil. (1824) 79.

Polybotrya Hamiltonianum WALL., List (1828) n. 29.

Polybotrya marginata BLUME, Enum. Pl. Jav. (1828) 100, Fl. Jav. Filic. (1828) 18, t. 3; HAYATA, Icon. Pl. Formos. 5 (1915) 306; MAKINO et NEMOTO, Fl. Jap. (1925) 1642; OGATA,

Fig. 34



Icon. Filic. Jap. 2 (1929) 83.

Egenolfia Hamiltoniana SCHOTT, Gen. Filic. (1834) 16.

Polybotrya asplenifolia PRESL, Tent. Pterid. (1836) 231.

Polybotrya appendiculata J. SMITH, in Journ. Bot. 4 (1841) 150; BEDD., Handb. Fern. Brit. Ind. (1892) 424; H. CHRIST, Farnkr. d. Erde (1897) 43, in Warburg, Monsunia I (1900) 56; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 102; COPEL., Polyp. Philip. (1905) 40; C. CHRIST., Ind. Filic. (1906) 503; MATSUM. et HAY., Enum. Pl. Formos. (1906) 585; ROSENB., Malay Fern. (1908) 724; MAK. et MEN., Fl. Jap. 2 ed. (1931) 84.

Polybotrya intermedia J. SMITH, in Hook. Journ. 3. (1841) 401.

Lacaussadea appendiculata GAUD., Voy. Bonite (1846) t. 119.

Polybotrya Helferiana KUNZE, Farnkr. 2 (1848) 35, t. 114.

Egenolfia asplenifolia FÉE, Gen. Filic. (1850) 48; J. SMITH, Hist. Filic. (1875) 132.

Egenolfia intermedia FÉE, l. c.

Egenolfia Schottii FÉE, l. c.

Egenolfia marginata FÉE, l. c. 358.

Egenolfia montana FÉE, l. c.

Egenolfia appendiculata var. *Helferiana* KUNZE. apud H. Christ, in Bull. Herb. Boiss. 2 ser, 4 (1904) 610.

Nom. Jap. Okinawa-kizinowo.

Hab. Kōtō-syo, July 1912. S. Sasaki.

Distrib. Formosa, Japan, Hongkong, Malaya to India.

Note: This species grows shade and wet places in the neuter forests.

CAMPIMUM PRESL, Tent. Pterid. (1836) 238; COPELAND, Leptochilus, in Philip. Journ. Sci. 37. 4 (1928) 341.

Acrostichum LINN., Gen. Pl. (1737) 785, Sp. Pl. (1753) 1067; BAIL., Queensl. Fl. 6 (1902) 1992, pro parte.

Hemionitis (non LINN.) AFZELIUS, Apud. Swartz, in Schrad. Journ. (1801) 17.

Leptochilus KAULF., Enum. (1824) 147, pro parte.

Poecilopteris FÉE, Tent. Pter. (1836) 241, pro parte.

Gymnopteris PRESL, Tent. Pter. (1836) 244, t. 11, fig. 6, pro parte; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 198.

Cyrtogonium J. SMITH, in Journ. Bot. 3 (1841) 402, pro parte.

Heteroneuron FÉE, Hist. Acrost. (1845) 20, 91, pro parte.

Chrysodium FÉE, Hist. d'Acrost. (1845) 22, pro parte.

Distrib. Tropical Asia include Malaysia & Polynesia, New-Guinea, Tropical America and Madagascar.

35. **CAMPIMUM HETEROCLITUM** COPEL., Leptochilus & Gen. Conf. in Philip. Journ. Sci. 37 (1928) 359; KANEH., Fl. Micron. (1933) 393.

Acrostichum heteroclitum PRESL, Rel. Haenk. 1 (1825) 15, pl. 2, fig. 2.

Acrostichum flagelliferum WALL., Hook. & Grevil. Ic. Fil. (1829) pl. 23.

Gymnopteris repanda (non CHRIST) YABE, in Bot. Mag. Tokyo, 16 (1902) 48; HATTORI,

l. c. 16; KAWAKAMI et SASAKI l. c. 23.

Leptochilus cuspidatus var. *crenatus* (non ROSENST) HEDWING. 56 (1911) 333; HAY., Icon. Pl. Formos. 8 (1919) 150, pro parte.

Leptochilus cuspidatus (non CHRIST) HAY., Gen. Ind. Fl. Formos. (1916) 109; MAKINO et NEMOTO, Fl. Jap. (1925) 1631, et 2 ed. (1931) 75; SASAKI, List Pl. Formos. (1928) 27, et Catal. Govt. Herb. (1930) 27; OGATA, Icon. Filic. Jap. 6 (1935) 278.

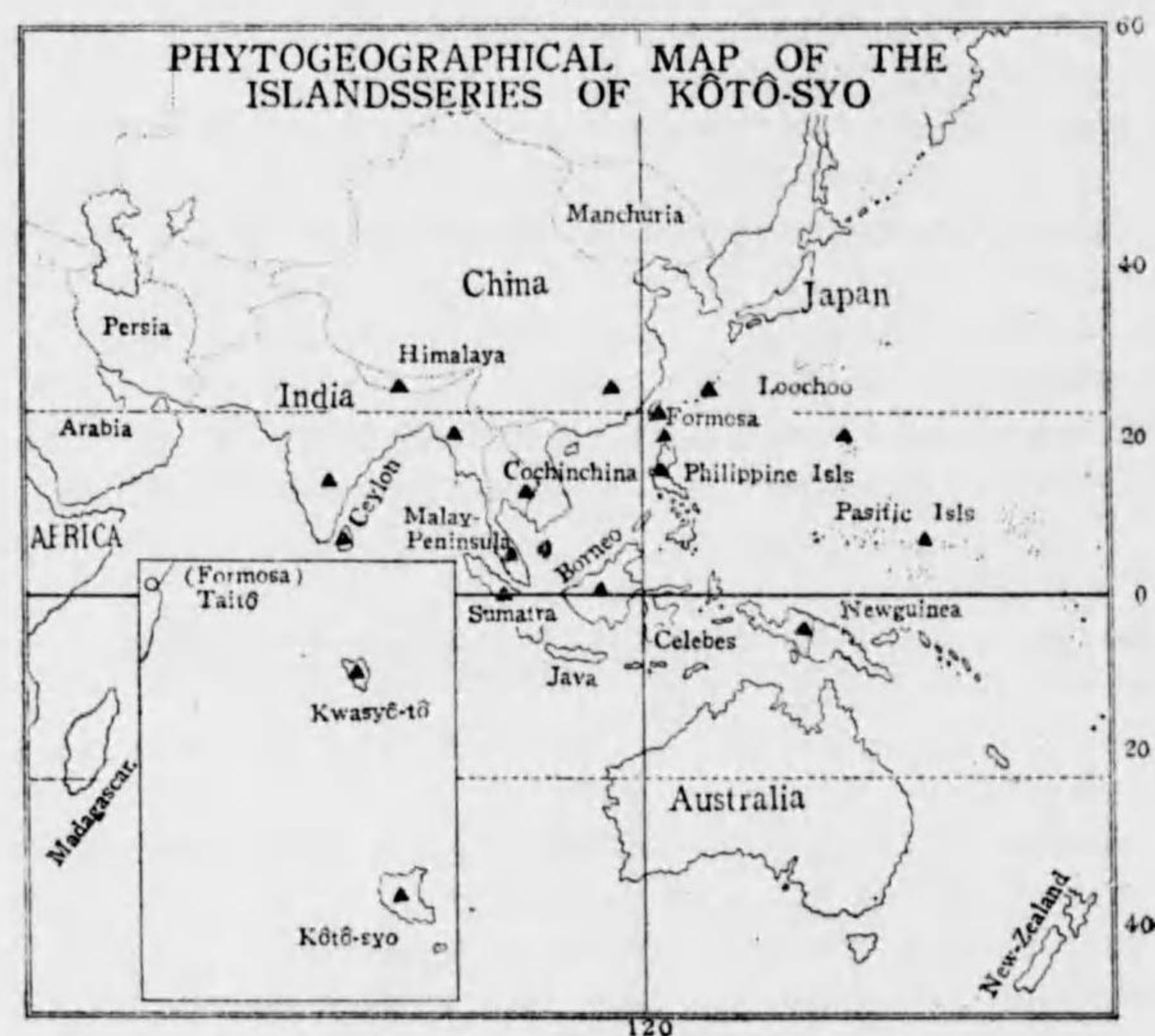
Nom. Jap. Oo-hekkasida.

Hab. Kōtō-syo, June 5, 1926, Oct.-Nov. 1934, S. Sasaki; Kwasyō-tō, July 6, 1935, S. Sasaki.

Distrib. Loochoo, Bonin, Formosa, Malaya to India, Ceylon, Himalaya, China, Philippine, Papua.

Note: This species grows rather shade places in the neuter forests.

Fig. 35



DIPTERIS REINWARDT, Sylloge Pl. 2 (1824) 3; BEDD., Handb. Fern. Brit. Ind. (1892) 334; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 202; COPEL., Polyp. Philip. (1905) 44; ROSENBL., Malay. Fern. (1908) 521.

Polypodium HOOK., Sp. Filic. 4 (1862) 163, pro parte.

Distrib. Malaya to Formosa and Polynesia.

36. **DIPTERIS CONJUGATA** REINW., Syll. Pl. 2 (1824) 3; H. CHRIST, Farnkr. d. Erde (1897) 123, f. 48, et in Warburg, Monsunia 1 (1900) 64; COPEL., Polypod. Philip. (1905) 44; MERR., in Philip. Journ. Sci. Bot. 1 (1906) 15; C. CHRIST., Ind. Filic. (1906) 242; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 124; ROSENBL., Malay. Fern. (1908) 523; H. CHRIST, in Nova

Guinea, 8. Bot. 1 (1909) 156; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 77; HAYATA, Mater. Fl. Formos. (1911) 429; ROSENSTOCK, in Nova Guinea, 8. Bot. 4 (1913) 729; ROSENBL., in Philip. Journ. Sci. Bot. 11 (1916) 107; MAKINO et NEMOTO, Fl. Jap. (1925) 1607, et 2 ed. (1931) 50; NAKAI, in Bot. Mag. Tokyo, 42 (1928) 126; OGATA, Icon. Filic. Jap. 6 (1935) 266.

Polypodium conjugata KAULF., Wes. d. Farnkr. (1827) 104.

Polypodium Horsfieldii R. BROWN, in Wall., l. c. (1828) 286; R. BROWN, in Horsfield, Pl. Journ. Rar. (1838) t. 1.; HOOK., Sp. Filic. 5 (1864) 99.

Polypodium Dipteris BLUME, Enum. Pl. Jav. 2 (1828) 135, et Fl. Jav. Fil. 2 (1829) 174, t. 81; HOOK. et BAKER, Syn. Filic. (1868) 362; RACIBORSK., Pterid. Fl. Buitenz. 1 (1898) 108.

Drynaria Horsfieldii R. BROWN, apud. Smith in Hook. Journ. Bot. 3 (1841) 398.

Dipteris Horsfieldii BEDD., Fern. Brits. Ind. 2 (1868) t. 321, et Handb. Fern. Brit. Ind. (1892) 336.

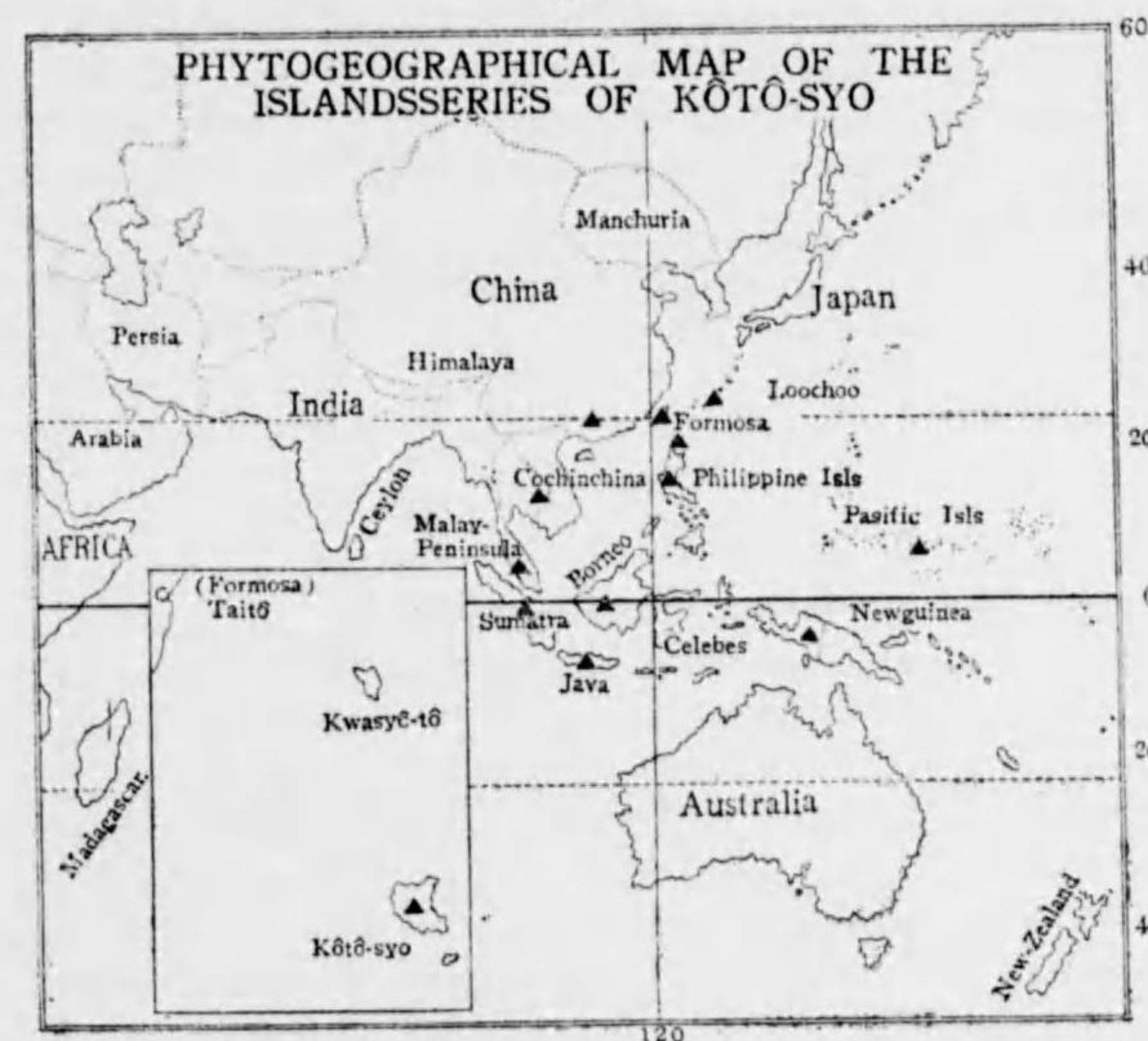
Nom. Jap. Yaburegasa-urabosi.

Hab. Kōtō-syo, June 1926, S. Sasaki.

Distrib. Loochoo, Formosa, Malay Archipelago & Peninsula, Tropical Asia, Polynesia.

Note: This species grows for association when opened the forests summit of Mt. Kōtō-san only.

Fig. 36



NEPHROLEPIS SCHOTT, Gen. Filic. (1834) t. 3; HOOK. et BAKER, Syn. Filic. (1867) 300; BAKER, Fl. Maurit. (1877) 493; BEDD., Handb. Fern. Brit. Ind. (1892) 282; J. SMITH, Fern. (1896) 164; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 205; COPEL.,

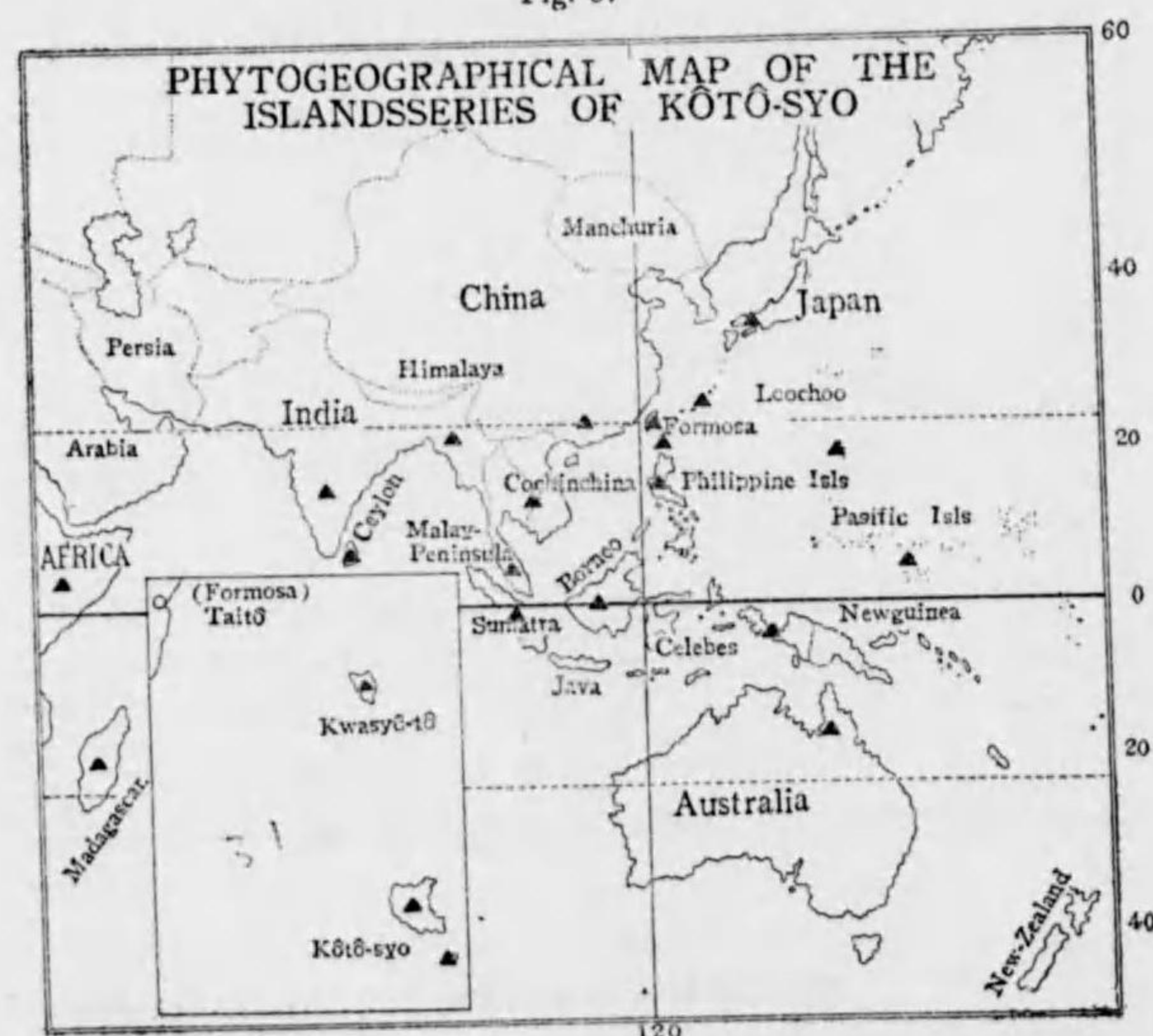
- Polyp. Philip. (1905) 46; ROSENB., Malay. Fern. (1908) 155; MERR., Fl. Manila, (1912) 48.
Aspidium SWARTZ, Schrad, Journ. 1800 2 (1801) 29; BAIL., Queensl. Fl. 6 (1902) 1974, pro parte.
Hypopeltis MICH., Fl. Bor. Am. 2 (1803) 226, pro parte.
Nephrodium PR., Rel. Haenk. 1 (1825) 31, pro parte.
Leptopleuria PRESL, Tent. Pterid. (1836) 136.
Isoloma J. SMITH, Journ. Bot. 3 (1841) 414, pro parte.
Lepidoneuron FÉE., Gen. Fil. (1850-52) 301.
Cardiostegia MOORE, Ind. (1857) 90.

Distrib. Madagascar, Malay, Celebes, Australia, Tropical Africa, Sumatra, Java, Amboina, New-Guinea, New-Zealand, Japan, Formosa, Loochoo, Tropical Asia, Philippine.

37. **NEPHROLEPIS BISERRATA** SCHOTT, Gen. Fil. ad. (1834) t. 3, et Etting. Farm. (1865) tt. 134, 145; MAKINO, in Bot. Mag. Tokyo, 9 (1895) 12; SMITH, Fern. (1896) 165; C. CHRIST., Ind. Fil. (1906) 453; MERR., Pl. Bat. Bab. Isl. in Philip. Journ. Sci. Bot. 3 (1908) 390; ROSENB., Malay. Fern. (1908) 162; H. CHRIST., in Nova Guinea, 8. Bot. 1 (1909) 159; MATH., in Journ. Linn. Soc. 39 (1911) 374; COPEL., Pap. Fern. in Philip. Journ. Sci. Bot. 6 (1911) 81; ROSENSTOCK, in Nova Guinea, 8. Bot. 4 (1913) 724; GATES, Pion. Veg. Tabl. Volc. in Philip. Journ. Sci. Bot. 9 (1914) 422; MAKINO et NEMOTO, Fl. Jap. (1925) 1637, et 2 ed. (1931) 80; MASAM., Fl. Geob. Stud. Yak. (1934) 63.

Aspidium biserratum SWARTZ, Schrad. Journ. 1800 2 (1801) 32.

Fig. 37



- Aspidium acutum* SCHUKUR, Vier Zwanz. Klas. Linn. Pfl.-Syst. Krypt. Gew. 1 (1806) 32, t. 31.
Aspidium splendens WILLD., Sp. Pl. 5 (1810) 220.
Nephrodium biserratum PRESL, Pter. Reliq. Haenk. 1 (1825) 31.
Nephrolepis splendens DESV., Prodr. Faug. (1827) 253.
Nephrolepis acuminata PRESL, Tent. Pter. (1836) 79.
Nephrolepis acuta PRESL, *ibid.*; HOOK., Sp. Fil. 4 (1862) 153; HOOK. et BAK., Syn. Fil. (1867) 301; BEED., Fern. South. Ind. (1873) 33, t. 94; CLARKE, Fern. North. Ind. (1880) 541; BAKER, in Journ. Bot. (1885) 49; BEDD., Handb. Fern. Brit. Ind. (1892) 284; HENRY, List Pl. Formos. (1896) 114; RIDL., Fl. Singap. (1900) 192; H. CHRIST., in Warb. Mons. 1 (1900) 84; YABE, in Bot. Mag. Tokyo, 16 (1902) 49; MATSUM., Ind. Pl. Jap. 1 (1904) 328; COPEL., Polyp. Philip. (1905) 47; MATSM. et HAY., Enum. Pl. Formos. (1906) 587; DUNN et TUTCH., Fl. Kwangt. & Hongk. (1912) 349; KAWAK. et SASAK. l. c. (1915) 23; KANEH., Fl. Micron. (1933) 394.
Nephrolepis ensifolia PRESL, Tent. Pter. (1836) 79.
Nephrolepis gibbosa PRESL, *ibid.*
Nephrolepis paraensis PRESL, *ibid.*
Nephrolepis punctulata PRESL, *ibid.*, t. 2 f. 14.
Nephrolepis Sieberi PRESL, *ibid.*
Nephrolepis splendens PRESL, *ibid.*
Nephrolepis Zollingeriana DE VRIESE, Bijdr. Kenn. Fl. Sum (1846) 10.
Nephrolepis platyotis KUNZE, in Linn. 23 (1850) 268, 312.
Nephrolepis mauritiana MOORE, Ind. Fil. (1858) 96.
Nephrolepis rufescens WAWRA, Maxim. Reise. (1866) 200, f. 101.

Nom. Jap. Hōbi-kwanzyu.

Hab. Kōtō-syō, June 1910, May 1924, June 1926, S. Sasaki!; Kwasyō-tō, Aug. 1907, Z. Kobayasi, no. 1393; July 5, 1935, S. Sasaki; Syō-kōtōsyō, July 1911, June 1926, S. Sasaki.

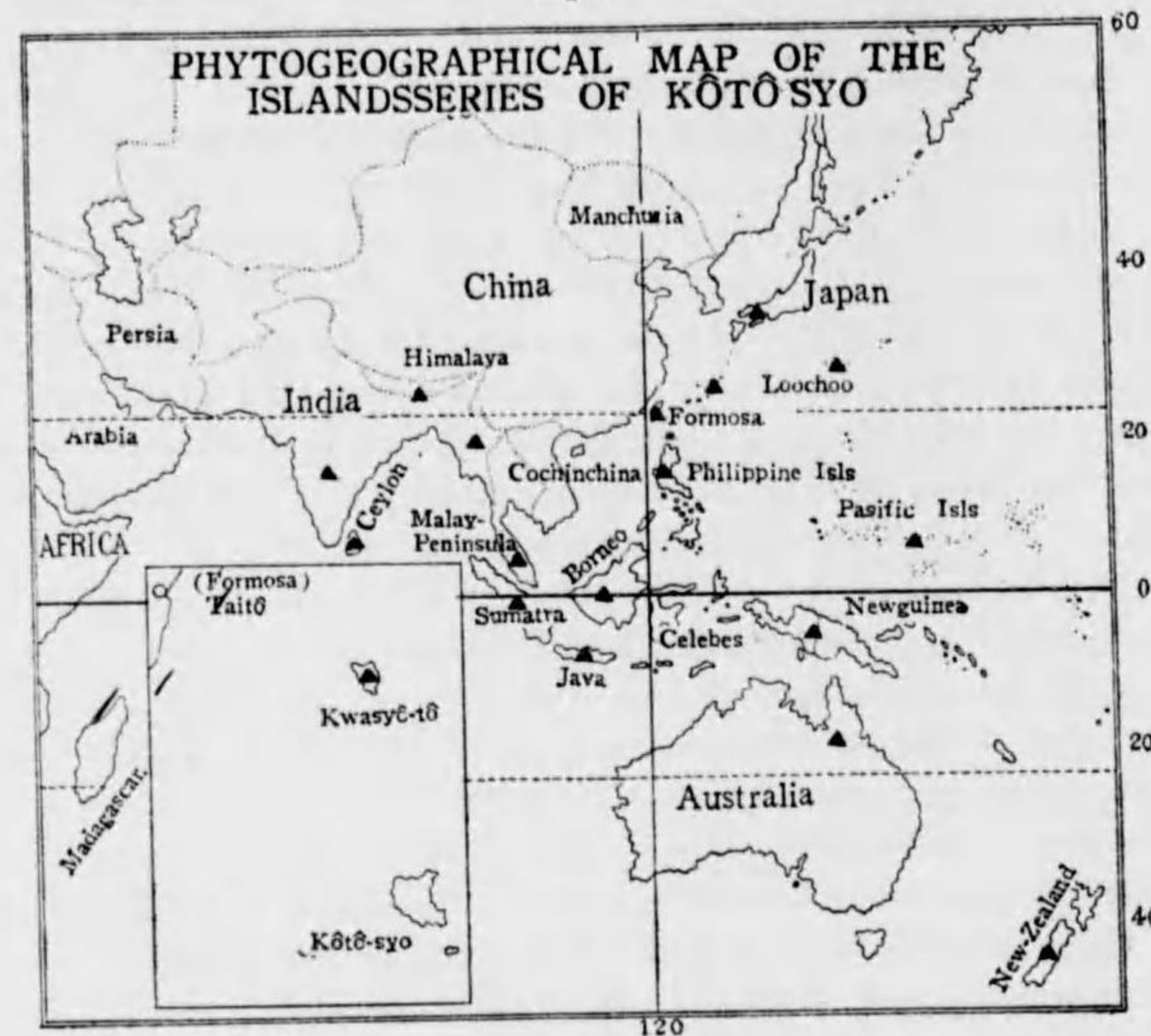
Distrib. Japan, Bonin, Loochoo, Formosa, China and other all tropical countries.

Note: This species grows waste shade places and on rocks or on the barks of trees.

38. **NEPHROLEPIS CORDIFOLIA** PRESL, Tent. Pter. (1836) 79; HOOK. et BAK., Syn. Fil. (1867) 300; BAKER, Fl. Maurit. (1877) 493; LUERSS, in Engl. Bot. Jahrb. 4 (1883) 360; BAKER, in Journ. Bot. 23 (1885) 105; BEDD., Handb. Fern. Brit. Ind. (1892) 282; BAIL., Lithogr. Fern. Queensl. (1892) 122; HENRY, List Pl. Formos. (1896) 114; DIELS., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 206; H. CHRIST., Warb. Mons. 1 (1900) 84; BAIL., Queensl. Fl. (1902) 1975; MATSUM., Ind. Pl. Jap. 1 (1904) 328; COPEL., Polyp. Philip. (1905) 46; MATSUM. et HAY., Enum. Pl. Formos. (1906) 588; COPEL., in Philip. Journ. Sci. 1. Suppl. (1906) 15, et Bot. 2 (1907) 4; ROSENB., Malay. Fern. (1908) 160; H. CHRIST., in Nova Guinea, 8. Bot. 1 (1909) 158; MERR. et MERRITT, l. c. 5 (1910) 318; COPEL., l. c. 6 (1911) 81; MATH., in Journ. Linn. Soc. 39 (1911) 374; DUNN et TUTCH., Fl. Kwangt. & Hongk. (1912) 349; MERR., Fl. Manila, (1912) 49, et Fl. Manila, in Philip. Journ. Sci. Bot. 7 (1912) 179; MAKINO et NEMOTO, Fl. Jap. (1925) 1637; MERR., Hainan Pl. (1927) 11; NAKAI, in Bull. Biogr. Soc. Jap. 1 (1930) 252; MAKINO et NEMOTO, l. c. 2 ed. (1931) 80; MASAM., Fl. Geob. Stud. Yak. (1934) 64.

Polypodium cordifolium LINN., Sp. Pl. 2 (1753) 1089.

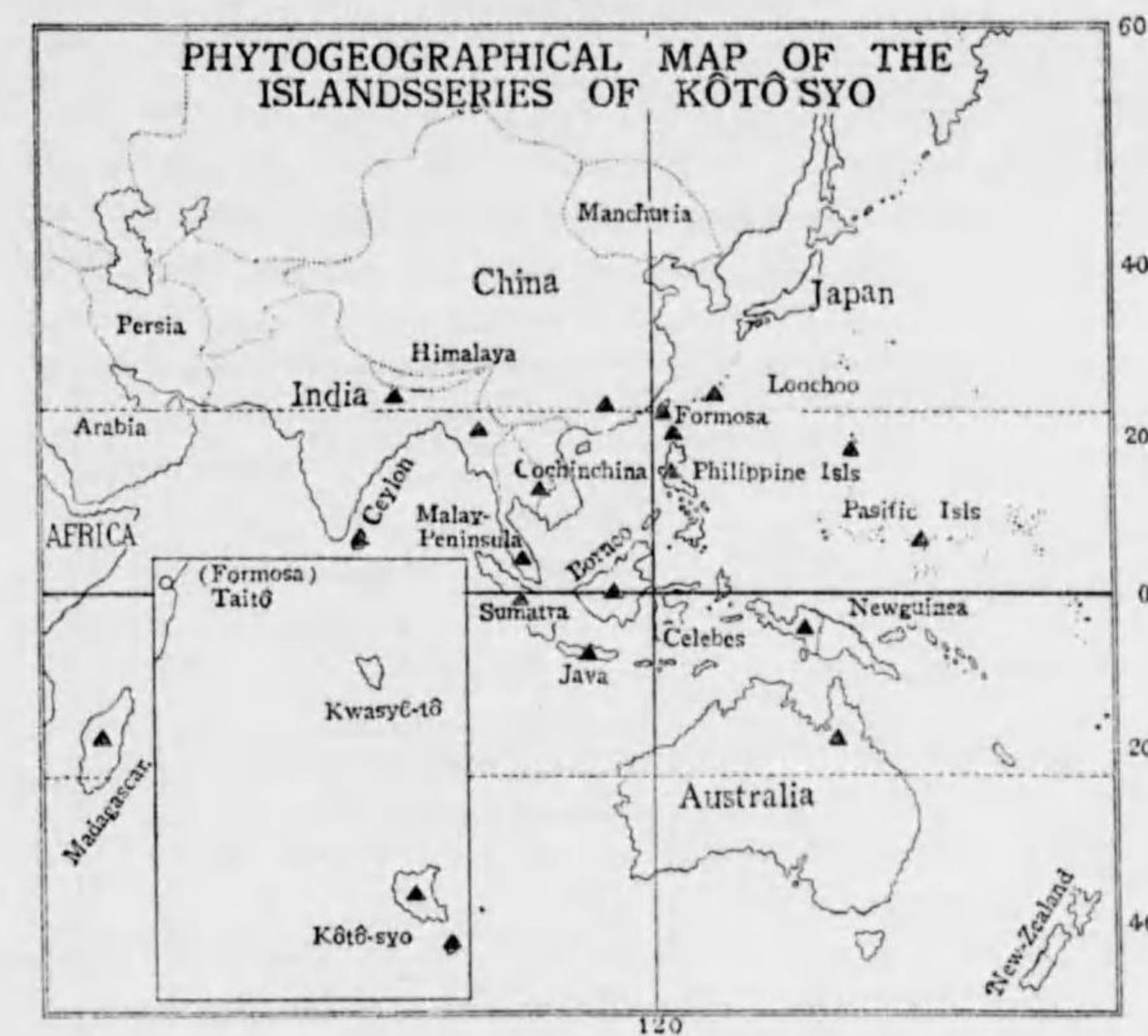
Fig. 38



- Aspidium cordifolium* SWARTZ, Schrad. Journ. 1800 2 (1801) 32; BENTH., Fl. Austral. 7 (1878) 754.
- Aspidium undulatum* AFZ., Swartz, in Schrad. Journ. 1800 2 (1801) 32.
- Aspidium tuberosum* BORY, Willd. Sp. Pl. 5 (1810) 234.
- Aspidium pendulum* RADDI, Opusc. Sci. Bol. 3 (1819) 289; MAURIT., Pl. Basil. 1 (1825) 30, f. 45.
- Nephrodium edule* DON, Prodr. Fl. Nepal. (1825) 5.
- Nephrodium pendulum* DESV., Prodr. (1827) 252.
- Nephrodium tuberosum* DESV., ibid.
- Aspidium imbricatum* KAULF., Spr. Syst. 4 (1827) 97.
- Aspidium sublanosum* WALL., List (1828) n. 365.
- Aspidium Tavoyanum* WALL. List (1828) n. 1032.
- Aspidium auriculatum* WALL. List (1829) n. 2233.
- Nephrolepis tuberosa* PRESL, Tent. Pter. (1836) 79; MIQ., in Ann. Mus. Bot. Lugd. 3 (1867) 179; BEDD., Fern. South. Ind. 2 ed. (1873) t. 92; HOOK., Sp. Fil. 4 (1862) 151; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 243; RACIBORS., Pter. Fl. Buitenz. 1 (1898) 199.
- Nephrolepis pendula* J. SMITH, in Journ. Bot. 4 (1841) 197.
- Nephrolepis delicatula* DCNE, in Jacquem. Voy. Bot. (1844) 178, t. 179.
- Nephrolepis pluma* MOORE, in Gard. Chron. 9 (1878) 588, f. 68.
- Nom. Jap. Tama-sida.
- Hab. Kwasyô-tô, Jan. 1929, S. Sasaki.
- Distrib. Japan, Loochoo, Bonin, Formosa, China & other pan-tropical countries.
- Note: This species grows every waste places especially on the edges of the stone walls.

39. *NEPHROLEPIS EXALTATA* SCHOTT, Gen. Fil. (1834) t. 3; METT., Fil. Hort. Bot. Lips. (1856) 100; LOWE, Fern. Brit. Exot. 7 (1859) 49; HOOK., Spl. Fil. 4 (1862) 152; HOOK. et BAK., Syn. Fil. (1867) 301; BEDD., Fern. South. Ind. (1873) 33, t. 93; EATON, Fern. N. Amer. 2 (1880) 129, t. 63; CLARKE, Fern. North. Ind. (1880) 541; BEDD., Handb. Fern. Brit. Ind. (1892) 282; SMITH., Fern. (1896) 164; HENRY, List Pl. Formos. (1896) 114; RACIBORSK., Pterid. Fl. Buitenz. 1 (1898) 200; H. CHRIST, in Warb. Mons. 1 (1900) 84; YABE, in Bot. Mag. Tokyo, 16 (1905) 49; COPEL., Polypod. Philip. (1905) 47; MATSUM. et HAY., Enum. Pl. Formos. (1906) 588; ROSENBL., Malay. Fern. (1908) 161; H. CHRIST, in Nova Guinea, S. Bot. 1 (1909) 159; KAWAK. et SASAKI, l. c. 23; MAKINO et NEMOTO, Fl. Jap. (1925) 1637, et 2 ed. (1931) 80.

Fig. 39



- Polypodium exaltatum* LINN., Syst. Nat. Holm. ed. 10. 2 (1759) 1326.
- Aspidium exaltatum* SWARTZ, Syn. Fil. (1806) 45; SCHKUHR, Linn. Krypt. Gew. (1809) t. 32 B.; BENTH., Fl. Austral. 7 (1878) 754; RADD., Syn. Fil. Bras. (1819) t. 46; HOOK. et ARNOT., Bot. Beech. Voy. (1830-41) 274; BAIL., Queensl. Fl. (1902) 1975.
- Nephrodium exaltatum* R. Br., Prodr. Fl. Nov. Holl. (1810) 148.
- Nom. Jap. Yanbaru-tamasida.
- Hab. Kôto-syo, May 1923 et June 1926, S. Sasaki!; Syô-kôto-syo, July 1911, June 1926, S. Sasaki.
- Distrib. Bonin, Loochoo, Formosa, North America, Cent. America, Brasil, Polynesia, Malaya, N. India and Chusan to Queensland and Ceylon, Mauritius, Angola, Zambesi-land, Guinea Coast.
- Note: This species grows always waste places especially edge of the stone walls.
- HUMATA** CAVANILLES, Descript. Pl. (1802) 272; BEDD., Fern. South. Ind. (1863) 4, et Handb. Fern. Brit. Ind. (1892) 46; J. SMITH, Fern. (1896) 75; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 208; COPEL., Polyp. Philip. (1905) 49; ROSENBL., Malay. Fern. (1908) 284.

Davallia SMITH, Mém. Acad. Turin 5 (1793) 414, pro parte; HOOK., Gen. Filic. (1839) 27, pro parte, et Sp. Filic. 1 (1846) 151, pro parte; BENTH., Fl. Hongk. (1861) 461, pro parte; HOOK. et BAK., Syn. Filic. (1867) 88, pro parte; BAK., Fl. Austral. 7 (1878) 715, pro parte.

Nephrodium RICHT., in Marthe Cat. Jahd. Méd. Paris (1801) 120, pro parte.

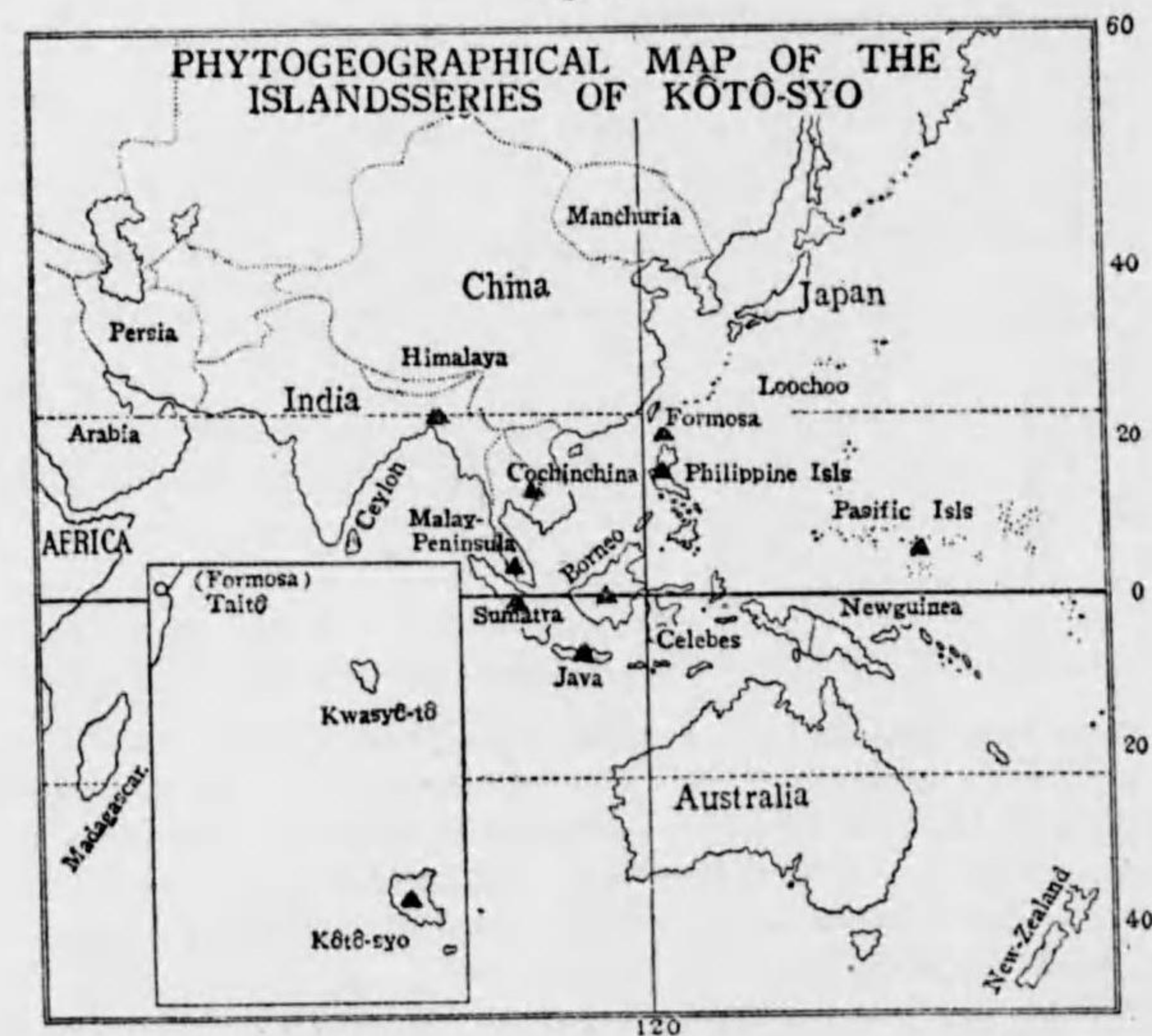
Pachypleuria PRESL, Epim. Bot. Prag. (1849) 98.

Pteronervon FÉE, Gen. Filic. (1850-52) 320.

Distrib. Old World tropical.

40. *HUMATA GAIMARDIANA* J. SMITH, in Hook. Journ. Bot. 1 (1842) 425; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 208, f. 112, a. b. h; COPEL., Polyp. Philip. (1905) 50; C. CHRIST., Ind. Fil. (1906) 353; COPEL., Comp. Ecol. San Ram. Polyp. in Philip. Journ. Sci. Bot. 2 (1907) 4; ROSENBERG., Malay. Fern. (1908) 286; COPEL., Pap. Fern. in Philip. Journ. Sci. Bot. 6 (1911) 51; ROSENBERG., Amb. Pter. in Philip. Journ. Sci. Bot. 11 (1916) 108; KANEH., Fl. Micron. (1933) 394; SASAKI, in Trans. Nat. Hist. Soc. Formos. 26 (1936) 63.

Fig. 40



Nephrodium Gaimardiana GAUDICH., Bot. Freyc. Voy. (1827) 335, t. 12, f. 1.

Davallia intermarginalis BL., Enum. Pl. Jav. (1828) 230.

Davallia parallela WALL., List (1828) n. 251; HOOK., Sp. Fil. 1 (1846) 153; HOOK. et BAK., Syn. Fil. (1867) 89.

Pachypleuria intermarginalis PRESL, Epim. Bot. (1849) 98.

Pachypleuria parallela PRESL, ibid. 98.

Pteroneuron parallelum FÉE, Gen. (1850-52) 320, t. 25 b. f. 1.

Humata parallela BRACK., Fil. Charles Wilkes. U. S. Exped. 16 (1854) 229;

BEDD., Fern. Brit. Ind. 1 (1868) pl. 99, & Handb. Fern. Brit. Ind. (1892) 47.

Oleandra parallela KEYS., Polyp. Cyath. Herb. Bung. (1873) 41.

Nom. Jap. Kōtō-sinobu.

Hab. Kōtō-syō, in silvis, June 24, 1929, S. Sasaki.

Disturb. India, Ceylon, Burma to Malay and Polynesia.

Note: This species very rare grows in this island, epiphyte on the barks of evergreen trees at Mt. Oomori-yama.

DAVALLIA SMITH, Mém. Acad. Turin 5 (1793) 414; WILLD., Sp. Pl. 5 (1810) 494; HOOK., Gen. Filic. (1839) 27; BENTH., Fl. Hongk. (1861) 461; BEDD., Fern. South. Ind. (1863) 5; HOOK., Handb. New-Zeal. Fl. (1867) 358; HOOK. et BAK., Syn. Filic. (1867) 88; BENTH., Fl. Austral. 7 (1878) 714; BEDD., Handb. Fern. Brit. Ind. (1892) 58; SMITH, Fern. (1896) 75; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 212; BAIL., Queensl. Fl. 6 (1902) 1950; COPEL., Polyp. Philip. (1905) 52; ROSENBERG., Malay. Fern. (1908) 296; MERR., Fl. Manila, (1912) 50.

Trichomanes LINN., Sp. Pl. (1753) 1097, pro parte.

Wibelia BERNH., Schrad. Journ. 1800. 2 (1801) 122.

Humata CAVAN., Descript. P. (1802) 272; pro parte.

Acrophorus PRESL, Tent. Pter. (1836) 93, pro parte.

Leucostegia PRESL, Tent. Pter. (1836) 94.

Colposoria PRESL, Tent. Pter. (1836) 128.

Stenolobus PRESL, Tent. Pter. (1836) 130.

Prosaptia PRESL, Tent. Pter. (1836) 165.

Parestia PRESL, Epim. Bot. (1849) 99.

Scyphularia FÉE, Gen. Fil. (1850-52) 324.

Distrib. Tropical Africa & Asia to Polynesia.

41. *DAVALLIA SOLIDA* SWARTZ, in Schrad. Journ. 1. 1800. 2 (1801) 87, et Syn. Filic. (1806) 132, & 345; WILLD., Sp. Pl. 5 (1810) 470; HOOK. et ARNOT., Bot. Capt. Beech. Voy. (1830-41) 75; HOOK., Sp. Filic. 1 (1846) 163, t. 42. b.; METT., Hort. Bot. Lips. (1856) 101; HOOK., Filic. Exot. (1857-59) 57; LOWE, Ferns Brit. Exot. 8 (1860) 81; HOOK. et BAKER, Syn. Filic. (1867) 95; BEDD., Fern. Brit. Ind. 1 (1868) t. 104; BENTH., Fl. Austr. 7 (1878) 715; BEDD., Handb. Fern. Brit. Ind. (1892) 59; SMITH, Fern. Brit. Foreign, (1896) 76; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 137; RIDLEY, Fl. Singap. (1900) 189; H. CHRIST, in Warburg, Monsunia 1 (1900) 86; YABE, in Bot. Mag. Tokyo, 16 (1902) 48; BAIL., Queensl. Fl. 6 (1902) 1951; COPEL., Polyp. Philip. (1905) 53; C. CHRIST., Ind. Filic. (1906) 214; MATS. et HAY., Enum. Pl. Formos. (1906) 591; ROSENBERG., Malay. Fern. (1908) 305; RIDLEY, Fl. Low. Siam (1911) 231; KAWAKAMI et SASAKI, l. c. 22; ROSENBERG., Malay. Fern. and Fern All. Suppl. 1 (1916) 224; MAKINO et NEMOTO, Fl. Jap. (1925) 1599; OGATA, Icon. Filic. Jap. 2 (1929) 65; MAKINO et NEMOTO, l. c. 2 ed. (1931) 42; KANEH., Fl. Micron. (1933) 393.

Trichomanes solidum FORST, Fl. Insl. Austr. Prodr. (1786) 86.

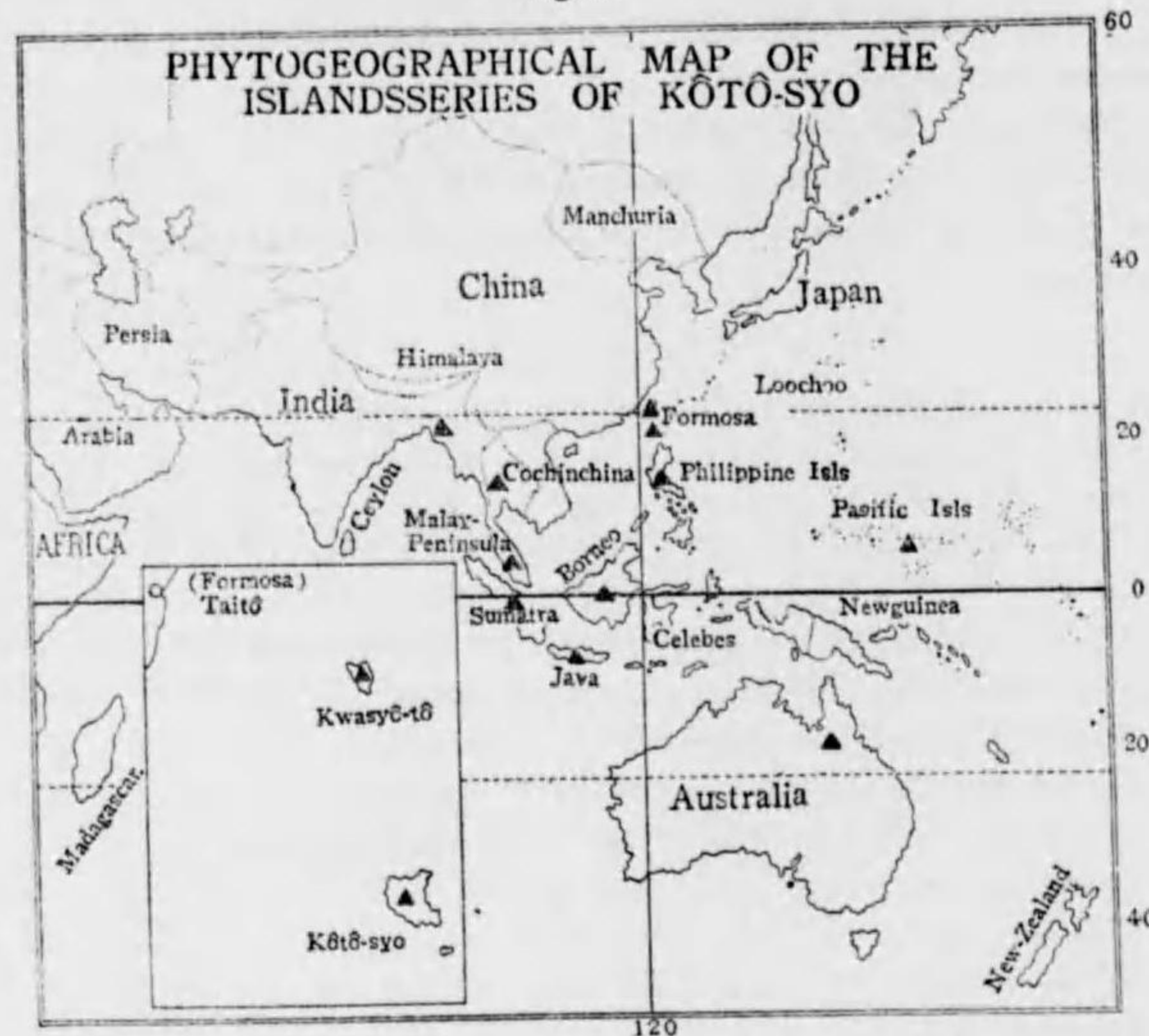
Davallia elegans HEDW., Filic. Gen. et Sp. (1803)

Humata solida DESV., Prodr. (1827) 324.

Davallia ornata WALL, Numer. List dried sp. pl. East Ind. Co. Mus. (1828) n. 246.

Stenolobus solidus PRESL, Tent. (1836) 130.

Fig. 41



Stenolobus ornatus PRESL, Tent. (1836) 130.

Stenolobus Kunzeanus PRESL, Tent. (1836) 130, t. 4, f. 30.

Parestia caudata PRESL, Epim. Bot. (1849) 100.

Davallia Lindleyi HOOK., Sp. Filic. 1 (1846) 163, t. 58. B.

Nom. Jap. Atuba-ōkaguma, Atuba-sinobu.

Hab. Kōtō-syo, July 1912, T. Kawakami et S. Sasaki; May 1924, June 1926, et Sept. 1933, S. Sasaki; Kwasyō-tō, July 5, 1935, S. Sasaki.

Distrib. Formosa, Burma, Malay Archipelago & Peninsula, Java, Polynesia, Queensland.

Note: This species generally grows on the rocks or on the barks of trees near the valleys or in the forests.

MICROLEPIA PRESL, Tent. Pterid. (1836) 124; BEDD., Fern. South. Ind. (1863) 5, e. Handb. Fern. Brit. Ind. (1892) 62; SMITH, Fern. (1896) 233; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 215; COPEL., Polyp. Philip. (1905) 55; ROSENBL., Malay. Fern. (1908) 307.

Polypodium LINN., Sp. Pl. (1753) 1082, pro parte.

Trichomanes LINN., Sp. Pl. (1753) 1097, pro parte.

Dicksonia L., Heritier, Sestum Anglic. (1788) 30, pro parte.

Davallia SMITH, Mém. Acad. Turin 5 (1793) 414, pro parte.

Humata CAVAN., Descripc Pl. (1802) 272.

Saccoloma KAULF., Berl. Jahrb. f. d. Pharmacie (1820) 51, et Enum. Fil. (1824) 224.

Selenidium KUNZE, Anal. Pterid. (1837) 38.

Scypholepia J. SMITH, Hist. Fil. (1875) 261.

Wilfordia CHRIST, Farnkr. d. Erde (1897) 305.

Davallodes COPEL., in Philip. Journ. Sci. Bot. 3 (1908) 33.

Distrib. Pantropical.

42. **MICROLEPIA STRIGOSA** PRESL, Epimel. Bot. Prag. (1849) 95; BEDD., Fern. South. Ind. (1873) 85, t. 255; LUERSS., in Engl. Bot. Jahrb. 4 (1883) 354; BEDD., Handb. Fern. Brit. Ind. (1892) 67; DIELS, Fl. Centr. Chin., in Engl. Bot. Jahrb. 29 (1898) 196, et in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 215; H. CHRIST, in Warburg, Monunia 1 (1900) 87; YABE, in Bot. Mag. Tokyo, 16 (1902) 49; COPEL., Polypod. Philip. (1905) 55; MATSUM. et HAY., Enum. Pl. Formos. (1906) 592; COPEL., Comp. Erd. San Ramon Polyp. in Philip. Journ. Sci. Bot. 2 (1907) 4; ROSENBL., Malay. Fern. (1908) 312; MERR. et MERRITT, Fl. Mt. Pulog, in Philip. Journ. Sci. Bot. 5 (1910) 318; NAKAI, Fl. Kor. 2 (1911) 402; ROSENBL., Malay. Fern. and Fern All. Suppl. 1 (1916) 231, 508; MAKINO et NEMOTO, Fl. Jap. (1925) 1635; OGATA, Icon. Filic. Jap. 2 (1929) 81; MAK. et NEM., l. c. 2 ed. (1931) 79; MASAM. Fl. Geob. Stud. Yak. (1934) 66.

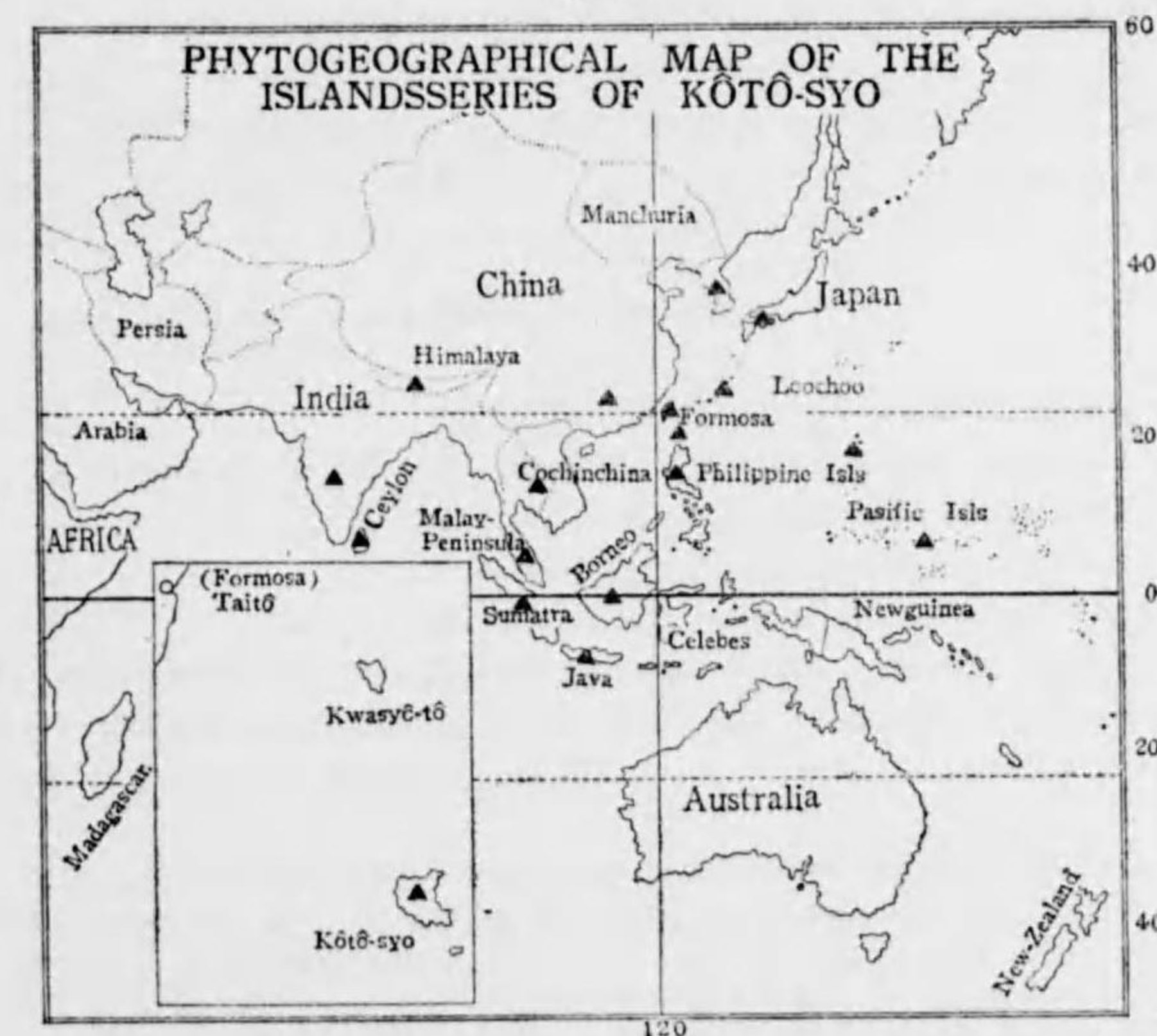
Trichomanes strigosum THUNB., Fl. Jap. (1784) 339.

Polypodium cristatum (non LINN.) HOUTT., Pfl. Syst. 13. 1 (1786) 208, t. 99, f. 3.

Dicksonia strigosa THUNB., in Trans. Linn. Soc. 2 (1794) 341.

Davallia polypoides DON, Prod. Fl. Nepal. (1825) 10; CLARKE, Rev. Fern. North. Ind. (1880) 447.

Fig. 42



Davallia strigosa SWARTZ, Adnot. Bot. (1829) 69, apud Kunze, in Bot. Zeit. (1848) 542; MIQ., Prod. Fl. Jap. (1865) 344 et 390; HOOK. et BAKER, Syn. Filic. (1867) 98; FRANCIH. et SAVAT., Enum. Pl. Jap. 2 (1876) 210; HARRINGT., in Journ. Linn. Soc. 16 (1877) 27; BAKER, in

Journ. Bot. 23 (1885) 103; HENRY, List Pl. Formos. (1896) 110; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 135.

Microlepia cristata J. SMITH, in Journ. Bot. 3 (1841) 416.

Davallia Khasiyana HOOK, Sp. Filic. 1 (1846) 173, t. 47, A. et t. 57, A.

Dennstaedtia strigosa J. SMITH, Hist. Fil. (1875) 265.

Nom. Jap. Isi-kaguma.

Hab. Kōtō-syo, May 1924, et June 1926, S. Sasaki!

Distrib. India, Malaya, China & Japan, Formosa. (also Korea, Loochoo, Bonin).

Note: This species grows waste places or shade in the neuter forests.

STENOLOMA FÉE, Gen. Filic. (1850-52) 330; BEDD., Handb. Fern. Brit. Ind. (1892) 68.

Adiantum LINN., Sp. Pl. (1753) 1095, pro parte.

Trichomanes LINN., Sp. Pl. (1753) 1099, pro parte.

Davallia SMITH, Mém. Acad. Turin 5 (1793) 414, pro parte; WILLD., Sp. Pl. 5 (1810) 464, pro parte; BLUME, Enum. Pl. Jav. Fil. (1826) pro parte; HOOK., Gen. Fil. (1839) 27, et Sp. Filic. 1 (1846) 151, pro parte; BENTH., Fl. Hongk. (1861) 461, pro parte; BEDD., Fern. South. Ind. (1863) 5, pro parte; HOOK. et BAK., Syn. Filic. (1867) 88, pro parte.

Odontosoria FÉE, Gen. Fil. (1850-52) 325; J. SMITH, Bot. Voy. Herald (1857) 430; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 215; COPEL., Polyp. Philip. (1905) 56; ROSENBERG, Malay. Fern. (1908) 258.

Sphenomeris MAXON, Journ. Washingt. Acad. Sci. 3 (1913) 144.

Microlepia METT., Fil. Lips. (1856) 103, 104.

Distrib. Japan, Loochoo, Korea, Malay Peninsula, & Archipelago, China, Ceylon, India, Polynesia, East African Island.

43. **STENOLOMA CHUSANUM** CHING, Pterid. in Sinens. 3. no. 12

(1933) 337.

Adiantum chusanum LINN., Sp. Pl. (1753) 1095.

Trichomanes chinensis LINN., Sp. Pl. (1753) 1099; THUNB., Fl. Jap. (1784) 340.

Adiantum chinense BURM. f., Fl. Ind. (1768) 236.

Adiantum tenuifolium LAM., Encycl. 1 (1783) 44.

Trichomanes cuneiforme FORST., Prod. (1786) 85.

Davallia chinensis J. SMITH, Mém. Ac. Turin. 5 (1793) 414; SWARTZ, Syn. Fil. (1806) 133; LANGSD. et FISCH., Voy. Russ. (1818) t. 27; ROXB., in Calc. Journ. Nat. Hist. 4 (1844) 517; HOOK., Sp. Fil. 1 (1846) 187; CARR., in Seem. Fl. Vit. (1873) 338; CLARKE, Fern. North. Ind. (1880) 449.

Davallia cuneiforme SWARTZ, in Schrad. Journ. 1800. 2 (1801) 87.

Davallia tenuifolia SWARTZ, in Schrad. Journ. 1800. 2 (1801) 88; BLUME, Enum. Pl. Jav. Fil. (1828) 239; WALL., List (1828) 245; PRESL, Tent. Pter. (1836) t. 4. f. 27; HOOK., Sp. Fil. 1 (1846) 186; BENTH., Fl. Hongk. (1861) 462; BEDD., Fern. South. Ind. (1863) 6, t. 16; MIQ., in Ann. Mus. Bot. Lugd. Bat. 3 (1867) 180; HOOK. et BAKER, Syn. Filic. (1867) 102; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1875-79) 210; HENRY, List Pl. Formos. (1896) 110; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 136; H. CHRIST, in Waburg. Monsumia 1 (1900) 85.

Davallia chusanum WILLD., Sp. Pl. 5 (1810) 475.

Stenoloma tenuifolia FÉE, Gen. Fil. (1850-52) 330.

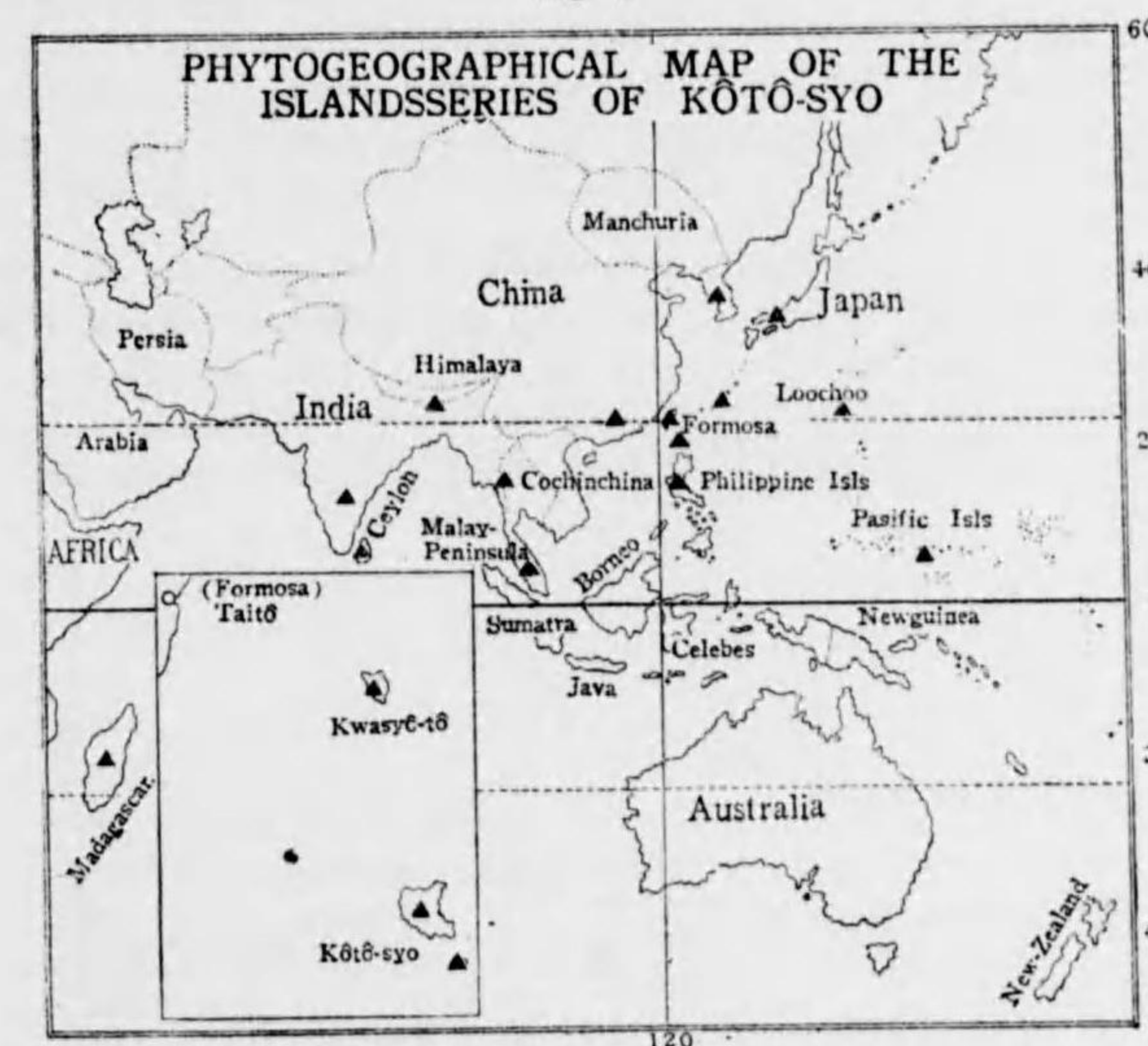
Microlepia chinensis METT., Fil. Lip. (1856) 103.

Microlepia tenuifolia METT., l. c. 104, t. 27. f. 1-4.

Odontosoria chinensis J. SMITH, Bot. Voy. Herald. (1857) 430; DIELS, in Engl. u. Prantl. Nat. Pfl.-fam. 1. 4 (1899) 215; MATSUM., Ind. Pl. Jap. 1 (1904) 329; COPELAND, Polyp. Philip. (1905) 57; C. CHRIST., Ind. Fil. (1906) 464; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 126; ROSENBERG, Malay. Fern. (1908) 259; MERR., in Philip. Journ. Sci. Bot. 3 (1908) 391; MERR. et MERRITT, in Philip. Journ. Sci. Bot. 5 (1910) 318; NAKAI, Fl. Kor. 2 (1911) 403; MERR., in Philip. Journ. Sci. Bot. 9 (1914) 44; ROSENBERG, Malay. Fern. and Fern. All. Suppl. 1 (1916) 202; MERR., Burm. Fl. Ind. in Philip. Journ. Sci. 19 (1921) 333; MAKINO et NEMOTO, Fl. Jap. (1925) 1638, et 2 ed. (1931) 81; SASAKI, in Trans. Nat. Hist. Soc. Formos. 24 (1934) 422; OGATA, Icon. Fil. Jap. 7 (1936) 327.

var. *tenuifolia* MAKINO, in Bot. Mag. Tokyo, 10 (1896) 152; MATS., Ind. Pl. Jap. 1 (1904) 330; MATSUM. et HAY., Enum. Pl. Formos. (1906) 594; MAKINO et NEMOTO, Fl. Jap. (1925) 1638, et 2 ed. (1931) 81; MASAM., Fl. Geob. Stud. Yak. (1934) 67; SASAKI, in Tran. Nat. Hist. Soc. Formos. 24 (1934) 422.

Fig. 43



Odontosoria tenuifolia J. SMITH, Cult. Fern. (1857) 67.

Davallia tenuifolia Sw. var. *chinensis* MOORE, Ind. Fil. (1861) 302; MAKINO, Phan. et Pterid. Jap. 8 (1900) pl. 37.

Lindsaya tenuifolia METT., Ann. Sc. Nat. 4. 15 (1861) 64; H. CHRIST, Farnkr. Erde. (1897) 296.

Lindsaya chinensis METT., Kuhn. Fl. Afr. (1868) 67; H. CHRIST, Farnkr. Erde. (1897) 296.

Stenoloma chinensis BEDD., Handb. Fern. Brit. Ind. (1892) 70.
Sphenomeris chinensis MAXON, Journ. Wash. Acad. Sci. 3 (1913) 144.
Odontosoria chusana MASAM., Fl. Geob. Stud. Yak. (1934) 67.
Odontosoria chusana var. *tenuifolia* MASAM. l. c.

Nom. Jap. Hora-sinobu.

Hab. **Kôtô-syo**, June 15, 1926, S. Sasaki; **Syô-kôtô-syo**, July 1911, et June 10, 1926, S. Sasaki!; **Kwasyô-tô**, Aug. 1907, Z. Kobayasi; June 5, 1927, July 5, 1935, S. Sasaki!

Distrib. Japan, Korea, Bonin, Loochoo, Formosa, China, Malaya, Polynesia, India, Madagascar.

Note: This species grows edges of the stone walls, shade in the neuter forests or on rocks of near the seashore.

TAPEINIDIUM C. CHRIST., Ind. Filic. (1905) 631; ROSENB., Malay. Fern. (1908) 313.

Davallia SMITH, Hook. Gen. Filic. (1839) t. 27, et Sp. Fil. 1 (1846) 151; HOOK. et BAK., Syn. Filic. (1867) 88, pro parte.

Saccoloma PRESL, Tent. (1836) 126.

Microlepia Sect. *Tapeinidium* PRESL, Epim. (1849) 96.

Microlepia DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 215, pro parte.

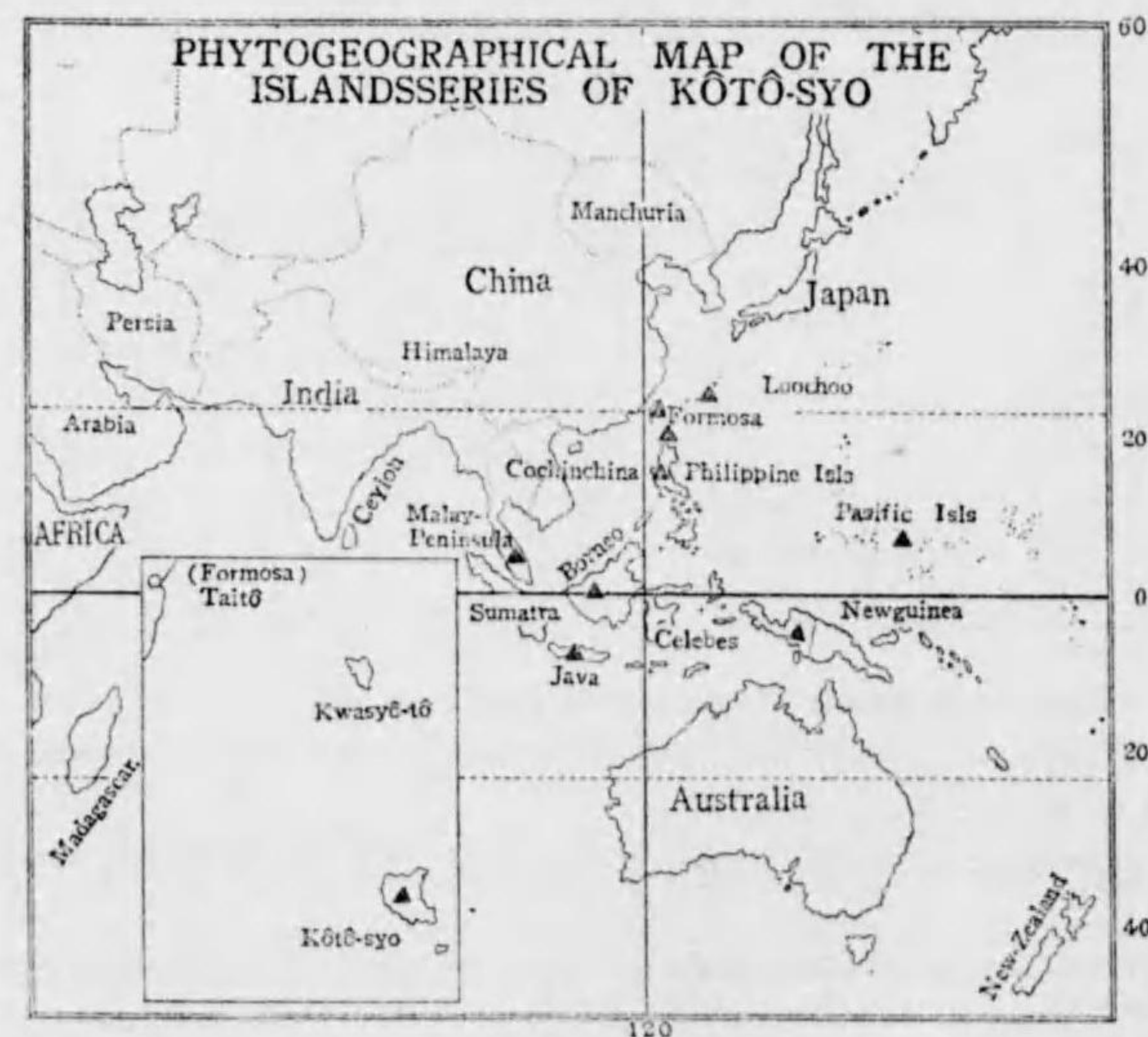
Wibelia FÉZ, Gen. Filic. (1850-52) 331; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 216.

Lindsaya METT., Kuhn, Ann. Lugd. Bat. 4 (1869) 279.

Distrib. Formosa, Malaya to Polynesia.

44. **TAPEINIDIUM PINNATUM** C. CHRIST., Ind. Fil. (1905) 213; ROSENB., Malay. Fern. (1908) 314; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 125, et 3 (1908)

Fig. 44



346; H. CHRIST, in Nova Guinea, 8 Bot. 1 (1909) 160; HAY., Gen. Ind. Fl. Formos. (1916) 115; OGATA, Icon. Filic. Jap. 1 (1928) 44; SASAKI, List Pl. Formos. (1928) 41; MAK. et NEM., Fl. Jap. 2 ed. (1931) 109; KANEH., Fl. Micron. (1933) 396.

Davallia pinnata, CAV., Describ. (1802) 277; HOOK., Sp. Fil. 1 (1846) 173; HOOK. et BAKER, Syn. Filic. (1867) 98; H. CHRIST, Farnkr. Erde (1897) 314; RACIB., Pter. Fl. Buit. 1 (1898) 133.

Davallia flagellifera WALL., List (1828) n. 243.

Davallia biserrata BLUME, Enum. Pl. Jav. 2 (1828) 232.

Saccoloma pinnatum PR., Tent. (1836) 126.

Microlepia pinnata J. SM., in Hook. Journ. Bot. 3 (1841) 416; BEDD., Fern. South. Ind. (1863) t. 14; BEDD., Handb. Fern. Brit. Ind. (1892) 64; COPEL., Polyp. Philip. (1905) 55.

Microlepia biserrata PR., Epim. (1849) 97.

Wibelia pinnata FÉZ, Gen. bis. B. (1850-52) 331, t. 27.

Wibelia javae FÉZ, l. c. 331.

Lindsaya pinnata METT., Kuhn, Ann. Lugd. Bat. 4 (1869) 279.

Davallia intramarginalis CES., Rend. Ac. Napoli 16 (1877) 25, 29.

Davallia longipinnula CES., ibid.

Nom. Jap. Gozadake-sida, Hosoba-humotosida.

Hab. **Kôtô-syo**, May 1924, ibid. June 5, 1926, S. Sasaki!

Distrib. Loochoo, Formosa, Malay, New-Guinea and Polynesia.

Note: This species grows in the neuter forests.

DENNSTAEDTIA BERNHARDI, Schrad. Journ. 1800. 2 (1801) 124; BEDD., Fern. South. Ind. (1863) 86, et Handb. Fern. Brit. Ind. (1892) 24; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 217; COPEL., Polyp. Philip. (1905) 57; ROSENB., Malay. Fern. (1908) 140.

Trichomanes FORST., Prod. (1786) 85, pro parte.

Polypodium POIR., Enc. 5 (1804) 554, pro parte.

Dicksonia L'HERITIER, Sert. angl. (1788) 30; HOOK., Gen. Filic. (1838) 20; HOOK. et BAK., Syn. Filic. (1866) 49; BENTH., Fl. Austral. 7 (1878) 712; BALL., Queensl. Fl. 6 (1902) 1950, pro parte.

Sitobolium DESV., Prodr. (1827) 262; SMITH, Journ. Bot. 3 (1841) 418, Lond. Journ. Bot. 1 (1842) 434, et Fern. (1896) 236.

Patania PRESL, Tent. Pterid. (1836) 137.

Alectum LINK, Filic. Sp. (1841) 41, 42.

Debaria HOOK. et GREVILLE, Icon. Fil. (1829) t. 154, pro parte.

Litolobium NEWMAN, Phytolog. 5 (1854) 236.

Distrib. Pantropical.

45. **DENNSTAEDTIA FORMOSAE** CHRIST, in Bull. Herb. Boiss. 2. 4 (1904) 617; MATSUM. et HAY., Enum. Pl. Formos. (1906) 594; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 42.

Dennstaedtia Smithii (non MOORE) SASAKI, List Pl. Formos. (1928) 15, et Cat. Govt. Herb. (1930) 15; MAKINO et NEMOTO, Fl. Jap. ed 2 (1931) 43.

Nom. Jap. Taiwan-takawarabi.

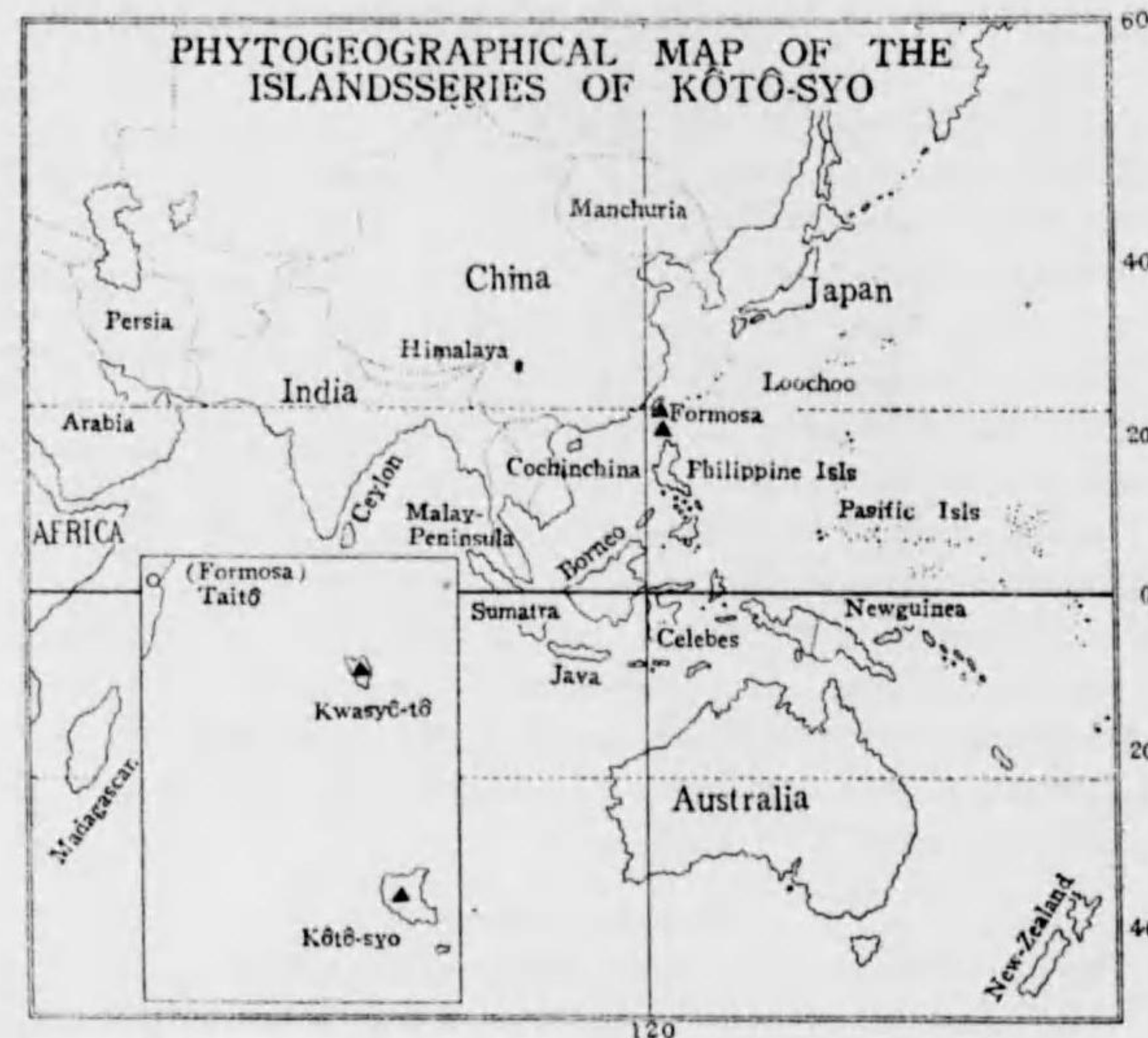
Hab. **Kôtô-syo**, May 1924, June 1926, S. Sasaki; **Kwasyô-tô**, June 1927, July 5, 1935, S.

Sasaki.

Distrib. Formosa.

Note: This species grows in the grasslands or edges of the neuter forests.

Fig. 45



LINDSAYA DRYANDER; J. Smith, Mém. Ac. Turin 5 (1793) 413; DRYAND., in Trans. Linn. Soc. 3 (1797) 40 (Lindsaea); KAULF., Enum. Filic. (1824) 218; HOOK., Gen. Filic. (1840) t. 63; HOOK., Sp. Filic. 1 (1846) 203; BENTH., Fl. Hongk. (1861) 445; BEDD., Fern. South. Ind. (1863) 7; HOOK., Handb. New-Zeal. Fl. (1867) 359; HOOK. et BAKER, Syn. Filic. (1867) 104; BAKER, Fl. Maurit. (1877) 471; BENTH., Fl. Austral. 7 (1878) 718; BEDD., Handb. Fern. Brit. Ind. (1892) 72; SMITH, Fern. (1896) 230; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 219; BAIL., Queensl. Fl. 6 (1902) 1952; COPELAND, Polyp. Philip. (1905) 59; ROSENBERG, Malay. Fern. (1908) 260.

Adiantum (non LINN.) WILLD., Phyt. (1794) 14 t. 10 f. 2.

Hymenotomia GAUD., Freyc. Voy. Bot. (1827) 379.

Saccoloma BRONGN., Voy. Ven. Bot. (1846) t. 6.

Davallia (non SMITH) SPR., Schrad. Journ. 1799. 2. 271; PRESL, Rel. Haenk. 1 (1825) 66; BORY, Ble. Voy. Bot. 2 (1833) 73 t. 7 f. 2; DESV., Prod. (1837) 314; KUNZE, Anal. (1837) 35 t. 22 f. 2; HOOK., Sp. Fil. 1 (1846) 151, pro parte; HOOK., 2 Cent. (1861) t. 56; HOOK. et BAKER, Syn. Filic. (1867) 88, pro parte; BAKER, Fl. Maurit. (1877) 468, pro parte.

Synaphlebium J. SMITH, Journ. Bot. 3 (1841) 415, et in Hook., Gen. Filic. (1842) t. 101.

Lindsayium FÉE, Gen. Fil. (1850-52) 333.

Stenoloma FÉE, Gen. Fil. (1850-52) 330, pro parte.

Acrophorus (non PRESL) MOORE, Ind. Filic. (1857) 91.

Paralindsaya KEYS., Pol. Cyath. Hb. Bung. (1873) 3.

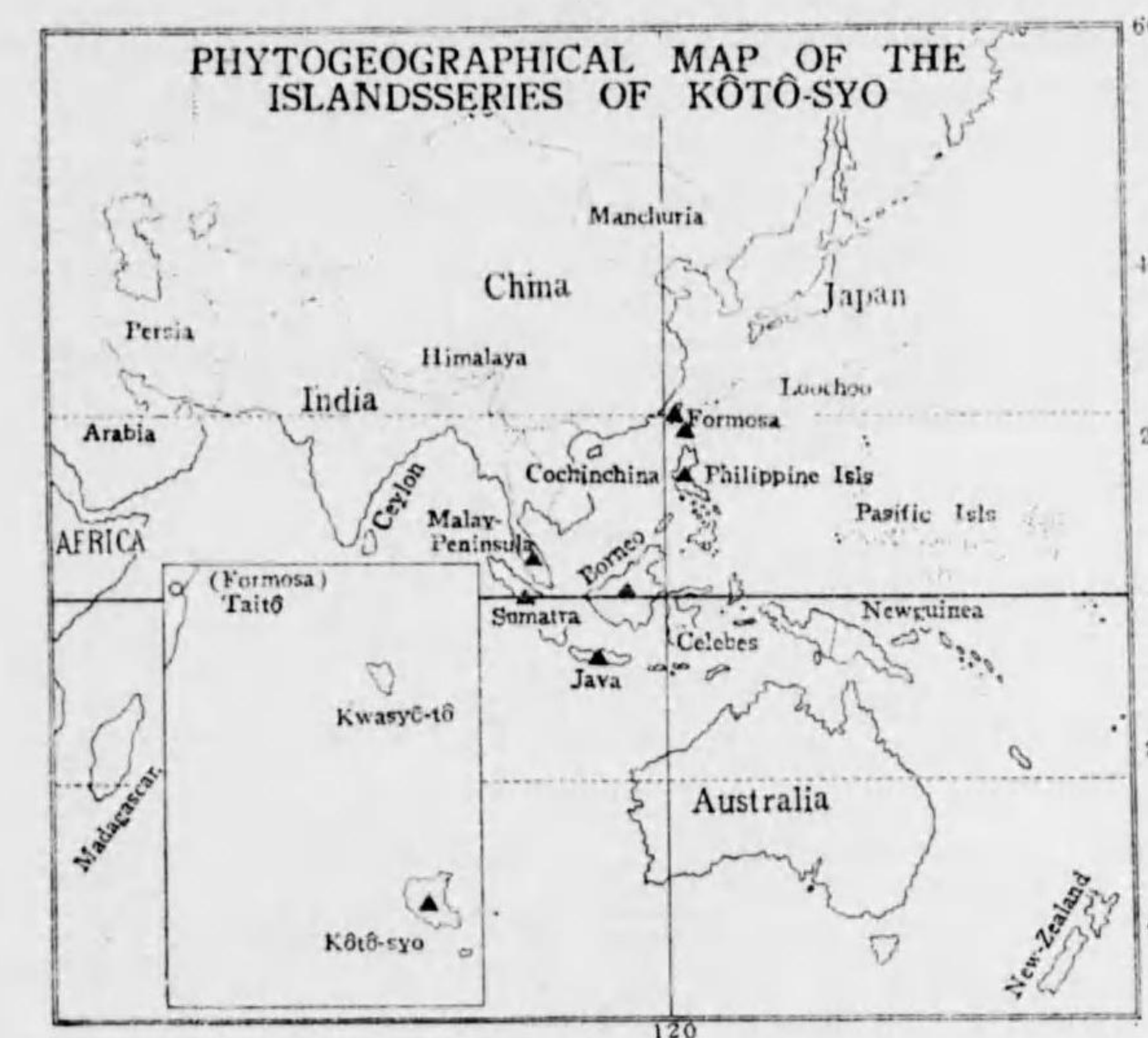
Davalliastrum FOURN., Ann. Sc. Nat. 5. 18 (1873) 334, pro parte.

Odontosoria (non FÉE) SMITH, Hist. Fil. (1875) 264.

Distrib. Tropical & Subtropical.

46. **LINDSAYA DAVALLIOIDES** BLUME, Enum. Pl. Jav. (1828) 218; KUNZE, Farnkr. Kolorist. 1 (1840) t. 7; HOOK., Sp. Filic. 1 (1846) 224, t. 68 A; METTEN., Filic. Hort. Bot. Lips. (1856) 104; HOOK. et BAKER, Syn. Filic. (1867) 111; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 143; H. CHRIST, in Warburg, Monsunia 1 (1901) 293; DIELS, in Natur. Pflanz.-fam. 1. 4 (1899) 221; YABE, in Bot. Mag. Tokyo, 16 (1902) 49; COPEL., Polypod. Philip. (1905) 64; MERR., Fl. Lamao Forest Reserve, in Philip. Journ. Sci. 1. Suppl. 1 (1906) 16; C. CHRIST, Ind. Filic. (1906) 392; MATS. et HAY., Enum. Pl. Formos. (1906) 596; COPEL., Pter. Hal. in Philip. Journ. Sci. Bot. 2 (1907) 127; ROSENBERG, Malay. Fern. (1908) 274; MERR., Plant. Bat. Babuy. Isl., in Philip. Journ. Sci. Bot. 3 (1908) 391; KAWAKAMI et SASAKI, l. c. (1915) 23; ROSENBERG, Malay. Fern. & Fern. All. Suppl. 1 (1916) 507; MAKINO et NEMOTO, Fl. Jap. (1925) 1633, et 2 ed. (1931) 76.

Fig. 46



Davallia Kunzeana HOOK., Sp. Filic. 1 (1846) 177.

Schizoloma davallioides MOORE, Ind. Filic. (1857) 35; BEDD., Fern. Brit. Ind. (1868) t. 141, et Handb. Fern. Brit. Ind. (1892) 79.

Nom. Jap. Kuzyaku-hongūsida.

Hab. Kōtō-syō, May 1926, S. Sasaki.

Distrib. Formosa, Malay Peninsula & Archipelago.

Note: This species grows shade of the neuter forests, especially in the south eastern mountains.

47. **LINDSAYA ORBICULATA** METT., ex Kuhn, in Ann. Lugd. Bat. 4 (1869) 279; BEDD., Handb. Fern. Brit. Ind. (1892) 75; MATSUM., Ind. Pl. Jap. 1 (1904) 312; C. CHRIST., Ind. Fil. (1906) 396; MERR., Fl. Lamo For. Res., in Philip. Journ. Sci. 1. Suppl. 1 (1906) 17; COPEL., Pter. Halc., in Philip. Journ. Sci. Bot. 2 (1907) 127, et Fern. South. Chin., in l. c. 3 (1908) 278; ROSENBL., Malay. Fern. (1908) 270; HAY., Ic. Pl. Formos. 5 (1915) 301; OGATA, Icon. Filic. Jap. 1 (1928) 34; NAKAI, in Bull. Biogeogr. Soc. Jap. 1 (1930) 252; SASAKI, Cat. Govt. Herb. (1930) 27; MAK. et NEMOTO, Fl. Jap. 2 ed (1931) 77; MASAM., Fl. Geobot. Stud. Yak. (1934) 69.

Adiantum orbiculatum LAMARCK, Encycl. Meth. Bot. 1 (1783) 41.

Lindsaya flabellulata DRYAND., in Trans. Linn. Soc. 3 (1797) 41 t. 8 f. 2; HOOK., Sp. Fil. 1 (1846) 211; BENTH., Fl. Hongk. (1861) 445; HOOK. et BAK., Syn. Filic. (1867) 107; BEDD., Fern. South. Ind. (1873) pl. 216; BAKER, in Journ. Bot. 23 (1885) 103; HENRY, List Pl. Formos. (1896) 110; H. CHRIST., Farnkr. Erd. (1897) 292, et Warb. Mons. 1 (1900) 85; MATS. et HAY., Enum. Pl. Formos. (1906) 596.

Lindsaya polymorpha WALL. List (1828) n. 147; HOOK. et GREV., Ic. Fil. (1829) t. 75.

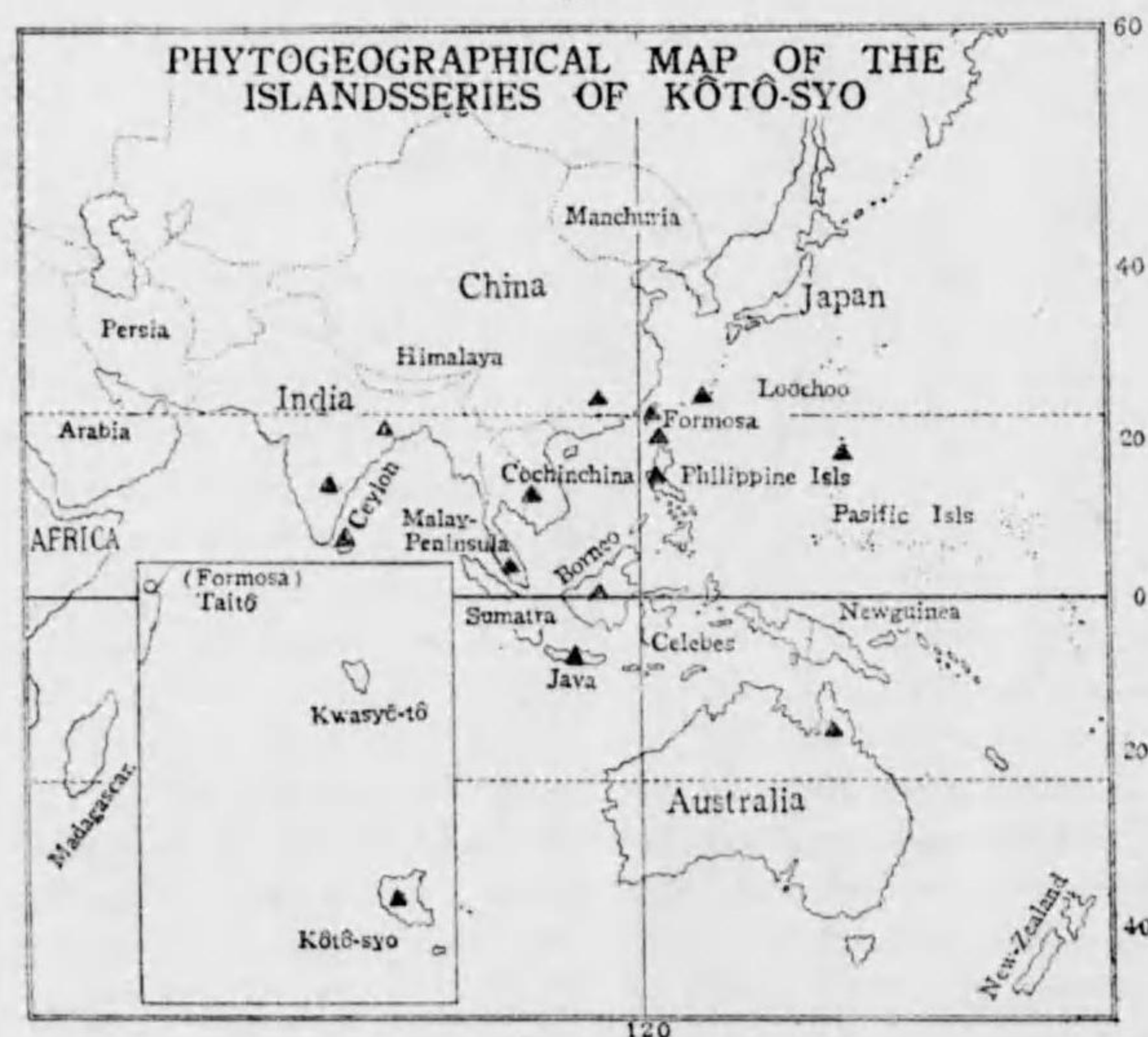
Schizoloma orbiculatum KUHN, Grup. Chaetopt. Polyp. (1882) 346.

Lindsaya javanensis BLUME, Enum. Pl. Jav. (1828) 219.

Davallia trichomanoidse BEDD., Fern. Brit. Ind. (1866) pl. 178.

Nom. Jap. Edauti-hongûsida.

Fig. 47



Hab. Kôto-syo, Dec. 1927, Y. Komuro.

Distrib. Japan, Yaku-sima, Loochoo, Formosa, Bonin, China, India, Malay Peninsula & Archipelago, North Australia.

Note: This species grows shade places in the neuter forests.

48. **LINDSAYA REPENS** BEDD., Fern. South. Ind. 1 (1873) t. 209, et Handb. Fern. Brit. Ind. (1892) 74; YABE, in Bot. Mag. Tokyo, 16 (1902) 49; COPEL., Polyp. Philip. (1905) 60; MERR., Pl. Bat. et Babuy. Insl., in Philip. Journ. Sci. Bot. 3 (1908) 391; ROSENBL., Malay. Fern. (1908) 261; H. CHRIST., in Nova Guinea, 8 Bot. 1 (1901) 157; KAWAKAMI et SASAKI, l. c. (1915) 23; ROSENBL., Malay. Fern. & Fern All. Suppl. 1 (1916) 202; MAKINO et NEMOTO, Fl. Jap. (1925) 1633, et 2 ed. (1931) 77; OGATA, Icon. Filic. Jap. 5 (1933) 232; KANEIL., Fl. Micron. (1933) 394.

Dicksonia repens BORY, Voy. Princ. Afriq. (1804) 323.

Davallia repens DESV., Prodr. Fam. Foug. (1827) 314; HOOK. et BAKER, Syn. Filic. (1867) 93; MAK., in Bot. Mag. Tokyo, 10 (1896) 55; H. CHRIST., in Warb. Mons. 1 (1900) 85.

Davallia Macraeana HOOK. et ARN., Bot. Beech. Voy. (1832) 108.

Davallia Boryana PRESL, Ral. Haenk. 1 (1825) 66; HOOK., Sp. Fil. 1 (1846) 175.

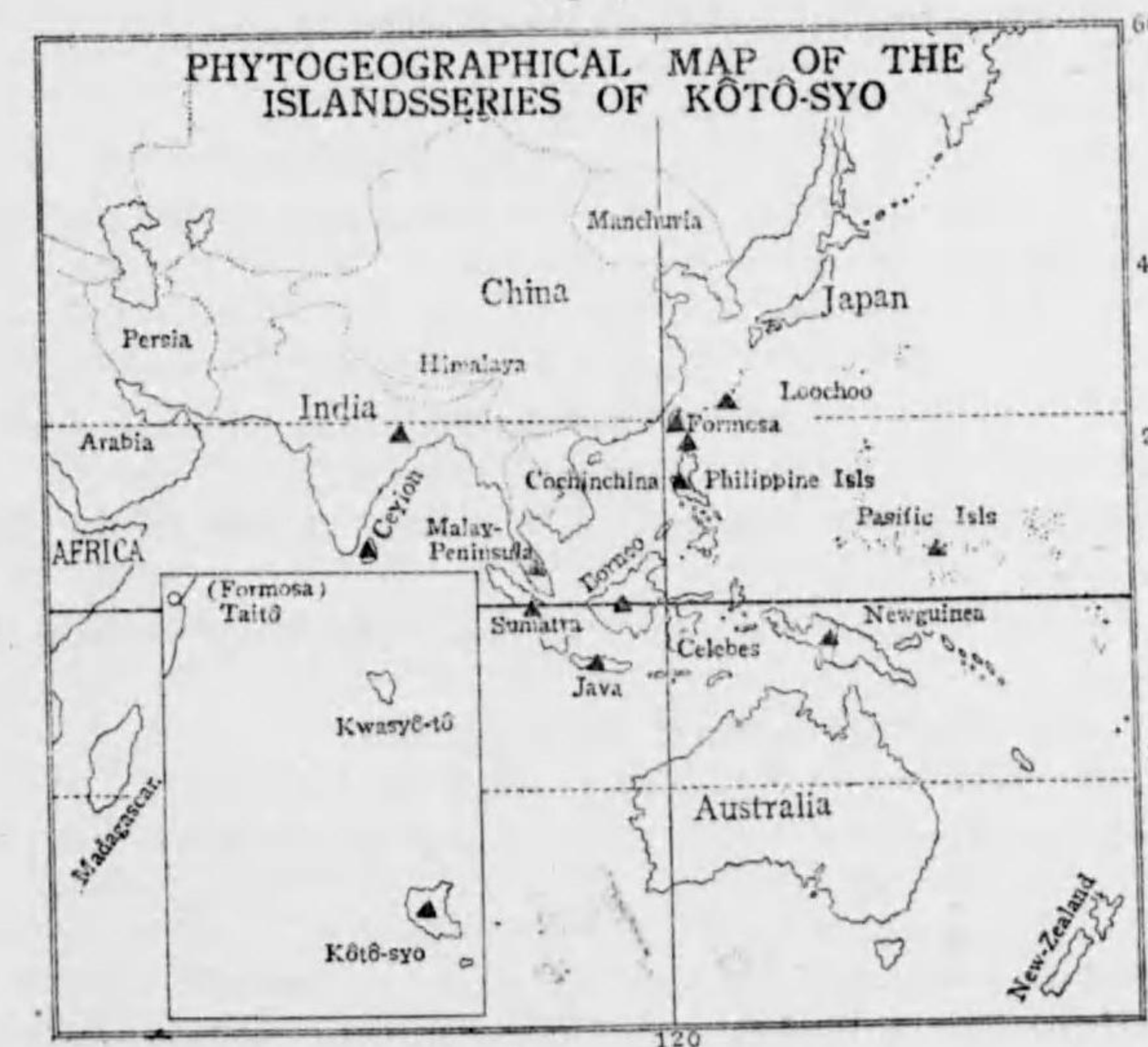
Davallia hemiptera BORY, Bel. Voy. Bot. 2. 4 (1904) 616; HOOK., Sp. Fil. 1 (1846) 176.

Odontoloma Boryanum SMITH, in Journ. Bot. 3 (1841) 415; BAU. et HOOK., Gen. Fil. (1842) t. 114, b.

Odontoloma Macraeana BRACK, Expl. Exp. (1854) 226.

Lindsaya Macraeana COPEL., Hawaii, Fern. in Philip. Journ. Sci. Bot. 9 (1914) 441;

Fig. 48



SASAKI, in Trans. Nat. Hist. Soc. Formos. 26 (1936) 59.

Nom. Jap. Toranowo-hongû-sida.

Hab. Kôto-syo, Dec. 1909, Y. Kikuti; ibid. June 1919, R. Kanehira et S. Sasaki, no. 1312 et 1313; ibid. May 1924, S. Sasaki; June 1926, S. Sasaki; Dec. 1927, Y. Komuro.

Distrib. Assam., Nilgherries, Ceylon, Java, Sumatra, Philippine, Polynesia, Mauritius, Formosa, Loochoo.

Note: This species grows shade in the neuter forests.

ATHYRIUM ROHL., Röm. Mag. 2. 1 (1799) 105; TENT., Fl. Germ. 3 (1800) 58; HOOK., Sp. Filic. 3 (1860) 217; BEDD., Fern. South. Ind. (1863) 50, et Handb. Fern. Brit. Ind. (1892) 161; DIELS, in Engl. u. Prantl, Natur. Pfl.-fam. 1. 4 (1899) 222; ROSENBERG., Malay. Fern. (1908) 426; MERR., Fl. Manila, (1912) 51.

Polypodium LINN., Sp. Pl. (1753) 1082, pro parte.

Aspidium SWARTZ, Schrad. Journ. 1800. 2 (1801) 41.

Asplenium SWARTZ, l. c. 54.

Diplazium SWARTZ, l. c. 61.

Tectaria CAV., Anal. Cienc. 4 (1801) 100.

Nephrodium MICHX., Fl. Bor. Am. 2 (1803) 268.

Allantodia R. BROWN, Prodr. Fl. N. Holl. (1810) 149.

Deparia HOOK. et GREVILLE, Icon. Fil. (1829) t. 154, pro parte.

Cystopteris BERNCH., Schrad. Neu. Journ. 1. 2 (1806) 5, 26, pro parte.

Brachysorus PRESL, Epim. Bot. (1849) 70.

Hypochlamys FÉE, Gen. Fil. (1850-52) 200.

Phegopteris FÉE, Gen. Fil. (1850-52) 242, pro parte.

Solenopteris ZENKER, Kunze, Linn. 24 (1851) 267.

Pseudathyrium NEWMAN, Phytologist 4 (1851) 370.

Pseudallantodia CLARKE, Tr. Linn. Soc. 2 Bot. 1 (1880) 495.

Distrib. Throughout Europe and Northern Asia, Mexico, India, Celebes, Java, Philippine, Japan, Loochoo, Formosa, China.

49. **ATHYRIUM DOEDERLEINII** (LUERSS) SASAKI, comb. nov.

Asplenium Doederleinii ENGL., in Bot. Tahr. 4 (1883) 355.

Diplazium Doederleinii MAKINO, in Bot. Mag. Tokyo, 13 (1899) 15; HAY., Mater. Fl. Formos. (1911) 450.

Diplazium Doederleinii KODAMA, in Matsum. Ic. Pl. Koisik. 1 (1911) 139, pl. 70; MAK. et NEM., Fl. Jap. 2 ed. (1931) 44.

Diplazium Morii HAY., Mater. Fl. Formos. (1911) 437.

Diplazium costalisorum HAY., Ic. Pl. Formos. 4 (1914) 213.

Diplazium inflatorum HAY., Ic. Pl. Formos. 5 (1915) 270; MAK. et NEM., Fl. Jap. (1925) 1603, et 2 ed. (1931) 45.

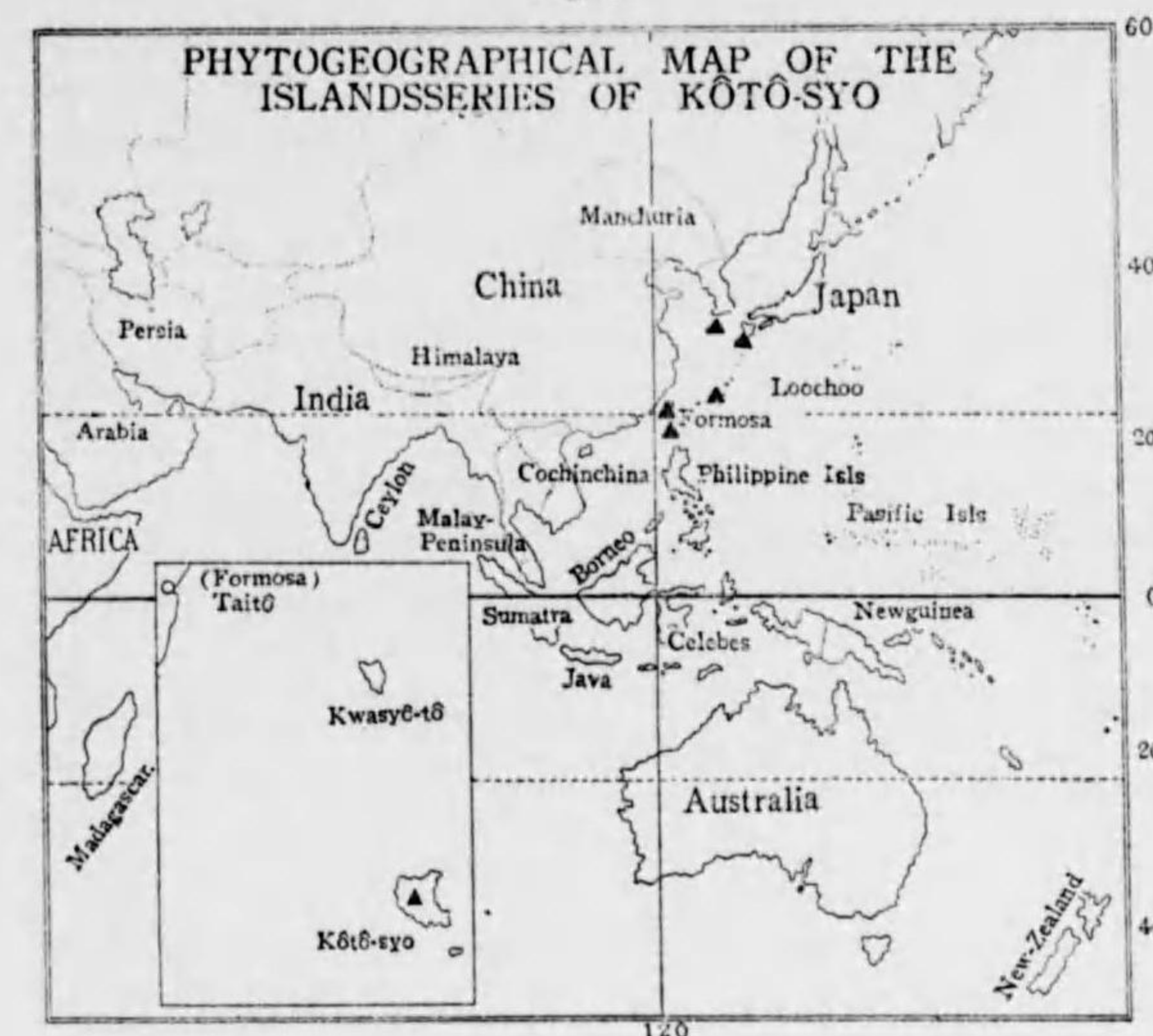
Nom. Jap. Sima-siroyamasida.

Hab. Kôto-syo, June 12, 1926, S. Sasaki.

Distrib. Japan, Formosa, Loochoo.

Note: This species grows shade places in the neuter forests.

Fig. 49



50. **ATHYRIUM ESCULENTUM** COPEL., in Philip. Journ. Sci. Bot.

3 (1908) 295; MERR., Fl. Manila, (1912) 51.

Heminiotis esculenta RETZIUS, Observ. bot. fasc. Compreh. 6 (1791) 38.

Diplazium esculentum SWARTZ, Schrad. Journ. 1801. 2 (1803) 312, et Syn. Filic. (1806) 92; WILLD., Sp. Pl. 5 (1810) 343; H. CHRIST, Farnkr. d. Erde (1897) 222, et in Warburg, Monsunia 1 (1900) 74; YABE, in Bot. Mag. Tokyo, 16 (1902) 49; C. CHRIST, Ind. Filic. (1906) 231; ROSENBERG., Malay. Fern. (1908) 425; KAWAKAMI et SASAKI, l. c. 22; ROSENBERG., Malay. Fern. & Fern. All. Suppl. 1 (1916) 276; MAKINO et NEMOTO, Fl. Jap. (1925) 1602 et 2 ed. (1931) 44; SASAKI, in Trans. Nat. Hist. Soc. Formos. 24 (1934) 422; OGATA, Icon. Fil. Jap. 7 (1936) 308.

Asplenium esculentum PRESL, Pterid. in Reliq. Heank. 1 (1825) 45; METTEN., Asplen. (1859) 174; HOOK., Sp. Filic. 3 (1860) 268; BENTH., Fl. Hongk. (1861) 452; HOOK. et BAKER, Syn. Filic. (1867) 244; BAKER, in Journ. Bot. 23 (1885) 105.

Anisogonium esculentum PRESL, Tent. Pteridogr. (1836) 116; HOOK., Sp. Filic. 3 (1860) 268; HOOK. et BAKER, Syn. Filic. (1867) 244; BEDD., Fern. South. Ind. 2. ed. (1873) t. 164, et Handb. Fern. Brit. Ind. (1892) 192.

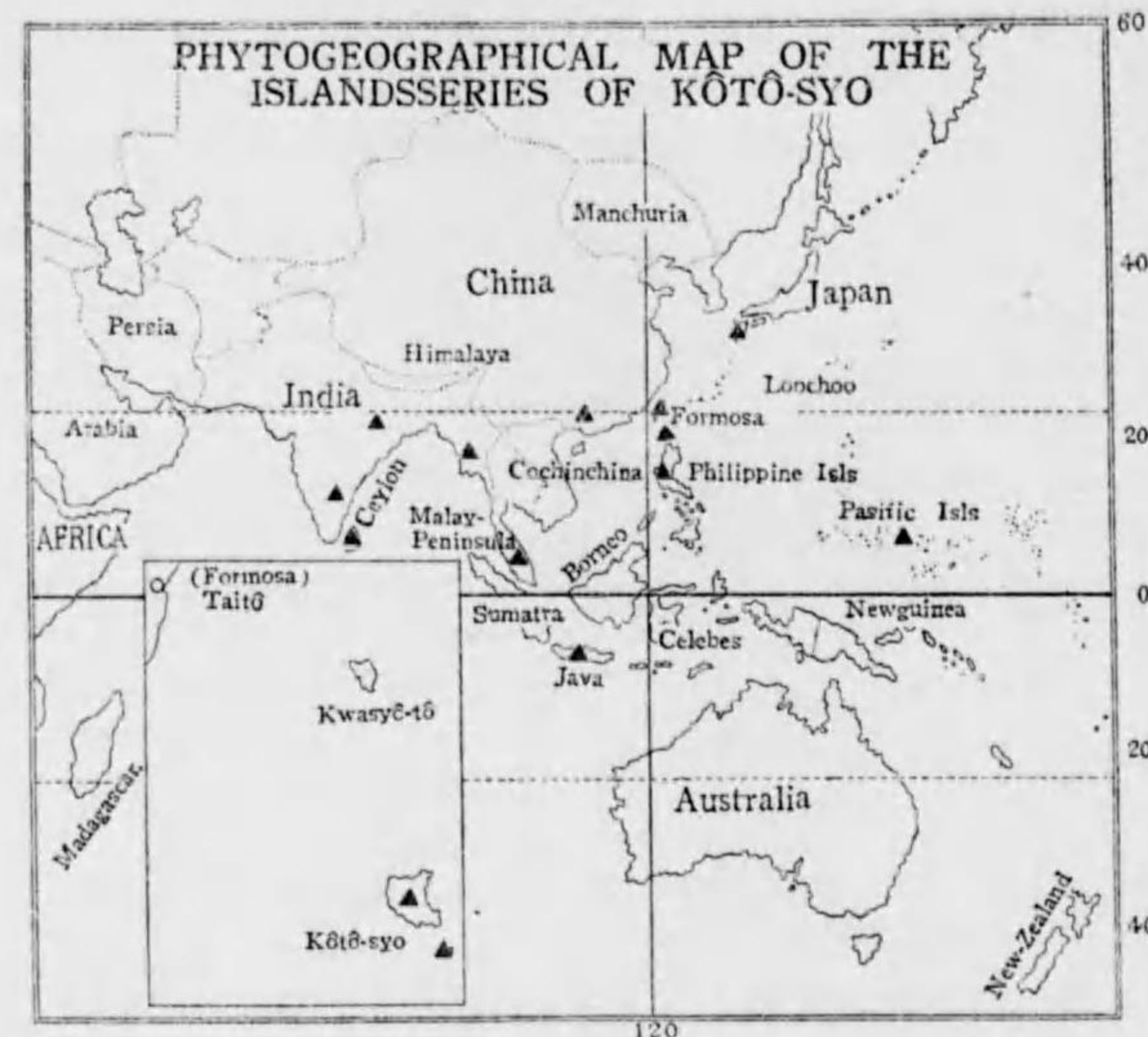
Callipteris esculenta SMITH, ex Bedd., Fern. South. Ind. (1873) 164; SMITH, Fern. Brit. & Foreign, (1896) 227; COPEL, Polypod. Philip. (1905) 71.

Nom. Jap. Kuware-sida.

Hab. Kôto-syo, June 21, 1926, ibid. Nov. 3, 1934, S. Sasaki; Syô-kôto-syo, July 1911, et

June, 1926, S. Sasaki.

Fig. 50



Distrib. Japan, Formosa, Philippine, Tropical Asia, Polynesia.

Note: This species grows riversides, wet places, or shade places in the neuter forests.

51. *ATHYRIUM FRAXINIFOLIUM* MILDE, in Bot. Zeit. (1870) 353;

COPEL, in Philip. Journ. Sci. Bot. 3 (1908) 299.

Diplazium fraxinifolium PRESL, Rel. Haenk. 1 (1825) 49; BEDD., Fern. Brit. Ind. 1 (1868) t. 69; MAK. et NEM., Fl. Jap. (1925) 1602, et 2 ed. (1931) 45; OGATA, Icon. Filic. Jap. 5 (1933) 217; MASAM., Fl. Geob. Stud. Yak. (1934) 73.

Diplazium bantamense BLUME, Enum. Pl. Jav. 2 (1828) 191; BEDD., Handb. Fern. Brit. Ind. (1892) 177; H. CHRIST, Farnkr. d. Erde, (1897) 216; RIDLEY, Fl. Singap. (1900) 191; COPEL, Philip. Polyp. (1905) 72; C. CHRIST., Ind. Fil. (1906) 228; MATS. et HAY., Enum. Pl. Formos. (1906) 597; ROSENB., Malay. Fern. (1908) 405; SASAKI, Cat. Govt. Herb. (1930) 16.

Asplenium fraxinifolium WALL., List (1828) n. 194; HOOK., Sp. Filic. 3 (1860) 240, et 2 Cent. Fern. (1861) t. 19; BENTH., Fl. Hongk. (1861) 451.

Diplazium lineolatum BLUME, Fl. Jav. (1828) 191; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 228.

Diplazium alternifolium BL., Enum. (1828) 190.

Asplenium Hookerianum WALL., List (1828) 7090.

Anisogonium fraxinifolium PRESL, Tent. Pt. (1836) 116, t. 4. f. 18.

Callipteris elegans J. SM., in Journ. Bot. 3 (1841) 409.

Oxygonium elegans J. SM., in Journ. Bot. 4 (1841) 178.

Anisogonium grossum PRESL, Epim. Bot. (1849) 93.

Anisogonium elegans PRESL, Epim. Bot. (1849) 94.

Asplenium alternifolium METT., Fil. Hort. Lips. (1856) 75, t. 12 f. 1. 2, et in Miquel, Ann. Mus. Lugd. Bot. 2 (1868) 237; HOOK., Filic. Exot. (1857-59) t. 17, et Sp. Fil. 3 (1860) 239.

Asplenium Donianum METT., Aspl. (1859) 117, n. 198 b.

Callipteris fraxinifolia J. SM., in Moore Ind. Fil. (1861) 217.

Asplenium lineolatum METT., in Ann. Lugd. Bat. 2 (1866) 238.

Asplenium bantamense BAKER, in Hook. et Baker, Syn. Fil. (1867) 231; CLARKE, Rev. Fern. North. Ind. (1880) 497; HENRY, List Pl. Formos. (1896) 112.

Anisogonium lineolatum BEDD., Fern. Brit. Ind. (1869) t. 330.

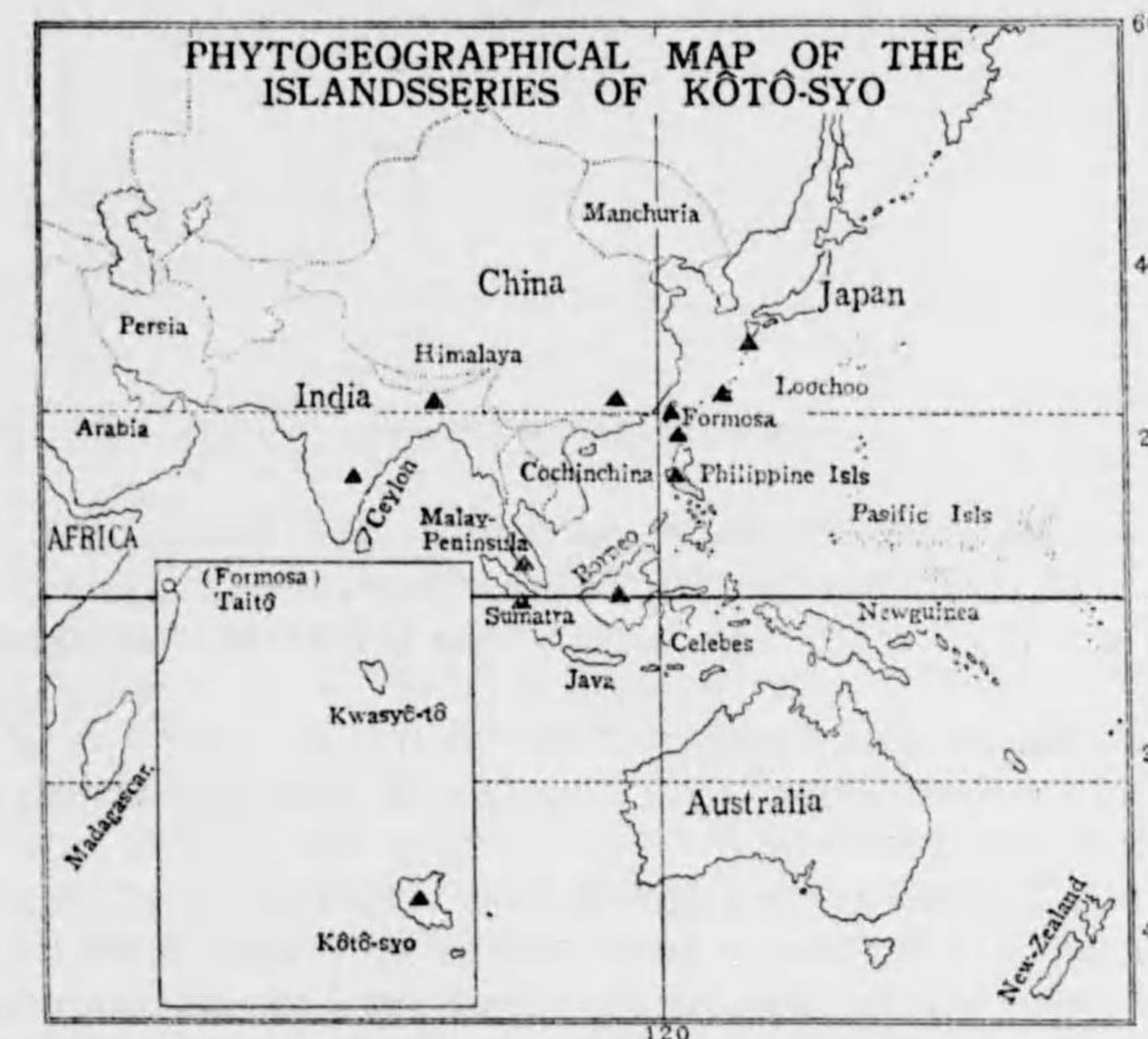
Nom. Jap. Kinobori-sida.

Hab. Kōtō-syo, June 12, 1926, S. Sasaki!

Distrib. Japan, Loochoo, Formosa, China, Himalaya, Malay Peninsula & Archipelago.

Note: This species generally grows shade places or edges of the neuter forests.

Fig. 51



52. *ATHYRIUM GYMNOCARPUM* COPEL., New or Inter. Philip. Fern.

7, in Philip. Journ. Sci. 40. 3 (1929) 301; SASAKI, in Trans. Nat. Hist. Soc. Formos. 26 (1936) 62.

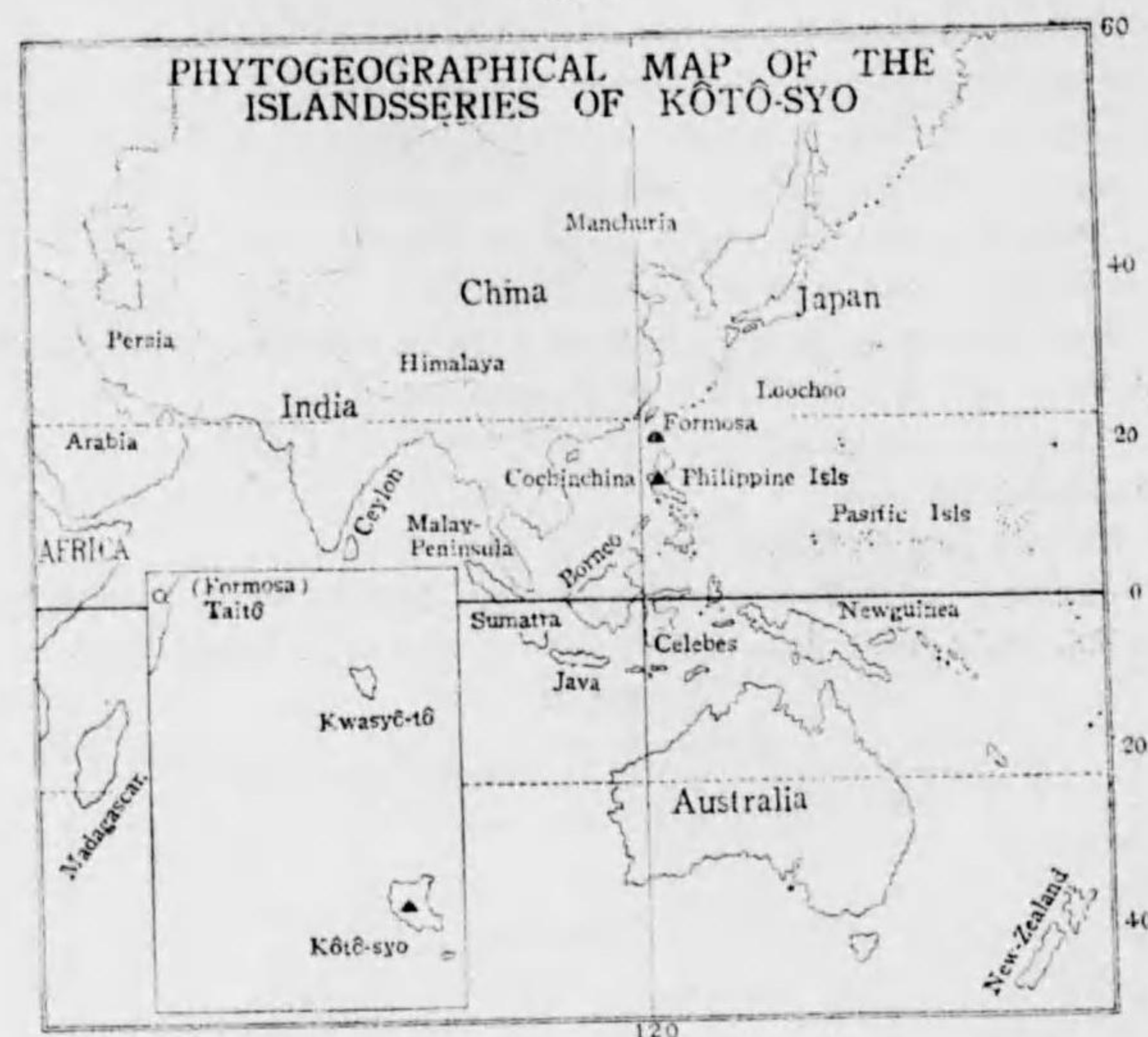
Nom. Jap. Kōtō-sikesida.

Hab. Kōtō-syo, June 3, 1926, S. Sasaki.

Distrib. Philippine.

Note: This species grows in the shade places of the neuter forests.

Fig. 52

53. *ATHYRIUM JAPONICUM* COPEL, in Philip. Journ. Sci. Bot. 3

(1908) 290.

Asplenium japonicum THUNB., Fl. Jap. (1784) 334; MIQ., Prolus. Fl. Jap. (1866-67) 389; HOOK. et BAKER, Syn. Filic. (1867) 234; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 227; BENTL., Fl. Austral. 7 (1878) 750; BAKER, in Journ. Botan. 23 (1885) 105; BAILL., Queensl. Fl. 6 (1902) 1973.

Asplenium ambiguum SCHKUHR., Kr. Gew. 1 (1809) t. 75.

Asplenium Schkuhrii (non METT.) HOOK., Sp. Filic. 3 (1860) 251; METTEN, in Miq., Ann. Mus. Lugd. Batav. 2 (1866) 238.

Diplazium deccussatum BEDD., Fern. Brit. Ind. 2 (1868) t. 292.

Asplenium Conillii FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 227 et 623.

Diplazium japonicum BEDD., Suppl. Fern. South. Ind. & Brit. Ind. (1876) 12, et Handb. Fern. Brit. Ind. (1892) 180; H. CHRIST, Farnkr. d. Erde (1897) 218; DIELS, Fl. Centr. Chin. (1898) 197; H. CHRIST, in Warburg, Monsunia, 1 (1900) 74; YABE, in Bot. Mag. Tokyo, 16 (1902) 49; MATSUM., Ind. Pl. Jap. (1904) 303; MERRILL, in Philip. Journ. Sci. 1. Suppl. (1906) 174; C. CHRIST., Ind. Filic. (1906) 234; MATSUM. et HAYATA, Enum. Pl. Formos. (1906) 598; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 127; ROSENB., Malay. Fern. (1908) 408; WILLIS et WILLIS, l. c. 119; NAKAI, in Bot. Mag. Tokyo, 28 (1914) 85; KAWAKAMI et SASAKI, l. c. 22; ROSENB., Malay. Fern. & Fern. All. Suppl. 1 (1916) 262; MAKINO et NEMOTO, Fl. Jap. (1925) 1603; OGATA, Icon. Fil. Jap. 3 (1930) 115; MAK. et NEM. l. c. 2 ed. (1931) 46; MASAM., Fl. Geob. Stud. Yak. (1934) 74.

Nom. Jap. Sike-sida.

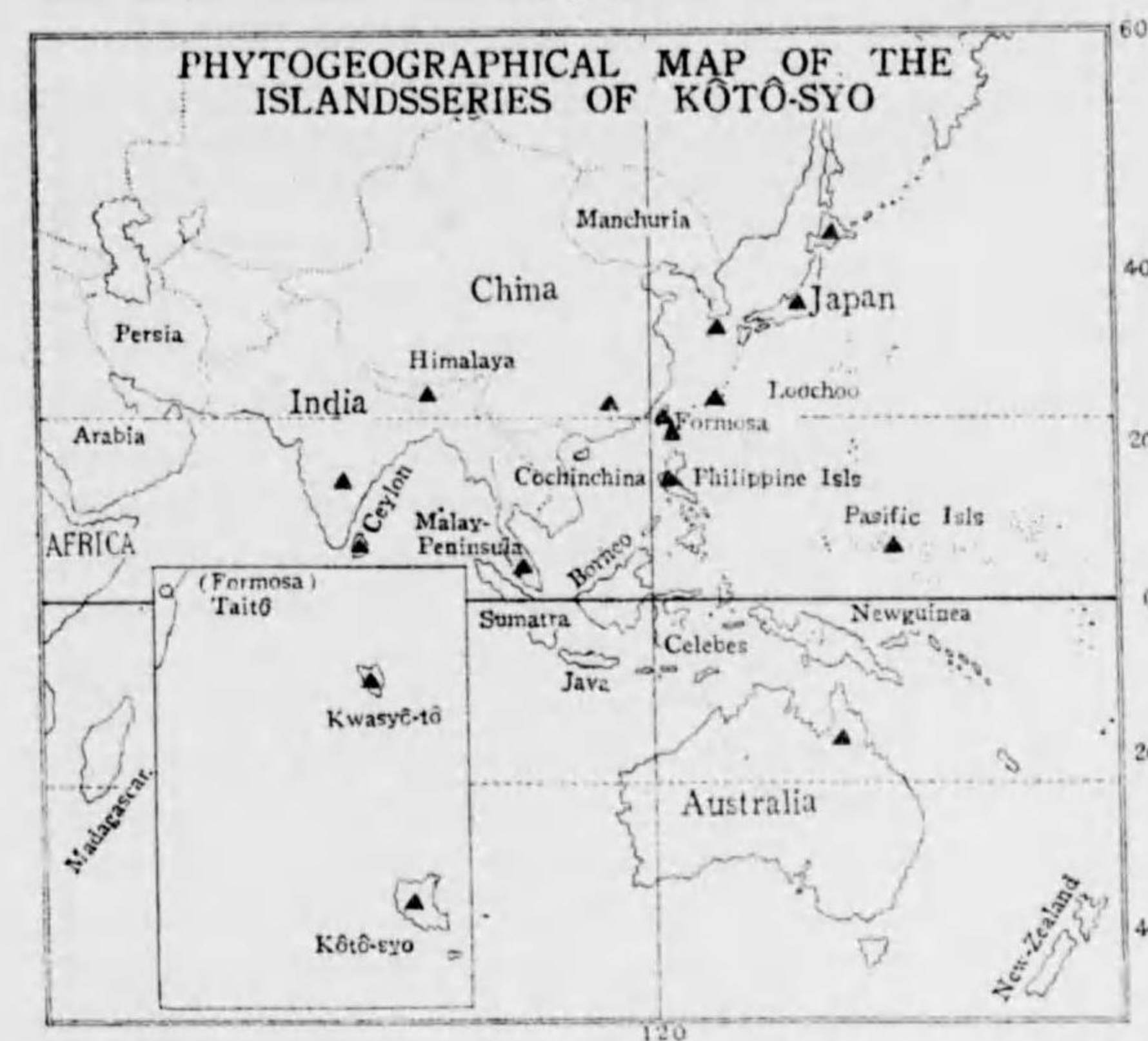
Hab. Kōtō-syo, Apr. 1907, T. Kawakami et U. Mori; ibid. May 1924, June 1926, et Oct. 3,

1934, S. Sasaki!; Kwasyō-tō, Apr. 17, 1932, S. Sasaki.

Distrib. Japan, Querspaert. Loochoo, Formosa, China, Tropical Asia, Queensland.

Note: This species grows in the shade and wet places of the neuter forests.

Fig. 53

54. *ATHYRIUM LANCEUM* MILDE, in Bot. Zeit. (1870) 354; COPEL.,

in Philip. Journ. Sci. Bot. 7 (1912) 55.

Asplenium lanceum THUNB., Fl. Jap. (1784) 333; SWARTZ, Syn. Filic. (1806) 74; WILD., Sp. Pl. 5 (1810) 303; HOOK., Sp. Filic. 3 (1860) 235; BENTL., Fl. Hongk. (1861) 451; METTEN., in Miquel, Ann. Mus. Lugd. Bat. 2 (1866) 236, Prod. Fl. Jap. (1867) 339 et 389; HOOK. et BAKER, Syn. Filic. (1867) 229; LEURSS, in Flora (1876) 295; HARRINGT., in Journ. Linn. Soc. 16 (1877) 29; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1879) 226; CLARKE, Rev. Fern. North. Ind. (1880) 496; BAKER, in Journ. Bot. 23 (1885) 104; SMITH, Ferns Brit. Foreign (1896) 209.

Scolopendrium dubium DON, Prodr. Fl. Nepal. (1825) 9.

Asplenium subsinuatum WALL. ex Hook. et Greville, Icon. Filic. (1827) t. 27.

Diplazium lanceum PRESL, Tent. Pteridogr. (1836) 113; EATON, in Perry, Narrat. Exped. China Jap. 2 (1856) 329; BEDD., Fern. South. Ind. (1873) t. 227, et Handb. Fern. Brit. Ind. (1892) 174, f. 84; H. CHRIST, in Warburg, Monsunia, 1 (1900) 74; YABE, in Bot. Mag. Tokyo, 16 (1902) 49; C. CHRIST., Ind. Filic. (1906) 234; MATS. et HAY, Enum. Fl. Formos. (1906) 599; WILLIS et WILLIS, l. c. (1911) 119; NAKAI, in Bot. Mag. Tokyo, 28 (1914) 84; KAWAKAMI et SASAKI, l. c. 22; ROSENB., Malay. Fern. All. Suppl. 1 (1916) 257; MAKINO et NEMOTO, Fl. Jap. (1925) 1603, et 2 ed. (1931) 46; OGATA, Icon. Filic. Jap. 5 (1933) 219; MASAM., Fl. Geob. Stud. Yak. (1934) 74.

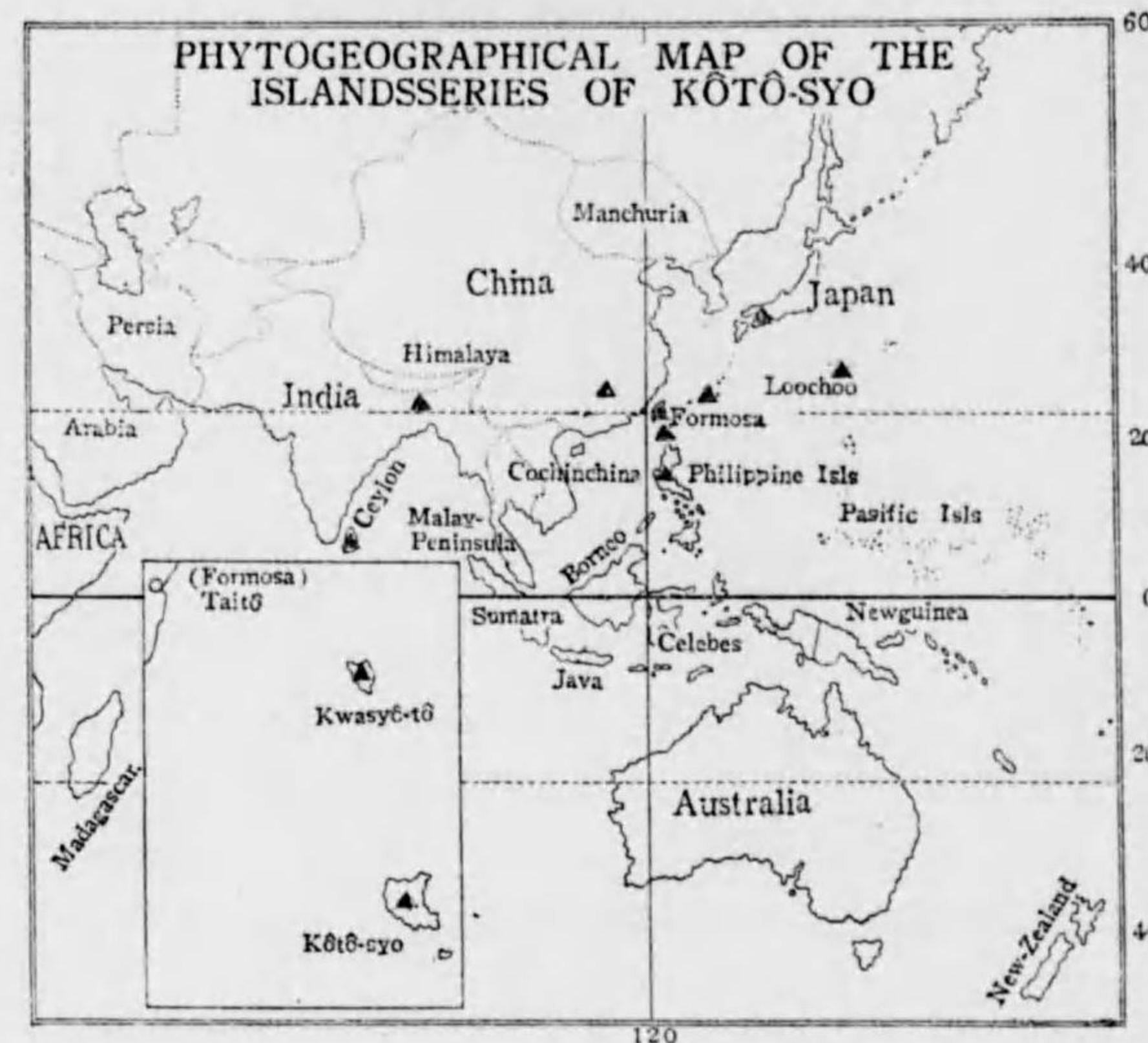
Nom. Jap. Hera-sida, v. Iwa-mino.

Hab. Kōtō-syo, June 1926, et Nov. 1934, S. Sasaki; Kwasyō-tō, Aug. 1907, U. Mori; June 3, 1927, S. Sasaki.

Distrib. Japan, Korea, Bonin, Loochoo, Formosa, Philippines, China, India, Ceylon.

Note: This species grows in the shade and open places or hanging on the cliffs.

Fig. 54



ASPENIUM LINN., Gen. Pl. (1737) 783, et Sp. Pl. (1753) 1078; HOOK., Gen. Filic. (1839) t. 30; HOOK., Sp. Filic. 3 (1860) 76; BENTH., Fl. Hongk. (1861) 450; BEDD., Fern. South. Ind. (1863) 43; HOOK., Handb. New-Zeal. Fl. (1876) 370; HOOK. et BAK., Syn. Filic. (1867) 190; BAKER, Fl. Maurit. (1877) 484; BENTH., Fl. Austral. 7 (1878) 742; BEDD., Handb. Fern. Brit. Ind. (1892) 141; SMITH, Fern. (1896) 209; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 223; BAILL., Queensl. Fl. 6 (1902) 1967; COPEL., Polypod. Philip. (1905) 76; ROSENB., Malay. Fern. (1908) 436; MERR., Fl. Manila, (1912) 51.

Trichomanes LINN., Sp. Pl. (1753) 1098, pro parte.

Phyllitis LUDWIG., Instit. Hist. Phys. Regn. Veg. 2 ed. (1757) 142; MOENCH, Method. Pl. (1794) 724; SMITH, Fern. Brit. Foreign. (1899) 209.

Ceteracput ADANSON, Fam. des plantes 2 (1763) 20, pro parte.

Caenopteris BERGIUS, Acta Acad. Peterop. 1782-2 (1786) 249.

Darea JUSS., Gen. Pl. (1789) 15.

Onopteris NECKER, Element. Bot. 3 (1790) 316.

Belvisia MIRBEL, Hist. Nat. Pl. 4 (1803) 65, pro parte.

Acropteris LINK, Hort. Berol. 2 (1833) 56, pro parte.

Davallia LINN., 10 (1836) 544.

Hemidictyum PRESL, Tent. Pterid. (1836) 110, pro parte.

Neottopteris J. SMITH, Journ. Bot. 3 (1841) 409.

Homaloneuron KLOTZSCH, Linn. 20 (1847) 354.

Thamnopteris PRESL, Epim. Bot. (1849) 68.

Tarachia PRESL, Epim. Bot. (1849) 74.

Acropteridastrum FÉE, Gen. Fil. (1850-52) 190.

Dareastrum FÉE, Gen. Fil. (1850-52) 190.

Heminiotidastrum FÉE, Gen. Fil. (1850-52) 190.

Neottopteridastrum FÉE, Gen. Fil. (1850-52) 190.

Loxoscapha MOORE, Journ. Bot. 5 (1853) 227.

Asplendictyum J. SM., in Hook. Icon. Pl. (1854) t. 937.

Sphenopteris METT., Fil. Lechl. 1 (1856) 15.

Hemidictyum PRESL, Tent. Pterid. (1836) 110, pro parte.

Phyllitidis J. SMITH, Journ. Bot. 3 (1841) 397.

Micropodium METT., Ann. Mus. Lugd. Bat. 2 (1866) 232, pro parte.

Lobium KEYS., Pol. Cyath. Hb. Bung. (1873) 15.

Parasplenium KEYS., Pol. Cyath. Hb. Bung. (1873) 15.

Asplenites J. SM., Hist. Fil. (1875) 158.

Cheilosorum J. SM., Hist. Fil. (1875) 317.

Hemionitis J. SM., Hist. Fil. (1875) 318.

Eremopodium TREV., Atti dell' Ist. Veneto 5. 3 (1877) 589.

Arcasplenium MOORE, Baker, Kew Bull. (1901) 145.

Hymenasplenium HAY., in Bot. Mag. Tokyo, 41 (1927) 712.

Distrib. Cosmopolitan.

55. **ASPENIUM LASERPITIFOLIUM** LAMARCK, Encycl. Method. Botan. 2 (1786) 310; HOOK., Sp. Filic. 3 (1860) 171, t. 203; HOOK. et BAKER, Syn. Filic. (1867) 215; BEDD., Fern. South. Ind. (1873) 75, t. 225; BENTH., Fl. Austr. 7 (1878) 748; SMITH, Fern. Brit. Foreign. (1896) 219; HENRY, List Pl. Formos. (1896) 112; RACIBORSKI, Pterid. Fl. Buitenz 1 (1898) 220; H. CHRIST, in Warburg, Monsunia, 1 (1900) 72; BAILEY, Queensl. Fl. 6 (1902) 1972; YABE, in Bot. Mag. Tokyo, 16 (1902) 50; COPEL., Polypod. Philip. (1905) 85; MATSUM. et HAY., Enum. Pl. Formos. (1906) 604; HATTORI, Pfl. Geogr. Stud. Bonin. Insl., in Journ. Coll. Sci. Imp. Univ. Tokyo, 23, Art. 10 (1908) 16; ROSENB., Malay. Fern. (1908) 472; ROSENSTOCK, in Nova Guinea, 8 Bot. 4 (1913) 721; ROBINSON, in Philip. Journ. Sci. Bot. 6 (1914) 42; KAWAKAMI et SASAKI, l. c. 22; ROSENB., in Philip. Journ. Sci. Bot. 11 (1916) 109; GROFF, DING & GROFF, in Lingn. Agr. Rev. 1 (1923) 37; MAKINO et NEMOTO, Fl. Jap. (1925) 1581, et 2 ed. (1931) 25; OGATA, Icon. Filic. Jap. 6 (1935) 256; KANEH., Fl. Micron. (1933) 392.

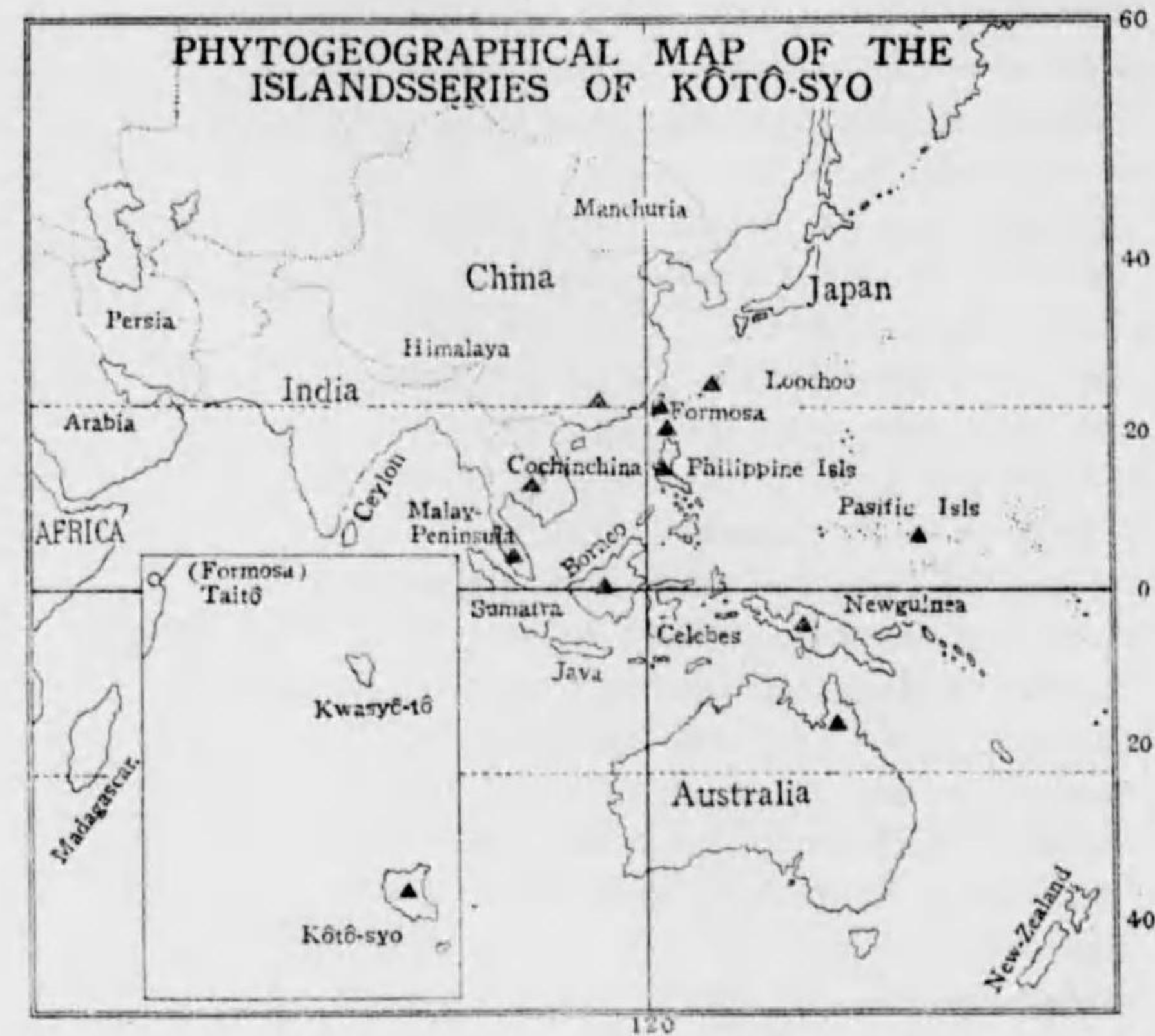
Nom. Jap. Oo-tokiwāsida, Okinawa-sida, Sima-awoganesida.

Hab. Kōtō-syo, Feb. 1906, T. Kawakami et G. Nakahara; ibid. May 1924, S. Sasaki; ibid. June 1926, S. Sasaki.

Distrib. Loochoo, Formosa, Southern China, Polynesia, Malay & Australia.

Note: This species grows epiphyte on the trees in the neuter forests.

Fig. 55



56. *ASPLENIUM MACROPHYLLUM* SWARTZ, in Schrad. Journ. 2 (1800) 52, et Syn. Filic. (1806) 77 & 261; WILLD., Sp. 5 (1810) 311; MOORE, Ind. Filic. (1857-62) 143; METTEN., Asplen. (1859) 155; HOOK., Sp. Filic. 3 (1860) 158; BENTH., Fl. Hongk. (1861) 451; MIQ., Prol. Fl. Jap. Filic. (1867) 340 et 389; HOOK. et BAKER, Syn. Filic. (1867) 209; BEDD., Fern. South. Ind. 2 (1873) t. 142, et Handb. Fern. Brit. Ind. (1892) 150; HENRY, List Pl. Formos. (1896) 112; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 216; RIDLEY, in Journ. Str. Br. Roy. Asiat. Soc. (1900) 191; H. CHRIST, in Warburg, Monsunia 1 (1900) 71; YABE, in Bot. Mag. Tokyo, 16 (1902) 50; MERR., in Philip. Journ. Sci. Suppl. 1 (1906) 17; MATS. et HAY., Enum. Pl. Formos. (1906) 604; C. CHRIST., Ind. Filic. (1906) 120; ROSENB., Malay. Fern. (1908) 465; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 79; MERR., Fl. Manila (1912) 52, et in Philip. Journ. Sci. Bot. 9 (1914) 42; KAWAKAMI et SASAKI, l. c. 22; ROSENB., Malay. Fern. All. Suppl. 1 (1916) 295; GROFF, DING & GROFF l. c. 37; MAKINO et NEMOTO, Fl. Jap. (1925) 1581, et 2 ed. (1931) 25; KANEH., Fl. Micron. (1933) 392; OGATA, Icon. Fil. Jap. 7 (1936) 305.

Asplenium canaliculatum BLUME, Enum. Pl. Jav. Insl. 2 (1828) 180.

Asplenium intermedium KAULF, ex Blume, Enum. Pl. Jav. Insl. 2 (1828) 181.

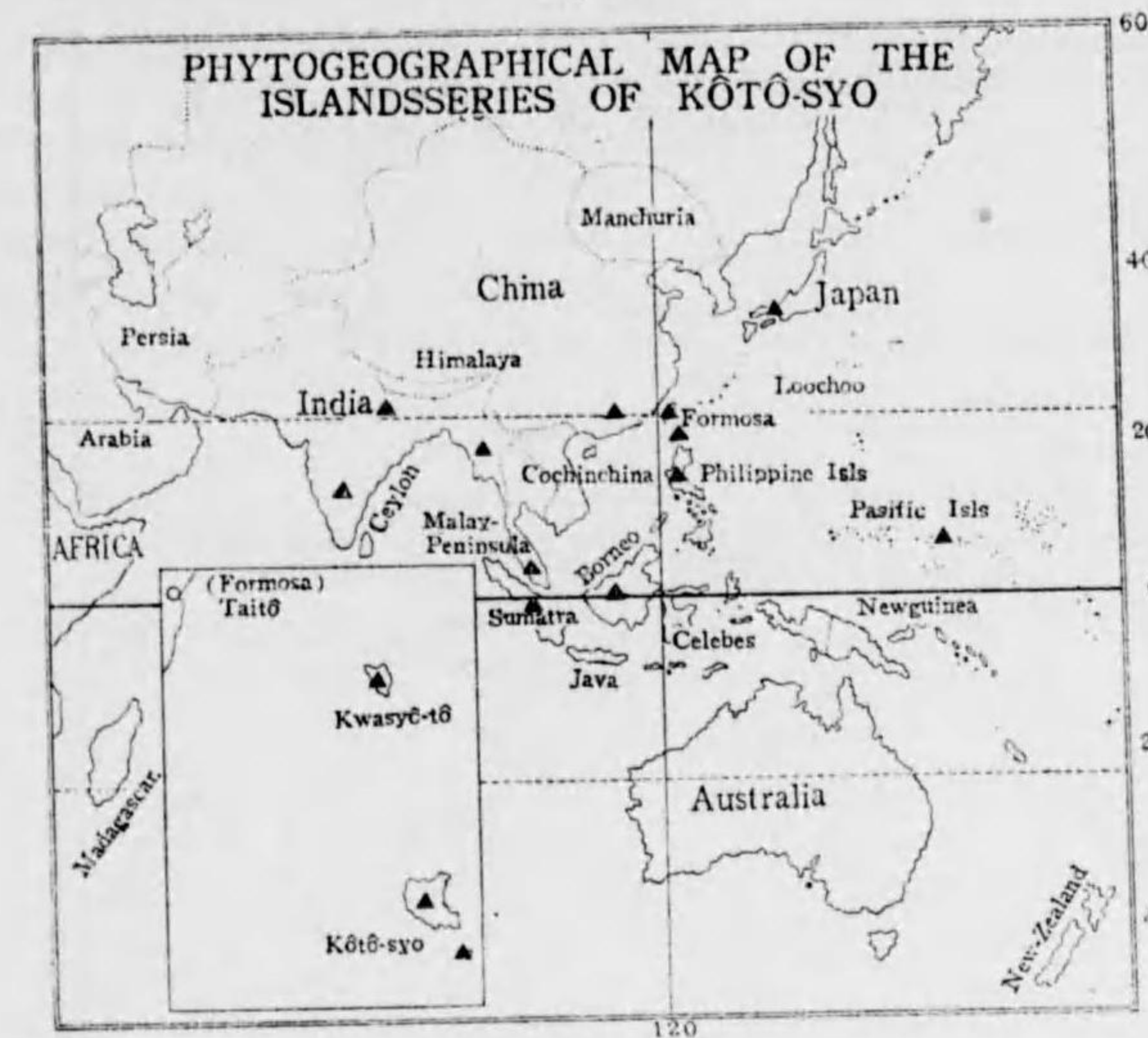
Nom. Jap. Ooba-muninsida.

Hab. Kōtō-syo, May 1924, S. Sasaki; *ibid.* June 1926, S. Sasaki; Kwasyō-tō, June 3, 1927, S. Sasaki; Jan. 1, 1929, S. Sasaki; Syō-kōtōsyo, July, 1911, et June 1926, S. Sasaki.

Distrib. Formosa, Southern China, Polynesia, Malay Peninsula & Archipelago, (also Philippine Himalaya.

Note: This species grows on rocks or edges of the tidal forests near the seashore.

Fig. 56



57. *ASPLENIUM NIDUS* LINN., Sp. Pl. 2 (1753) 1079; SWARTZ, Syn. Filic. (1806) 74; WILLD. Sp. Pl. 5 (1810) 303; HOOK. et ARNOTT, Bot. Capt. Beech. Voy. (1830-41) 74, 256 et 312; METTEN, Hort. Bot. Lips. (1856) 71; LOWE, Fern. Brit. Exot. 5 (1858) 147; METT., Aspl. (1859) 85; HOOK., Sp. Filic. 3 (1860) 77; BENTH., Fl. Hongk. (1861) 450; HOOK., 2 ed. Centur. Fern. (1861) 89, t. 36; MIQ., Prol. Fl. Jap. Filic. (1867) 337 et 389; HOOK. et BAK., Syn. Filic. (1867) 190; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876-79) 218; BAKER, Fl. Maurt. et Seych. (1877) 491; BENTH., Fl. Austral. 7 (1878) 744; BAKER, in Journ. Bot. 23 (1885) 104; SMITH, Fern. Brit. & Foreign, (1896) 226; HENRY, List Pl. Formos. (1896) 112; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 209; H. CHRIST, in Warburg, Monsunia 1 (1900) 71; YABE, in Bot. Mag. Tokyo, 16 (1902) 49; BAILEY, Queensl. Fl. 6 (1902) 1968; COPEL., Polypod. Philip. Isl. (1905) 79; MERRILL, in Philip. Journ. Sci. 1. Suppl. (1906) 17; MATS. et HAY., Enum. Pl. Formos. (1906) 604; C. CHRIST., Ind. Filic. (1906) 123; HATTORI, l. c. 16; ROSENB., Malay. Fern. (1908) 439; H. CHRIST, in Nova Guinea 8. Botanique 1 (1909) 150; ROBINSON, in Philip. Journ. Sci. Bot. 6 (1911) 191; MERR., Fl. Manila (1912) 51; ROSENSTOCK, in Nova Guinea, 8. Bot. 4 (1913) 721; KAWAK. et SASAKI, l. c. 22; ROSENB., Malay. Fern. All. Suppl. 1 (1916) 282; MAKINO et NEMOTO, Fl. Jap. (1925) 1582, et 2 ed. (1931) 26.

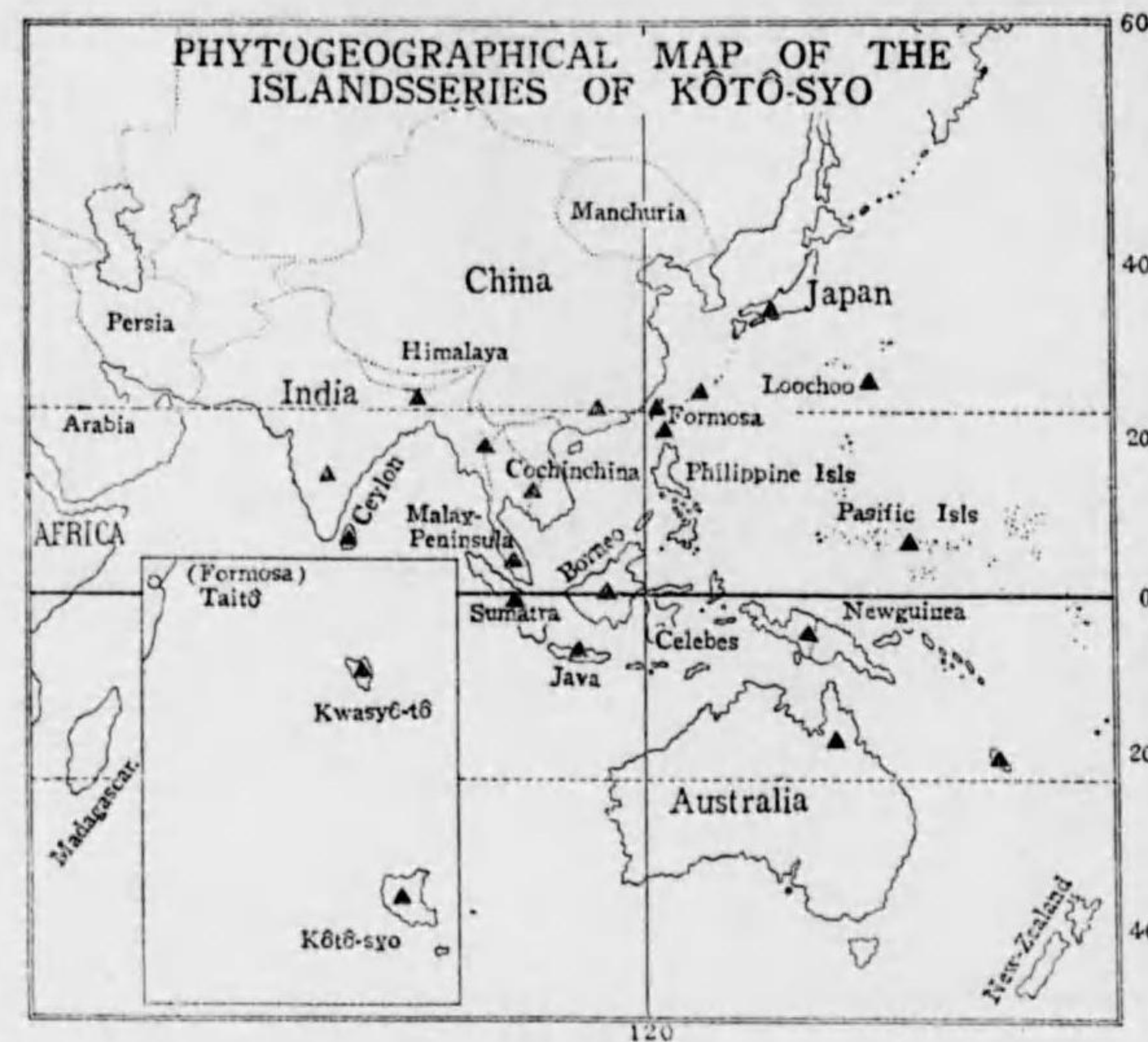
Neottopteris vulgaris J. SM., in Journ. Bot. 3 (1841) 409.

Neottopteris nidus J. SM., in Hook. Gen. (1842) t. 113B.

Asplenium ficifolium GOLDM., Nov. Acta 19. Suppl. 1 (1843) 461.

Thamnopteris Nidus PRESL, Epim. Bot. (1849) 68; HOOK. et BAKER, Syn. Filic. (1867) 190; BEDD., Fern. Brit. Ind. 2 (1868) t. 197, et Handb. Fern. Brit. Ind. (1892) 137.

Fig. 57



- Thamnopteris mauritiana* Pr., Epim. (1849) 68.
Thamnopteris orientalis Pr., Epim. (1849) 69.
Thamnopteris simplex Pr., Epim. (1849) 69.
Neottopteris mauritiana F&E, Gen. (1850-52) 203.
Neottopteris orientalis F&E, Gen. (1850-52) 203.
Neottopteris ovata J. Sm., apud Fée, Gen. (1850-52) 203.
Neottopteris rigida F&E, Gen. (1850-52) 203.
Neottopteris simplex F&E, Gen. (1850-52) 203.
Asplenium australasicum Hook., Filic. Exot. (1858) t. 88.
Asplenium simplex Mett., Aspl. (1859) 86, n. 3; Hook., Sp. Filic. 3 (1860) 78.

Nom. Jap. Oo-taniwatari, Taniwatari, Mituno-gasiwa.
 Serm. Nativ. Omaom.

Hab. Kōtō-syo, June 5, 1926, S. Sasaki; Kwasyō-tō, Aug. 1907, Z. Kobayasi, June 1927, 2 July 5, 1935, S. Sasaki.

Distrib. Japan, Bonin, Loochoo, Formosa, Southern China, Tropical region of the Old World & Mauritius, Seychellus.

Note: This species always epiphyte on the trees in the shade of neuter forests.

58. **ASPENIUM OBSCURUM** BLUME, Enum. Pl. Jav. et Insl. 2 (1828) 181; ROSENBL., Malay. Fern. (1908) 467; COPEL., Fern. South. China, in Philip. Journ. Sci. Bot. 3 (1908) 279; OGATA, Icon. Filic. Jap. 5 (1933) 208.

Asplenium serraeforme Mett., Aspl. (1859) 119, n. 75, t. 4, f. 1.

Asplenium unilaterale LAMARCK, var. *rahaense* HAYATA, Mater. Fl. Formos. (1911) 438; MAKINO et NEMOTO, Fl. Jap. (1925) 1584, et 2 ed. (1931) 28.

Hymenasplenium unilaterale HAY. var. *rahaense* HAY., Sasaki, List Pl. Formos. (1928) 26, et Cat. Govt. Herb. (1930) 26.

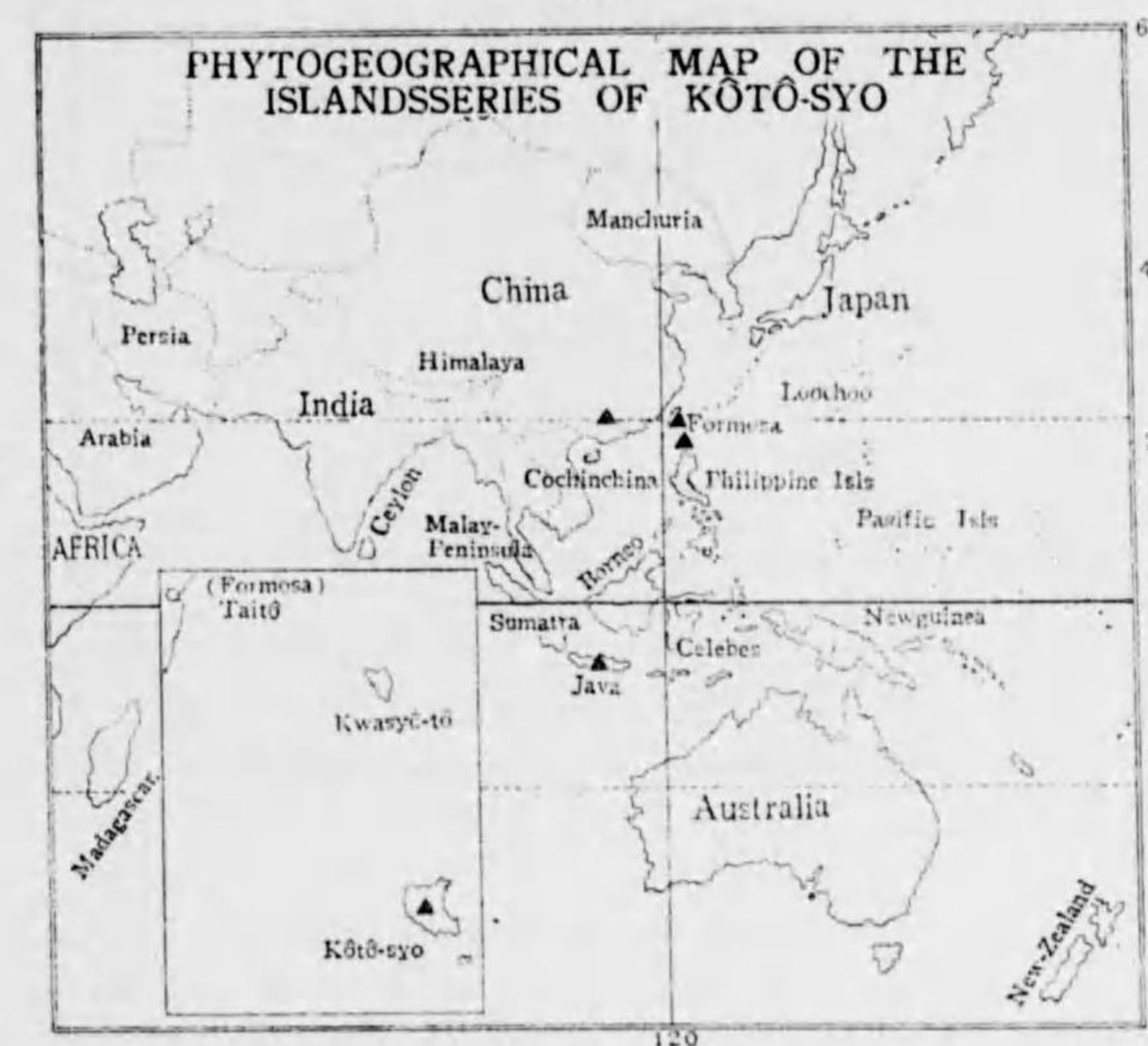
Nom. Jap. Rahao-sida.

Hab. Kōtō-syo, May 25, 1924, June 1926, Nov. 1934, S. Sasaki.

Distrib. Java, Southern China, Formosa.

Note: This species generally grows shady & moisty places in the neuter forests or along the valleys.

Fig. 58



59. **ASPENIUM PRIONURUS** J. SMITH., in Hook. Journ. Bot. 3 (1841) 408; METTEN, Aspl. (1859) 97 n. 33; HOOK., Sp. Fil. 3 (1860) 103; HOOK. et BAKER, Syn. Fil. (1867) 202; COPEL., Polyp. Philip. Isl. (1905) 82; C. CHRIST., Ind. Fil. (1906) 127; ROSENBL., Malay. Fern. (1908) 459.

Asplenium Wightianum var. *microphyllum* (non WALL. et BEDD.) YABE, in Bot. Mag. Tokyo, 16 (1902) 50.

Asplenium Matsumurae CHRIST, in Bot. Mag. Tokyo, 24 (1910) 241; C. CHRIST., Ind. Fil. Suppl. (1913) 12; HAYAT., Icon. Pl. Formos. 4 (1914) 225; KAWAKAMI et SASAKI, l. c. 22; SAKAGUTI, Gen. Ind. Fl. Okinawa (1924) 108.

Diplazium Matsumurae KODAMA, in Matsum. Icon. Pl. Koisik. 1 (1912) 88, t. 44; MAKINO et NEMOTO, Fl. Jap. (1925) 1604, et 2 ed. (1931) 47.

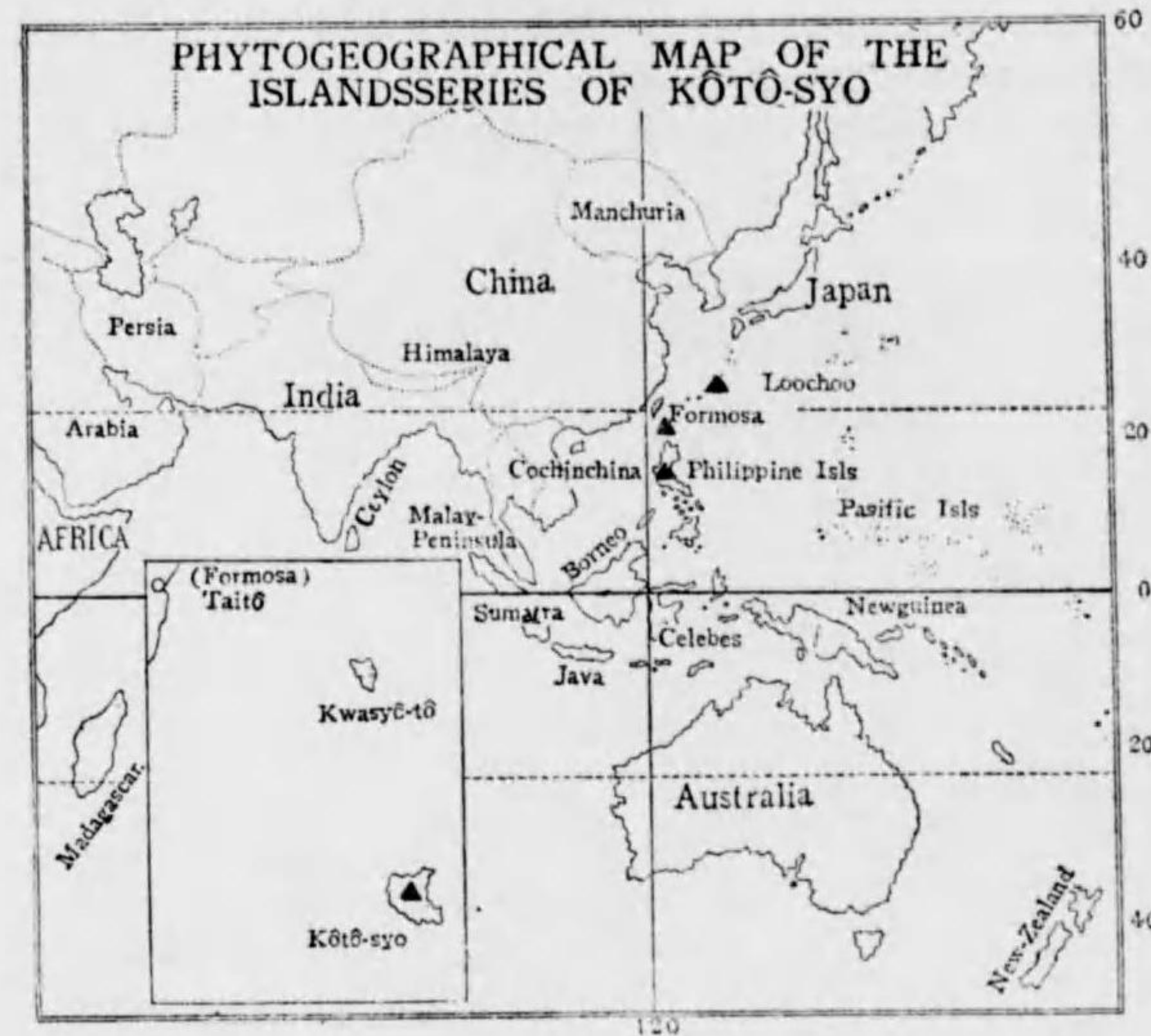
Nom. Jap. Sima-kurumasida, Kōtō-kurumasida, v. Matumura-sida.

Hab. Kōtō-syo, Nov. 1899, K. Miyake; ibid. May 1924, S. Sasaki; ibid. June 1926 et June 1928, S. Sasaki.

Distrib. Loochoo, Philippine.

Note: This species grows near the tidal forests or on the coral reefs.

Fig. 59

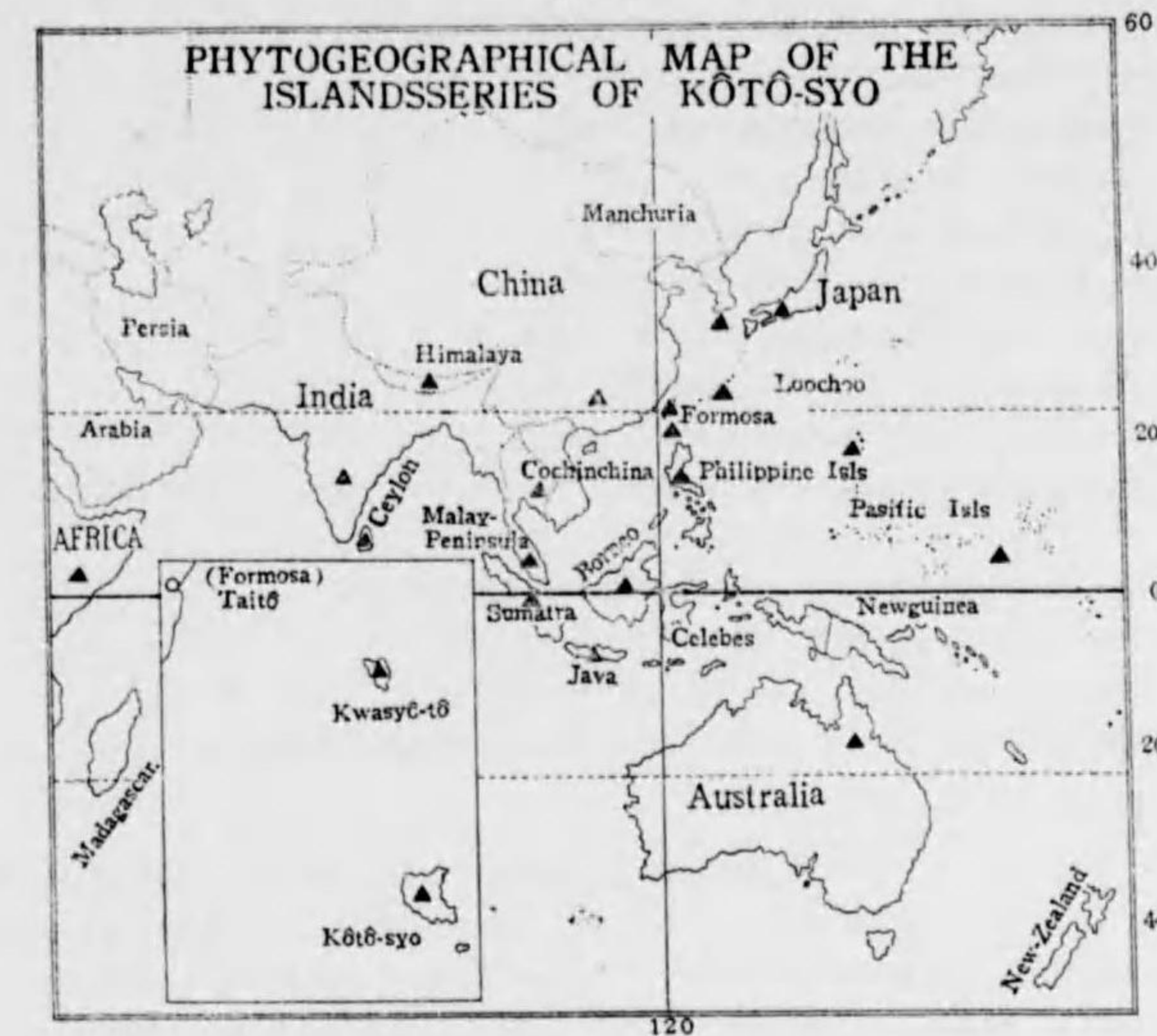


60. *ASPLENIUM UNILATERALE* LAMARCK, Encycl. Meth. Botan. 2

(1786) 305; CLARKE, Rev. Fern. North. Ind. (1880) 481; BEDD., Handb. Fern. Brit. Ind. (1892) 152; YABE, in Bot. Mag. Tokyo, 16 (1902) 50; C. CHRIST., Ind. Filic. (1906) 136; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 131; HATTORI, l. c. 16; ROSEN., Malay. Fern. (1908) 466; COPEL., in Philip. Journ. Sci. Bot. 3 (1908) 279; NAKAI, in Bot. Mag. Tokyo, 28 (1914) 78; KAWAKAMI et SASAKI, l. c. 22; ROSEN., Malay. Fern. All. Suppl. 1 (1916) 295; HAYATA, Icon. Pl. Formos. 8 (1919) 142; MAKINO et NEMOTO, Fl. Jap. (1925) 1584, et 2 ed. (1931) 27; OGATA, Icon. Filic. Jap. 5 (1933) 210.

Asplenium resectum SMITH, Icon. ined. 3 (1791) t. 72; SWARTZ, Syn. Filic. (1806) 80; WILLD., Sp. Pl. 5 (1810) 322; HOOK. et GREVILLE, Icon. Filic. (1828) t. 114; HOOK. et ARNOTT, Bot. Capt. Beech. Voy. (1830-41) 106; HOOK., Sp. Filic. 3 (1860) 130; HOOK. et BAKER, Syn. Filic. (1867) 210; BEDD., Fern. South. Ind. 2 ed. (1873) 45, t. 132; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 219; BAKER, Fl. Maurit. & Seych. (1877) 485; BAKER, in Journ. Bot. 23 (1885) 104; SMITH, Fern. Brit. & Foreign, (1896) 314; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 214; H. CHRIST., in Warburg, Monsunia, 1 (1900) 71; BAIL., Queensl. Fl. 6 (1902) 1970; COPEL., Polypod. Philip. Isl. (1905) 81; C. CHRIST., Ind. Filic. (1906) 136; MATSUM. et HAV., Enum. Pl. Formos. (1906) 605; KAWAKAMI et SASAKI l. c. 22.

Fig. 60



Asplenium cataractarum ROSENSTOCK, in Hedw. Band 56 (1911) 334.

Hymenasplenium unilaterale HAYATA, in Bot. Mag. Tokyo, 41 (1927) 712; MASAM., Fl. Geob. Stud. Yakus. (1934) 82.

Nom. Jap. Hōbi-sida, v. Hime-kuzyakusida.

Hab. Kōtō-syo, June 1926, S. Sasaki; ibid. Sept. 21, 1933, S. Sasaki; Kwasyō-tō, June 5, 1927, S. Sasaki!

Distrib. Japan, Korea, Loochoo, Bonin, Malay Archipelago, Polynesia, Tropical Asia, Eastern Africa, Mauritius & Seychellus.

Note: This species grows shade wet places in the neuter forests.

BLECHNUM LINN., Sp. Pl. (1753) 1077; WILLD., Sp. Pl. 5 (1810) 407; HOOK., Gen. Pl. (1840) t. 54, et Sp. Filic. 2 (1858) 42; BENTH., Fl. Hongk. (1861) 444; BEDD., Fern. South. Ind. (1863) 10; HOOK. et BAK., Syn. Filic. (1867) 183; BENTH., Fl. Austral. 7 (1878) 738; BEDD., Handb. Fern. Brit. Ind. (1892) 130; SMITH, Fern. (1896) 196; DIELS, in Engl. u. Prantl, Nat. Pl.-fam. 1. 4 (1899) 245; BAIL., Queensl. Fl. 6 (1902) 1965; COPEL., Polyp. Philip. Isl. (1905) 89; ROSEN., Malay. Fern. (1908) 385.

Asplenium LINN., Gen. Pl. (1737) 783, et Sp. Pl. (1753) 1078, pro parte.

Onoclea LINN., Sp. Pl. (1753) 1062, pro parte.

Struthiopteris WEIS, Pl. Crypt. Fl. Gott. (1770) 286.

Lomaria WILLD., Mag. Ges. Nat. Fr. Berlin, 3 (1809) 160.

Stegania R. BROWN, Prod. Fl. Nov. Holl. (1810) 152.

Salpichluena J. SM., in Hook. Gen. Fil. (1842) t. 93.

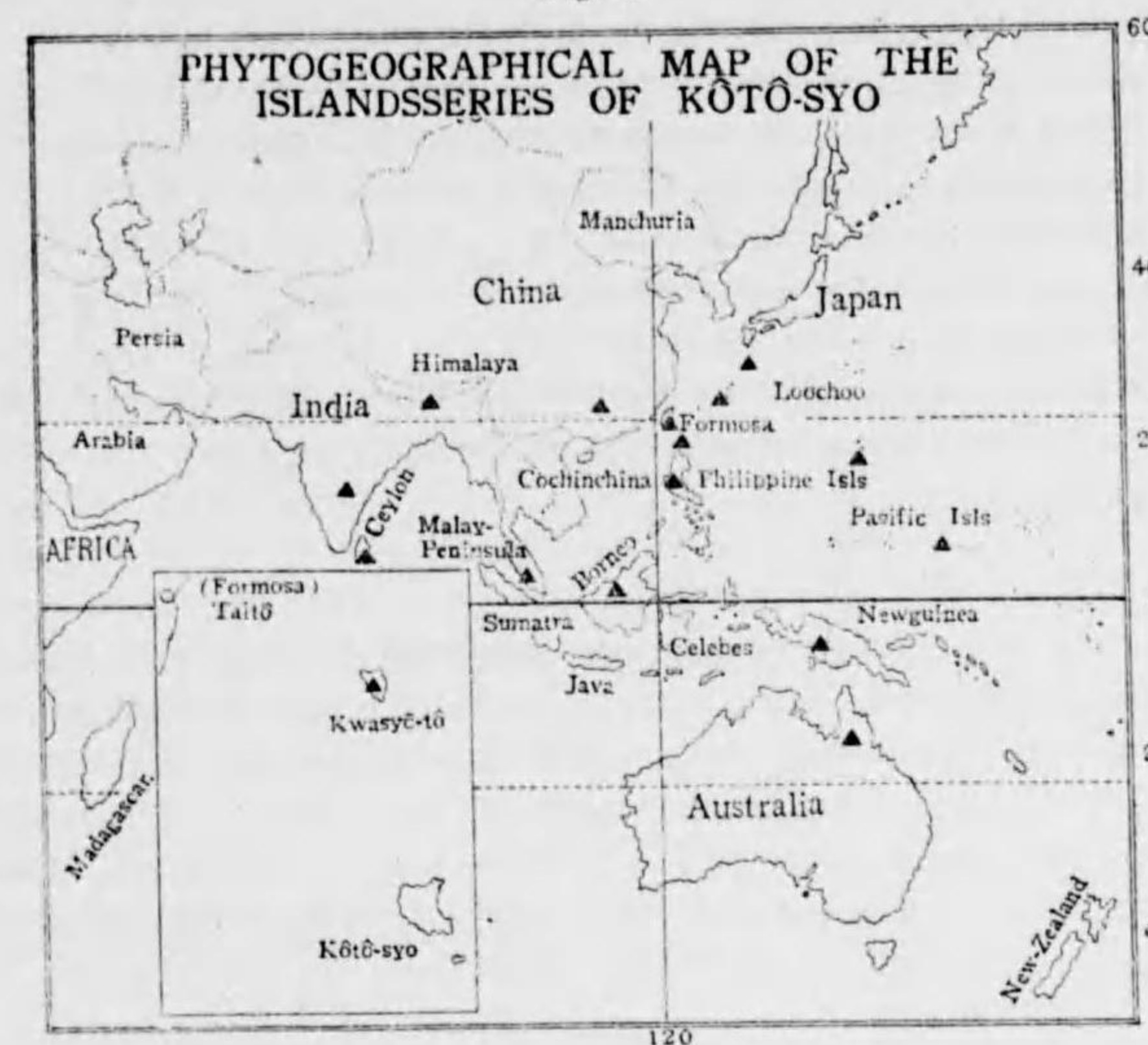
- Parablechnum* PRESL, Epim. Bot. (1849) 109.
Distaxia PRESL, Epim. Bot. (1849) 110.
Mesothema PRESL, Epim. Bot. (1849) 111.
Spicanta PRESL, Epim. Bot. (1849) 114.
Blechnopsis PRESL, Epim. Bot. (1849) 115.
Diafnia PRESL, Epim. Bot. (1849) 119.
Orthogramma PRESL, Epim. Bot. (1849) 121.
Lomaridium PRESL, Epim. Bot. (1849) 154.
Paralomaria FÉE, Gen. Fil. (1850-52) 68.
Blechnopteris TREVIS., Atti dell'Ist Veneto 2. 2 (1851) 166.
Blechnidium MOORE, Ferns Gr. Brit. Nat. Pr. Oct. 2. ed. 2 (1860) 210, et Ind. Fil. (1860) 155.
Struthiopteris MEITEN., Ann. Sc. Nat. 4. 15 (1861) 84.
Loxochlena J. SM., Hist. Fil. (1875) 304.
Lomaryocycas J. SM., Hist. Fil. (1875) 305.

Distrib. Over the Tropical & Subtropical regions of all the World.

61. **BLECHNUM ORIENTALE** LINN., Sp. Pl. (1753) 1077, et 2 ed. (1763) 1535; HOOK. et ARN., Bot. Beech. Voy. (1832) 75, et (1840) 257; MEIT., Fl. Hort. Bot. Lips. (1856) 62; HOOK., Fil. Exot. (1857-59) t. 77; LOWE, Fern. Brit. Exot. 4 (1859) 97; HOOK., Sp. Fil. 3 (1860) 52; BENTH., Fl. Hongk. (1861) 444; BEDD., Fern. South. Ind. (1863) t. 29; HOOK. et BAK., Syn. Fil. (1867) 186; HARRINGT., in Journ. Linn. Soc. 16 (1877) 28; BENTH., Fl. Austr. 7 (1878) 739; CLARKE, Rev. Fern. North. Ind. (1880) 474; LUERSS, in Engl. Bot. Jahrb. 4 (1883) 355; BEDD., Handb. Fern. Brit. Ind. (1892) 132; MAKINO, in Bot. Mag. Tokyo, 9 (1895) 9; HENRY, List Pl. FOMOS. (1896) 111; H. CHRIST, Farnkr. Erd. (1897) 182, et in Warburg, Monunia, 1 (1900) 65; COPEL., Polyp. Philip. (1905) 89; MATSUM. et HAYAT., Enum. Pl. FORMOS. (1906) 608; ROSENB., Malay. Fern. (1908) 387; H. CHRIST, Nova Guinea, 8. Bot. 1 (1909) 152; MATH., in Journ. Linn. Soc. 39 (1911) 351; MERR., Enum. Hainan. Pl. (1927) 15; MAKINO et NEMOTO, Fl. Jap. (1925) 1592, et 2 ed. (1931) 35; MASAM., Fl. Geob. Yakus. (1934) 82.

- Asplenium orientale* BERHN., in Schrad. Journ. 1801 1 (1802) 17.
Blechnum longifolium CAV., Descr. Pl. Hisp. (1802) 263.
Blechnum salicifolium KAULF., Enum. Fil. (1824) 160.
Blechnum pectinatum PRESL, Pter. Rel. Haenk. 1 (1825) 51.
Blechnum lomarioides GAUD., in Freyc. Voy. Bot. (1827) 396.
Blechnum javanicum BLUME, Enum. Pl. Jav. 2 (1828) 197.
Blechnum pyrophyllum BL. ibid.
Blechnum imbricatum BL. l. c. 198.
Blechnum elongatum PRESL, Tent. Pterid. (1836) 103.
Blechnum macrophyllum GOLDM., in Nov. Act. 19. Suppl. (1843) 459.
Blechnum agrostifolium GOLDM., ibid.
Blechnum decurrense ROXB., in Calc. Journ. 4 (1844) 502.
Blechnum moluccanum ROXB., ibid.
Blechnum adnatum REINW., in de Vriese, Ned. Kr. Arch. 1 (1846) 10.
Blechnopsis Cumingiana PRESL, Epim. Bot. (1849) 116.

Fig. 61



Blechnopsis latifolia PRESL, Epim. Bot. (1849) 116.

Blechnopsis pyrophylla PRESL, ibid.

Blechnopsis salicifolia PRESL, ibid.

Blechnopsis elongata PRESL, l. c. 117.

Blechnopsis orientalis PRESL, ibid; NAKAI, in Bull. Biogeogr. Soc. Jap. 1 (1930) 251.

Blechnopsis pectinata PRESL, l. c. 118.

Nom. Jap. Hiriyū-sida.

Hab. Kwasyō-tō, June 1927, et July 5, 1935, S. Sasaki!

Distrib. Yaku-sima, Loochoo, Bonin, Formosa, China, Philippine, India, Malay Peninsula, Polynesia, Australia.

Note: This species grows always open places or sometimes mixed in grassland.

STENOCHLAENA J. SMITH, Journ. Bot. 3 (1841) 401, 4 (1841) 149; BEDD., Fern. South. Ind. (1863) 68, et Handb. Fern. Brit. Ind. (1892) 421; SMITH, Fern. (1896) 207; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 251; COPEL., Polyp. Philip. (1905) 88; ROSENB., Malay, Fern. (1908) 718.

Acrostichum (non LINN.) COMMERS, Mirb. Dict. Sci. Nat. 1 (1816) 244; BORY, Bel. Voy. Bot. 2 (1833) 21, t. 2; MART., Icon. Pl. Crypt. Bras. (1834) 86, t. 24; KUNZE, Flora, (1839) 46; KUNZE, Farnkr. 1 (1845) 171, t. 72; KLOTZ, Linn. 20 (1847) 429; HOOK., Gard. Fern. (1862) t. 16; HOOK., Sp. Filic. 5 (1864) 194, pro parte; HOOK. et BAK., Syn. Fil. (1868) 399, pro parte; CLARKE, in Trans. Linn. Soc. 2. Bot. 1 (1880) 577; CHRIST, Bull. Soc. Bot. Belg. 35 (1896) 243; RACIBORSK., Pterid. Fl. Buit. (1898) 54, et Bull. Intern. l'Acad. Sci. Cracovie. Class. Math. et Nat. (1902) 59.

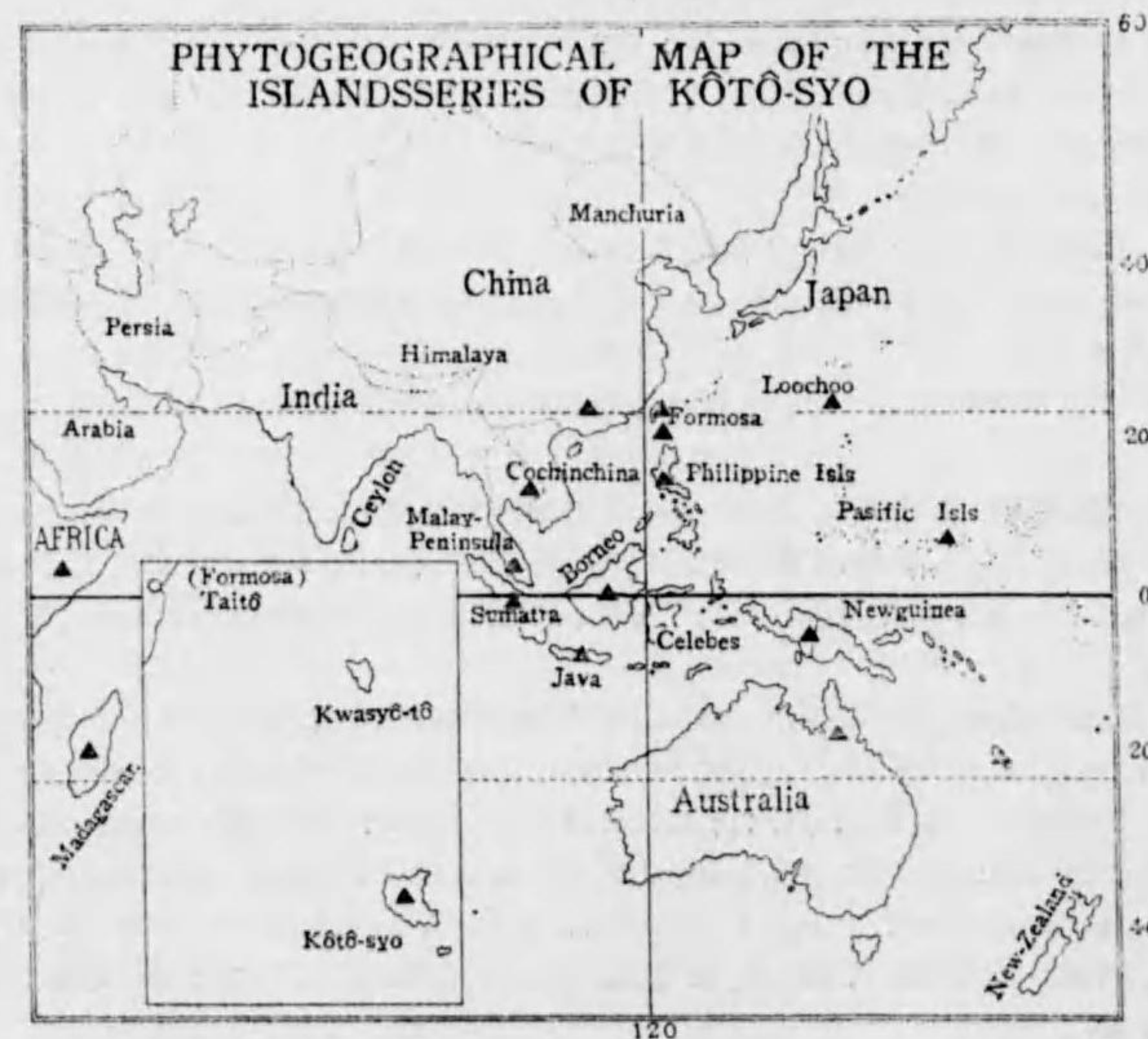
Onoclea LINN., Sp. Pl. (1753) 1062, pro parte.
Lomaria WILLD., Mag. Ges. Nat. Fr. Berlin 3 (1809) 160, pro parte.
Polybotrya HUMB. et BONPL., Willd. Sp. Pl. 5 (1810) 99, pro parte.
Olfersia RADDI, Opusc. Sci. Bologna 3 (1819) 283, pro parte.
Leptophyllum BLUME, Fl. Jav. Fil. Suppl. t. 95, 96.
Lomariopsis FÉE, Hist. Acrost. (1845) 10, 66; SMITH, Hist. Fil. (1875) 140.
Catraria PRESL, Epim. Bot. (1849) 166.
Lomariobotrys FÉE, Gen. Fil. (1850-52) 45.
Teratophyllum METTEN, Kuhn, Ann. Mus. Lugd. Bat. 4 (1869) 296, pro parte.
Chrysoodium (non FÉE) LUERS., Fil. Graeff. (1871) 71, 73; SALOM. Nom. (1883) 135.

Distrib. Pantropic.

62. *STENOCHLAENA SORBIFOLIA* J. SM., in Hook. Journ. Bot. 4 (1841) 149; BEDD., Handb. Fern. Brit. Ind. (1892) 423; DIELS, in Engl. u. Prantl. Nat. Pfl.-fam. 1. 4 (1899) 251; YABE, in Bot. Mag. Tokyo, 16 (1902) 50; MATSUM., Ind. Pl. Jap. 1 (1904) 347; COPEL., Polyp. Philip. (1905) 88; MERR., in Philip. Journ. Sci. 1. Suppl. 1 (1906) 18; C. CHRIST., Ind. Fil. (1906) 625; MATSUM. et HAY., Enum. Pl. Formos. (1906) 609; ROSENBERG., Malay. Fern. (1908) 720; H. CHRIST., in Nova Guinea, 8. Bot. 1 (1909) 151; HAYATA, Gen. Ind. Fl. Formos. (1916) 115; MAK. et NEM., Fl. Jap. (1925) 1666; SASAKI, Cat. Govt. Herb. (1930) 42; MAK. et NEM., Fl. Jap. 2 ed. (1931) 109.

Acrostichum sorbifolium LINN., Sp. Pl. (1753) 1069; WILLD., Sp. Pl. 5 (1810) 115; HOOK., Sp. Fil. 5 (1864) 239; HOOK. et BAK., Syn. Fil. (1868) 412; BAKER, Fl. Maurit. (1877) 513; BENTH.,

Fig. 62



Fl. Austral. 7 (1878) 779.

Onoclea sorbifolia Sw., Syn. Fil. (1806) 112.

Lomaria sorbifolia KAULF., Enum. Fil. (1824) 151.

Olfersia sorbifolia PR., Tent. Pter. (1836) 234.

Lomariopsis leptocarpa FÉE, Prem. Mem. (1844) 69, pl. 29; NAKAI, in Bot. Mag. Tokyo, 47 (1933) 171.

Lomariopsis sorbifolia FÉE, Acrost. (1845) 69; BEDD., Fern. Brit. Ind. 2 (1868) t. 192;

H. CHRIST., Farnkr. d. Erde (1897) 39.

Chrysoodium sorbitolium LUERS., Fil. Graeff. (1871) 71.

Polybotrya sorbifolia KEYS., Polyp. et Cyath. Herb. Bung. (1873) 32.

Nom. Jap. Oo-kinoborisida.

Hab. Kōtō-syo, June 5, 1926, S. Sasaki!

Distrib. Spreaded in Formosa and round the World in the tropics, after Dr. Nakai this species is only distributed from Philippine, Borneo, Java, Sumatra, and is not all over the tropic countries.

Note: This species generally grows creeping up on the barks of the trees in the neuter forests.

WOODWARDIA J. SMITH, Mém. Acad. Turin 5 (1797) 411; WILLD., Sp. Pl. 5 (1810) 416; BENTH., Fl. Hongk. (1861) 445; HOOK. et BAKER, Syn. Filic. (1867) 188; BEDD., Handb. Fern. Brit. Ind. (1892) 135; SMITH, Fern. (1896) 204; DIELS, in Engl. u. Prantl. Nat. Pfl.-fam. 1. 4 (1899) 253; COPEL., Polyp. (1905) 91; ROSENBERG., Malay. Fern. (1908) 390.

Acrostichum LINN., Sp. Pl. (1753) 1067, pro parte.

Blechnum (non LINN.) WALT., Fl. Carol. (1788) 28; LINN., Mant. Pl. (1771) 307; HOUTT., Nat. Hist. 14 (1783) t. 97 f. 1; POIR., Encycl. Suppl. 1 (1810) 644.

Doodia (non R. BROWN) PRESL, Tent. Pterid. (1836) 99; BEDD., Fern. South. Ind. (1863) 74.

Anchistea PRESL, Epim. Bot. (1849) 71.

Lorinseria PRESL, Epim. Bot. (1849) 72.

Distrib. Warmer regions, chiefly of the northern Hemisphere.

63. *WOODWARDIA ORIENTALIS* Sw., in Schrad. Journ. 1800. 2 (1801) 76, et Syn. Fil. (1806) 116; WILLD., Sp. Pl. 5 (1810) 417; SPRENGL., Syst. Veg. 4 (1827) 94; HOOK., Sp. Fil. 3 (1860) 68; MIQ., in Ann. Mus. Bot. Lugd. Bat. 3 (1867) 173; HOOK. et BAKER, Syn. Fil. (1867) 188; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 216; SMITH, Fern. (1896) 205; NAKAI, in Bot. Mag. Tokyo, 39 (1926) 104; SASAKI, Cat. Govt. Herb. (1930) 44; MAK. et NEM., Fl. Jap. 2. ed. (1931) 112; MASAM., Fl. Geob. Stud. Yakus. (1934) 84.

Blechnum japonicum (non LINN.) HOUTT., in Nat. Hist. 14 (1783) t. 97, f. 1.

Woodwardia radicans (non SMITH) EATON, in Perry's Exp. (1856) 329; H. CHRIST., in Warb. Mons. 1 (1900) 66; MATSUM., Ind. Pl. Jap. 1 (1904) 352; MATSUM. et HAY., Enum. Pl. Formos. (1906) 609.

Woodwardia radicans Sw. var. *orientalis* LUERS., Fl. (1876) 292; YABE, in Bot. Mag. Tokyo, 16 (1902) 50; C. CHRIST., Ind. Fil. (1905) 155.

Woodwardia intermedia CHRIST, in Bull. Herb. Boiss. 2 ser. 4 (1904) 618.

Woodwardia radicans var. *japonica* CHRIST., Ind. Fil. (1906) 658.

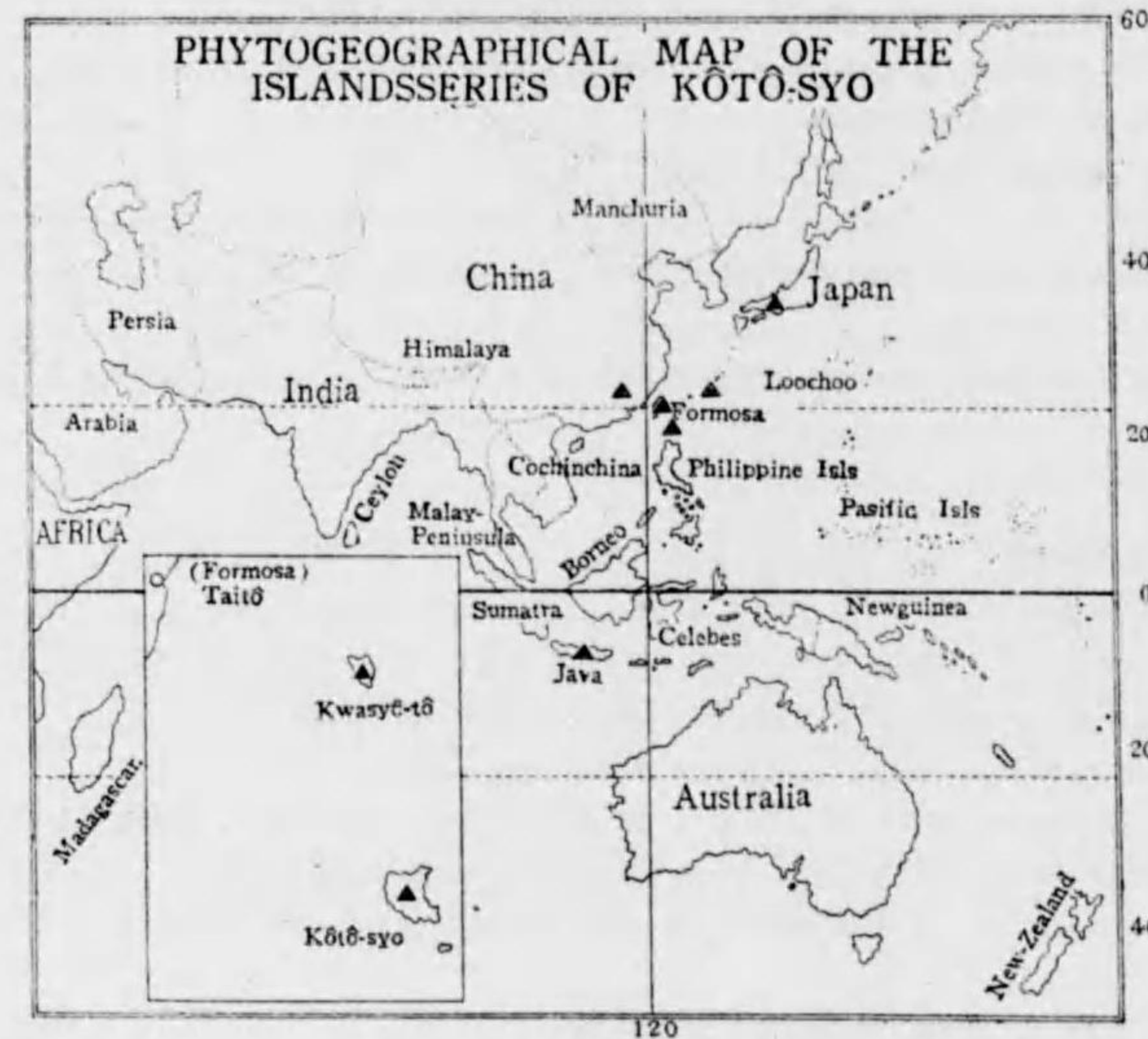
Nom. Jap. Komoti-sida.

Hab. Kōtō-syo, Apr. 15, 1907, U. Mori!; ibid. July 16, 1924, Y. Komuro; ibid. June 24, 1926, S. Sasaki!; Kwasyō-tō, Jan. 3, 1929; ibid. Apr. 17, 1932, ibid. July 5, 1935, S. Sasaki!

Distrib. Japan, Loochoo, Formosa, China.

Note: This species generally grows on the cliffs or at valleys all over the island.

Fig. 63



ADIANTUM LINN., Sp. Pl. (1753) 1094; HOOK., Gen. Filic. (1840) t. 66, b; HOOK., Sp. Filic. 2 (1856) 1; BENTH., Fl. Hongk. (1861) 446; BEDD., Fern. South. Ind. (1863) 1; HOOK., Handb. New-Zeal. Fl. (1867) 359; HOOK. et BAK., Syn. Filic. (1867) 113; BAKER, Fl. Maurit. (1877) 473; BENTH., Fl. Austral. 7 (1878) 722; BEDD., Handb. Fern. Brit. Ind. (1892) 82; SMITH, Fern. (1896) 182; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 282; BAIL., Queensl. Fl. 6 (1902) 1956; COPEL., Polyp. Philip. (1905) 92; ROSENBERG, Malay. Fern. (1908) 319; MERR., Fl. Manil. (1912) 54.

Adiantellum PRESL, Tent. Pterid. (1836) 157.

Hewardia J. SM., in Journ. Bot. 3 (1841) 432.

Apotomia FÉE, Gen. Fil. (1850-52) 112.

Synechia FÉE, Gen. Fil. (1850-52) 113.

Mesopleuria MOORE, Ind. Fil. (1857) 36.

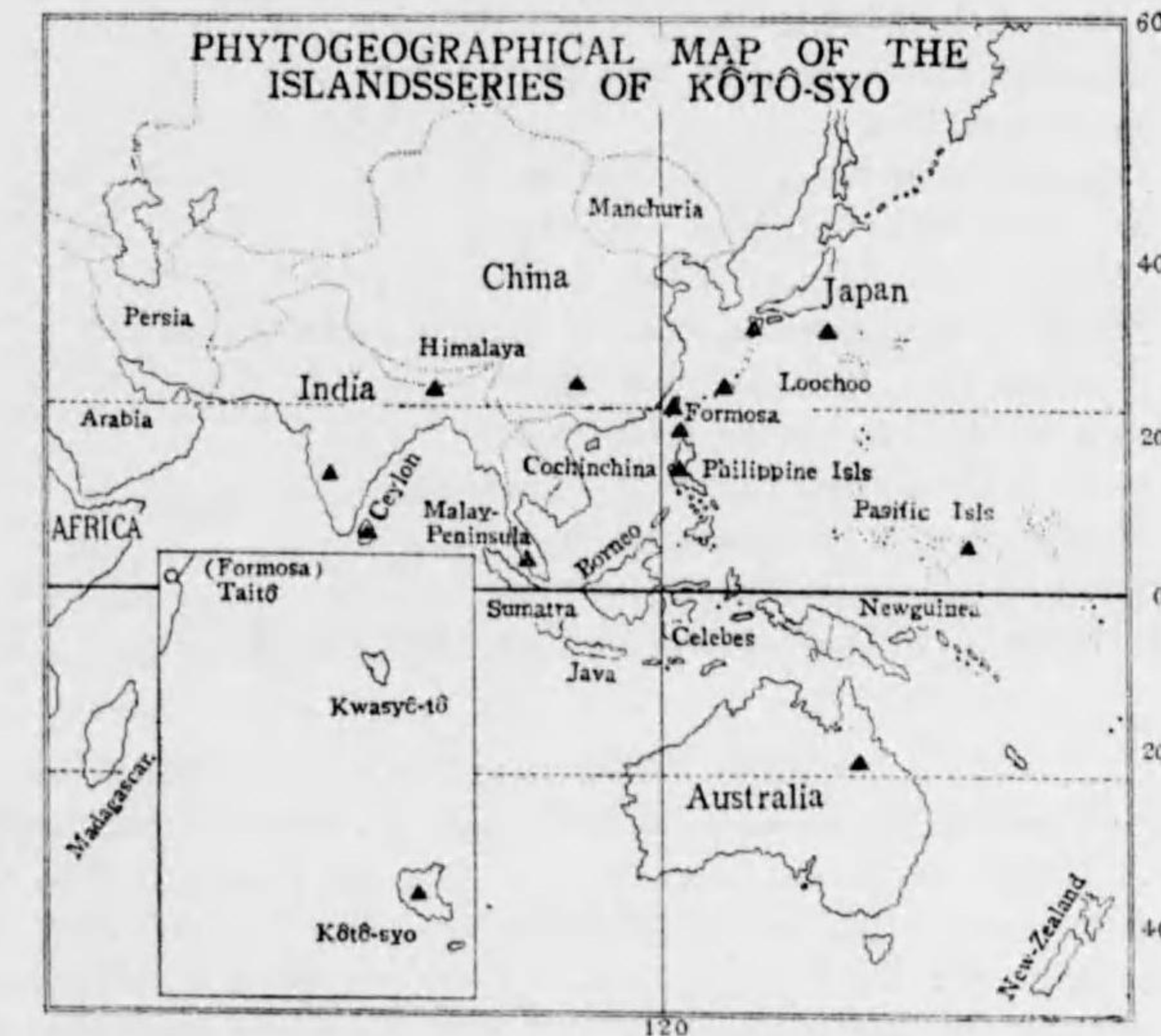
Isotes MOORE, Ind. Fil. (1857) 37.

Distrib. Tropical & Subtropical and some species also in the Temperate Zones.

64. **ADIANTUM CAPILLUS-VENERIS** LINN., Sp. Pl. 2 (1753) 1096; SWARTZ, Syn. Filic. (1806) 124; HOOK. et ARNOT, Brit. Fil. (1850) 576; HOOK., Sp. Filic. 2 (1858)

36; BEDD., Fern. South. Ind. 2 ed. (1873) 2, t. 4; MILDE, Filic. Europ. et Atlant. (1867) 30; HOOK. et BAKER, Syn. Filic. (1867) 123; FÉE, Cryptog. Vascul. d. Brésil, 1 (1869) 38; STEWART, Punjab. Pl. (1869) 265; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 211; BAKER, Fl. Maurit. et Seychelles (1877) 474; BENTH., Fl. Aust. 7 (1878) 723; CLARKE, Rev. Fern. North. Ind. (1880) 453; LUERSSEN, in Engl. Bot. Jahrb. 4 (1883) 355; BAKER, in Journ. Bot. 23 (1885) 103; BEDD., Handb. Fern. Brit. Ind. (1892) 84; DIELS, Fl. Centr. China (1898) 203, et in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 284; BENTH., rev. HOOK. Handb. Brit. Fl. 8 ed. (1904) 568; FITCH et SMITH, Illustr. Fl. 6 ed. (1905) t. 319, n. 1309; COPELAND, Polypod. Philip. Isl. (1905) 93; C. CHRIST., Ind. Fil. (1905) 24; MATSUM. et HAY., Enum. Pl. FORMOS. (1906) 615; ROSENBERG, Malay. Fern. (1908) 333; COPEL., in Philip. Journ. Sci. Bot. 3 (1908) 280; RIDLEY, Fl. Low. Siam, (1911) 231; KAWAKAMI et SASAKI, l. c. 22; MAKINO et NEMOTO, Fl. Jap. (1925) 1572; OGATA, Icon. Fil. Jap. 1 (1928) 1; MAK. et NEM., l. c. 2 ed. (1931) 17.

Fig. 64



Adiantum coriandritolium LAM., Fl. Franc. 1 (1778) 27.

Adiantum fontanum SALISB., Prod. (1796) 404.

Adiantum capillus SW., Schrad. Journ. 1800 2 (1801) 83.

Adiantum cuneifolium STOKES, Bot. Mat. Med. 4 (1812) 612.

Adiantum africanum R. BROWN, in Tuckey, Narrat. Exp. Zaire (1818) 463.

Adiantum tenerum LINN., V. Buch, Abh. Akad. Berlin 1816-17 (1819) 360; ROXB., Calc. Journ. 4 (1844) 513.

Adiantum Moritzianum LINK, Fil. Sp. (1841) 71.

Adiantum trifidum WILLD., FÉE, Gen. (1850-52) 114; BOLLE, Bonpl. 3 (1855) 121.

Adiantum pseudo-capillus FÉE, Gen. (1850-52) 118.

Adiantum Visianii SCHLOSS et VUKOT, Fl. Croat. (1869) 1319.

Nom. Jap. Hōrai-sida.

Hab. Kōtō-syo, June 1911, *ibid.* May 1924, *ibid.* June 1926, S. Sasaki.

Distrib. East and Southern Europe, Africa, Tropical Asia, Queensland, Polynesia, South U. S. America and East Columbia, Amazonas.

Note: This species grows near the valley of Yayū and Imorotto at chiffs of the coral stone and near sides gushing pure water.

PTERIS LINN., Sp. Pl. (1753) 1073; WILLD., Sp. Pl. 5 (1810) 355; HOOK., Gen. Filic. (1840) t. 64, A; HOOK., Sp. Filic. 2 (1858) 154; BENTH., Fl. Hongk. (1861) 447; BEDD., Fern. South. Ind. (1863) 11; HOOK., Handb. New-Zeal. Fl. (1867) 363; HOOK. et BAKER., Syn. Filic. (1867) 153; BAKER., Fl. Maurit. (1877) 479; BENTH., Fl. Austral. 7 (1878) 727; BEDD., Handb. Fern. Brit. Ind. (1892) 104; SMITH, Fern. (1896) 188; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 290; BAIL., Queensl. Fl. 6 (1902) 1959; COPEL., Polyp. Philip. (1905) 98; ROSENB., Malay. Fern. (1908) 351; MERR., Fl. Manila (1912) 55.

Lemapteris RAFINESQUE, Journ. Phys. 89 (1819) 262.

Peripteris RAFIN., l. c.

Campteria PRESL, Tent. Pterid. (1836) 146.

Litobrochia PRESL, Tent. Pterid. (1836) 148.

Pteridopsis LINK, Fil. Sp. (1841) 49.

Macropteris WEBB. et BERTH., Hist. Nat. Canar. 3. 2. Phyt. 3 (1847) 450.

Pycnodoria PRESL, Epim. Bot. (1849) 100.

Heterophlebium FÉZ., Gen. Fil. (1850-52) 139.

Heteropteris FÉZ., Crypt. Vasc. Bresil. 1 (1869) 123.

Parapteris KEYSERL., Pol. Cyath. Hb. Bung. (1873) 4.

Schizostege HILLEBR., Fl. Hawaii. (1888) 631.

Distrib. Warmer of over the World, especially tropical both Hemispheres.

65. **PTERIS ATTENUATA** Sw., Schrad. Journ. 1800 2 (1801) 66.

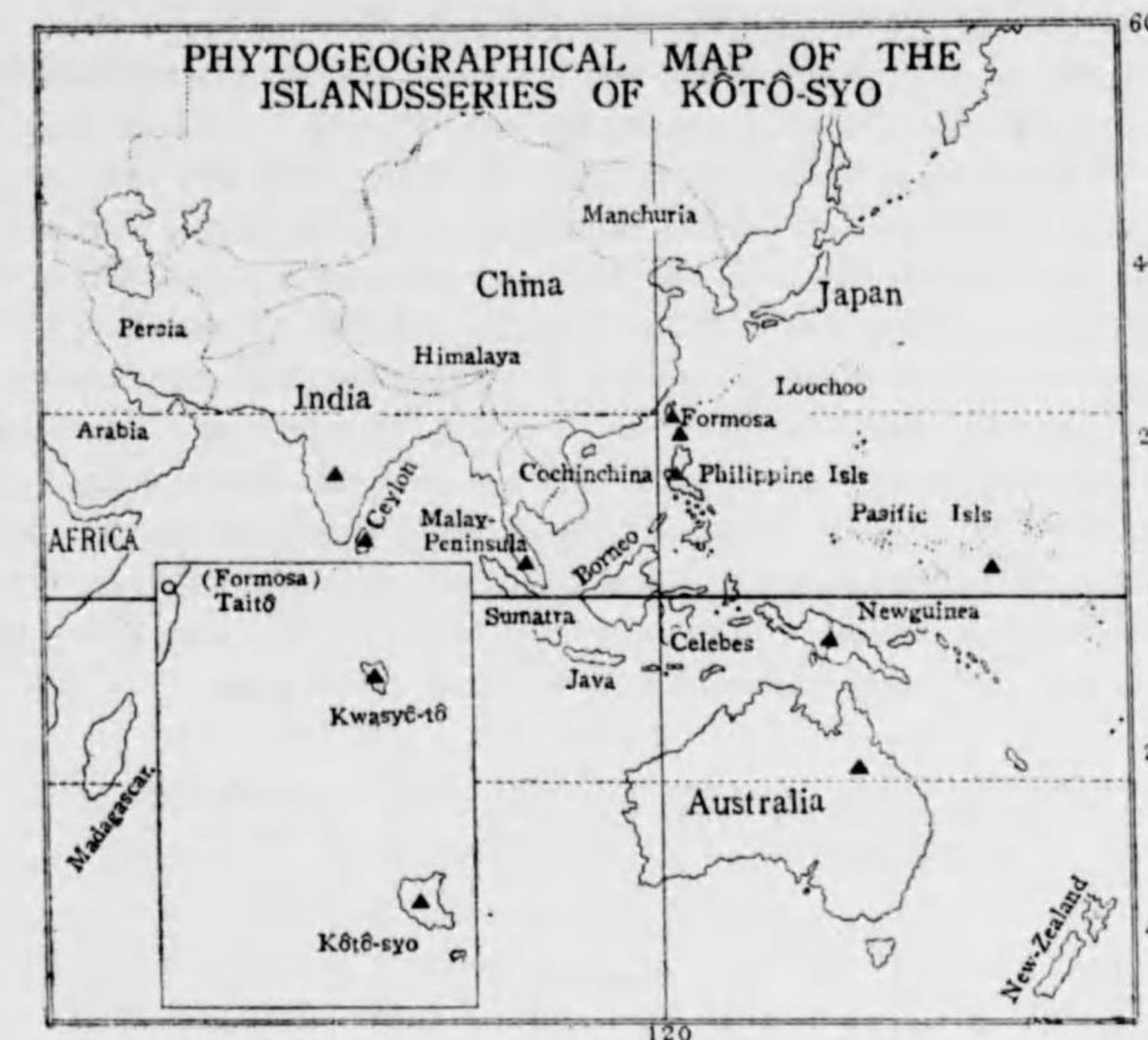
Pteris tripartita Sw., Schrad. Journ. 1800. 2 (1801) 67, et Syn. Fil. (1806) 100 et 293; WILLD., Sp. Pl. 5 (1810) 400; BLUME, Enum. Pl. Jav. 2 (1828) 211; PRESL, Pter. Reliq. Haenk. 1. 1 (1825) 58; AGARDH, Rec. Sp. Gen. Pter. (1839) 72; HOOK., Sp. Fil. 2 (1858) 225, t. 138, B; COPEL., Polyp. Philip. (1905) 103; C. CHRIST., Ind. Fil. (1906) 608; MERR., in Philip. Journ. Sci. 1. Suppl. 1 (1906) 19; COPEL., in l. c. Bot. 2 (1907) 134; MERR., l. c. 3 (1908) 392; ROSENB., Malay. Fern. (1908) 375; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 86; MERR., Fl. Manila (1912) 57; MAK. et NEM., Fl. Jap. (1925) 1665; SASAKI, List Pl. Formos. (1928) 40, et Cat. Govt. Herb. (1930) 42; MAK. et NEM., Fl. Jap. 2 ed. (1931) 108.

Pteris marginata BORY, Voy. 2 (1804) 192; WILLD., Sp. Pl. 5 (1810) 399; AGARDH, Rec. Sp. Gen. Pter. (1839) 67; HOOK. et BAKER., Syn. Fil. (1867) 172; BAKER., Fl. Maurit. (1877) 482; BENTH., Fl. Austral. 7 (1878) 733; HENRY, List Pl. Formos. (1896) 111; RACIBORSK., Pter. Fl. Buitenz. 1 (1898) 158; H. CHRIST., in Warburg, Monsunia 1 (1900) 70; BAIL., Queensl. Fl. 6 (1902) 1962; MATSUM., Ind. Pl. Jap. 1 (1904) 346; MATS., et HAY., Enum. Pl. Formos. (1906) 622.

Pteris linearis POIR., Encycl. Bot. 5 (1804) 723; Sw., Syn. Fil. (1806) 99; WILLD., Sp. Pl. 5 (1810) 379; WALL., List (1828) n. 105; AGARDH, Rec. Sp. Gen. Pter. (1839) 70.

Pteris semiovata POIR., Encycl. Bot. 5 (1804) 723.

Fig. 65



Pteris pseudo-Lontichis BORY, Willd., Sp. Pl. 5 (1810) 389.

Pteris uniseriata POIR., Encycl. Bot. Suppl. 4 (1815-17) 608.

Pteris longipes DON, Prodr. Fl. Nepal. (1825) 15; BLUME, Enum. Pl. Jav. Fil. (1828) 242; AGARDH, Rec. Sp. Gen. Pter. (1839) 70.

Pteris intermedia BLUME, Enum. Pl. Jav. (1828) 211; AGARDH, l. c. 71.

Pteris subpedata WALL. List (1828) n. 10; AGARDH, l. c. 71.

Litobrochia marginata PRESL, Tent. Pter. (1836) 149; BEDD., Handb. Fern. Brit. Ind. (1892) 122.

Litobrochia tripartita PRESL, l. c. 150.

Pteris Guilleminei AGARDH, Ann. Sc. Nat. 2. 6 (1836) 314.

Pteris revolens AGARDH, Rec. Sp. Gen. Pter. (1839) 73.

Litobrochia intermedia J. SM., in Hook. Journ. Bot. 3 (1841) 405.

Pteris connexa J. SM., *ibid.* pro parte.

Litobrochia tripartita BEDD., Fern. South. Ind. (1863) t. 220, et Handb. Fern. Brit. Ind. (1892) 122.

Nom. Jap. Heridori-warabi.

Hab. Kōtō-syo, May 5, 1911, S. Sasaki; Kwasyō-tō, Jan. 3, 1929, July 4, 1935, S. Sasaki!

Distrib. Formosa, Tropical Africa & Asia to Polynesia, Australia.

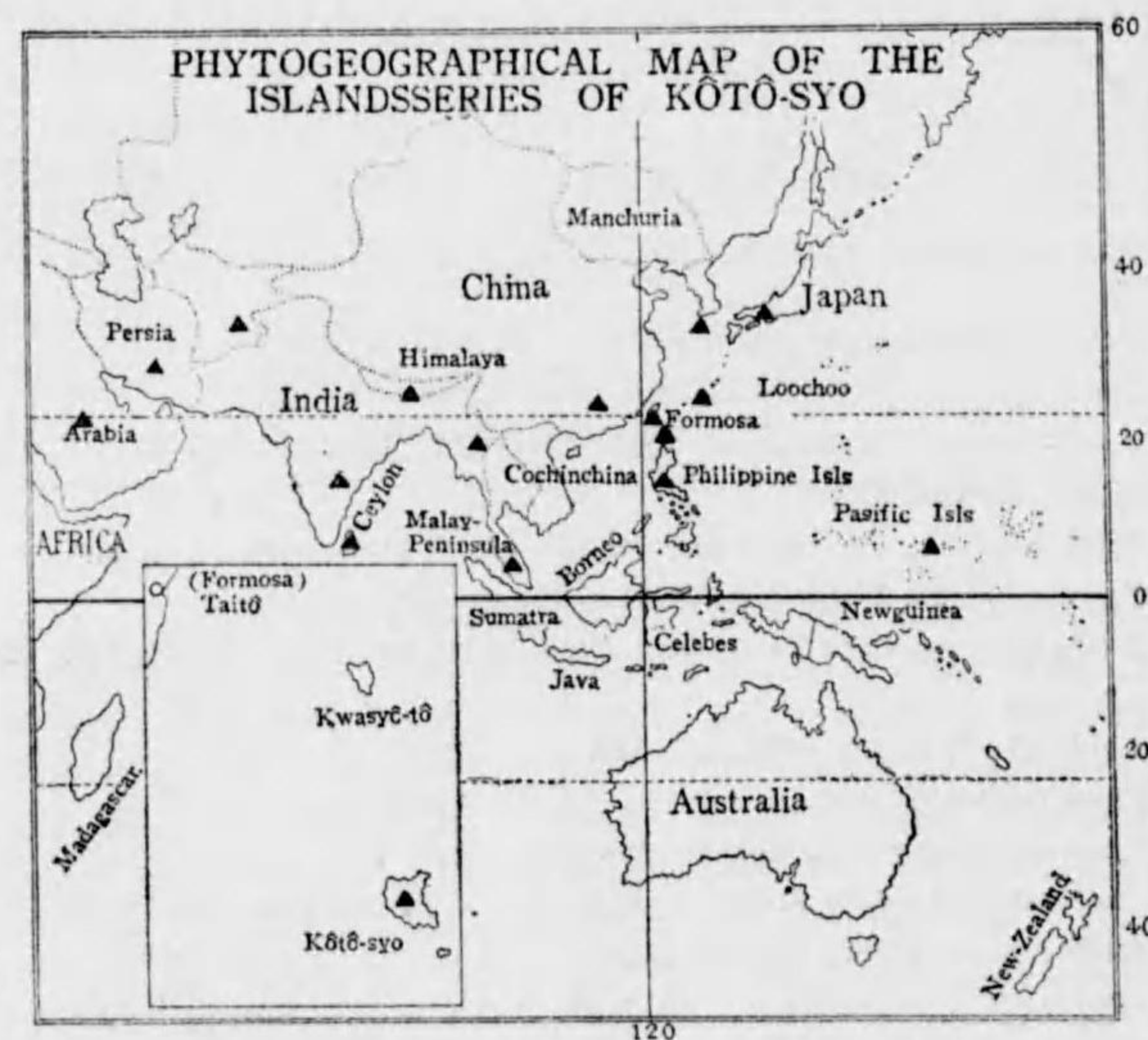
Note: This species always grows shade places near the cliffs or the valleys at the both islands.

66. **PTERIS CRETICA** LINN., Mant. Pl. (1767) 130; THUNB., Fl. Jap.

(1784) 382; BLUME, Enum. Pl. Jav. 2 (1828) 209; EAT., in Perr. Narr. Exp. Chin. Jap. 2 (1856)

329; METT., Fil. Hort. Bot. Lips. (1856) 56; LOWE, Fern. Brit. Exot. 3 (1857) 119; HOOK., Sp. Pl. 2 (1858) 159; BENTH., Fl. Hongk. (1861) 448; MILDE, Fil. Europ. (1867) 41; MIQ., in Ann. Lugd. Bat. 3 (1867) 336, 386; HOOK. et BAK., Syn. Fil. (1867) 154; BEDD., Fern. South. Ind. 2 ed. (1873) 13, pl. 38; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 215; LUERSS, in Flora, (1876) 291; BAKER, Fl. Mauriti. Seych. (1877) 480; CLARKE, Rev. Fern. North. Ind. (1880) 462; EAT., Fern. North. Am. 2 (1880) 141, t. 64; LUERSS, Beitr. Fl. Sudl. Jap. u. Liuk., in Engl. Bot. Jahrb. 4. (1883) 335; BEDD., Handb. Fern. Brit. Ind. (1892) 106; HENRY, List Pl. Formos. (1896) 111; DIELS, Fl. Centr. Chin. (1898) 202, et in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 292; H. CHRIST, in Warb. Mons. 1 (1900) 69; MATS., Ind. Pl. Jap. 1 (1904) 345; COPEL., Polyp. Philip. (1905) 100; C. CHRIST., Ind. Fil. (1906) 595; MATS. et HAY., Enum. Pl. Formos. (1906) 619; MERR., Fl. Lam. For. Res. in Philip. Journ. Sci. 1. Suppl. 1 (1906) 18, et Pl. Bat. Bab. in Philip. Journ. Sci. Bot. 3 (1908) 391; ROSENBL., Malay. Fern. (1908) 358; MERR. et MERRITT, Fl. Mt. Pulog, in Philip. Journ. Sci. Bot. 5 (1910) 321; LIVEILLE, in Bull. Acad. Int. Geogr. Bot. (1910) 10; NAKAI, Fl. Kor. 2 (1911) 397; MAK. et NEM., Fl. Jap. (1925) 1662; SASAKI, Cat. Govt. Herb. (1930) 40; MAK. et NEM. 1. c. 2 ed. (1931) 105; OGATA Icon. Filic. Jap. 5 (1933) 247.

Fig. 66



- Pteris semiserrata* FORSK., Fl. Aeg.-Arab. (1775) 186.
Pteris nervosa THUNB., Fl. Jap. (1784) 332.
Pteris serraria SW., Schrad. Journ. 1800. 2 (1801) 65.
Pteris heptaphylla POIR., in Lamarck Encycl. 5 (1804) 714.
Pteris oligophylla VIV., Ann. Bot. 1. 2 (1804) 189.
Pteris pentaphylla WILLD., Sp. Pl. 5 (1810) 362.
Pteris laeta WALL., List (1828) n. 95.

- Pteris Wallichiana* PRESL, Tent. (1836) 290.
Pteris multiaurita AG., Rec. (1839) 12.
Pteris taeniosa J. Sm., in Journ. Bot. 3 (1841) 405.
Pteris emergens LINK, Fil. Sp. (1841) 52.
Pteris contracta LINK, Fil. Sp. (1841) 53.
Pteris triphylla MART. et GAL., Mem. Ac. Brux. 15 (1842) 51 t. 14 f. 1.
Pteris trifoliata FÉE, 8 mem. (1857) 114.
Pteris mysorensis FÉE, 10 mem. (1865) 16 t. 32 f. 2.
Pteris lomarioides COL., Tr. N. Zeal. Inst. 13 (1881) 380.

Nom. Jap. Ooba-inomotosō.

Hab. Kōtō-syo, July 1911, S. Sasaki.

Distrib. Tropical & subtropical regions of all round the World.

Note: This species generally grows shade places of the cliffs or the crevices of the coral sand stone.

67. *PTERIS LONGIFOLIA* LINN., Sp. Pl. (1753) 1074; DON, Prodr. Fl. Nepal. (1825) 15; WALL., List (1828) n. 111; HOOK. et BAK., Bot. Capt. Beech. Voy. (1830-41) 274; METT., Fil. Hort. Bot. Lips. (1856) 56; HOOK., Sp. Fil. 2 (1858) 157; BENTH., Fl. Hongk. (1861) 447; BEDD., Fern. South. Ind. (1863) 11, t. 33; MILDE, Fil. Europ. Alant. (1867) 43; HOOK. et BAK., Syn. Fil. (1867) 153; HARRINGT., Trop. Fern. in Journ. Linn. Soc. 16 (1877) 27; BENTH., Fl. Austr. 7 (1878) 730; EATON, Fern. North. Amer. 2 (1880) 235, t. 78-1; CLARKE, Rev. Fern. North. Ind. (1880) 461; LUERSS, in Engl. Bot. Jahrb. 4 (1883) 355; FRANCH., Pl. David. (1883) 348; HENRY, List Pl. Formos. (1896) 111; DIELS, Fl. Centr.-Chin. (1898) 202; RACIBORS., Pter. Fl. Buitenz. 1 (1898) 151; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 292; H. CHRIST, in Warb. Mons. 1 (1900) 69; YABE, in Bot. Mag. Tokyo, 16 (1902) 51; MATSUM., Ind. Pl. Jap. 1 (1904) 346; COPEL., Polyp. Philip. (1905) 99; C. CHRIST., Ind. Fil. (1906) 601; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 621; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 5; ROSENBL., Malay. Fern. (1908) 355; COPELAND, in Philip. Journ. Sci. Bot. 6 (1911) 85; MERR., Fl. Manila (1912) 56, et in Philip. Journ. Sci. Bot. 7 (1912) 179; GATES, in Philip. Journ. Sci. Bot. 9 (1914) 422; COPELAND, in Philip. Journ. Sci. Bot. 9 (1914) 437; MAK. et NEM., Fl. Jap. (1925) 1664; OGATA, Icon. Filic. Jap. 3 (1930) 146; MAK. et NEM., 1. c. 2 ed. (1931) 107.

Pteris vittata LINN., Sp. Pl. (1753) 1074; MERR., Sp. Blanc. (1918) 46; SASAKI, List Pl. Formos. (1928) 40, et Cat. Govt. Herb. (1930) 42.

Pteris ensifolia POIR., Encycl. 5. (1804) 711.

Pteris diversifolia SW., Syn. Fil. (1806) 288.

Pteris costata BORY, Willd. Sp. Pl. 5 (1810) 367; BLUME, Enum. Pl. Jav. Fil. (1828) 208; HOOK. et ARN., Bot. Beech. Voy. (1830-41) t. 51.

Pteris acuminatissima BL., Enum. Pl. Jav. Fil. (1828) 208.

Pteris amplexens WALL., List (1828) n. 112.

Pteris amplexicaulis ROXB., in Calc. Journ. Nat. Hist. 4 (1844) 505.

Nom. Jap. Moezima-sida.

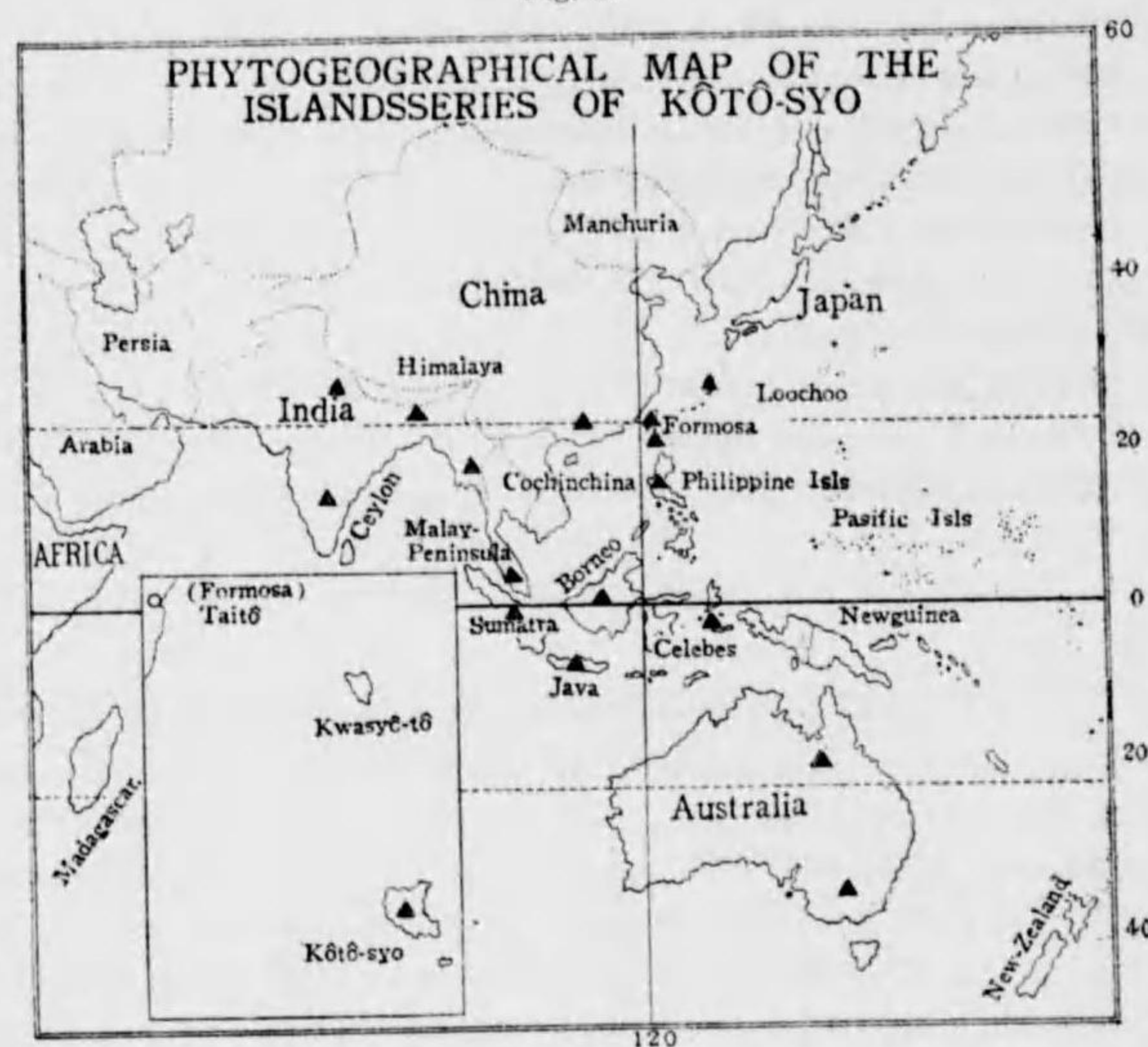
Hab. Kōtō-syo, June 5, 1926, S. Sasaki.

Distrib. Japan, Loochoo, Formosa India to Malaya and the tropical or the warm temperate

regions of the whole World.

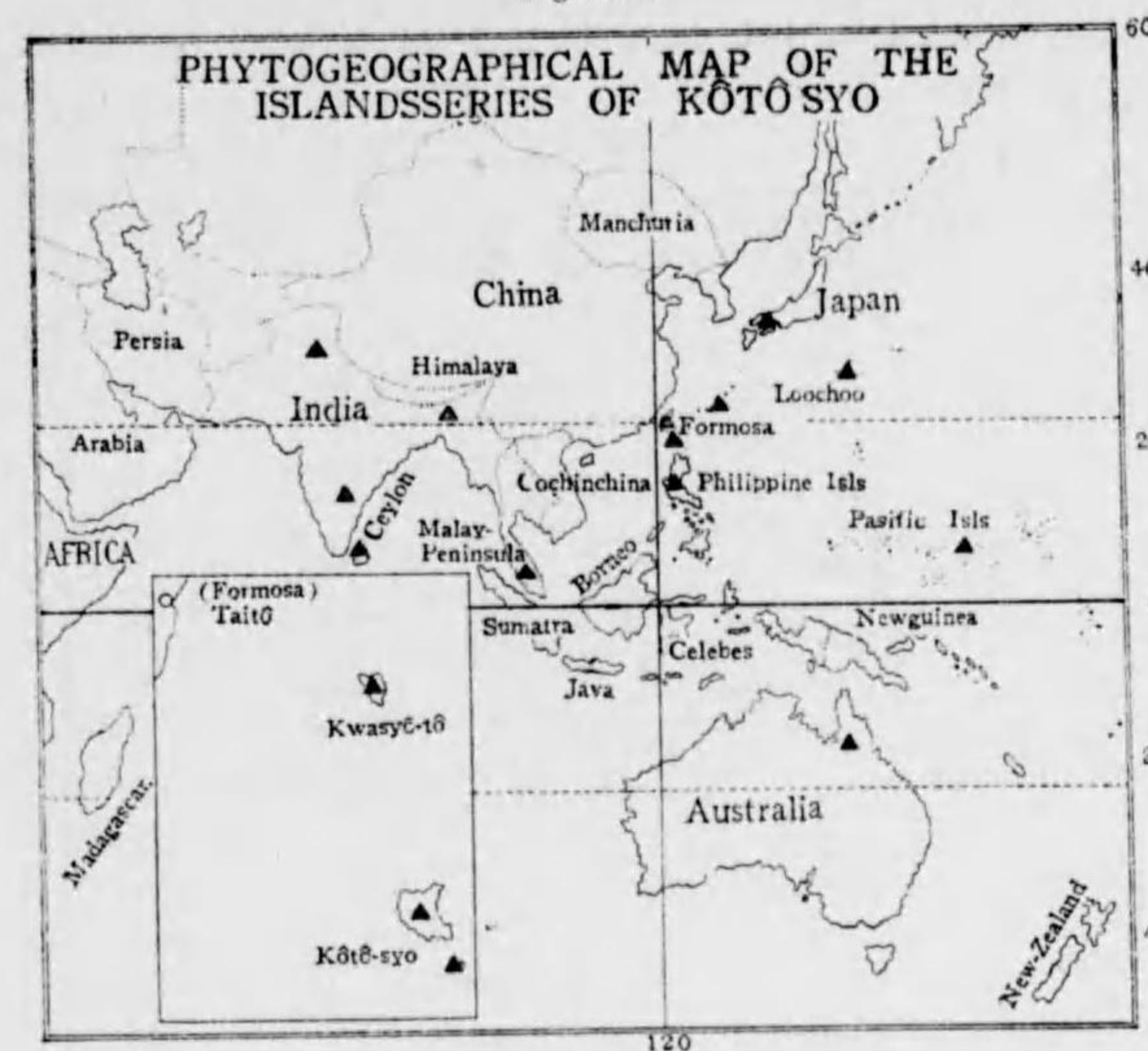
Note: This species always grows dry river-beds or cliffs of the valleys of over the islands.

Fig. 67



68. a. *PTERIS QUADRIAURITA* RETZ, *Observ. Bot.* 6. (1791) 38; ROXB., in *Calc. Journ. Nat. Hist.* 4 (1844) 507; HOOK., *Sp. Fil.* 2 (1858) 179, tt. 135 a, 134 b; BEDD., *Fern. South. Ind.* (1863) 11; HOOK. et BAKER, *Syn. Filic.* (1867) 158; FRANCH. et SAVAT., *Enum. Pl. Jap.* 2. 1 (1876) 214; BAKER, *Fl. Mourit.* (1877) 480; HARRINGT., in *Journ. Linn. Soc.* 16 (1877) 28; BENTH., *Fl. Austral.* 7 (1878) 731; CLARKE, *Rev. Fern. North. Ind.* (1880) 465; BAKER, in *Journ. Bot.* 23 (1885) 103; BEDD., *Handb. Fern. Brit. Ind.* (1892) 110; HENRY, *List Pl. Formos.* (1896) 111; RACIBORSK., *Pter. Fl. Buitenz.* 1 (1898) 156; H. CHRIST, in Warburg, *Monsunia* 1 (1900) 69; YABE, in *Bot. Mag. Tokyo*, 16 (1902) 51; COPELAND, *Polyp. Philip.* (1905) 101; MERR., in *Philip. Journ. Sci.* 1. Suppl. 1 (1906) 19; COPEL., *ibid. Bot.* 2 (1907) 133; H. CHRIST, *ibid.* (1907) 171; MERR., *ibid.* 3 (1908) 392; ROSENB., *Malay. Fern.* (1908) 365; MERR. et MERRITT, in *Philip. Journ. Sci. Bot.* 5 (1910) 321; COPEL., *ibid.* 6 (1911) 86; MERR., *ibid.* 7 (1912) 179, et *ibid.* 9 (1914) 45; GATES, *ibid.* 422; SASAKI, *List Pl. Formos.* (1928) 40, et *Cat. Govt. Herb.* (1930) 41; KANEH., *Fl. Micron.* (1933) 395.
- Pteris nemoralis* WILLD., *Enum. Pl. Berol.* (1809) 1073, et *Sp. Pl.* 5 (1810) 386; BENTH., *Fl. Hongk.* (1861) 448.
- Pteris pectinata* DON, *Prodr. Fl. Nepal.* (1825) 15.
- Pteris spinescens* PRESL., *Rel. Haenk.* 1 (1825) 56.
- Pteris subquinata* WALL., *List* (1828) n. 104.
- Pteris aspericaulis* WALL., *List* (1828) n. 107.

Fig. 68 a



Pteris biaurita LINN., var. *quadriaurita* LUERSS, in *Engl. Bot. Jahrb.* 4 (1883) 355; MAKINO, in *Bot. Mag. Tokyo*, 10 (1896) 151; MATSUM., *Ind. Pl. Jap.* 1 (1904) 345; MATSUM. et HAY., *Enum. Pl. Formos.* (1906) 618; MAK. et NEM., *Fl. Jap.* (1925) 1662; MASAM., *Fl. Geob. Stud. Yakus.* (1934) 86.

Pteris hachijoensis NAKAI, in *Bull. Biogeogr. Soc. Jap.* 1 (1930) 252; MAK. et NEMOTO, *Fl. Jap.* 2 ed. (1931) 106.

Nom. Jap. Hatizyō-sida.

Hab. Kōtō-syo, May 1924, et June 1926, S. Sasaki; Kwasyō-tō, June 3, 1927, S. Sasaki; Syō-kōtōsyo, June 10, 1926, S. Sasaki!

Distrib. Japan, Loochoo, Bonin, Formosa, widely distributed tropical and subtropical regions of the World.

Note: This species grows generally outer edges of the tidal forests or intermediate places, agricultural fields and sandy beaches over the Island.

68. b. var. *SETGERA* HOOK., *Sp. Fil.* 2 (1858) 181; BEDD., *Fern. Brit. Ind.* (1868) t. 202, et *Handb. Fern. Brit. Ind.* (1892) 111; COPEL., *Polypod. Philip.* (1905) 102; ROSENB., *Malay. Fern.* (1908) 366.

Pteris setulosocostulata HAY., *Icon. Pl. Formos.* 4 (1914) 241; MAK. et NEM., *Fl. Jap.* (1925) 1665; SASAKI, *List Pl. Formos.* (1928) 40, et *Cat. Govt. Herb.* (1930) 42; MAK. et NEM., *Fl. Jap.* 2 ed. (1931) 108; OGATA, *Icon. Filic. Jap.* 4 (1931) 192.

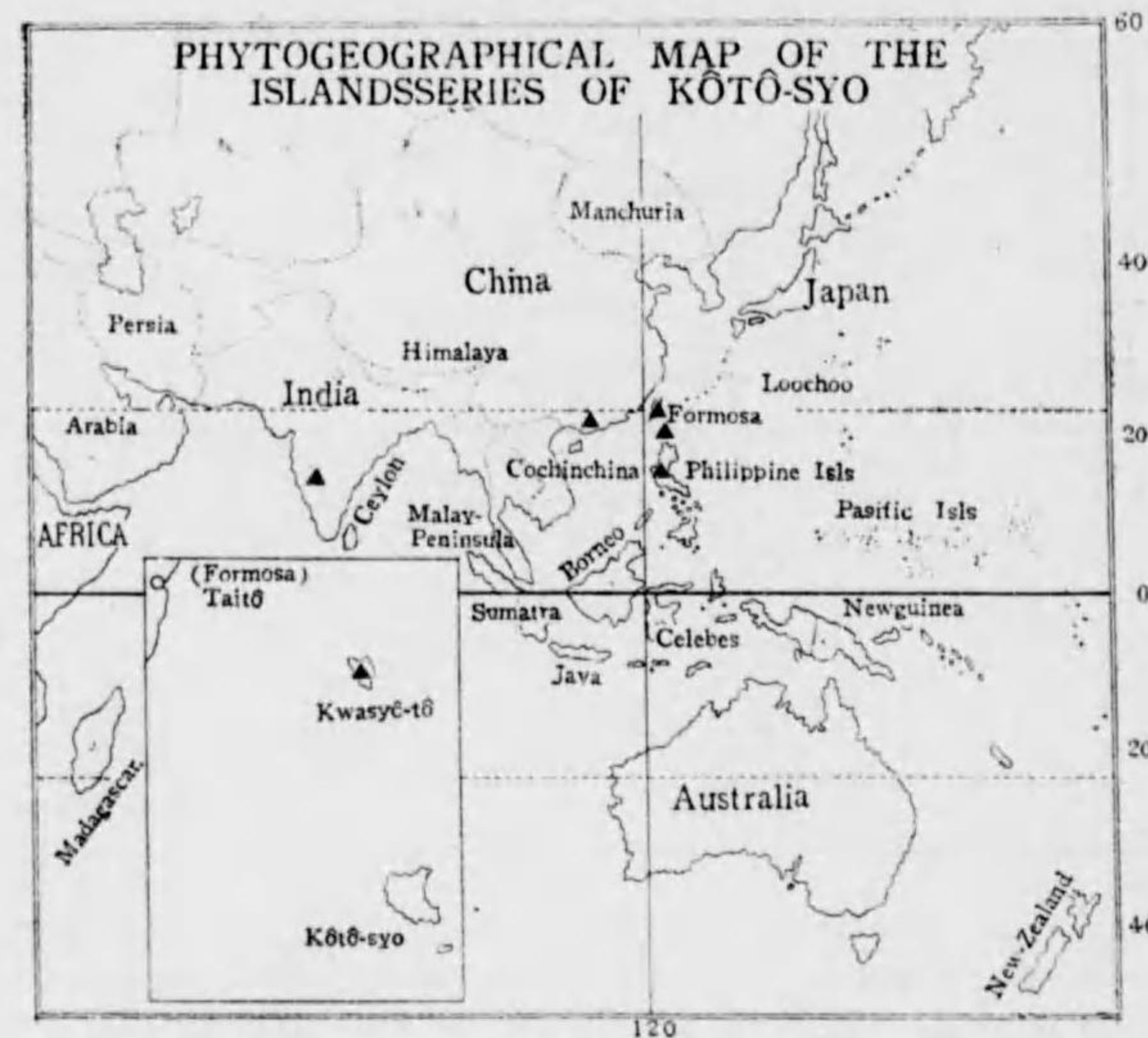
Nom. Jap. Toge-hatizyōsida.

Hab. Kwasyō-tō, June 3, 1927; Jan. 2, 1929, et Apr. 17, 1932, S. Sasaki!

Distrib. Formosa, Philippine, Hongkong, India.

Note: This varieties grows shade places in the neuter forests or waste places near the villages and or the fields.

Fig. 68 b



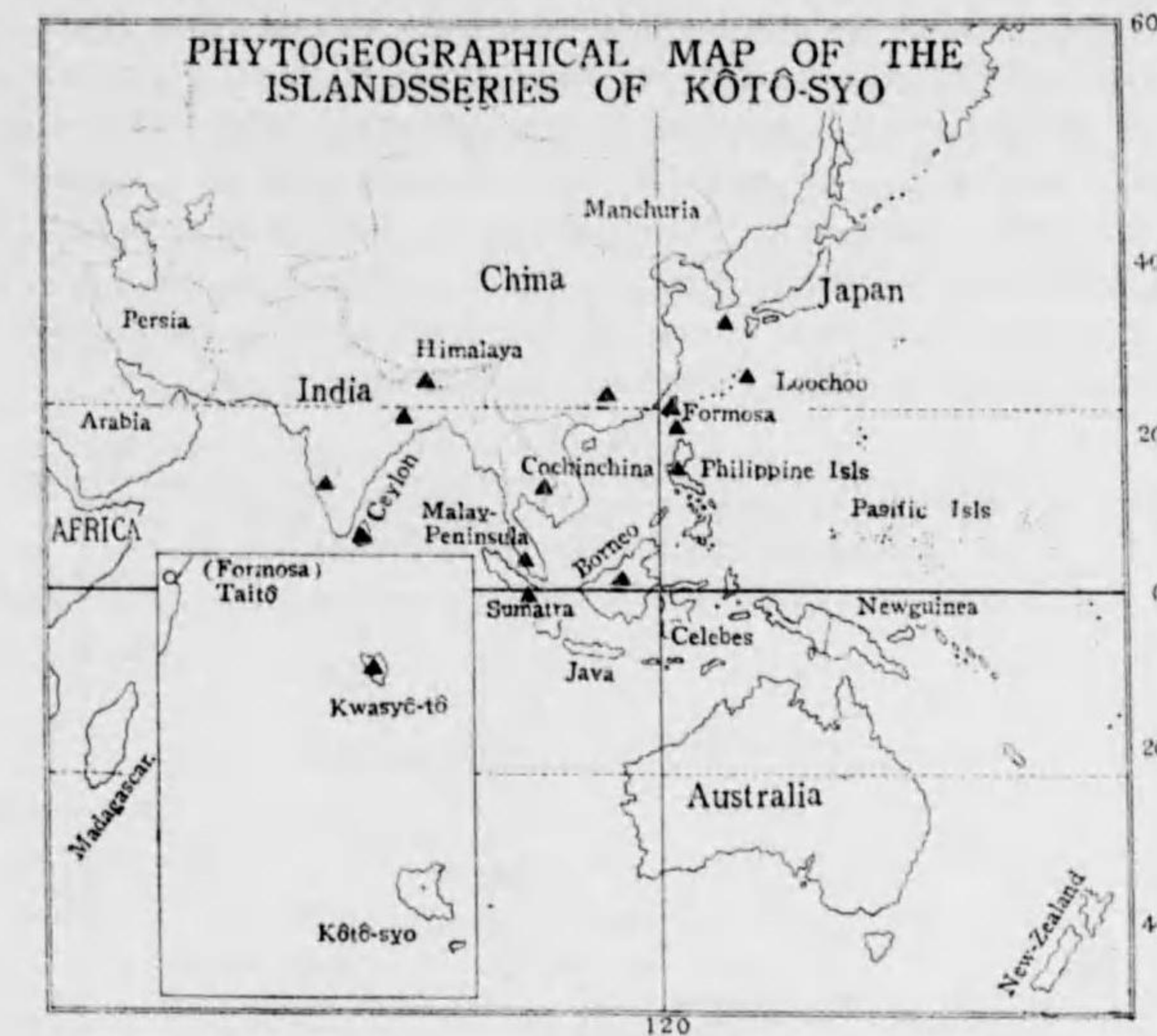
69. *PTERIS SEMIPINNATA* LINN., Sp. Pl. (1753) 1076; THUNB., Fl. Jap. (1784) 333; WILLD., Sp. Pl. 5 (1810) 388; BLUME, Enum. Pl. Jav. Fil. (1828) 210; ROXB., in Calc. Journ. Nat. Hist. 4 (1844) 507; METT., Fil. Hort. Bot. Lips. (1856) 56; LOWE, Fern. 6 (1857) 17; HOOK., Sp. Fil. 2 (1858) 169; BENTH., Fl. Hongk. (1861) 448; HOOK., Gard. Fern. (1862) t. 59; MIQ., in Ann. Mus. Bot. Lugd. Bat. 3 (1867) 172; HOOK. et BAK., Syn. Fil. (1867) 157; BEDD., Fern. South. Ind. 2 ed. (1873) 11, t. 33; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 214; HARRINGT., in Journ. Linn. Soc. 16 (1877) 27; CLARKE, Rev. Fern. North. Ind. (1880) 464; BAKER, in Journ. Bot. 23 (1885) 103; BEDD., Handb. Fern. Brit. Ind. (1892) 109; HENRY, List Pl. Formos. (1896) 111; MAK., in Bot. Mag. Tokyo, 10 (1896) 148; H. CHRIST, Farnkr. d. Erde (1897) 166, f. 499, et in Warb. Mons. 1 (1900) 69; RACIB., Pter. Fl. Buit. 1 (1898) 153; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 292, et in Engl. Bot. Jahrb. 29 (1900) 202; MATSUM., Ind. Pl. Jap. 1 (1904) 346; COPEL., Polyp. Philip. (1905) 101; MERR., in Philip. Journ. Sci. 1 Suppl. 1 (1906) 18; MATS. et HAY., Enum. Pl. Formos. (1906) 622; ROSENB., Malay. Fern. (1908) 362; NAKAI, Fl. Kor. 2 (1911) 398; MAK. et NEM., Fl. Jap. (1925) 1665; MAK. et NEMOTO, l. c. 2 ed (1931) 108; OGATA, Icon. Filic. Jap. 4 (1931) 195; MASAM., Fl. Geob. Stud. Yak. (1934) 87.

Pteris alata LAM., Poir. Encycl. 5 (1804) 716.

Pteris flabellata SCHKUHR., Kr. Grew. 1 (1809) t. 93.

Pteris dimidiata WILLD., Sp. Pl. 5 (1810) 381.

Fig. 69



Pteris inaequalis BAK., in Journ. Bot. 4 (1875) 199.

Nom. Jap. Oo-amakusasida.

Hab. Kwasyō-tō, June 3, 1927, ibid. Jan. 1, 1929, et July 5, 1935, S. Sasaki!

Distrib. Japan, Korea, Loochoo, Formosa, China, Himalaya, India & Ceylon, Malay. (Philippine & Borneo)

Note: This species generally grows the shade places or cliffs in the neuter forests and on coral stone rocks.

PTERIDIUM GLEDITSCH, Scopoli, Fl. Carniol. (1760) 169; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 296; COPEL., Polyp. Philip. (1905) 104; ROSENB., Malay. Fern. (1908) 377.

Pteris LINN., Sp. Pl. 2 (1753) 1075; WILLD., Sp. Pl. 5 (1810) 355, pro parte; HOOK., Sp. Filic. 2 (1858) 154, pro parte; BENTH., Fl. Hongk. (1861) 447, pro parte; BEDD., Fern. South. Ind. (1863) 11, pro parte; HOOK., Handb. New-Zeal. Fl. (1867) 363, pro parte; HOOK. et BAKER, Syn. Filic. (1867) 153, pro parte; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 213 pro parte; BAKER, Fl. Maurit. (1877) 479, pro parte; BENTH., Fl. Austral. 7 (1878) 727, pro parte; BEDD., Handb. Fern. Brit. Ind. (1892) 104, pro parte.

Cincinalis GLEDITSCH, Syst. Plant. (1764) 290.

Eupteris NEWMAN, Phytologist 2 (1845) 278.

Nymphopteris WEBB et BENTH., Hist. Nat. Canar. 3. 2. Phyt. 3 (1849) 449.

Aquilina PRESL, Msc. Ettingsh Farnkr. (1862) 91.

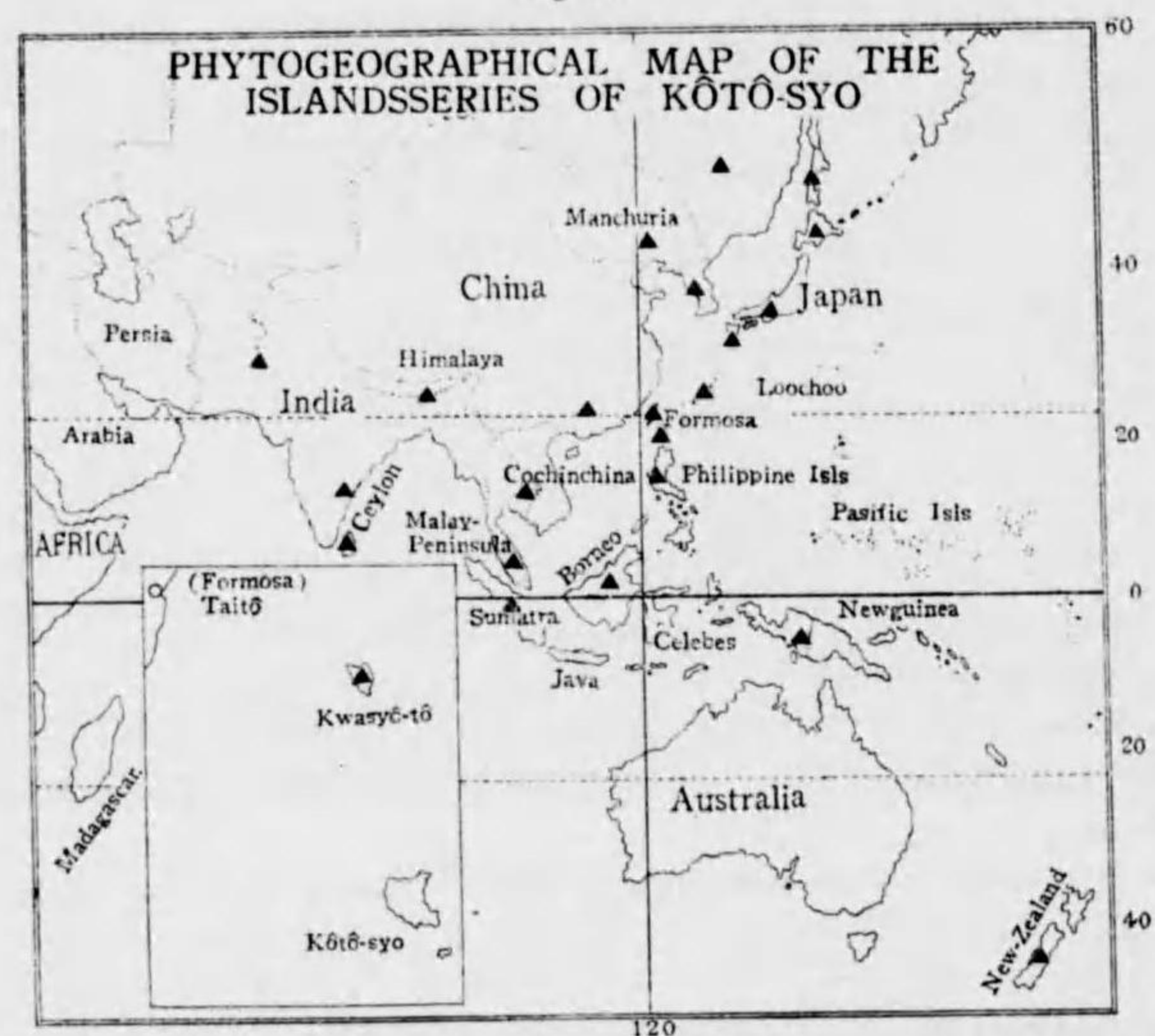
Paesia (non HILAIRE) KEYS., Pol. Cyath. Hb. Bung. (1873) 22.

Ornithopteris (non BERNHARDI) J. SMITH, Hist. Fil. (1875) 297, pro parte.

Distrib. Cosmopolitan.

70. *PTERIDIUM AQUILINUM* KUHN, v. Deck. Reisen 3. 3. Bot. (1879) 11; LUERSS., in Engl. Bot. Jahrb. 4 (1883) 355; DIELS, Fl. Centr. Chin. (1898) 202, et in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 296; PALIB., Consp. Fl. Korea. 3 (1901) 42; KOMAR., Fl. Manch. 1 (1901) 144; MATS., Ind. Jap. 1 (1904) 345; COPEL., Polyp. Philip. (1905) 104; MATS. et HAY., Enum. Pl. Formos. (1906) 624; MERR., in Philip. Journ. Sci. 1. Suppl. 1 (1906) 19; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 134; ROSENBERG, Malay. Fern. (1908) 377; MERR. et MERRITT, in Philip. Journ. Sci. Bot. 5 (1910) 321; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 85; NAKAI, Fl. Kor. 2 (1911) 412; MAK. et NEM., Fl. Jap. (1925) 1662; SASAKI, List Pl. Formos. (1928) 39; OGATA, Icon. Filic. Jap. 4 (1931) 194; CHING, in Sinens. 3 (1933) 338.

Fig. 70



Pteris aquilina LINN., Sp. Pl. 2 (1753) 1075; THUNB., Fl. Jap. (1784) 332; SWARTZ, Syn. Filic. (1806) 100; WILLD., Sp. Pl. 5 (1810) 402; HOOK., Sp. Filic. 2 (1858) 196; BENTH., Fl. Hongk. (1861) 449; BEDD., Fern. South. Ind. (1863) t. 42; MIQ., in Ann. Mus. Bot. Lugd. Bat. 3 (1867) 172; HOOK., Handb. New-Zeal. Fl. (1867) 363; incl. var. *esculenta*; HOOK. et BAKER, Syn. Filic. (1867) 162; FRANCI. et SAVAT., Enum. Pl. Jap. 2 (1876) 215, incl. var. *lanuginosa*; BAKER, Fl. Maurit. (1877) 481; BENTH., Fl. Austral. 7 (1878) 731; CLARKE, Rev. Fern. North. Ind. (1880) 468; BEDD., Handb. Fern. Brit. Ind. (1892) 115; RACIBORSK., Fl. Buitenz. 1 (1898) 156; H. CHRIST, in Warb. Mons. 1 (1900) 68.

Nom. Jap. Warabi.

Hab. Kwasyō-tō, June 5, 1927, S. Sasaki.

Distrib. Cosmopolitan.

Note: This species grows in the grass lands of the eastern coast.

VITTARIA J. SMITH, Mem. Acad. Turin 5 (1793) 413 t. 9; WILLD., Sp. Pl. 5 (1810) 404;

BEDD., Fern. South. Ind. (1863) 6; HOOK. et BAKER, Syn. Filic. (1868) 395; BAKER, Fl. Maurit. (1877) 471; BENTH., Fl. Austral. 7 (1878) 717; BEDD., Handb. Fern. Brit. Ind. (1892) 404; SMITH, Fern. (1896) 130; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 299; BAIL., Queensl. Fl. 6 (1902) 1952; COPEL., Polyp. Philip. (1905) 107; ROSENBERG, Malay. Fern. (1908) 553.

Pteris (non LINN.) SW., Prod. (1788) 129; TOUARS, Fl. Trist. d'Ac. (1804) 31, t. 1; BORY, Voy. 2 (1804) 323; DESV., Prod. (1827) 293.

Pteropsis DESV., Prod. (1827) 218, pro parte.

Haplopteris PRESL, Tent. Pterid. (1836) 141.

Taenipteris HOOK., Gen. Fil. (1842) t. 76 B.

Taeniopsis J. SMITH, Journ. Bot. 4 (1842) 67.

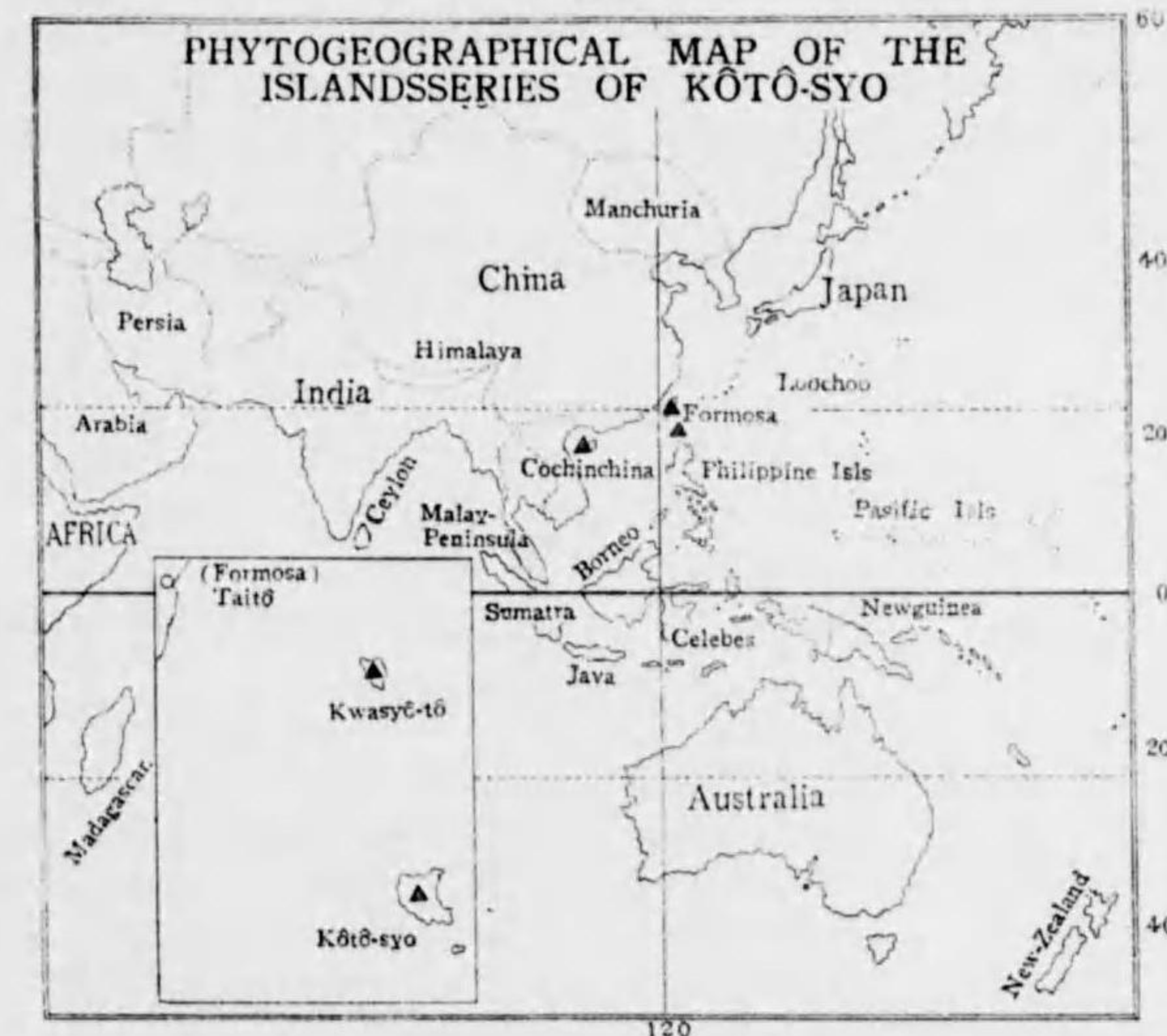
Taenitis (non WILLD.) MART. et GAL., Mem. Ac. Brux. 15 (1842) 44; METT., Ann. Lugd. Bot. 4 (1868-69) 172; CESATI, Rend. Ac. Napoli 16 (1877) 28, 31.

Distrib. Chiefly inhabiting tropics and subtropics of the both Hemisphere.

71. *VITTARIA ANGUSTE-ELONGATA* HAY., Icon. Pl. Formos. 6 (1916) 161; MAK. et NEM., Fl. Jap. (1925) 1667; OGATA, Icon. Filic. Jap. 1 (1928) 48; MAK. et NEM., l. c. 2 ed. (1931) 110.

Vittaria sp. HAYATA, Ic. Pl. Formos. 5 (1915) 346, f. 149-a.

Fig. 71



Vittaria hainanensis C. CHRIST, in Sinensia 1. 12 (1931) 182, pl. 1.

Nom. Jap. Hime-sisiran.

Hab. Kōtō-syo, June 24, 1926, S. Sasaki; Kwasyō-tō, Jan. 2, 1929, S. Sasaki!

Distrib. Hainan, Formosa.

Note: This species is terrestrial or epiphyte, generally grows on the rocks or on the barks of the living trees.

ANTROPHYUM KAULFUSS, Enum. Filic. (1824) 197; **HOOK.**, Gen. Filic. (1842) t. 109; **BEDD.**, Fern. South. Ind. (1863) 17; **HOOK.**, Sp. Filic. 5 (1864) 167; **HOOK. et BAK.**, Syn. Filic. (1868) 392; **BAKER**, Fl. Maurit. (1877) 509; **BENTH.**, Fl. Austral. 7 (1878) 777; **BEDD.**, Handb. Fern. Brit. Ind. (1892) 401; **J. SMITH**, Fern. (1896) 129; **DIELS**, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 300; **BAIL.**, Queensl. Fl. 6 (1902) 1992; **COPEL.**, Polypod. Philip. (1905) 108; **ROSENBL.**, Malay. Fern. (1908) 529.

Hemionitis LINN., Sp. Pl. (1753) 1077, pro parte.

Solenopteris WALL., Tidsskr. f. Naturvid. 1 (1822) 259, pro parte.

Polytaenium DESV., Prodr. (1827) 174.

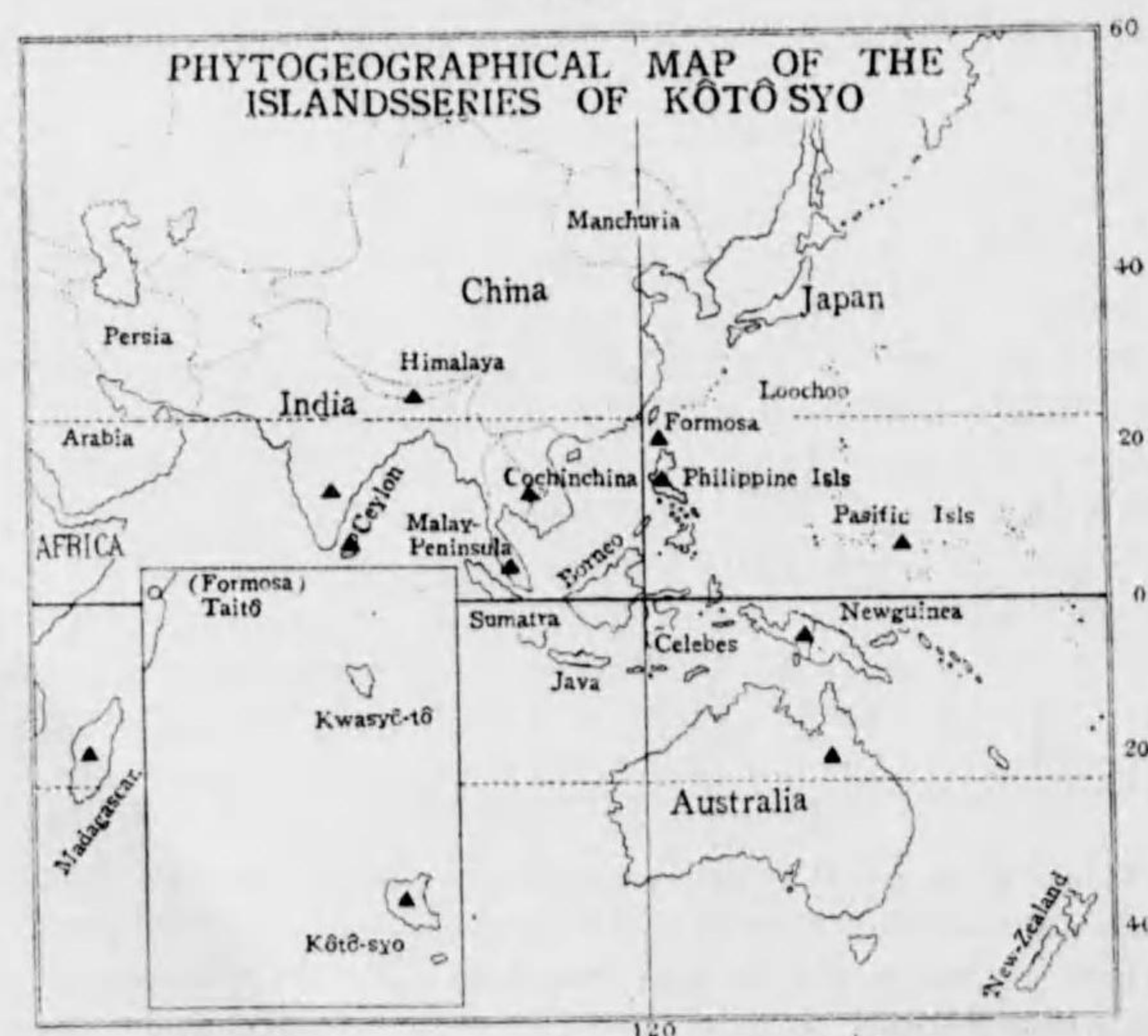
Dictyogramme FÉE, Gen. Filic. (1850-52) 170, pro parte.

Scoliosorus MOORE, Ind. Filic. (1857) 29.

Distrib. Pantropical.

72. **ANTROPHYUM RETICULATUM KAULFUSS**, Enum. Filic. (1824) 198; **BLUME**, Fl. Jav. (1828) 81; **HOOK.**, Sp. Filic. 5 (1864) 169; **HOOK. et BAKER**, Syn. Filic. (1868) 393; **BEDD.**, Fern. South. Ind. 2 ed. (1873) t. 231; **BAKER**, Fl. Maurit. & Seychel. (1877) 509; **BENTH.**, Fl. Austral. 7 (1878) 777; **BEDD.**, Handb. Fern. Brit. Ind. (1892) 401, f. n. 235; **H. CHRIST**, Farnkr. d. Erde (1897) f. 141, et in Warburg, Monsunia 1 (1900) 58; **BAIL.**, Queensl. Fl. 6 (1902) 1992; **COPEL.**, Philippine Polypod. (1905) 109; **C. CHRIST.**, Ind. Filic. (1906) 61; **ROSENBL.**, Malay. Fern. (1908) 535; **H. CHRIST**, in Nova Guinea, 8 Bot. 1 (1909) 157; **ROSENSTOCK**,

Fig. 72



in l. c. (1913) 731; **MAK. et NEM.**, Fl. Jap. (1925) 1575, et 2 ed. (1931) 19; **OGATA**, Icon. Fil. Jap. 7 (1936) 302.

Hemionitis reticulata FORSTER, Florulae Insl. Austral. Prodr. (1786) 79; **WILLD.**, Sp. Pl. 5. 1 (1810) 128.

Antrophyum Cumingii (non FÉE) YABE, in Bot. Mag. Tokyo, 16 (1902) 51; **KAWAKAMI et SASAKI**, l. c. 22.

Antrophyum plantagineum (non KAULF.) **KAWAKAMI et SASAKI**, ibidem.

Ophioglossum pendulum (non LINN.) **KAWAKAMI et SASAKI**, l. c. 21.

Antrophyum Grevillei (non BALFOUR) **H. ITO**, in Journ. Jap. Bot. 12. 7 (1936) 475.

Nom. Jap. Ami-ōbakosida, v. Hosoba-ōbakosida.

Hab. **Kōtō-syo**, May 1924, S. Sasaki, ibid. June 1926, S. Sasaki, ibid. Oct. 1924, S. Sasaki.

Distrib. India, Malay & Archipelago, Australia, Polynesia, Philippine, Madagascar.

Note: This species is terrestrial or epiphyte fern and generally grows hanging from low cliffs or on the barks of the trees in the shade neuter forests at the Oomori-yama, 300 m. elevation above the sea level.

DRYMOGLOSSUM PRESL, Tent. Pterid. (1836) 227; **BENTH.**, Fl. Hongk. (1861) 444; **HOOK.**, Sp. Filic. 5 (1864) 189; **HOOK. et BAKER**, Syn. Fil. (1868) 397; **BEDD.**, Handb. Fern. Brit. Ind. (1892) 410; **SMITH**, Fern. (1896) 69; **DIELS**, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 302; **COPEL.**, Polypod. Philip. (1905) 112; **ROSENBL.**, Malay. Fern. (1908) 702.

Pteris (non LINN.) LINN., Sp. Pl. 2. ed. 2 (1763) 1530; **WILLD.**, Sp. Pl. 5 (1810) 355, pro parte; **WIKSTR.**, Vet. Akad. Handl. 1825 (1826) 433.

Solenopteris WALLICH, Tidsskr. f. Naturvid. 1 (1822) 259, pro parte.

Notholaena (non BROWN) KAULF., Enum. (1824) 133.

Pteropsis DESV., Prodr. (1827) 218, pro parte.

Taenitis (non WILLD.) WALL., List (1829) n. 62; **METT.**, Fil. Lips. (1856) 28; **KUHN**, Fil. Afr. (1868) 58.

Lemmaphyllum PRESL, Epim. Bot. (1849) 157.

Schizolepton (non FÉE) MOORE, Ind. Fil. (1857) 33.

Asteroglossum **J. SMITH**, Msc., Moore Ind. Filic. (1860) 179.

Oetosis **O. KUNTZE**, Rev. Gen. Pl. 2 (1891) 817, pro parte.

Distrib. Tropical & Extra tropical.

73. **DRYMOGLOSSUM MICROPHYLLUM C. CHRIST**, Ind. Filic. (1905) 246; **MATH.**, in Journ. Linn. Sci. 39. (1911) 359; **MAKINO et NEMORO**, Fl. Jap. (1925) 1607, et 2 ed. (1931) 50; **OGATA**, Icon. Filic. Jap. 4 (1931) 164; **SUZUKI**, in Ann. Rep. Taihoku Bot. Gard. 1 (1931) 104; **MASAM.**, Fl. Geob. Stud. Yakus. (1934) 90.

Pteris piloselloides (non LINN.) **THUNB.**, Fl. Jap. (1784) 331.

Lemmaphyllum microphyllum PRESL, Epim. Bot. (1849) 246; **CHRIST**, in Dansk. Bot. Ark. 6 (1929) 46; **SASAKI**, in Trans. Nat. Hist. Soc. Formos. 26 (1936) 62.

Drymoglossum subcordatum FÉE, Trois. Mem. (1852) 29; **DIELS**, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 303; **H. CHRIST**, in Warburg, Monsunia 1 (1900) 66.

Drymoglossum carnosum **HOOK.**, Sp. Filic. 5 (1864) 189; **FRANCH. et SAVAT.**, Enum.

Pl. Jap. 2 (1876) 250; CLARKE, Rev. Fern. North. Ind. (1880) 575; COPEL., Polyp. Philip. (1905) 112.

Taenitis microphylla METT., ex Miq., in Ann. Mus. Bot. Lugd. Bat. 3 (1870) 170.

Drymoglossum carnosum var. *microphyllum* NAKAI, Fl. Kor. 2 (1911) 413, et in Bot. Mag. Tokyo, 28 (1914) 93.

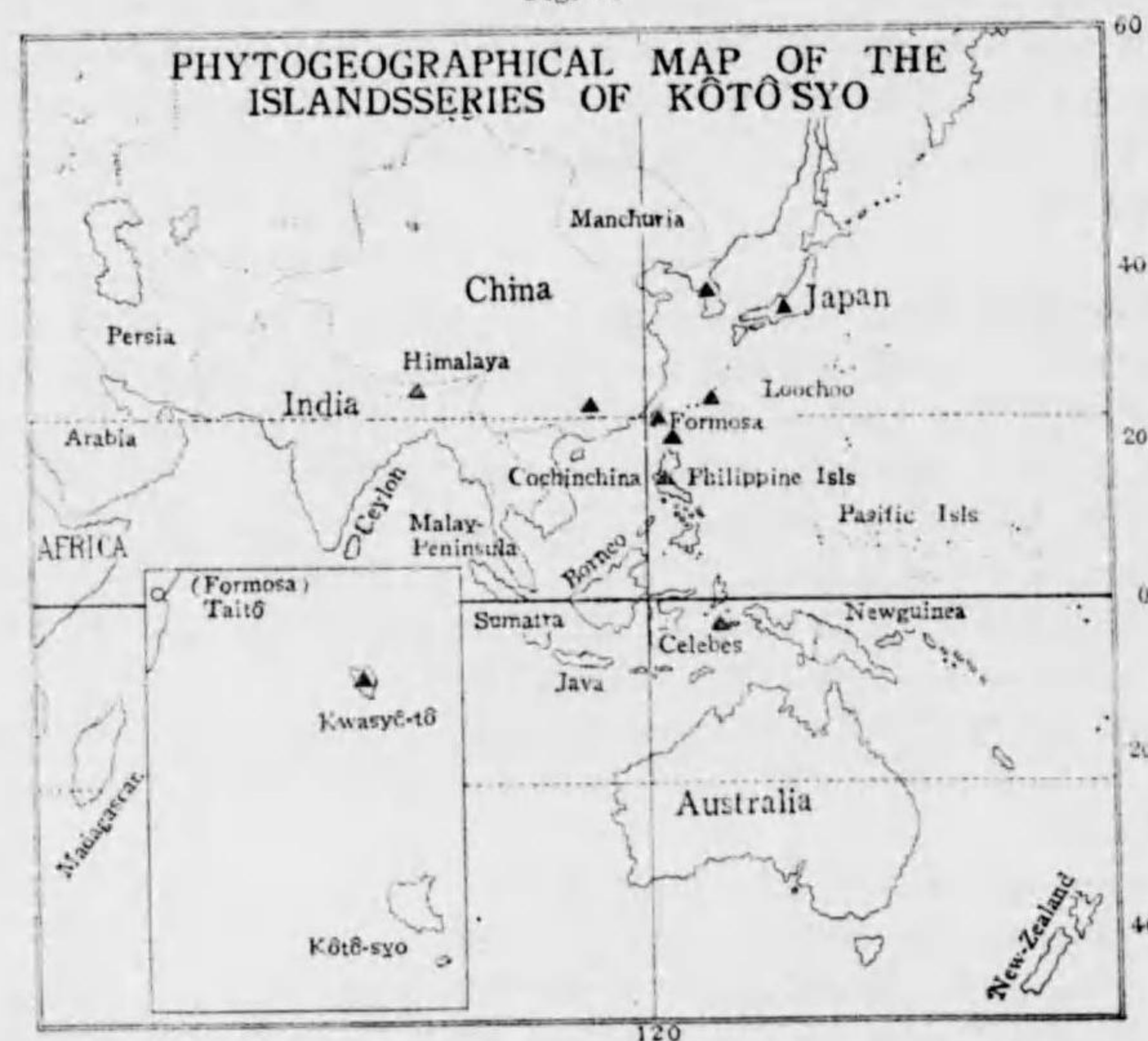
Nom. Jap. Mame-duta.

Hab. Kwasyô-tô, Aug. 15, 1907, Z. Kobayasi, no. 803.

Distrib. Japan, Korea, Loochoo, Formosa, China, Philippine, Himalaya, Amboyna.

Note: This species generally grows on the barks of the trees in the shade neuter forests of over the Island.

Fig. 73



POLYPODIUM, LINN., Sp. Pl. (1753) 1082, pro parte; WILLD., Sp. Pl. 5 (1810) 144; HOOK., Gen. Fil. (1840) t. 69; BENTH., Fl. Hongk. (1861) 457; HOOK., Sp. Fil. 4 (1862) 163; BEDD., Fern. South. Ind. (1863) 54; HOOK., Handb. New-Zeal. Fl. (1867) 379; HOOK. et BAKER, Syn. Fil. (1867) 304; BAKER, Fl. Maurit. (1877) 501; BENTH., Fl. Austral. 7 (1878) 760; CLARKE, Rev. Fern. North. Ind. (1880) 542; BEDD., Handb. Fern. Brit. Ind. (1892) 302; SMITH, Fern. (1896) 78; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 306; BAIL., Queensl. Fl. 6 (1902) 1979; COPEL., Polyp. Philip. (1905) 115; ROSENBERG, Malay Fern. (1908) 567; MERRILL, Fl. Manila, (1912) 57.

Grammitis SW., Schrad. Journ. 1800. 2 (1801) 17.

Pleopeltis HUMB. et BONPL., Willd. Sp. Pl. 5 (1810) 211.

Xiphopteris KAULF., Jahrb. f. d. Pharm. Berlin. (1820) 35.

Adenophorus GAUDICH., Ann. Sc. Nat. 3 (1824) 508.

Marginaria BORY, l. c. 6 (1824) 484, et 10 (1826) 176.

Selliguea BORY, Dict. Class. d'Hist. Nat. 8 (1825) 53.

Drynaria BORY, Ann. Sc. Nat. 5 (1825) 464, t. 12, 14, pro parte.

Amphoradenium DESV., Prodr. (1827) 335.

Micropteris DESV., Prodr. in Mem. Soc. Linn. Paris 6 (1827) 217, pro parte.

Pteropsis DESV., Prodr. (1827) 218, pro parte.

Loxogramme BL., Fl. Jav. Fil. (1828) 73; PRESL, Tent. Pterid. (1836) 214.

Diagramma BLUME, Enum. Pl. Jav. (1828) 114.

Paragramma BL., Enum. Pl. Jav. (1828) 114; MOORE, Ind. (1857) 32.

Ctenopteris BLUME, Fl. Jav. Fil. (1828) 132.

Goniophlebium BLUME, Fl. Jav. Fil. (1828) 132; PRESL, Tent. Pterid. (1836) 185.

Atactosia BL., Enum. Pl. Jav. (1828) 134, pro parte.

Microsorium LINK, Hort. Berol. 2 (1833) 110.

Agraomorpha SCHOTT, Gen. Fil. (1834) t. 20.

Anaxetum SCHOTT, l. c. t. 1.

Pleurogonium PRESL, Tent. Pterid. (1836) 187.

Campyloneurum PRESL, l. c. 189.

Dictyopteris PRESL, Tent. Pterid. (1836) 194, pro parte.

Phymatodes PRESL, l. c. 195.

Pleuridium PRESL, l. c. 196; FÉE, Gen. Fil. (1850-52) 273.

Psygium PRESL, l. c. 199.

Calymmodon PRESL, Tent. Pterid. (1836) 203.

Chilopteris PRESL, Tent. Pterid. (1836) 208.

Synammia PRESL, l. c. 212.

Microgramma PRESL, Tent. Pterid. (1836) 213.

Cyrtophlebium R. BROWN, in Horsf. Pl. Jav. Rar. (1838) 4; J. SMITH, Journ. Bot. 4 (1841) 58.

Phlebodium R. BROWN, l. c. 7; J. SMITH, ibid.

Schellolepis J. SMITH, Fern. (1840) 82.

Dicranopteris BLUME, Endl., Gen. Suppl. 1 (1841) 1346.

Chrysopteris LINK, Fil. Sp. (1841) 116, 120.

Craspedaria LINK, l. c. 117.

Phyllitidis J. SMITH, in Journ. Bot. 3 (1841) 397.

Diblemma J. SMITH, in Journ. Bot. 3 (1841) 399, et 4 (1841) 65.

Lepicystis J. SMITH, in Lond. Journ. Bot. 1 (1842) 195.

Lopholepis J. SMITH, in Lond. Journ. Bot. 1 (1842) 195.

Symplecium KUNZE, Bot. Zeit. (1842) 422.

Cryptosorus FÉE, Congr. Sci. France 10. Sess. 1 (1843) 178.

Lepisorus J. SMITH, Bot. Mag. 72 Comp. (1846) 13.

Dictymia J. SMITH, Bot. Mag. 72 Comp. (1846) 16.

Mecosorus KLOTZSCH, Linnæa 20 (1847) 404.

Crypsinus PRESL, Epim. Bot. (1849) 123.

Colysis PRESL, Epim. Bot. (1849) 146.

Dictyogramma PRESL, Epim. Bot. (1849) 148.

Plectopteris FÉE, Gen. Fil. (1850-52) 230.

Trichocalymma ZENKER, Kunze, Linn. 24 (1851) 251.

- Trichotemeleum* KUNZE, Linn. 24 (1851) 251.
Glyphotaenium J. SMITH, Hist. Fil. (1854) 187.
Holcosorus MOORE, Ind. Fil. (1857) 29.
Prosechium MOORE, l. c. 71.
Themelium MOORE, l. c. 71.
Marginariopsis MOORE, l. c. 73.
Cephalosorium MOORE, l. c. 75.
Phlebodiopsis MOORE, l. c. 77.
Allotheceum MOORE, l. c. 88.
Arthromeris MOORE, l. c. 110.
Catenularia ZIPPEL, Mett., Polyp. (1857) 37.
Coelpteris A. BRAUN; Mett., Polyp. (1857) 50.
Thylacopteris KUNZE, Mett., Polyp. (1857) 50.
Leptostegia (non DON) ZIPPEL, Mett., Polyp. (1857) 50.
Anapeltis J. SMITH, Cat. Cult. Fern. (1857) 5.
Dictyophlebia GRIS, Abh. Ges. Wiss. Gött. 7. (1857) 283, 286, pro parte.
Eleutherophlebia GRIS, l. c. pro parte.
Cystidium J. SMITH, Moore, Ind. Fil. (1861) 278.
Gymnogramma (non DESV.) BAKER, in Hook. et Baker, Syn. Fil. (1868) 376, pro parte;
 FRANCIS et SAVAT., Enum. Pl. Jap. 2 (1876) 248, pro parte.
Prosaptia (non PRESL.) METT., Nov. Reise, Bot. 1 (1870) 214.
Austrogramme FOURNIER, Ann. Sc. Nat. 5. 18 (1873) 278, pro parte.
Grammitastrum FOURNIER, l. c. 282.
Tomophyllum FOURNIER, l. c. 283.
Phymatopsis J. SMITH, Hist. Fil. (1875) 104.
Lomaphlebia J. SMITH, Hist. Fil. (1875) 182.
Micropteris (non DESV.) J. SMITH, Hist. Fil. (1875) 186.
Clathropeltis KUHN, v. Deoken's Reisen 3. 3. Bot. (1879) 51.
Myrmecophila CHRIST, Frankr. d. Erde, (1897) 112.

Distrib. Both Hemispheres especially in tropical countries, few in temperate regions.

74. **POLYPODIUM ELLIPTICUM** THUNB., Fl. Jap. (1784) 335; SWARTZ, Syn. Fil. (1806) 63; METT., in Ann. Mus. Lugd. Bat. (1863-64) 225; MIQ., in Ann. Mus. Lugd. Bat. (1868) 389; H. CHRIST, Farnkr. d. Erd. (1897) 107; DIELS, Fl. Centr. Chin. (1898) 206; H. CHRIST, in Warb., Mons. 1 (1900) 62; DIELS, in Engl. u. Prantl., Nat. Pfl.-fam. 1. 4 (1899) 318; MATSUM., Ind. Pl. Jap. 1 (1904) 333; COPEL., Polyp. Philip. (1905) 132; MERR., Fl. Lam. For. Res., in Philip. Journ. Sci. 1. Suppl. 1 (1906) 21; C. CHRIST., Ind. Fil. (1906) 524; MATSUM. et HAY., Enum. Pl. Formos. (1906) 629; ROSENB., Mal. Fern. (1908) 677; SASAKI, Cat. Govt. Herb. (1930) 33.

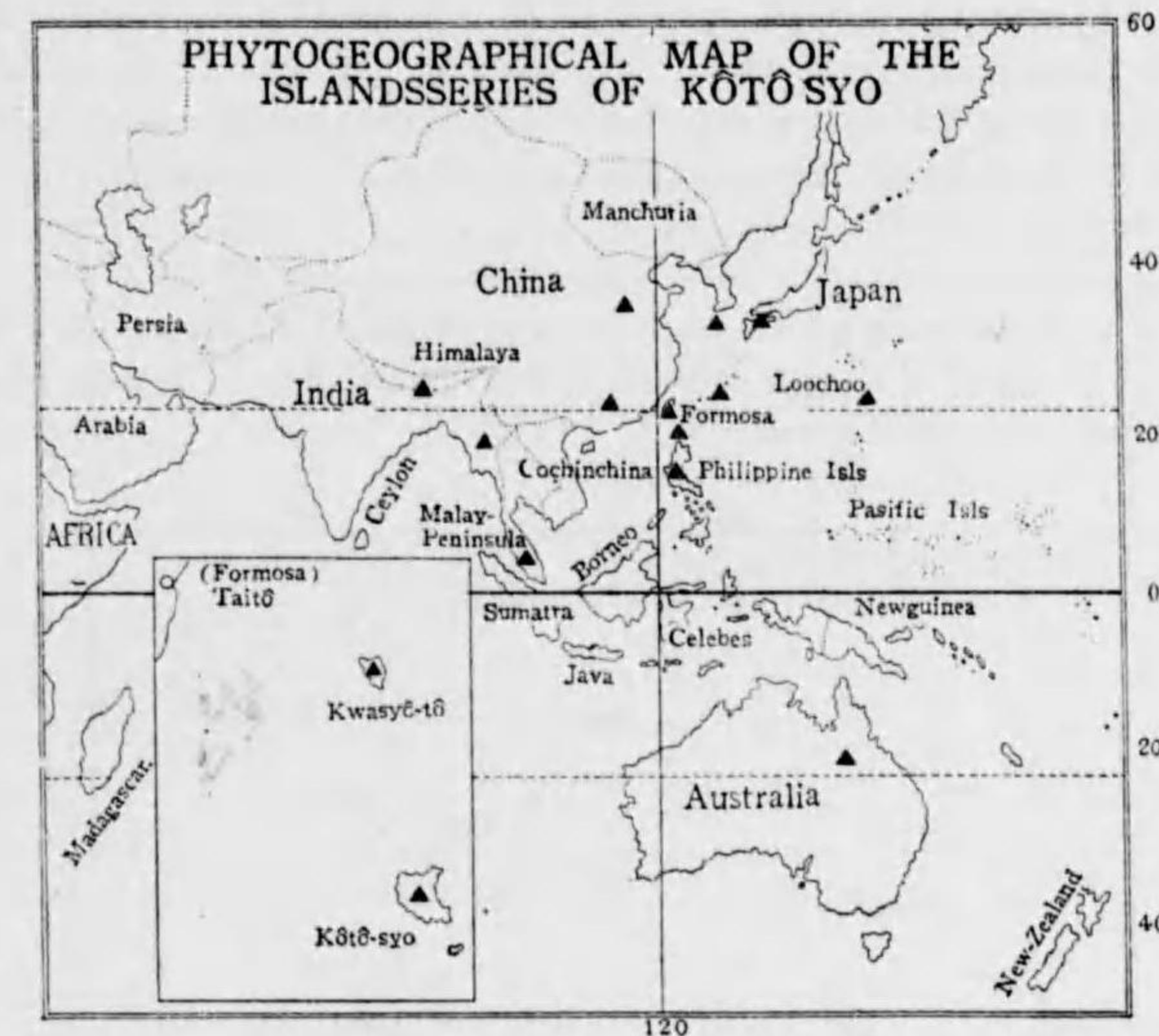
Hemionitis pothifolia HAMILT., in Don, Prod. Fl. Nepal. (1825) 13.

Gymnogramma pothifolia SPR., Car., Linn. Syst. Veg. ed. 16, 4 (1827) 39; MAKINO, in Bot. Mag. Tokyo, 12 (1899) 166.

Grammitis decurrens WALL., List (1828) n. 5.

- Grammitis Finlaysoniana* WALL., List (1828) n. 776.
Selliguea decurrens PRESL., Tent. Pter. (1836) 216.
Selliguea pothifolia J. SM., in Hook. Journ. Bot. 3 (1841) 399.
Colysis pothifolia PRESL., Epim. Bot. (1849) 148.
Polypodium pothifolium METT., Fil. Hort. Bot. Lips. (1856) 130 t. 25 f. 21.
Gymnogramme decurrens HOOK., Benth. Fl. Hongk. (1861) 457; HOOK., Sp. Fil. 5 (1864) 161.

Fig. 74



Selliguea decurrens HOOK., Sp. Fil. 5 (1864) 161; BEDD., Fern. Brit. Ind. (1868) 150, pl. 150.

Grammitis ampla F. MUELL., Fragm. 5 (1866) 188; BENTH., Fl. Austr. 7 (1878) 777.

Gymnogramma elliptica BAKER, in Hook. et Baker, Syn. Fil. (1868) 389; CLARKE, Rev. Fern. North. Ind. (1880) 570; HENRY, List Pl. Formos. (1896) 116.

Gymnogramma ampla BAK., in Ann. Bot. 5 (1891) 486.

Selliguea elliptica BEDD., Handb. Fern. Brit. Ind. (1892) 392.

Polypodium ellipticum THUNB. var. *pothifolium* MAK., in Bot. Mag. Tokyo, 23 (1909) 72; MAK. et NEMOTO, Fl. Jap. (1925) 1644, et 2 ed. (1931) 86; MASAM., Fl. Geob. Stud. Yak. (1934) 91.

Nom. Jap. Iwa-hitode.

Hab. Kôto-syo, March 1906, G. Nakahara; May 1924, S. Sasaki, et June 1926, S. Sasaki; Kwasyô-tô, June 1927, S. Sasaki.

Distrib. Malacca, Philippine, Japan, Bonin, Loochoo, Formosa, South China, North India, Malay Peninsula, Tenasserim, Queensland.

Note: This species generally grows near the edges of the tidal frosts and shade places in

the neuter forests or waste places of over the island.

75. **POLYPODIUM PARASITICUM** METT., Polyp. (1857) 36, n. 16; HOOK., Sp. Fil. 4 (1862) 167; HOOK. et BAK., Syn. Fil. (1867) 319; BEDD., Fern. South. Ind. 2 ed. (1873) 55, pl. 166, et Handb. Fern. Brit. Ind. (1892) 302; ROSENB., Malay. Fern. (1908) 581; SASAKI, in Trans. Nat. Hist. Soc. FORMOS. 26 (1936) 64.

Polypodium mediale BAK., C. Christ., Ind. Fil. (1906) 543.

Polypodium hirtellum (non BLUME) MAKINO, Phanerog. Pterid. Jap. Ic. (1902) t. 89; MAK. et, NEM., Fl. Jap. (1925) 1645, et 2 ed. (1931) 88.

Polypodium Asahinae OGATA, Icon. Filic. Jap. 5 (1933) 243, syn. nov.

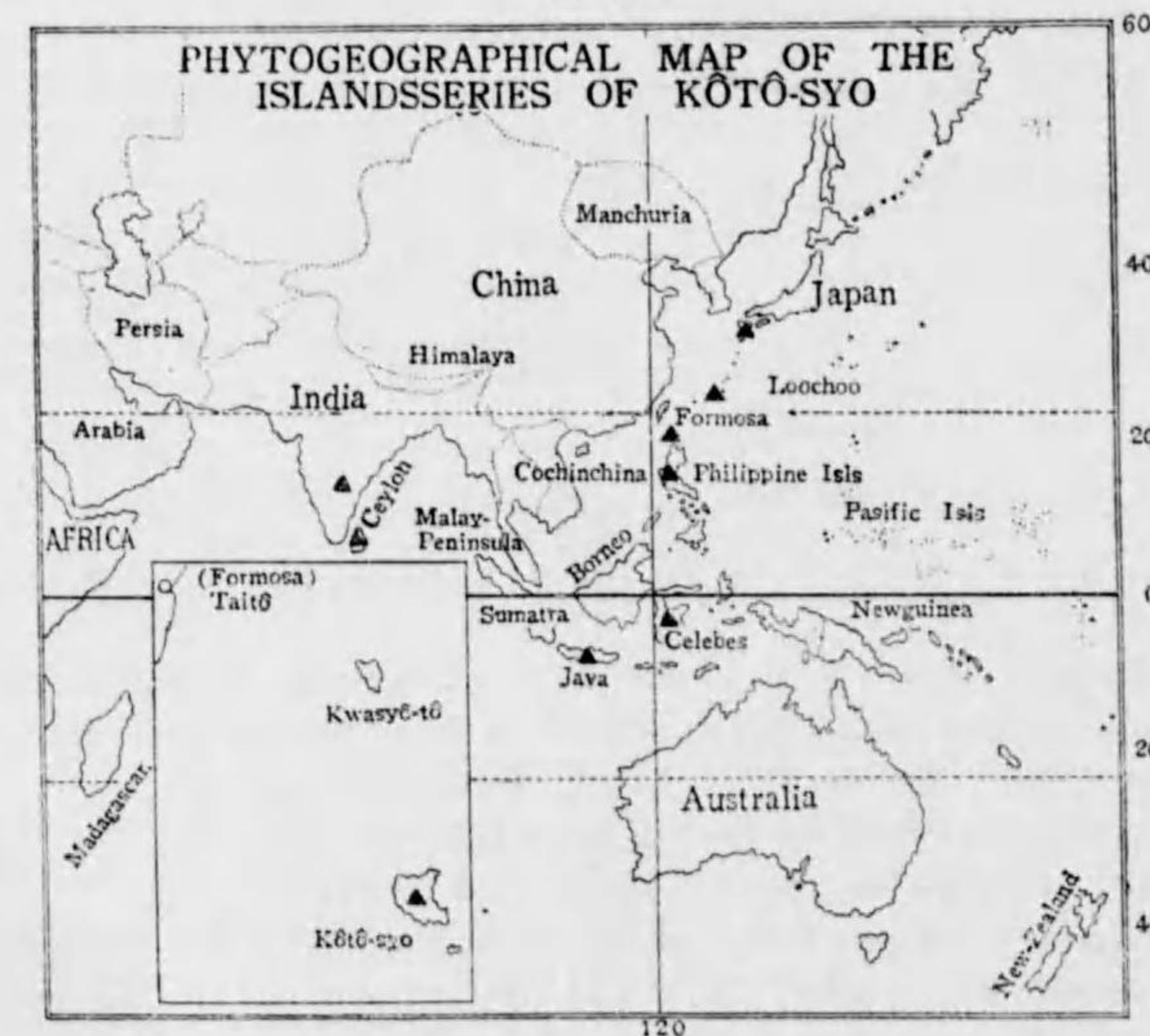
Nom. Jap. Hime-urabosi, Nan'yō-nokisinobu.

Hab. Kōtō-syo, June 24, 1926, S. Sasaki.

Distrib. Japan, Loochoo, India, Ceylon, Java, Celebes, Philippine.

Note: This is very rare species of our country and discovered only in this island at June 24, 1926 by S. Sasaki, the species grows on the trunks of living trees of *Pometia pinnata* in the neuter forests of Mt. Oomori-yama.

Fig. 75



76. **POLYPODIUM PUNCTATUM** Sw., in Schrad. Journ. 1800 2 (1801) 21; CLARKE, Rev. Fern. North. Ind. (1880) 561; H. CHRIST, Farnkr. Erde (1897) 106; COPEL., Polyp. Philip. (1905) 126; C. CHRIST., Ind. Fil. (1906) 557; MERR., in Philip. Journ. Sci. 1. Suppl. 1 (1906) 20; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 6, l. c. 140; ROSENB., Malay. Fern.

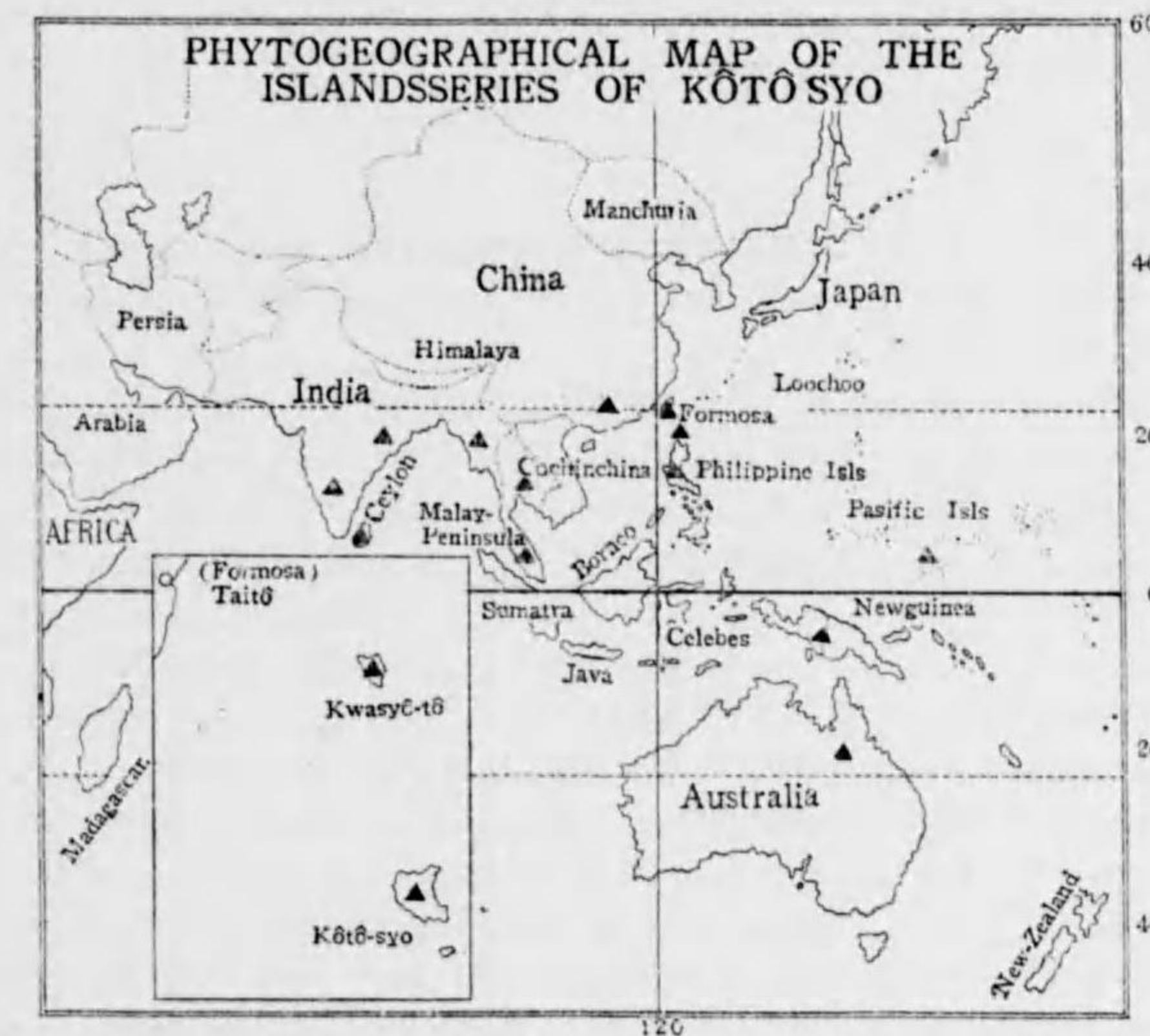
(1908) 653; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 88; MERR., in Philip. Journ. Sci. Bot. 9 (1914) 45; SASAKI, Cat. Govt. Herb. (1930) 36; KANEH., Fl. Micron. (1933) 395.

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

Polypodium polycarpon CAV., in Sw., Schrad. Journ. 1800 2 (1801) 21.

Polypodium irioides POIR., in Lamarck, Encycl. Meth. 5 (1804) 513; WILLD., Sp. Pl. 5 (1810) 160; BLUME, Fl. Jav. Insl. Fil. (1828-29) 169 t. 77; HOOK. et GREV., Ic. Fil. (1829) t. 125; METT., Fil. Hort. Bot. Lips. (1856) 38, t. 20 f. 10; HOOK., Fil. Exot. (1857-59) t. 4; HOOK., Sp. Fil. 5 (1864) 67; HOOK. et BAK., Syn. Fil. (1868) 360; BAKER, Fl. Maurit. Seychel. (1877) 507; HENRY, List Pl. FORMOS. (1896) 115; RACIBORS., Pter. Fl. Buitenz. 1 (1898) 106; DIELS, Fl. Centr. Chin. (1898) 203, et in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 315; H. CHRIST, in Warb. Mons. 1 (1900) 62; BAILL., Queensl. Fl. 6 (1902) 1987; MATS., Ind. Pl. Jap. 1 (1904) 335; MATS. et HAY., Enum. Pl. FORMOS. (1906) 632; MAKINO et NEM., Fl. Jap. (1925) 1646; OGATA, Icon. Fil. Jap. 3 (1930) 136; MAK. et NEM., l. c. 2 ed. (1931) 89.

Fig. 76



Niphobolus polycarpus SPR., Syst. 4 (1827) 45.

Aspidium microcarpon BL., Enum. (1828) 142.

Polypodium polycephalum WALL., List (1828) n. 273.

Polypodium glabrum ROXB., Wall., List (1828) n. 281.

Microsorium irregulare LINK, Hort. Berol. 2 (1833) 114.

Phymatodes irioides PRESL., Tent. Pter. (1836) 198.

Phymatodes lingulata PRESL., ibid. 198.

Phymatodes polycarpa PRESL., ibid. 198, t. 8 f. 19.

Phymatodes sessilis PRESL., ibid. 198.

Drynaria irioides J. SMITH, in Journ. Bot. 3 (1841) 398.

Polypodium sessile KAULF, Sieb. exsicc.; Kuntze, Bot. Zeit. (1846) 116.

Microsorium irioides FÉE, Gen. (1850-52) 268.

Microsorium sessile FÉE, ibid. 268.

Pleopeltis irioides MOORE, Ind. Fil. (1857) 78; RIDLEY, Fl. Low. Siam (1911) 233.

Pleopeltis sessilis MOORE, ibid. 78.

Colysis erioides J. SM., Hist. Fil. (1875) 101.

Pleopeltis punctata BEDD., Fern. Brit. Ind. suppl. (1876) 22, et Handb. Fern. Brit. Ind. (1892) 357.

Nom. Jap. Ayame-sida.

Hab. Kôto-syo, June 1926, Oct. 1934, S. Sasaki; Kwasyô-tô, June 1927, et Jan. 1919, S. Sasaki!

Distrib. Tropical Asia, Australia, Polynesia, Tropical Africa, Mascar Isl., Mauritius, Seychellus.

Note: This species grows very common from the coast or the summit of the mountains, especially grows valley or shade places near the water.

77. POLYPODIUM SCOLOPENDRIUM BURM, f. Fl. Ind. (1768) 232;

MERR., Burm. Fl. Ind. in Philip. Journ. Sci. 19 (1921) 335; SASAKI, List Pl. Formosa (1928) 35, et Cat. Govt. Herb. (1930) 36.

Polypodium phymatodes LINN., Mant. Pl. (1771) 306; LOUR., Fl. Cochinch. ed.-Willd., (1793) 827; WILLD., Sp. Pl. 5 (1810) 167; HOOK. et ARNO, Bot. Capt. Beech. Voy. (1830-41) 74; METT., Fil. Hort. Bot. Lips. (1856) 36; LOWE, Fern. Brit. Exot. 2 (1858) 77; HOOK., Sp. Fil. 5 (1864) 82; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 247; BAKER, Fl. Maurit. Seyc. (1877) 508; BENTH., Fl. Austr. 7 (1878) 769; HOOK. et BAK., Syn. Fil. (1868) 364; MAKINO, in Bot. Mag. Tokyo, 10 (1896) 56; HENRY, List Pl. Formos. (1896) 115; RACIBORSK., Pter. Fl. Buitenz. 1 (1898) 114; H. CHRIST, in Warb. Mons. 1 (1900) 62; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 318; YABE, Not. Fern. Isl. Kôto, in Bot. Mag. Tokyo, 16 (1902) 51; MATS., Ind. Pl. Jap. 1 (1904) 338; COPEL., Polyp. Philip. (1905) 129; MATS. et HAY., Enum. Pl. Formos. (1906) 635; C. CHRIST., Ind. Fil. (1906) 553; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 6, et 141; MERR., in Philip. Journ. Sci. Bot. 3 (1908) 392; ROSEN., Malay. Fern. (1908) 662; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 89; ROBINS., in Philip. Journ. Sci. Bot. 6 (1911) 192; MERR., in Philip. Journ. Sci. Bot. 9 (1914) 45; KAWAK. et SASAKI, l. c. (1915) 23; SAKAGUTI, Gen. Ind. Fl. Okin. (1924) 113; MAK. et NEM., Fl. Jap. (1925) 1649; OGATA, Icon. Fil. Jap. 3 (1930) 142; MAK. NEM., l. c. 2 ed. (1931) 92; KANEH., Fl. Micron. (1933) 395.

Tectaria phymatodes CAV., Descrip. pl. Ant. Cav. (1802) 249.

Polypodium grossum LANGSD. et FISCH., Ic. Fil. (1810) 9 t. 8.

Phymatodes grossa PR., Tent. Pter. (1836) 196.

Phymatodes vulgaris PR., Tent. Pter. (1836) 196; J. SMITH, Fern. (1896) 94.

Chrysopteris longipes LINK, Fil. Sp. (1841) 122.

Chrysopteris terminalis LINK, Fil. Sp. (1841) 122.

Chrysopteris phymatodes LINK, Fil. Sp. Hort. Bot. Ber. cult. (1841) 122.

Chrysopteris peltidea LINK, Fil. Sp. (1841) 123.

Drynaria vulgaris J. SM., in Journ. Bot. 4 (1841) 397.

Drynaria phymatodes FÉE, Gen. Fil. (1850-52) 270.

Drynaria grossa FÉE, Gen. Fil. (1850-52) 270.

Pleopeltis phymatodes MOORE, Ind. Fil. (1857-1862) 78; BEDD., Fern. South. Ind. 2 ed. (1873) t. 173; RIDLEY, Fl. Singapore (1900) 193, et Fl. Lower Siam. (1911) 233.

Polypodium trifidum CES., Fel. Becc. Polines. (1877) 5.

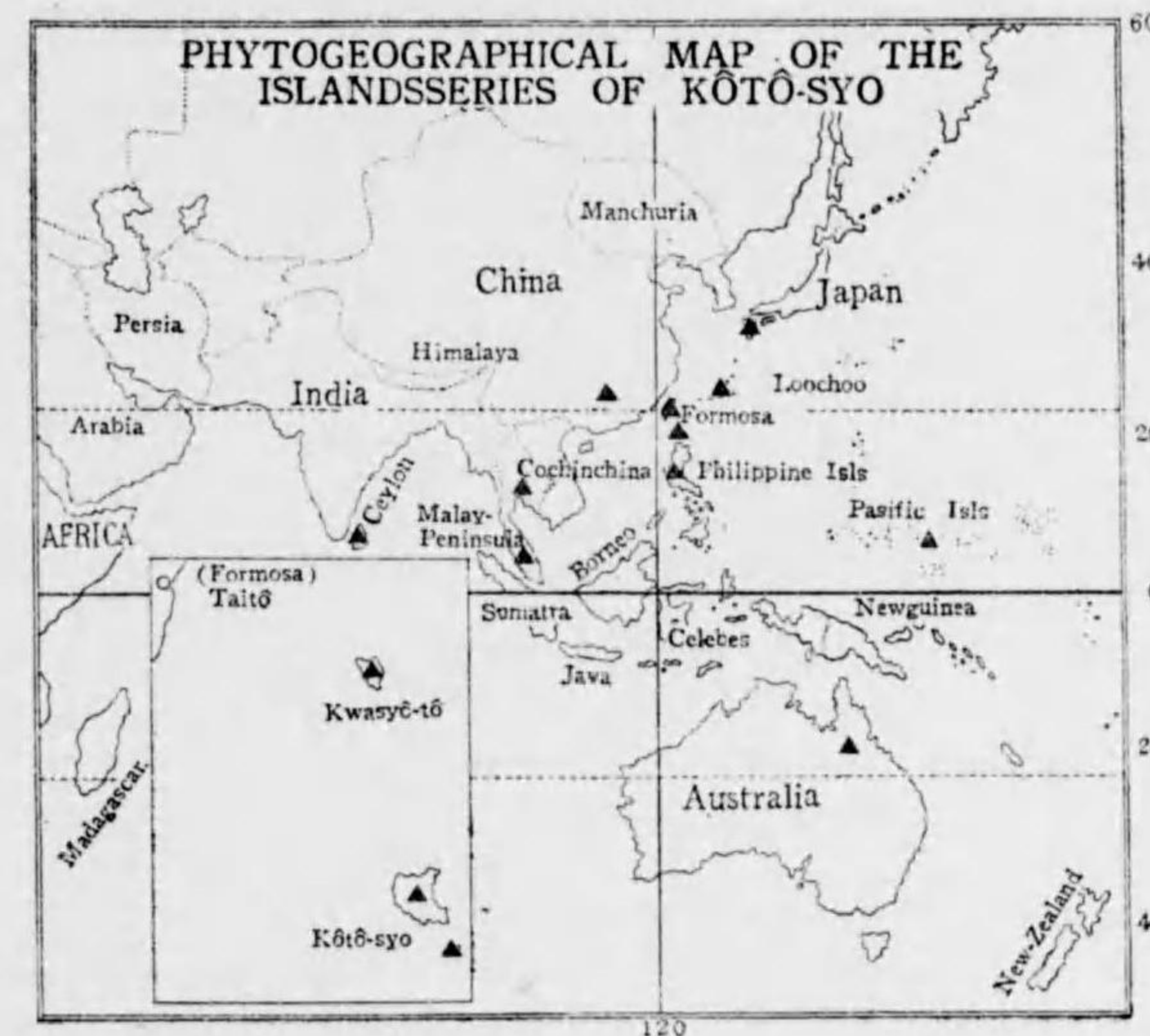
Nom. Jap. Okinawa-urabosi.

Hab. Kôto-syo, May 1924, S. Sasaki, ibid. Sept. 22, 1933, S. Sasaki; Kwasyô-tô, June 3, 1927, S. Sasaki; Syô-kôto-syo, July 1911, et June 1926, S. Sasaki.

Distrib. Japan, (Tusima) Loochoo, Formosa, China, Malay to Australia, Tropical Polynesia, Tropical Africa and South Africa.

Note: This species generally grows near the edges of the tidal forests around the Island and also on the coral stone or slow-slope cliffs of the mountains.

Fig. 77



78. POLYPODIUM SUPERFICIALE BLUME, Enum. Pl. Jav. (1828) 123,

et Fil. Jav. Fil. (1828) 136, f. 56, f. 1; HOOK., Sp. Fil. 5 (1864) 71; HOOK. et BAK., Syn. Fil. (1868) 355; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 246; CLARKE, Rev. Fern. North. Ind. (1880) 557; LUERSS., in Engl. Bot. Jahrb. 4 (1883) 360; HENRY, List Pl. Formos. (1896) 115; H. CHRIST, Farnkr. d. Erd. (1897) 104; DIELS, Fl. Centr. Chin. (1898) 203, et in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 315; H. CHRIST, in Warb. Mons. 1 (1900) 61, et in Bull. Herb. Boiss. 2, ser. 1 (1901) 1014; BAIL., Queensl. Fl. 6 (1902) 1985; MATSUM., Ind. Pl. Jap. 1 (1904) 339; MATS. et HAY., Enum. Pl. Formos. (1906) 631; C. CHRIST., Ind. Fil. (1906) 568; ROSEN., Malay. Fern. (1908)

631; MATH., in Journ. Linn. Soc. 39 (1911) 383; MAK. et NEM., Fl. Jap. (1925) 1652; OGATA, Icon. Filic. Jap. 3 (1930) 145; MAK. et NEM., l. c. 2 ed. (1931) 95; SUZUKI, in Ann. Rep. Taih. Bot. Gard. 1 (1931) 110; MASAM., Fl. Geob. Stud. Yak. (1934) 95.

Polypodium hymenodes KUNZE, in Linn. 23 (1850) 279, 319; METT., Fl. Hort. Lips. (1856) 37, t. 25, ff. 40-41; BENTH., Fl. Hongk. (1861) 458.

Pleopeltis superficialis BEDD., Fern. Brit. Ind. (1865) t. 75, et Handb. Fern. Brit. Ind. (1892) 350.

Colysis superficiale J. SM., Hist. Fil. (1875) 101.

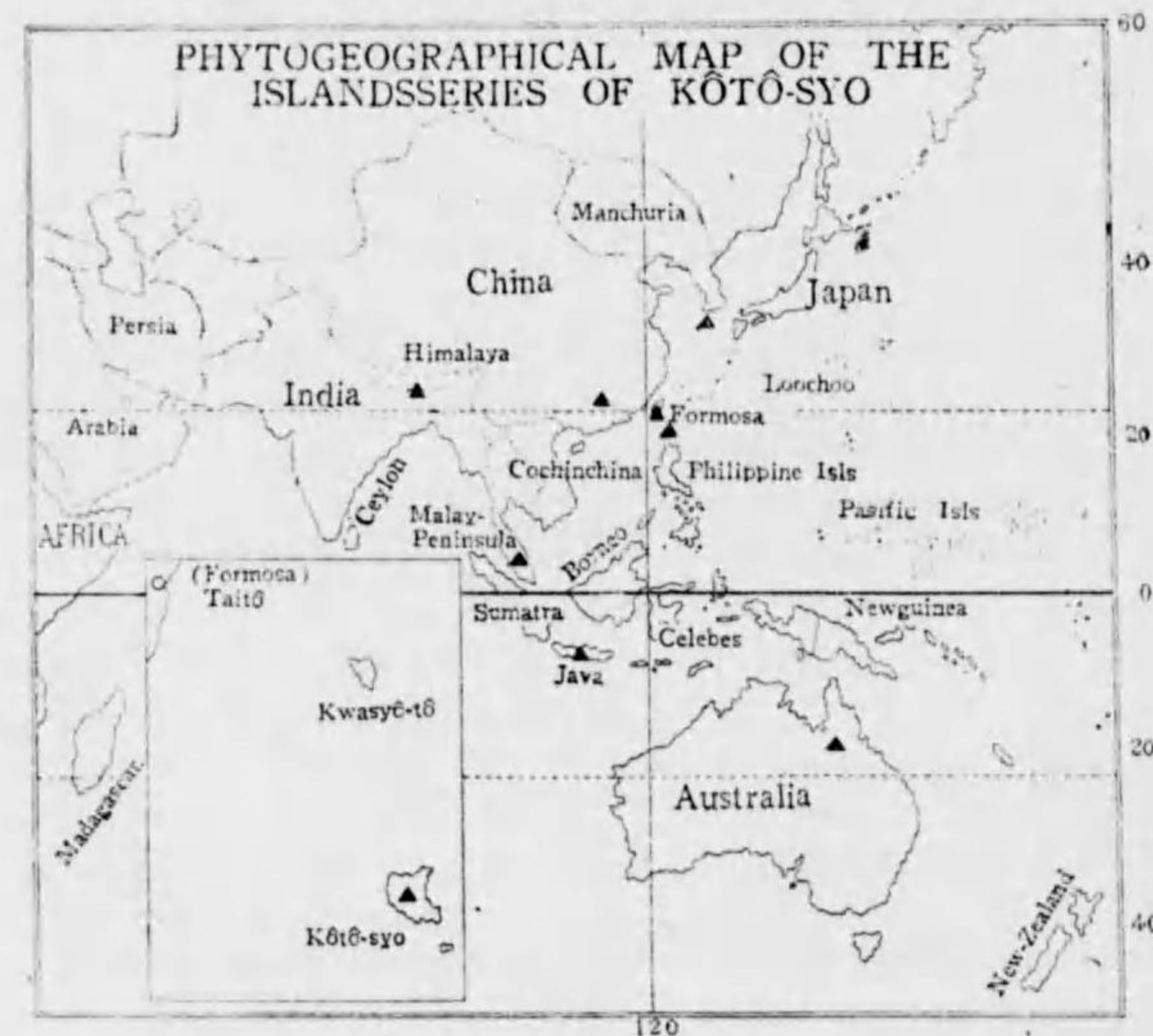
Nom. Jap. Nukabosi-ran.

Hab. Kōtō-syo, Nov. 21, 1934, S. Sasaki!

Distrib. Japan, Korea, Formosa, China, India, North Java, Queensland.

Note: This species is very common fern in the tropical & subtropical regions in the East, but in this island very rare, we found only a time at the Oomori-yama 300m above the sea level, it grows on the living trees of *Pometia pinnata* Forst.

Fig. 78



79. *POLYPODIUM TAENIATUM* Sw., in Schrad. Journ. 1880 2 (1801) 1; SASAKI, in Trans. Nat. Hist. Soc. Formos. 26 (1936) 60.

Polypodium palmatum BLUME, Enum. Pl. Jav. (1828) 131, et Fl. Jav. Fil. 2 (1828) 150, tab. 64; HOOK., Sp. Filic. 5 (1864) 89; HOOK. et BAK., Syn. Filic. (1868) 368; RACIBORSK., Pter. Fl. Buitenz. 1 (1898) 114; COPEL., Polyp. Philip. (1905) 130; C. CHRIST., Ind. Fil. (1906) 550; ROSENB., Malay. Fern. (1908) 669; SASAKI, Cat. Govt. Herb. (1930) 35.

Drynaria palmata J. SM., in Journ. Bot. 3 (1841) 397.

Pleurodium palmatum J. SM., Cat. Cult. Fern. (1857) 10.

Pleopeltis palmata MOORE, Ind. Fil. (1862) 347.

Phymatopsis palmata J. SM., Hist. Filic. (1875) 105.

Polypodium falcato-pinnatum HAY., Ic. Pl. Formos. 4 (1914) 247, f. 172; MAK. et NEM., Fl. Jap. (1925) 1644, et 2 ed. (1931) 87.

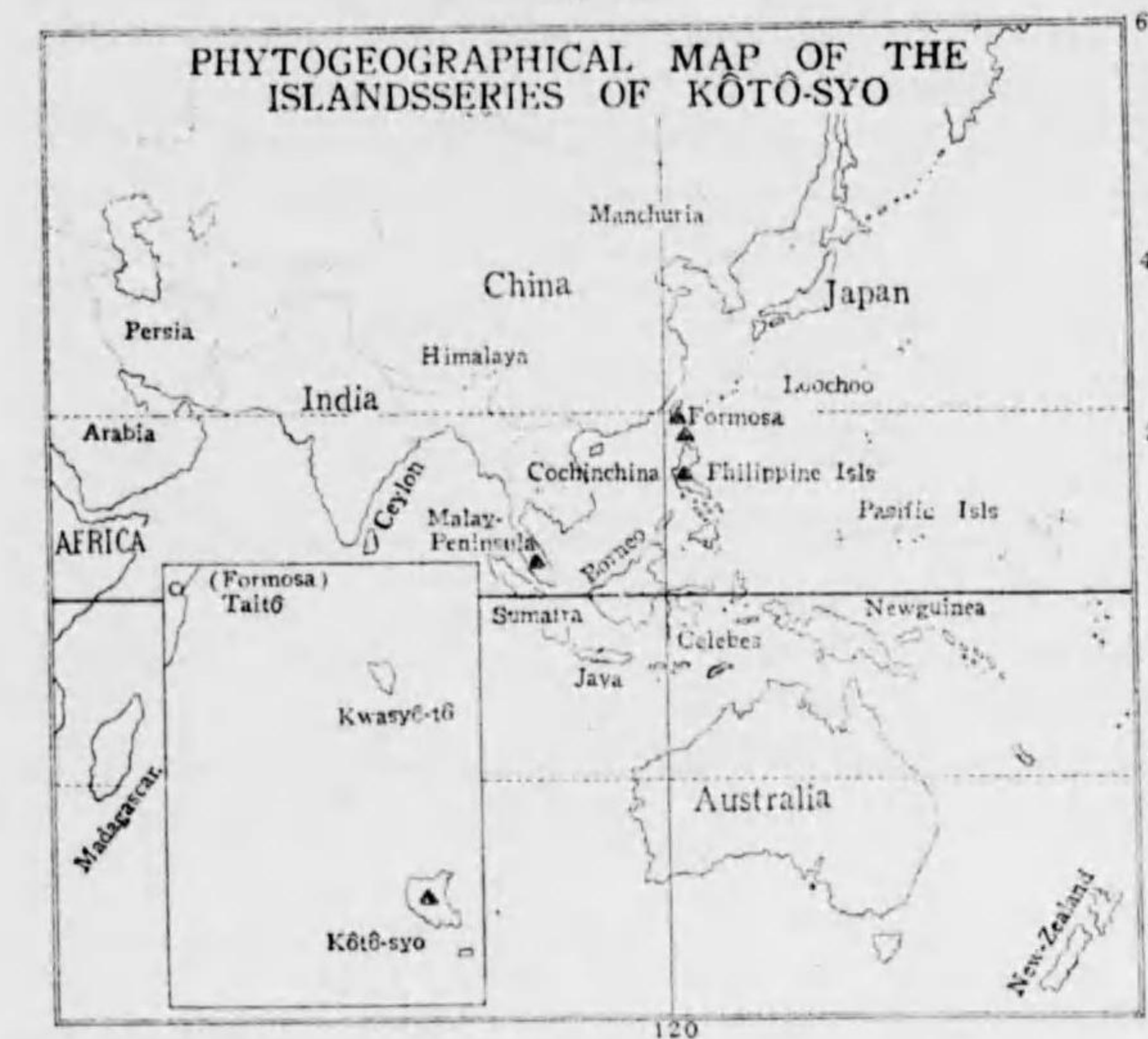
Nom. Jap. Enaga-urabosi.

Hab. Kōtō-syo, May 1924, June, 1926, ibid. Nov. 21, 1934, S. Sasaki.

Distrib. Formosa, Malaya and Philippines.

Note: This species grows always on the living trees or on the rocks near the sea shore cliffs.

Fig. 79



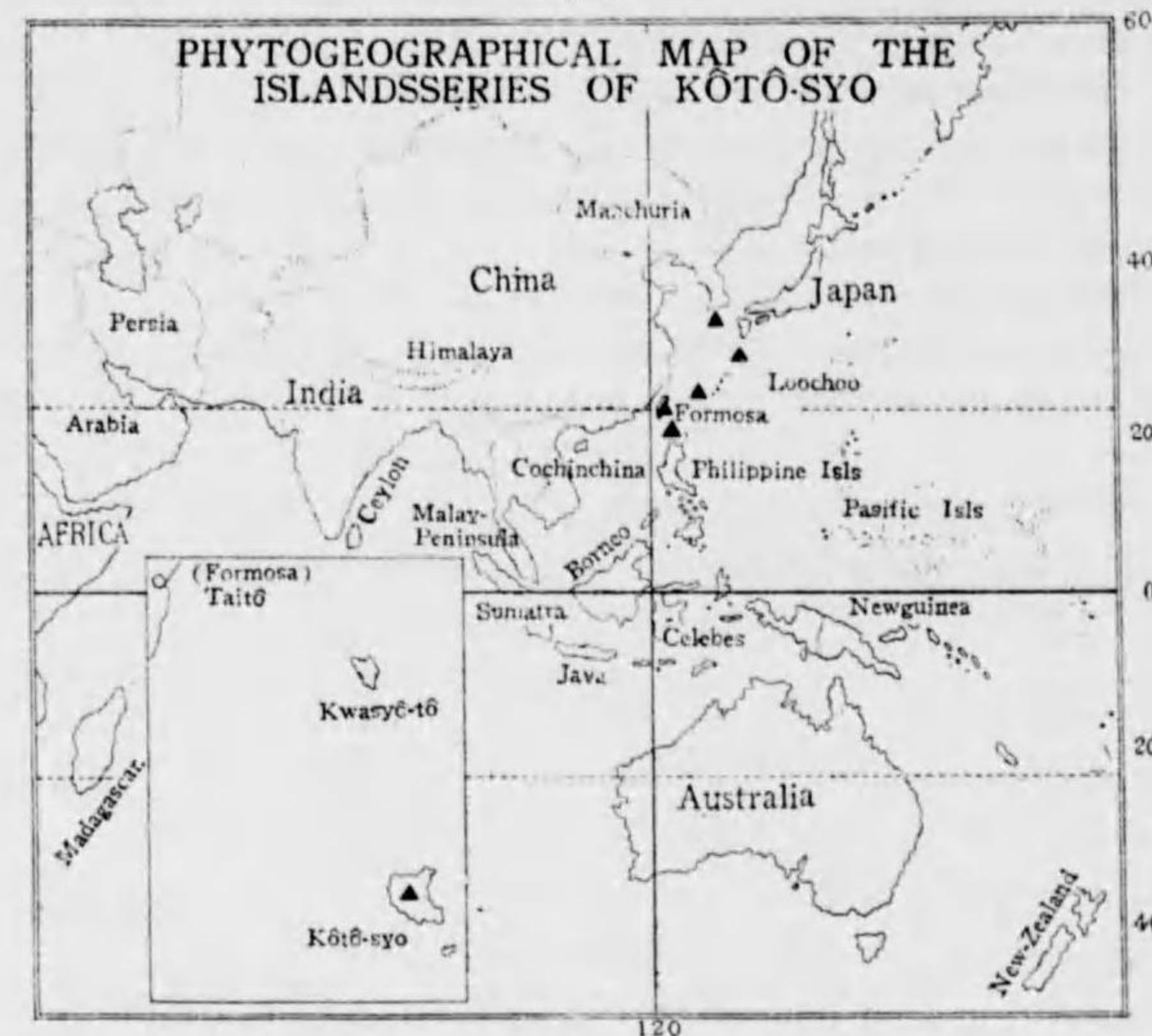
80. *POLYPODIUM WRIGHTII* METT., ex Diels, in Engl. u. Prantl, Nat. Pfl.-fam. 1-4 (1899) 316; H. CHRIST., in Warb. Mons. 1 (1900) 62; MATSUM., Ind. Pl. Jap. 1 (1904) 340; MATSUM. et HAY., Enum. Pl. Formos. (1906) 637; MATH., in Journ. Linn. Soc. 39 (1911) 384; MORI, Enum. Pl. Cor. (1922) 16; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 96; OGATA, Icon. Filic. Jap. 5 (1933) 245; MASAM., Fl. Geob. Stud. Yak. (1934) 95.

Gymnogramme Wrightii HOOK., Sp. Fil. 5 (1864) 160, t. 303; HOOK. et BAK., Syn. Fil. (1868) 388; HARRINGT., in Journ. Linn. Soc. 16 (1877) 33; BAK., in Journ. Bot. 23 (1885) 106; HENRY, List Pl. Formos. (1896) 116; YABE, in Bot. Mag. Tokyo, 16 (1902) 50.

Selliguea Wrightii SMITH, Hist. Fil. (1875) 102; LUERSS., in Engl. Bot. Jahrb. 4 (1883) 364.

Polypodium diversum ROSENST., in Hedwigia B. 56 (1911) 333; HAYAT., Ic. Pl. Formos. 8 (1919) 152; MAKINO et NEMOTO, Fl. Jap. (1925) 1643; SASAKI, List Pl. Formos. (1928) 32; MAK. et NEM., l. c. 2 ed. (1931) 6.

Fig. 80



Nom. Jap. Yarihono-kuriharan.

Hab. Kōtō-syo, June 1926, S. Sasaki.

Distrib. Querpaert, Yaku-sima, Loochoo, Formosa.

Note: This species generally grows shade places in the neuter forests and also waste places of over the island.

CYCLOPHORUS DESVAUX, Berl. Mag. 5 (1811) 300; ROSENB., Malay. Fern. (1908) 678; MERR. Fl. Manila (1912) 58.

Polypodium LINN., Sp. Pl. (1753) 1082, pro parte; BENTH., Fl. Hongk. (1861) 457; HOOK., Sp. Filic. (1862) 163; HOOK. et BAKER, Syn. Fil. (1867) 304; BAKER, Fl. Maurit. (1877) 501; BENTH., Fl. Austral. 7 (1878) 760; CLARKE, Rev. Fern. North. Ind. (1880) 524; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 324.

Acrostichum (non LINN.) THUNB., Fl. Jap. (1784) 330.

Niphobolus KAULF., Enum. Fil. (1824) 124; BEDD., Fern. South. Ind. (1873) 61, et Hadb. Fern. Brit. Ind. (1892) 324; SMITH, Fern. (1896) 99; DIELS, in Engl. u. Prantl, Nat. Pil.-fam. 1. 4 (1899) 324; COPEL., Polyp. Philip. (1905) 122.

Distrib. Tropical Asia to Polynesia.

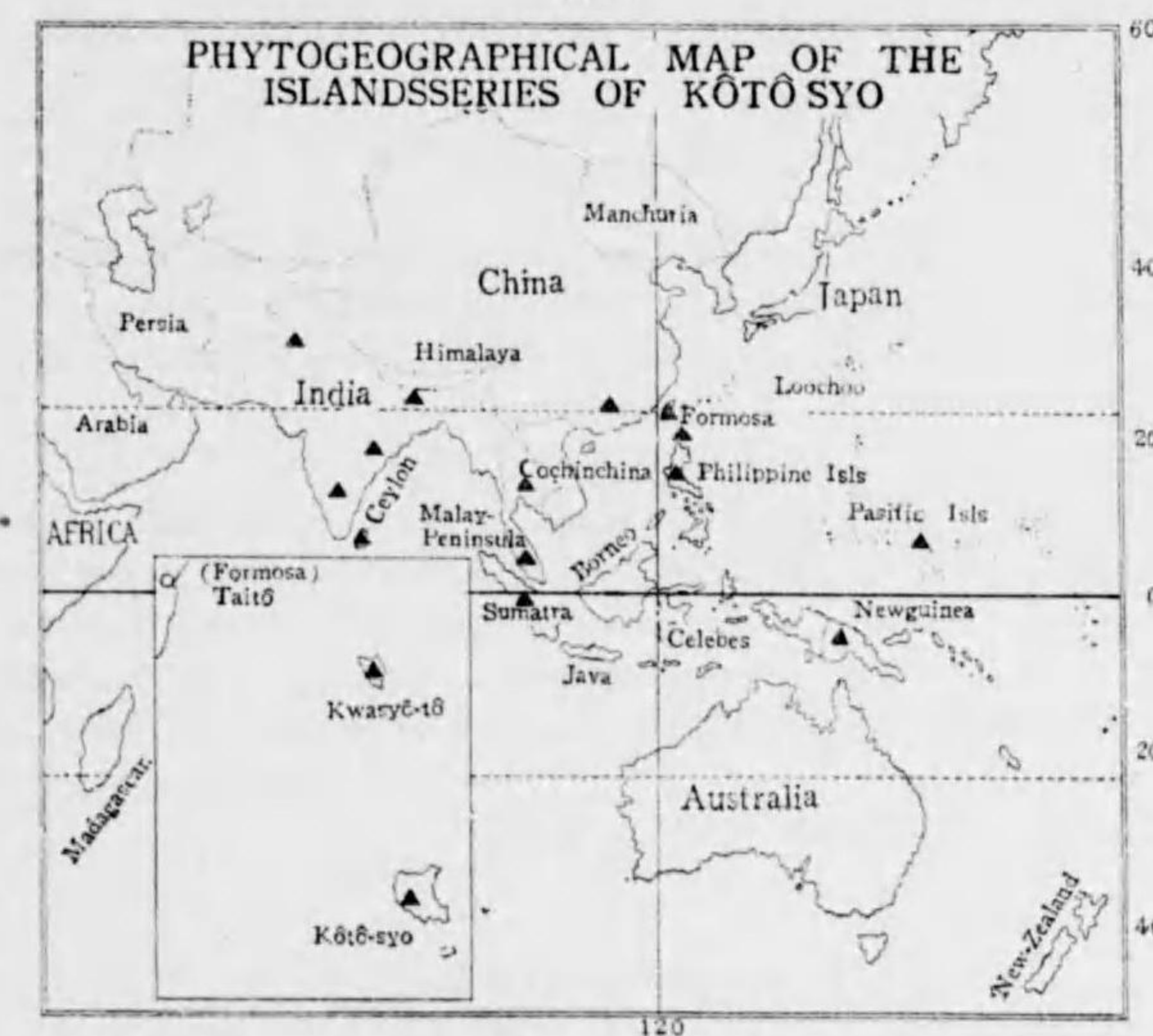
81. **CYCLOPHORUS ADNASCENS** DESVAUX, in Gesells. Naturf. Freunde Berl. Mag. 5 (1811) 300; C. CHRIST., Ind. Filic. (1906) 197; ROSENB., Malay. Fern. (1908) 681; COPEL., in Philip. Journ. Sci. Bot. 6 (1911) 91; ROBINS., in Philip. Journ. Sci. Bot. 6 (1911) 191; WILLIS et WILLIS, Rev. Catal. Fl. Pl. & Fern. Ceyl. (1911) 123; MERR., Fl. Manila, (1912)

58, et in Philip. Journ. Sci. Bot. 9 (1914) 43; ROSENB., Malay. Fern. All. Suppl. 1 (1916) 411; MAKINO et NEMOTO, Fl. Jap. (1925) 1595; OGATA, Icon. Filic. Jap. 1 (1928) 12; MAK. et NEM., l. c. 2 ed. (1931) 38; KANEH., Fl. Micron. (1933) 393.

Polypodium adnascens SWARTZ, Syn. Filic. (1806) 25, 228, t. 2. f. 2; WILLD., Sp. Plantarum, 5 (1810) 154; HOOK. et GREVILLE, Icon. Filic. (1827) t. 19; BENTH., Fl. Hongk. (1861) 457; HOOK., Sp. Filic. 5 (1864) 47; HOOK. et BAKER, Syn. Filic. (1867) 349; CLARKE, Rev. Fern. North. Ind. (1880) 552; BAKER, Fl. Maurit. & Seychel., (1877) 506; RACIBORSKI, Pterid. Fl. Buitenz. 1 (1898) 98; H. CHRIST, in Warburg, Monsunia, 1 (1900) 60; ROSENSTOCK, in Nova Guinea 8 Bot. 4 (1913) 729.

Niphobolus adnascens KAULF., Enum. Filic. (1824) 124; WALL., List (1828) n. 268; BLUME, Fl. Jav. (1828) 56, t. 22; HOOK., Gard. Fern. (1862) t. 19; BEDD., Fern. South. Ind. 2nd. ed. (1873) 62, t. 184, et Handb. Fern. Brit. Ind. (1892) 325; SMITH, Fern. Brit. & Foreign, (1896) 100; DIELS, Fl. Centr. Chin. (1898) 207; RIDLEY, Fl. Singap., (1900) 193; GIESENH., Farng. Niphob., (1901) 196; YABE, in Bot. Mag. Tokyo, 16 (1902) 51; COPEL., Polyp. Philip. (1905) 114;

Fig. 81



MATS. et HAY., Enum. Pl. Formos. (1906) 638; RIDL., Fl. Low. Siam (1911) 233; KAWAKAMI et SASAKI, l. c. 23.

Niphobolus varius KAULF., Enum. Filic. (1824) 125.

Polypodium pertusum ROXB., ex Hook. Exot. Fl. 2 (1825) t. 162; WALL., l. c. n. 267; MEITEN., Polyp. (1857) 125.

Niphobolus carnosus BLUME, Enum. Pl. Jav. 2 (1828) 50, t. 19.

Polypodium Koenigii BLUME, l. c. 50.

Niphobolus elongatus BLUME, l. c. 52, t. 20.

Pteris piloselloides (non DESV.) BLANCO, Fl. Filip., (1837) 830, ed. 2 (1845) 574, ed. 3 3 (1873) 248.

Polypodium carnosum METT., Polypod. (1857) 124. n. 249.

Polypodium caudatum METT., l. c. 126, n. 225.

Nom. Jap. Hitotuba-mameduta.

Hab. Kôto-syo, June 1911, May 1924, June 1926, S. Sasaki; Kwasyô-tô, June 1927, et July 4, 1935, S. Sasaki.

Distrib. Tropical Asia, Philippine, Polynesia, New Guinea, Mauritius.

Note: This species generally grows on the barks of the living trees or on the rocks of the shade places.

Parkeriaceae

PARKERIACEAE apud DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 339; ROSENBERG, Malay. Fern. (1908) 251; COPELAND, Fern. Malay-Asiat. Reg., in Philip. Journ. Sci. Bot. 4 (1909) 26; MERRILL, Fl. Manila, (1912) 59.

Polypodiaceae R. BR., Prodr. Fl. Nov. Holland. (1810) 145, pro parte; Trib. *Ceratopteridinae* BEDD., Fern. South. Ind. (1863) 22, pro parte.

Filices Subordo *Polypodiaceae* HOOK. et BAKER, Syn. Filic. (1865) 15, pro parte; BEDD., Handb. Fern. Brit. Ind. (1892) 4, pro parte; SMITH, Fern. (1896) 73, pro parte.

Filices Trib. 3. *Osmundae*, BENTHAM, Fl. Austral. 7 (1878) 686, pro parte; BAILLON, Queensl. Fl. 6 (1902) 1930, pro parte.

CERATOPTERIS BRONGNIART, Bull. Soc. Philom. (1821) 186; HOOKER, Sp. Fil. 1 (1846) 234; BENTHAM, Fl. Hongk. (1861) 443; BEDDARD, Fern. South. Ind. (1863) 25; HOOKER et BAKER, Syn. Fil. (1867) 174; BENTHAM, Fl. Austral. 7 (1878) 695; BEDDARD, Handb. Fern. Brit. Ind. (1892) 123; SMITH, Fern. (1896) 133; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 342; BAILLON, Queensl. Fl. 6 (1902) 1936; ROSENBERG, Malay. Fern. (1908) 751; COPELAND, in Philip. Journ. Sci. Bot. 4 (1909) 26; MERRILL, Fl. Manila, (1912) 60.

Distrib. All tropical Countries.

82. CERATOPTERIS SILIQUOSA COPELAND apud litt.

Acrostichum Siliquosum LINN., Sp. Pl. (1753) 1070.

Acrostichum thalictroides LINN., ibid.

Ceratopteris thalictroides BRONGNIART, Bull. Soc. Philom. (1821) 186 c. t.; BLUME, Enum. Pl. Jav. 2 (1828) 240; WALLICH, List (1828) n. 83; BAUER et HOOKER, Genera Fil. (1842) t. 12; METT., Fil. Hort. Bot. Lips. (1856) 39; LOWE, Fern. Brit. Exot. 2 (1858) 155; HOOKER, Sp. Fil. 2 (1858) 236; BENTHAM, Fl. Hongk. (1861) 443; BEDDARD, Fern. South. Ind. (1863) 26, t. 75; MIQUEL, Prol. Fl. Jap. (1867) 335 et 389; HOOKER et BAKER, Syn. Fil. (1867) 174; FRANCHI et SAVATY, Enum. Pl. Jap. 2. 1 (1876) 215; BENTHAM, Fl. Austr. 7 (1878) 695; CLARKE, Rev. Fern. North. Ind. (1880) 471; BEDDARD, Handb. Fern. Brit. Ind. (1892) 123; HENRY, List Pl. Formos. (1896) 111; RASIBORSKI, Pter. Fl. Buitenz. 1 (1898) 751; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899)

342; H. CHRIST, in Warburg, Monsunia 1 (1900) 93; YABE, in Bot. Mag. Tokyo, 16 (1902) 52; MATSUMURA, Ind. Pl. Jap. 1 (1904) 298; MATSUMURA et HAYATA, Enum. Pl. Formos. (1906) 563; C. CHRIST, Ind. Fil. (1906) 169; ROSENBERG, Malay. Fern. (1908) 751; COPELAND, in Philip. Journ. Sci. Bot. 4 (1909) 27; MERRILL, Fl. Manila (1912) 60, et in Philip. Journ. Sci. Bot. 9 (1914) 46; SAKAGUTI, Gen. Ind. Fl. Okinawa (1924) 107; MAKINO et NEMOTO, Fl. Jap. (1925) 1568; SASAKI, List Pl. Formos. (1928) 42; MAKINO et NEMOTO, Fl. Jap. 2 ed. (1931) 113; KANEHIDE, Fl. Micron. (1933) 396.

Pteris thalictroides SW., Schrad. Journ. 1800 2 (1801) 65.

Belvisia siliquosa MURRAY, Hist. Nat. Pl. 4 (1803) 65.

Pteris cornuta PALMER, Beauv. Fl. d'Ow. 2 (1807) 63, t. 8.

Ceratopteris Gaudichaudii BRONGNIART, Bull. Soc. Philom. (1821) 187.

Ceratopteris Richardi BRONGNIART, Dict. Glass. d'Hist. Nat. 3 (1823) 351.

Furcaria cornuta DESV., Prod. Fam. Fang. (1827) 292.

Furcaria thalictroides DESV., ibid. d'Hist. Nat. 3 (1823) 351.

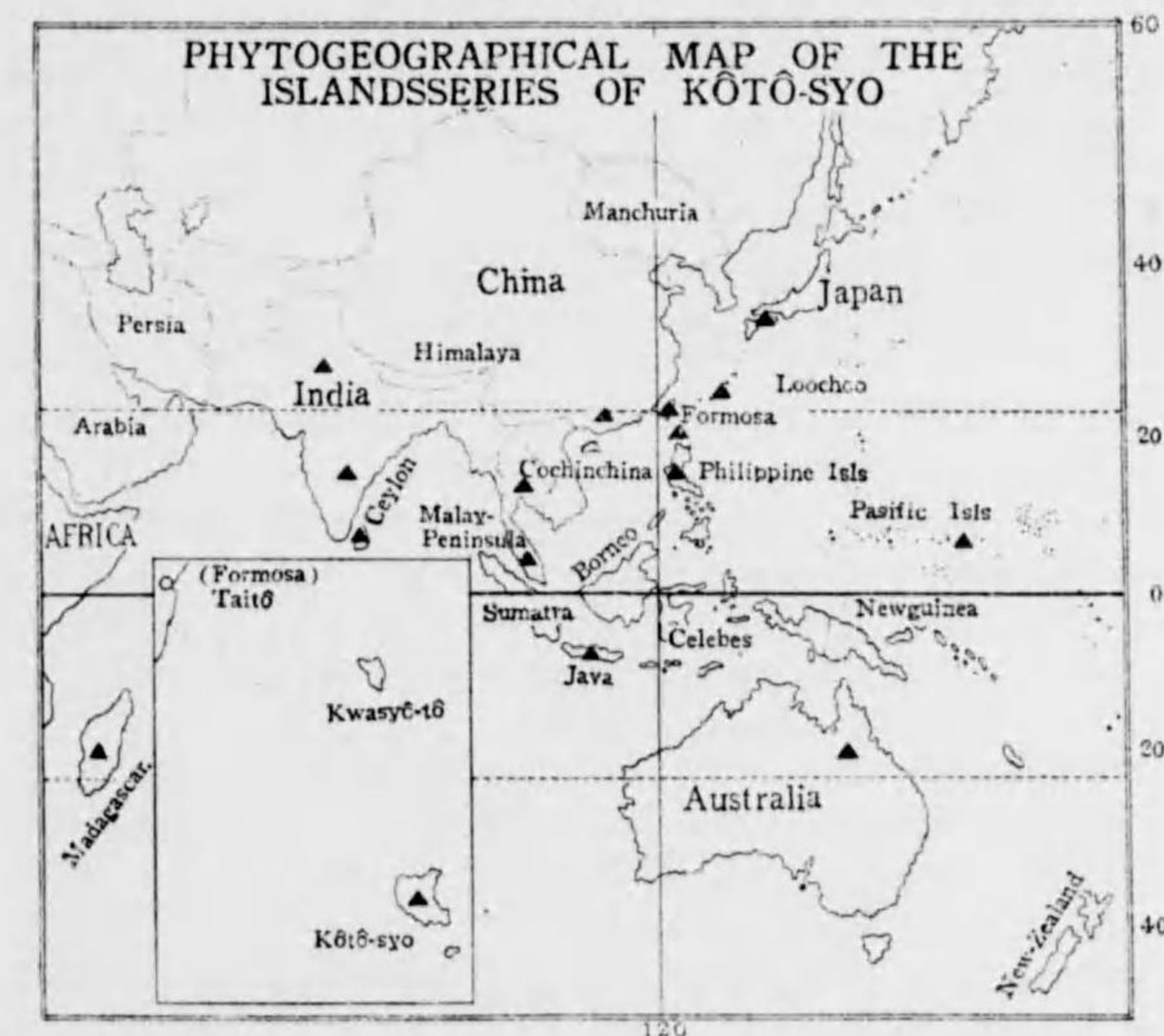
Teleozoma thalictroides R. BR., in Farnkr. Narr. Journ. (1823) 767.

Ellobocarpus cornutus KAULF., Enum. Fil. (1824) 117.

Ellobocarpus oleraceus KAULF. ibid.

Parkeria pteridioides HOOKER, Exot. Fl. 2 (1825) t. 147.

Fig. 82



Ceratopteris cornuta LE PRIEUR, Ann. Sc. Nat. 19 (1830) 103, t. 4 d.

Ceratopteris Parkeri J. SMITH, in Journ. Bot. 4 (1841) 70.

Onychium cornutum HASSK., Tijdschr. Nat. Gesch. 10 (1843) 115.

Pteris succulenta ROXBURGH, in Calc. Journ. Nat. Hist. 4 (1844) 508.

Ceratopteris Lockharti KUNZE, Linn. 23 (1850) 241.

Nom. Jap. Midu-warabi.

Hab. Kōtō-syo, May 15, 1924; ibid. June 15, 1926; ibid. Nov. 3, 1934, S. Sasaki!

Distrib. Japan, Loochoo Formosa and other pantropic of over the World.

Note: This species generally grows in the water fields or muddy open wet places.

Gleicheniaceae

GLEICHENIACEAE BLUME, Enum. Pl. Jav. 2 (1830) 248; LINDLEY, Nat. Syst. (1836) 401, pro parte; ENDLICH, Gen. Pl. (1836) 64; METT., Filic. Hort. Lips. (1856) 112; STURM, in Maurit., Fl. Bras. 1. 2 (1859) 217-18; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 350; ROSENBERG, Malay. Fern. (1908) 55; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 21; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 689.

Filices b. Spuriae Gyrateae s. Rimatae SWARTZ, Syn. Filic. (1806) 6, pro parte.

Gleicheniae R. BROWN, Prodr. Fl. Nov. Holland. (1810) 160; KAULF., Enum. Filic. (1824) 36.

Schismatopterides WILLD., Sp. Pl. 5 (1810) 69, pro parte.

Filices Subgyratae b. WAHLENB., in Nov. Acta Reg. Soc. Sci. Upsal. 7 (1815) 182, pro parte.

Filices Sect. *Gleicheniae* LINDLEY, Introd. (1830) 315.

Polypodiaceae Subordo *Gleicheniaceae* LINK, Fil. Sp. Hort. Reg. Bot. Berol. Cult. (1841) 34.

Filices Subordo *Gleicheniaceae* BROWN, apud Hook., Sp. Fil. 1 (1844) 1; HOOK. et BAKER, Syn. Filic. (1865) 11; BEDD., Handb. Fern. Brit. Ind. (1892) 1.

Polypodiaceae Trib. 4. *Gleichenineae* BEDD., Fern. South. Ind. (1863) 25.

DICRANOPTERIS BERNHARDI, Schrad. Neue Journ. 1. 2 (1806) 26, 36, pro parte; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 690.

Mertensia (non ROTH 1797) WILLD., in Vetensk. Akad. Nya Handl. 25 (1804) 163; SWARTZ, Syn. Filic. (1806) 163; SCHKUHR, Krypt. Gew. (1809) 149; WILLD., Sp. Pl. 5 (1810) 71; KAULF., Enum. Filic. (1824) 37; PRESL, Tent. Pterid. (1836) 50; LINK, Fil. Sp. Hort. Reg. Bot. Berol. Cult. (1841) 35; HOOK., Gen. Fil. (1842) t. 39; STURM, in Maurit. Fl. Brasil. 1. 2 (1859) 219; NAKAI, in Bot. Mag. Tokyo, 39 (1925) 177.

Gleichenia (non J. E. SMITH) BLUME, Enum. Pl. Jav. 2 (1830) 248; ENDL., Gen. Pl. 1 (1836) 64, pro parte; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 352; ROSENBERG, Malay. Fern. (1908) 55; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 22.

Sticherus PRESL, Tent. Pterid. (1836) 51.

Gleichenia Subgn. *Mertensia* HOOK., Sp. Fil. 1 (1844) 4; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 353.

Hicriopteris PRESL, Epim. Bot. (1849) 26.

Gleichenia § *Mertensia* METT., Filic. Hort. Lips. (1856) 113; HOOK. et BAKER, Syn. Fil. (1865) 12.

Mesosorus HASSKARL, Observ. Bot. Filic. Bog. 1 (1856) 2.

Gleichenia § *Mertensia* a *Dicranopteris* ROSENBERG, Malay. Fern. (1908) 55.

Distrib. Mexico, South America, Australia, New-Zealand, Tasmania, Polynesia, Tropical and Subtropical Asia.

83. **DICRANOPTERIS DICHOTOMA** BERNH., in Schrad. Neue Journ. 1. pt. 2 (1806) 38 et 49, t. 3. f. 13, pro parte; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 695; MAK. et NEM., Fl. Jap. 2 ed. (1931) 113; MASAM., Fl. Geob. Stud. Yak. (1934) 105.

Polypodium dichotomum (non HOUTTUYN) THUNBERG, Fl. Jap. (1784) 338; VITM., Summa Pl. 6 (1792) 127.

Mertensia dichotoma WILLD., in Vetensk. Akad. Nya Handl. 25 (1804) 167; SCHWARY, Syn. Fil. (1806) 163, pro parte; SCHKUHR, Krypt. Gew. (1809) 150, t. 148; WILLD., Sp. Pl. 5 (1810) 71; STEUD., Nomencl. 2 (1824) 285, excl. Syn. *Polypodium dichotomum* FORSTER; Presl. Tent. Pteridogr. (1836) 51; KUNZE, in Bot. Zeit. 6 (1848) 492; NAKAI, in Bot. Mag. Tokyo, 39 (1925) 179.

Gleichenia dichotoma HOOK., Sp. Fil. 1 (1846) 12, pro parte; in Kew Journ. 9 (1857) 333; MIQ., in Ann. Mus. Bot. Lugd. Bat. 3 (1867) 181, et Prol. Fl. Jap. (1867) 181; FRANCIS et SAV., Enum. Pl. Jap. 2 (1876) 203; HARRINGT., in Journ. Linn. Soc. 16 (1878) 25; LUERSS., in Engl. Bot. Jahrb. 4 (1883) 365; BAK., in Britt. Journ. Bot. 23 (1885) 102.

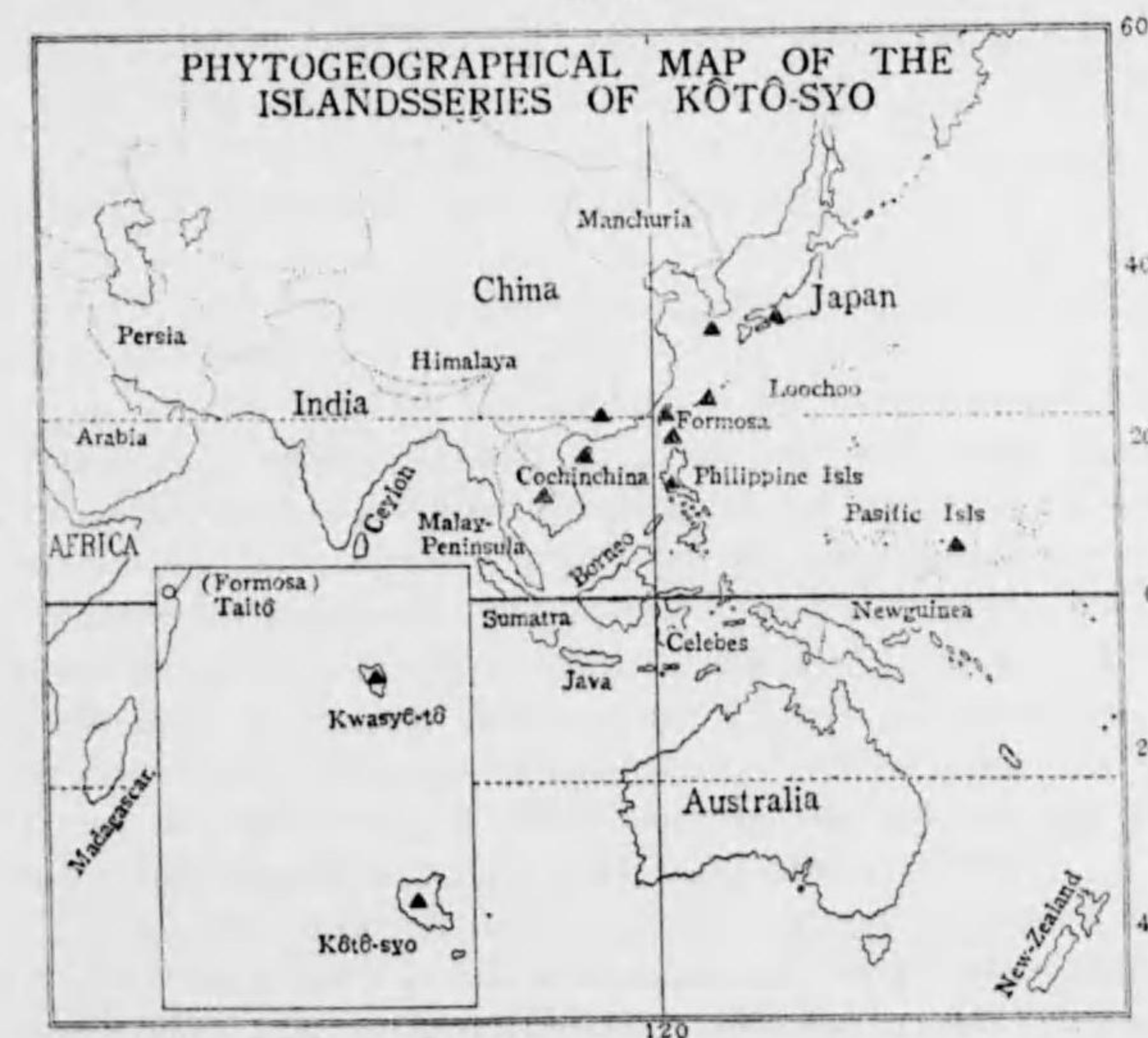
Mesosorus dichotomus HASSKARL, Obs. Bot. Fil. Bogor. 1 (1856) 9.

Gleichenia dichotoma 1. *normalis* METT., in Ann. Mus. Bot. Lugd. Bat. 1 (1863) 50.

Gleichenia pectinata (non SPRENGEL) STUD., Nomencl. (1885) 178, pro parte.

Gleichenia linearis (non CLARKE) H. CHRIST, Farnkr. (1897) 343, pro parte; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 355; H. CHRIST, in Bull. Soc. Geogr. Bot. 3 ser. 11 (1902)

Fig. 83



269; MATSUM., Ind. Pl. Jap. 1 (1904) 307, excl. Syn. Maj. part; MATSUM. et HAY., Enum. Pl. Formos. (1906) 562; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 147; *ibid.* 4 (1909) 25, *ibid.* 6 (1911) 68; MERR., *ibid.* 9 (1914) 46; NAKAI, Veg. Isl. Quelpaert (1914) 11, et in Bot. Mag. Tokyo, 28 (1914) 98; ROSENB., Malay. Fern. and Fern. All. Suppl. 1 (1917) 83; MAK. et NEM., Fl. Jap. (1925) 1567; MERR., Enum. Hainan Pl. (1927) 19; OGATA, Icon. Filic. Jap. 4 (1931) 180; KANEH., Fl. Micron. (1933) 396.

Nom. Jap. Ko-sida.

Hab. Kōtō-syo, Oct. 28, 1934, S. Sasaki; Kwasyō-tō, May 5, 1935, S. Sasaki!

Distrib. Philippine, Korea, Loochoo, Formosa, China austr., Hainan, Indo-China.

Note: This species grows always in the grassland of the open places.

Schizaeaceae

SCHIZAEACEAE KAULF., Wes. Farnkr. (1827) 119; MAURIF., Icon. Pl. Crypt. Brasil. (1834) 112; ENDLICH., Gen. Pl. I (1836) 64; METTEN., Filic. Hort. Lips. (1856) 15, 113; STURM, in Maurit. Fl. Brasil. 2 (1859) 67-68; PRANTL, Untersuch. Morph. Gefas. Schizaeac. (1881) 58; H. CHRIST, Farnkr. (1897) 344; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 356; ROSENB., Malay. Fern. (1908) 109; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 17; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 682.

Osmundaceae R. BROWN, Prodr. Fl. Nov. Holland. (1801) 161, pro parte; KAULF., Enum. Filic. (1824) 42, pro parte; DESV., in Ann. Soc. Linn. Paris 6 (1827) 193 pro parte; BLUME, Enum. Pl. Jav. (1830) 252, pro parte.

Filices spurie Gyraeae s. *Rimatae* SWARTZ, Syn. (1806) 6, pro parte.

Filices Gyraeae b. WAHLENB., in Nova Acta Reg. Soc. Sci. Upsal. 7 (1815) 181.

Filices Trib. 1. *Osmundaceae* DUMORT., Anal. Fam. Pl. (1829) 67, pro parte.

Filices Sect. 3. *Osmundaceae* LINDLEY, Introd. (1830) 315, pro parte.

Osmundaceae § 2. *Aneimiaceae* HOOK., apud Lindley, Nat. Syst. (1836) 402.

Filices Subordo 1. *Polypodiaceae* Trib. 12. *Schizaeaceae* MEISSNER, Pl. Vasc. Gen. 1 (1836) 435, et 2 (1842) 336.

Aneimiaceae LINK, Filic. Sp. Hort. Bot. Berol. (1841) 23.

LYGODIUM SWARTZ, in Schrader, Journ. 2 (1801) 106, et Syn. Filic. (1806) 6, 152; R. BROWN, Prodr. Fl. Nov. Holland. (1810) 162; KAULF., Enum. Filic. (1824) 46; DESV., in Ann. Soc. Linn. Paris 6 (1827) 203; BLUME, Enum. Pl. Jav. 2 (1830) 253; ENDL., Gen. Pl. (1836) 65, n. 663; MEISSN., Pl. Vasc. 1 (1836) 435; HOOK., Gen. Filic. (1838) t. 28; LINK, Fil. Sp. Hort. Reg. Bot. Berol. Cult. (1841) 27; STURM, in Martius, Fl. Brasil. 2 (1859) 169; BENTH., Fl. Hongk. (1861) 441; BEDD., Fern. South. Ind. (1863) 21; HOOK., Handb. New-Zeal. Fl. (1867) 385; HOOK. et BAKER, Syn. Filic. (1868) 436; BENTH., Fl. Austral. 7 (1878) 691; PRANTL, Schizaea. (1881) 60; BEDD., Handb. Fern. Brit. Ind. (1892) 453; SMITH, Fern. (1896) 257; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 363; BAIL., Queensl. Fl. 6 (1902) 1933; ROSENB., Malay. Fern. (1908) 109; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 17; MERR., Fl. Manila (1912) 60.

Ophioglossum TOURNEF., apud Linnaeus, Gen. Pl. ed. 1 (1737) 322, n. 779, pro parte; LINN., Sp. Pl. (1753) 1062, pro parte, Gen. Pl. ed. 5 (1754) 484 no. 1035, pro parte, Syst. Veg. ed.

13. 2 (1770) 684, pro parte; MURRAY, Syst. (1784) 926, pro parte; VITMAN, Summa Pl. 6 (1785) 84, pro parte.

Ugena CAVANILLES, Icon. at Descript. Pl. 6 (1801) 73, t. 594, 595.

Ramondia (non JUSSIEU) MICHEL, in Bull. Soc. Philom. 9 (1801) 179.

Odontopteris BERNHARDI, in Schrad., Journ. 2 (1801) 107.

Gisopteris BERNH., l. c. 129.

Hydroglossum WILLD., Schrift. Akad. Wiss. Erfurt. (1802) 20, et Sp. Pl. 5 (1810) 77; POIR., Encycl. Suppl. 3 (1813) 74; PRESL, Suppl. (1847) 112; MOORE, Ind. (1857) 113.

Ctesium MICHAUX, Fl. Bor. Amer. 2 (1803) 275.

Trichomanes (non LINN.) POIR., in Lamarck, Encycl. 8 (1808) 62, pro parte.

Lygodiotylon J. SMITH, in Hook. Gen. Filic. sub. tab. B. (1842) 111 b., in Hook., Lond. Journ. 2 (1843) 384, et Hist. Filic. (1875) 352.

Distrib. Tropical North America, West India, Africa, Tropical Australia, New-Zealand, Malaysia, Tropical and Subtropical Asia and Philippines.

84. **LYGODIUM FLEXUOSUM** SWARTZ, in Schrad. Journ. 2 (1801) 106, pro parte, et Syn. Fil. (1806) 153, pro parte; BEDD., Fern. South. Ind. (1863) 21, pl. 63; PRANTL, Schiz. (1881) 72; BEDD., Handb. Fern. Brit. Ind. (1892) 457; H. CHRIST, Farnkr. Erd. (1897) 355; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 366; ROSENB., Malay. Fern. (1908) 114; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 685; MAK. et NEM., Fl. Jap. 2 ed. (1931) 114; KANEH., Fl. Micron. (1933) 396.

Ophioglossum caule flexuosa angulato etc. Linnaeus, Fl. Zeyl. (1747) 375.

Adiantum volubile majus RUMPHIUS, Fl. Amb. 6 (1750) 75, t. 32.

Ophioglossum flexuosum LINN., Sp. Pl. (1753) 1063, et 2 ed. (1763) 1519, Syst. Veg. ed. 13 (1770) 684; MURRAY, Syst. Veg. (1784) 926; VITAMIN, Summa Pl. 6 (1792) 85.

Ugena semihastata CAVAN., Icon. & Descript. Pl. 6 (1801) 74, t. 594, f. 1.

Ramondia flexuosa MIRR., in Bull. Soc. Philom. 9 (1801) 179.

Hydroglossum flexuosum WILLD., Schrift. Akad. Wiss. Erfurt. (1802) 20, et Sp. Pl. 5 (1810) 83.

Lygodium pinnatifidum SWARTZ, in Schrad., Journ. 2 (1803) 303, pro parte; HOOK. et BAKER, Syn. Fil. (1868) 438, pro parte.

Lygodium semibipinnatum R. BROWN, Prodr. Fl. Nov. Holland. (1810) 162.

Hydroglossum auriculaum WILLD., Sp. Pl. 5 (1810) 84.

Lygodium elegans DESV., in Berl. Mag. 5 (1811) 308.

Hydroglossum semipinnatum POIR., Encycl. Suppl. 3 (1813) 78.

Hydroglossum elegans STEUD., Nomencl. 2 (1824) 205.

Lygodium semihastatum DESV., in Ann. Soc. Linn. Paris 6 (1827) 203; HOOK. et BAK., Syn. Fil. (1868) 437.

Lygodium pilosum DESV., l. c. 205.

Lygodium serrulatum BLUME, Enum. Pl. Jav. (1830) 254.

Lygodium Meyenianum PRESL, Suppl. Tent. Pteridogr. (1845) 106.

Lygodium Rottlerianum PRESL, l. c. 108.

Lygodium japonicum (non SWARTZ) MATSUM. et HAYATA, Enum. Pl. Formos. (1906) 561, pro parte.

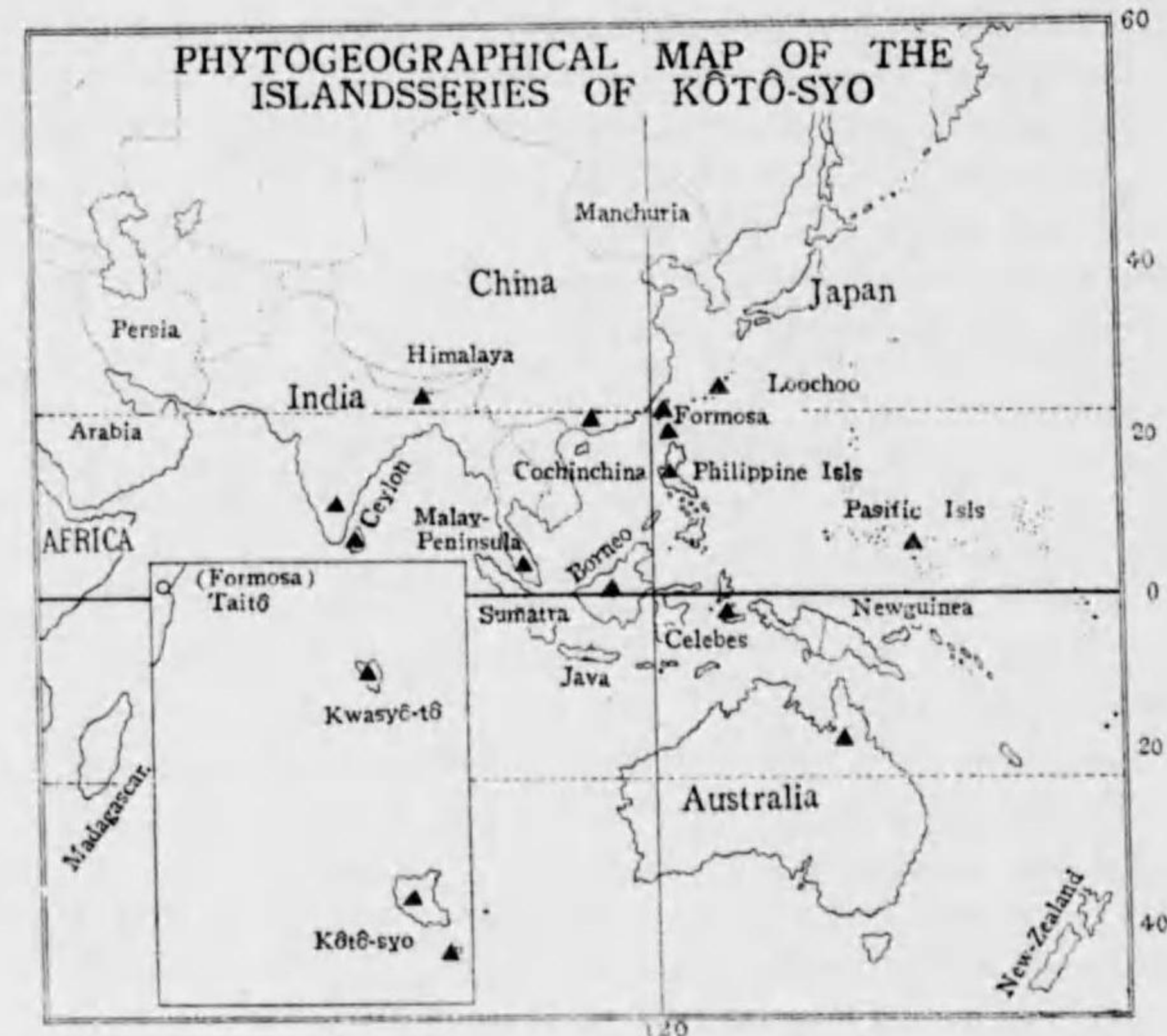
Nom. Jap. Hiroha-kanikusa.

Hab. Kōtō-syo, June 24, 1926, S. Sasaki!, ibid. Nov. 3, 1934, S. Sasaki; Kwasyō-tō, May 3, 1927, et ibid. Jan. 2, 1929, July 5, 1935, S. Sasaki; Syō-kōtōsyo, July 1911, et June 1926, S. Sasaki.

Distrib. Loochoo, India, Philippine, Australia.

Note: This species grows for climbing to any other plants and in the open grasslands.

Fig. 84



85. *LYGODIUM MICROSTACHYUM* DESV., in Berl. Mag. 5 (1811) 308, et in Ann. Soc. Linn. Paris, 6 (1827) 205; NAKAI, in Bot. Mag. Tokyo, 39 (1925) 182, et l. c. 41 (1927) 686; MAK. et NEM., Fl. Jap. 2 ed. (1931) 114; OGATA, Icon. Fil. Jap. 7 (1936) 323.

Lygodium pubescens KAULF., Enum. Fil. (1824) 47.

Lygodium dissectum DESV., in Mag. Nat. Berl. 5 (1811) 308, pro parte, et in Ann. Soc. Linn. Paris, 6 (1827) 205, pro parte.

Lygodium chaerophylloides DESV., in Ann. Soc. Linn. Paris. 6 (1827) 205.

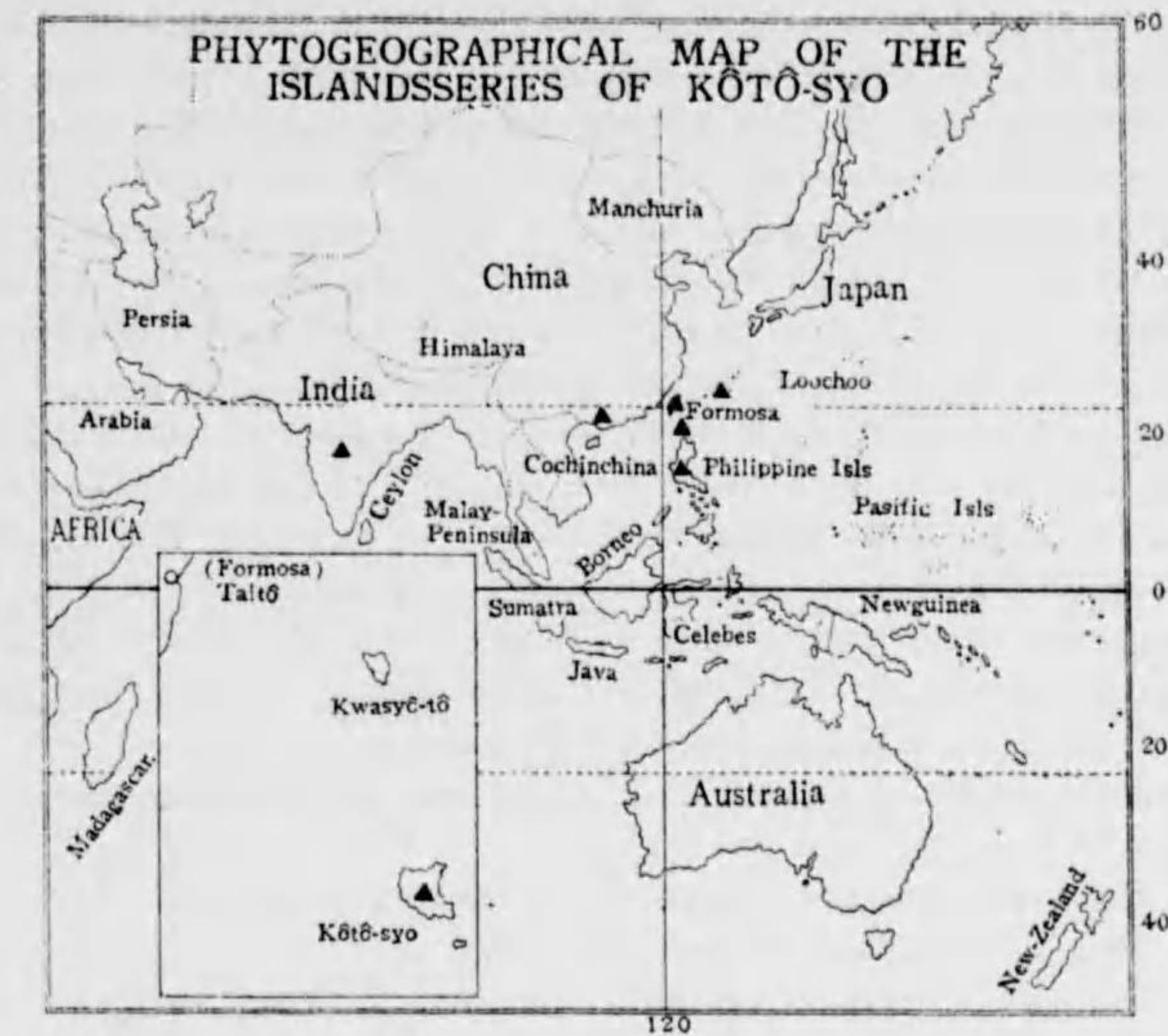
Nom. Jap. Taiwan-kanikusa.

Hab. Kōtō-syo, Nov. 3, 1934, S. Sasaki!

Distrib. Formosa, Philippine, India, Hongkong.

Note: This species grows grasslands and climbs to the other plants.

Fig. 85



Osmundaceae

OSMUNDACEAE R. BROWN, Prodr. Fl. Nov. Holland. (1810) 161, excl. Schizaea & Lygodium; KAULF., Enum. (1824) 42, excl. Mohria, Schizaea & Aneimia; DESV., in Ann. Soc. Linn. Paris. 6 (1827) 193, pro parte; BRONGN., Hist. Veg. Fossil. 1 (1828) 144; BLUME, Enum. Pl. Jav. (1830) 252, excl. Lygodium & Schizaea; BARTLING, Ord. Nat. Pl. (1830) 18, pro parte; ENDLICH., Gen. Pl. 1 (1836) 65; LINK., Fil. Hort. Bot. Berol. cult. (1841) 19; HOOK., Gen. Fil. sub. Tab. (1842) 46; METTEN., Fil. Hort. Bot. Lips. (1856) 15 & 16; MILDE, Monogr. (1868) 55; DIELS, in Engl. u. Pantl. Nat. Pfl.-fam. 1. 4 (1900) 372; ROSENB., Malay. Fern. (1908) 755; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 14; NAKAI, Bot. Mag. Tokyo, 41 (1927) 673.

Filices spurie Gyratae s. *Rimatae* SWARTZ, Syn. Filic. (1806) 6, pro parte.

Filices ** *Capsulae annulo elastico destitutae* LAMARCK & DE CANDOLLE, Syn. Syn. Fl. Gall. (1806) 115.

Filices subgyratae a. WAHLENB., in Nova Acta Reg. Soc. Sci. Upsal. 7 (1815) 182.

Filices Trib. 1. *Osmundaceae* DUMORT., Anatl. Fam. Pl. (1829) 67, pro parte.

Filices Sect. 3. *Osmundaceae* LINDLEY, Introd. (1830) 315, pro parte.

Osmundaceae § 1. *Osmundae* LINDLEY, Nat. Syst. (1836) 402, excl. Angiopteris.

Filices Subodoro 1. *Polypodiaceae* Trib. 11. *Osmundaceae* MEISNER, Pl. Vasc. Gen. 1 (1836) 435, et 2 (1842) 336.

Filicines Trib. *Osmundae* GRENIER & GODRON, Fl. Franc. 3 (1856) 625.

Fourgeres Trib. 2. *Osmundineae* COSSON & GERMAIN, Fl. Env. Paris ed. 2 (1861) 871.

Filices subordo *Osmundaceae* MILDE, Filic. Europ. & Atl. (1867) 174; Hook. et Baker, Syn. Fil. (1868) 426.

Fourgeres sous-ordre 3. *Osmundineae* ROUY., Fl. Franc. 14 (1913) 455.

OSMUNDA TOURNEFORT, Instit. (1700) 547, t. 324, pro parte; LINN., Gen. Pl. ed. 1 (1737) 322, n. 788, Sp. Pl. ed. 1 (1753) 1063, pro parte, et Gen. Pl. ed. 5 (1754) 484, no. 1036, pro parte; ADANSON, Fam. Pl. 2 (1763) 21, pro parte; MURRAY, Syst. Veg. (1784) 927, pro parte; JUSSIEU, Gen. Pl. (1789) 15; NECKER, Elem. Bot. 3 (1790) 312; VITMAN, Summa Pl. 6 (1792) 86, pro parte; HOFFMANN, Fl. Germ. 2 (1796) 14, pro parte; DESFONTAINES, Fl. Atl. 2 (1798) 399; VENTENAT, Tab. Reg. Geg. 3 (1799) 62; SPRENGEL, in Schrader, Journ. 4 (1799) 268, pro parte; SWARTZ, in Schrader, Journ. 2 (1801) 103; BERNHARDI, in Schrader, Journ. 2 (1801) 303; MICHAUX, Fl. Bor. Americ. 2 (1803) 273; LAMARCK & DE CANDOLLE, Fl. Franc. 2 (1805) 568, Syn. Fl. Gall. (1806) 115; SWARTZ, Syn. Filic. (1806) p. XIII. 7 & 160; SCHKUHR, Krypt. Gewäch. 1 (1809) 146; WILLDENOW, Sp. Pl. (1810) 96; R. BROWN, Prodr. Fl. Nov. Holland (1810) 163; KUNZE, in Flora (1821) 500; KAULFUSS, Enum. (1824) 43; BLUME, Enum. Pl. Jav. (1830) 252; ENDLICHER, Gen. Pl. pt. 1 (1836) 65; MEISSNER, l. c.; HOOKER, Gen. Filic. (1842) sub Tab. 46; PRESL, in Abh. Böhm. Gesells. Wiss. 4 (1847) 321 5. pt. 5 (1848) 324; MILDE, Filic. Europ. & Atl. (1867) 175; MONOGR, Gen. Osmund. (1868) 57; HOOKER et BAKER, Syn. Filic. (1868) 426; DIELS, in Engler u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 378; ROSENBURGH, l. c.; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 15; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 673.

Struthiopteris (non WEIS, nec WILLDENOW) BERNHARDI, in Schrader, Journ. 2 (1801) 126.

Aphyllocalpa CAVANILLES, Anal. Cienc. 5 (1802) 164.

Plenasium PRESL, Tent. Pteridogr. (1836) 109, t. 3, fig. 13.

Osmundastrum PRESL, in Abh. Böhm. Gesells. Wiss. 5. 5 (1848) 526.

Distrib. Pantropical and extra-tropical in the northern Hemisphere.

86. **OSMUNDA BANKSIFOLIA** KUHN, Ann. Lugd. Bot. 4 (1869) 299; LUERSS., in Engl. Bot. Jahrb. 4 (1883) 365; C. CHRIST., Ind. Fil. (1906) 473; COPEL., Philip. Journ. Sci. Bot. 4 (1909) 16.

Nephrodium banksiaefolium PR., Rel. Haenk. 1 (1825) 34.

Asplenium aureum BL., Enum. Pl. Jav. 2 (1828) 185.

Plenasium banksiaefolium PR., Tent. (1836) 110.

Plenasium arureum PR., Tent. (1836) 249, t. 3, f. 13.

Osmunda Presliana J. SM., in Journ. Bot. 3 (1841) 420; MILDE, Fil. Europ. and Atlant. (1867) 185; FR. et SAV., Enum. Pl. Jap. 2 (1876) 250; DIELS, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 379.

Osmunda javanica (non BL.) HOOK. et BAK., Syn. Fil. (1868) 426; H. CHRIST., in Bull. Herb. Boiss. 4 (1896) 675, et in Warb. Monunia 1 (1900) 91; YABE, in Bot. Mag. Tokyo, 16 (1902) 52; MATSUM., Ind. Pl. Jap. 1 (1904) 331; MATSUM. et HAY., Enum. Pl. Formos. (1906) 560; ROSENBERG., Malay. Fern. (1908) 756.

Osmunda banksiaefolia var. *bromeliaefolia* KUNZE, in Ann. Mus. Bot. Lugd. Bot. 4 (1869) 299; MAKINO et NEMOTO, Fl. Jap. (1925) 1565.

Osmunda bromeliaefolia COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 147, pro parte; NAKAI, in Bot. Mag. Tokyo, 41 (1927) 675; OGATA, Icon. Filic. Jap. 5 (1933) 237; MASAM., Flor. & Geob. Stud. Yak. (1934) 109.

Nom. Jap. Siroyama-zenmai.

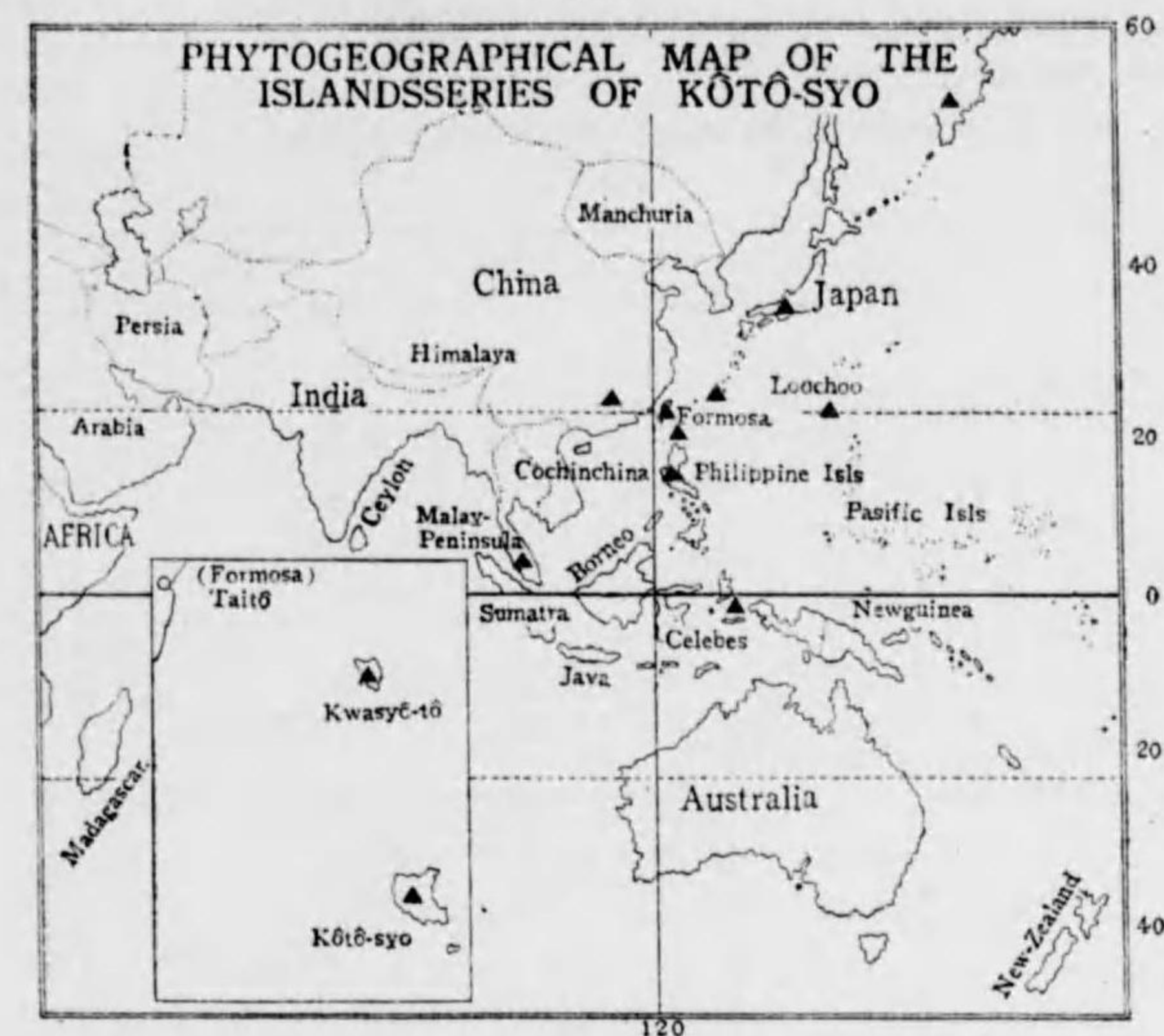
Hab. Kōtō-syo, June 15, 1926, S. Sasaki! ibid. Oct. 28, 1934, S. Sasaki!; Kwasyō-tō, May

3, 1927, S. Sasaki! ibid. Jan. 1 (1929) S. Sasaki!

Distrib. Kamtschatka, Japan, Southern China, Bonin, Loochoo, Formosa, Philippine & Moluccas.

Note: This species grows on the lower cliffs and the edges of the neuter forests.

Fig. 86



Marsileaceae

MARSILEACEAE apud HOOK., Handb. New-Zeal. Fl. (1867) 392, pro parte; BAKER, Fl. Maurit. (1877) 525; BENTH., Fl. Austral. 7 (1878) 682; SMITH, Fern. (1896) 280; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 403; BAIL., Queensl. Fl. 6 (1902) 1928; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 11; MERR., Fl. Manila (1912) 61; ROSENBERG., Malay. Fern. All. (1915) 5.

MARSILEA LINN., Sp. Pl. (1753) 1099; WILLD., Sp. Pl. 5 (1810) 538; BAKER, Fl. Maurit. (1877) 525; BENTH., Fl. Austral. 7 (1878) 683; SMITH, Fern. (1896) 280; SADEBECK, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 417; BAIL., Queensl. Fl. 6 (1902) 1929; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 12; MERR., Fl. Manila (1912) 61; ROSENBERG., Malay. Fern. All. (1915) 5.

Lemma JUSSIEU, Ht. Trian. 1759; ADANSON, Fam. d. pl. 2 (1763) 21; AUBLET., Hist. Guian. 2 (1775) 960.

Zalusianskya NECKER, Acta Theod. Palat. Phys. 3 (1775) 303.

Distrib. Tropic of the World.

87. **MARSILEA CRENATA** PRESL, Pter. Reliq. Haenk. 1 (1825) 84, t. 12, f. 13; COPELAND, in Philip. Journ. Sci. Bot. 4 (1909) 12; MERR., Fl. Manila, (1912) 61; ROSENBERG.,

Malay. Fern. All. (1915) 7.

Marsilea crenulata DESV., Prodr. Foug. (1827) 179; BAKER, Fl. Maurit. (1877) 525; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 418.

Marsilea Mearnsii H. CHRIST, in Philip. Journ. Sci. Bot. 3 (1908) 276.

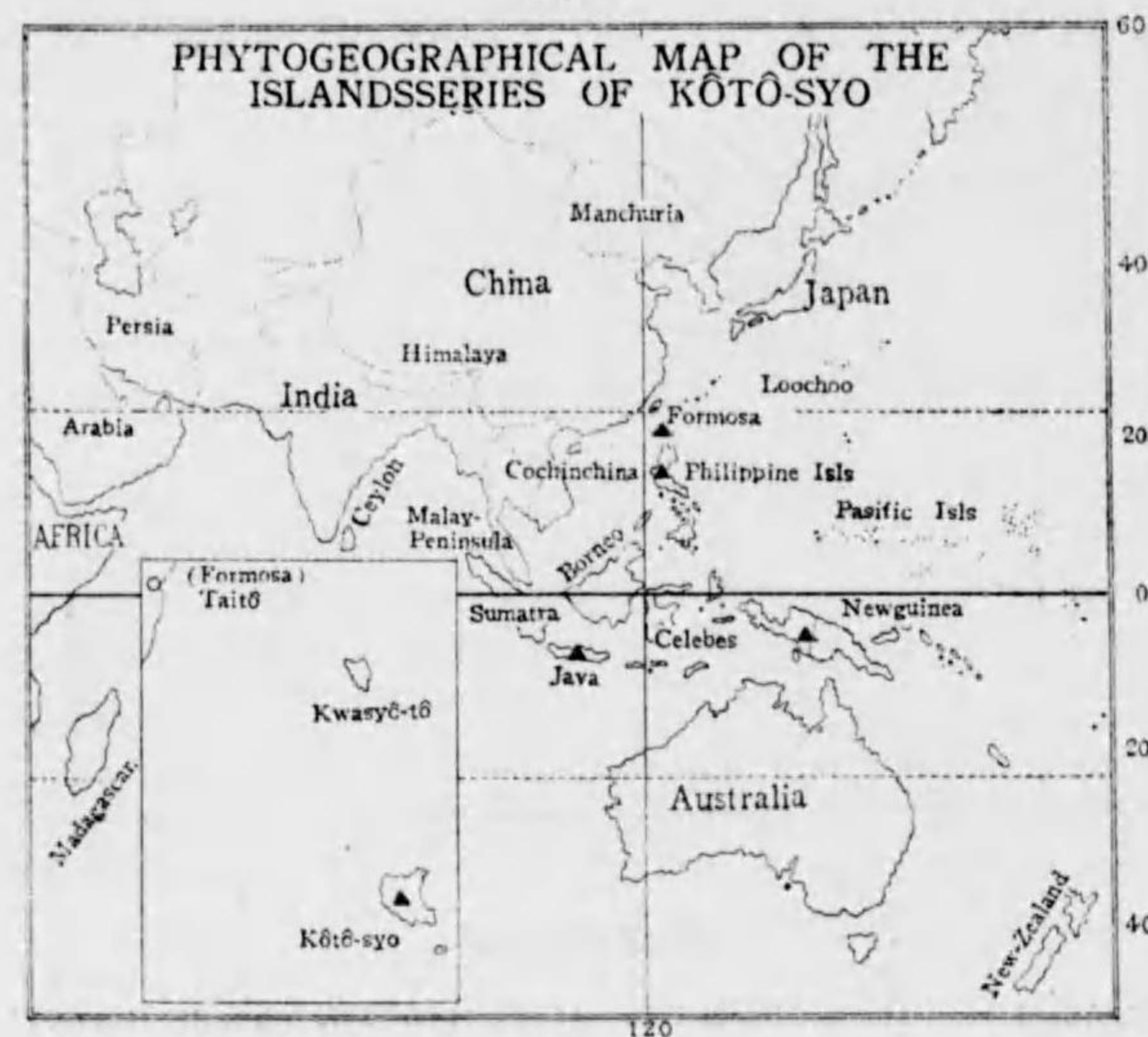
Nom. Jap. Kōtō-denzisō. (n. n.)

Hab. Kōtō-syo, June 3, 1926, S. Sasaki!

Distrib. Philippine and New-Guinea.

Note: This species grows on the water fields or open wet places.

Fig. 87



Salviniaceae

SALVINIACEAE apud SADEBECK, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 383; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 13; ROSENB., Malay. Fern. All. (1915) 10.

AZOLLA LAMARCK, Encycl. Méth. 1 (1783) 343; WILLD., Sp. Pl. 5 (1810) 541; BENTH., Fl. Austral. 7 (1878) 679; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1899) 400; BAIL., Queensl. Fl. 6 (1902) 1927; COPEL., in Philip. Journ. Sci. Bot. 4 (1909) 14; ROSENB., Malay. Fern. All. (1915) 11.

Carpanthus RAFINESQUE, New-York Med. Repository 2. 5 (1808) 356.

Rhizosperma MEYEN, Reiscum die Erde 1 (1834) 337, Nova Acta 18. 1 (1836) 523.

Distrib. Tropical, subtropical and in temperate region.

SS. **AZOLLA AFRICANA** DESV., Prodr. Foug. (1827) 178; COPEL., Fern. Malay-Asiat. Reg. in Philip. Journ. Sci. Bot. 4 (1909) 14, pl. 10, b, pro parte.

Azolla pinnata (non R. BR.) var. *africana* BAKER, Handb. Fern. All. (1887) 138; RIDL., Fl. Singapore (1900) 196; MATS. et HAY., Enum. Pl. Formos. (1906) 560; ROSENB., Malay. Fern. All. (1915) 11.

Azolla japonica FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 195, pro parte; NAKAI, in Bot. Mag. Tokyo, 39 (1925) 184, pro parte.

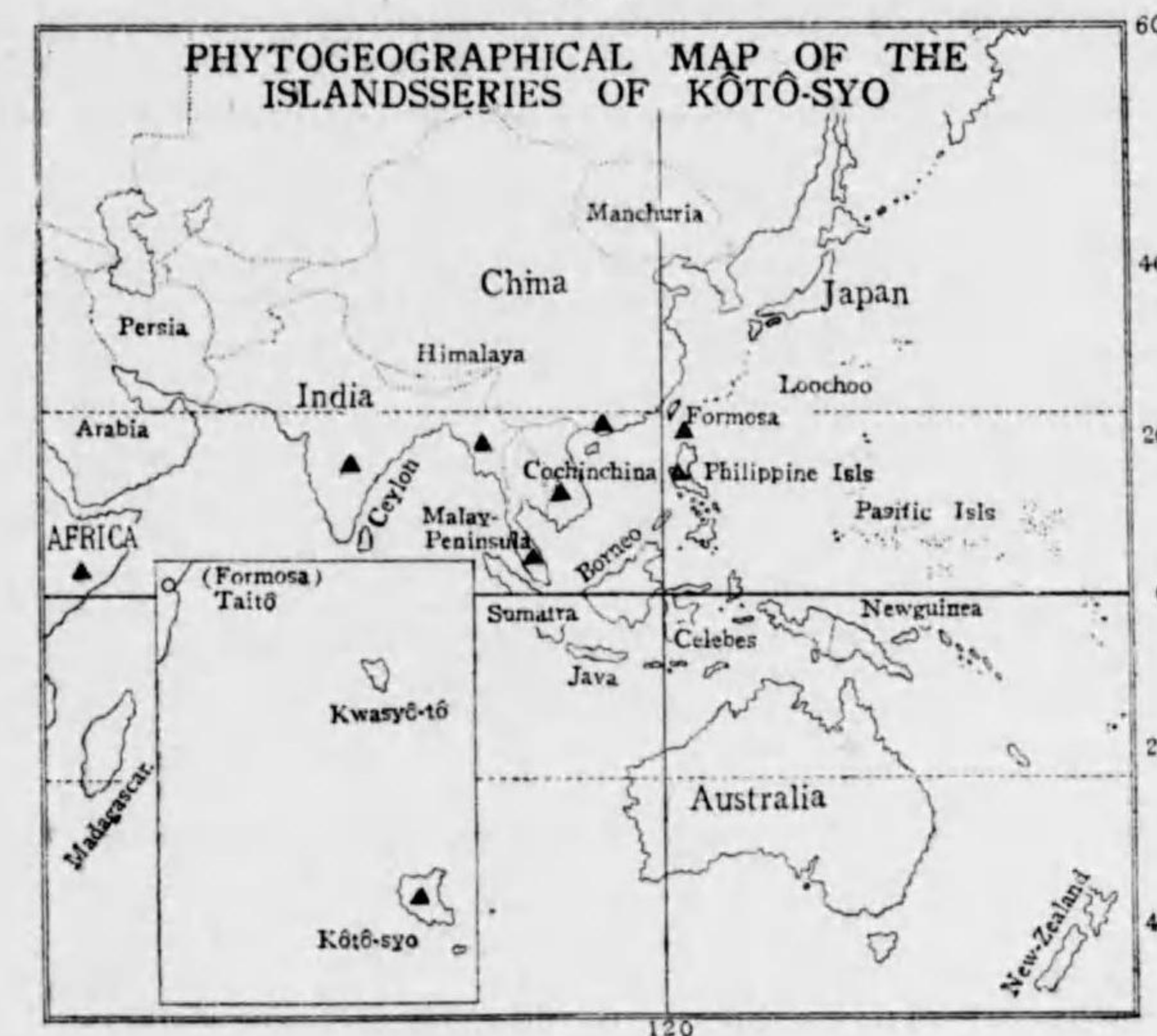
Nom. Jap. Kōtō-akaukigusa. (n. n.)

Hab. Kōtō-syo, Oct. 28, 1934, S. Sasaki!

Distrib. Afrtrib. Africa to the Philippine.

Note: This species always floating in the water fields or on the slow current pure water.

Fig. 88



Equisetaceae

EQUISETACEAE apud BAKER, Fl. Maurit. (1877) 518; SADEBECK, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 520; HEGI, Illustr. Fl. Mittel-Europa. 1 (1905) 51; ROSENB., Malay. Fern. All. (1915) 16.

EQUISETUM LINN., Sp. Pl. 2 (1753) 161; WILLD., Sp. Pl. 5 (1810) 1; BAKER, Fl. Maurit. (1877) 518; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 544; HEGI, Illustr. Fl. Mittel-Europa. (1906) 53; ROSENB., Malay. Fern. All. (1915) 16.

Distrib. Nearly Cosmopolitan.

89. *EQUISETUM RAMOSISSIMUM* DESF., Fl. Atlant. 2 (1800) 398; MILDE, Monogr. Equiset. (1865) 428, t. 24; MIQ., Prol. Fl. Jap. (1867) 389; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 202; BAKER, Fl. Maurit. (1877) 518, et Handb. Fern. All. (1887) 4; DIELS, Fl. Central-China (1898) 209; SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 546; H. CHITSI, Warburg, in Monsun. 1 (1900) 95; KOMAR., Fl. Mansh. 1 (1901) 156; HEGI, Illustr. Fl. Mittel-Europa, 1 (1906) 59; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 557; COPEL., in Philip. Journ. Sci. Bot. 2 (1907) 150; MERR. et MERRITT, in l. c. 5 (1910) 324; NAKAI, Fl. Koreana. 2 (1911) 422; ROSENB., Malay. Fern. All. (1915) 17; SASAKI, List Pl. Formos. (1928) 44, et Cat. Govt. Herb. (1930) 47.

Equisetum elongatum WILLD., Sp. Pl. 5 (1810) 8; CLARKE, Rev. Fern. North. India. (1880) 595; MAKINO et NEMOTO, Fl. Jap. (1925) 1558.

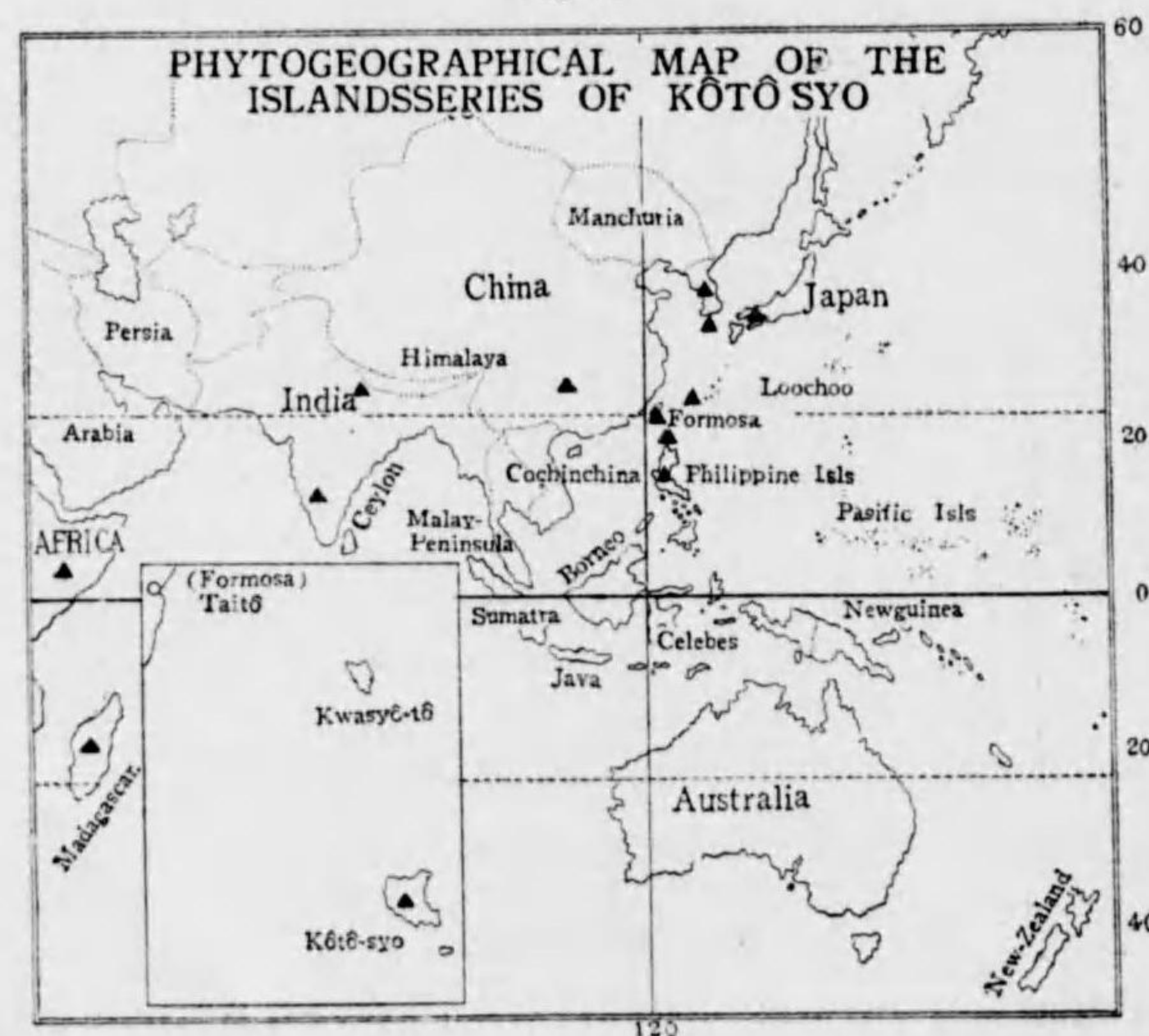
Nom. Jap. Inu-tokusa.

Hab. Kōtō-syo, June 10, 1926, S. Sasaki.

Distrib. Europe and Asia, North and South Africa, North Atlantic Islands, North America.

Note: This species grows shade and wet places near the river or the roadside of the hole island.

Fig. 89



Lycopodiaceae

LYCOPODIACEAE LAMARCK et DC., Syn. Fil. Gall. (1806) 116; LINDLEY, Introdust. Natur. Syst. Bot. ed. 2 (1835) 405; ENDLICHER, Gen. Pl. (1836-43) 69; SPRING, Monogr. Fam. Lycopod. 1 (1842) 2, pro parte; BENTH., Fl. Hongk. (1861) 436, pro parte; HOOK., Handb. New-Zeal. Fl. (1867) 387, pro parte; BAKER, Fl. Maurit. (1877) 518; BENTH., Fl. Austral. 7 (1878) 670, pro

parte; SMITH, Fern. (1896) 274, pro parte; PRITZEL, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 563; BAIL., Queensl. Fl. 6 (1902) 1922, pro parte; HEGI, Illustr. Fl. Mittel-Europa, 1 (1906) 63; MERR. Fl. Manila (1912) 61; ROSENB., Malay. Fern. All. (1915) 27.

Lycopodineae SWARTZ, Syn. Fil. (1806) 87; R. BROWN, Prodr. (1810) 164; MART., Conspect. Regn. Veg. (1835) 5.

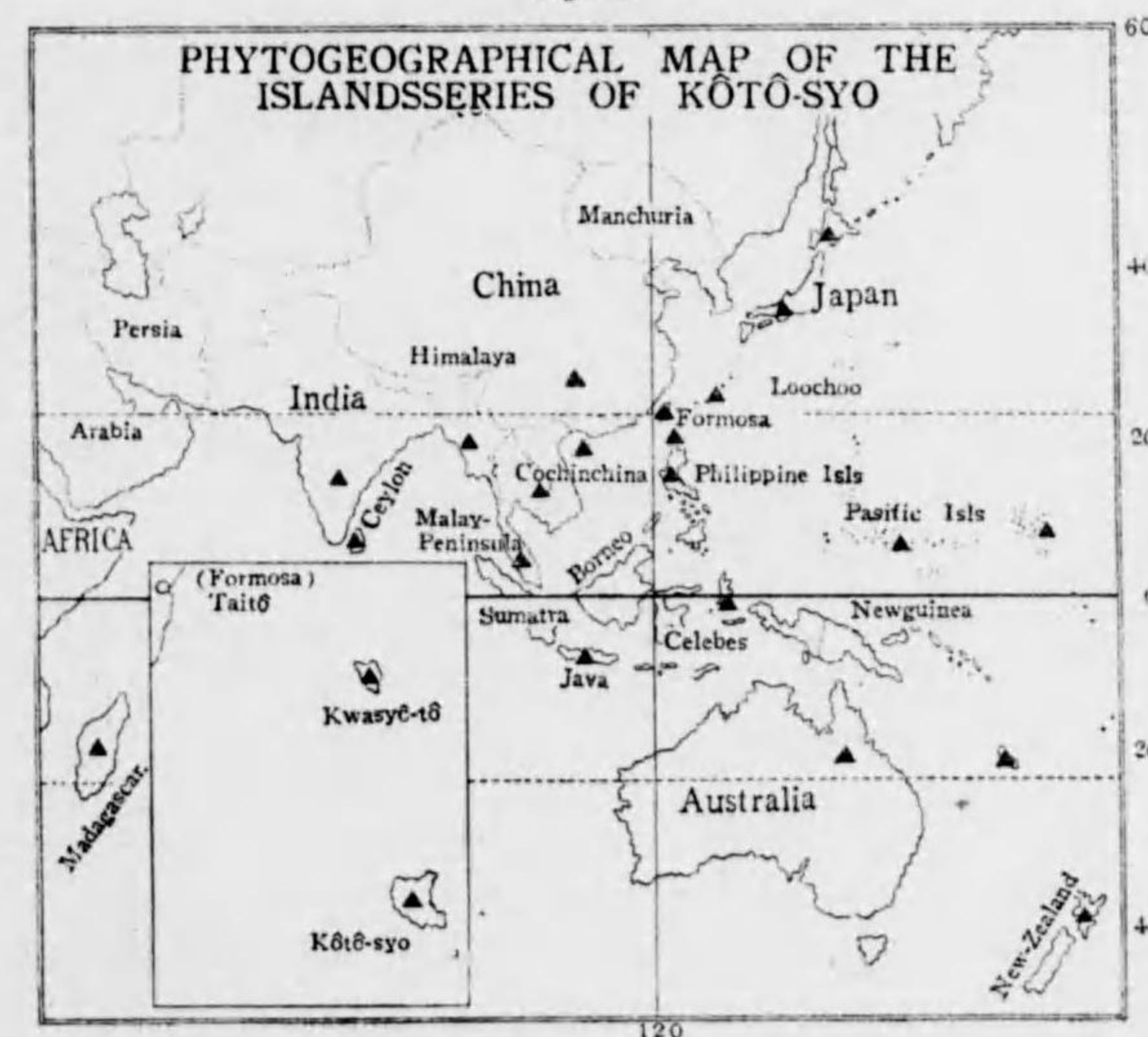
LYCOPODIUM LINN., Sp. Pl. (1753) 1100; WILLD., Sp. Pl. 5 (1810) 10; SPRING, Monogr. Fam. Lycopod. (1842) 17; BENTH., Fl. Hongk. (1861) 436; HOOK., Handb. New-Zeal. Fl. (1867) 386; BAKER, Fl. Maurit. (1877) 519; BENTH., Fl. Austral. 7 (1878) 673; CLARKE, Rev. Fern. North. Ind. (1880) 589; SMITH, Fern. (1896) 275; PRITZEL, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 592; BAIL., Queensl. Fl. 6 (1902) 1923; HEGI, Illustr. Fl. Mittel-Europa. 1 (1906) 64; MERR., Fl. Manila (1912) 62; ROSENB., Malay. Fern. All. (1915) 27.

Distrib. Widely distributed over every parts of the World.

90. *LYCOPodium CERNUUM* LINN., Sp. Pl. (1753) 1103, et 2 ed.

(1763) 1566; SWARTZ, Syn. Fil. (1806) 178; WILLD., Sp. Pl. 5 (1810) 30; KAULE., Enum. Fil. (1824) 15; PRESL, Reliq. Haenk. 1 (1825) 80; HOOK. et GREV., Ic. Fil. (1827) t. 34; BORY, in Duperr. Voy. Bot. Crypt. (1829) 246; SCHLECHT., Adumbr. Fil. (1832) 5; SPRING, in Botan. Zeit. 1 (1838) 165; SPRING, in Maurit. Fl. Bras. 1 (1840) 114, et Monogr. Lycopod. 1 (1842) 79, et 2 (1849) 37; BENTH., Fl. Hongk. (1861) 436; MILDE, Fil. Europ. & Atl. (1867) 254; MIQ., in Ann. Mus. Bot. Lugd. Bat. 3 (1867) 184; MAXIM., in Mém. Bil. 7 (1870) 341; FRANCH. et SAVAT., Enum. Pl. Jap.

Fig. 90



2 (1876) 197; LUERSS., in Engl. Bot. Jahrb. 4 (1883) 366; BAKER, Handb. Fern. All. (1887) 23; HENRY, List Pl. Formos. (1896) 117; PRITZEL, in Diels, Fl. Centr. Chin. (1898) 210, et Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 602; H. CHRIST, Warb. Monunia, 1 (1900) 97; MATSUM., Ind. Pl. Jap. 1 (1904) 357; MATSUM. et HAY., Enum. Pl. Formos. (1906) 555; MERR., in Philip. Journ. Sci. 1. Suppl. 1 (1906) 23; COPEL., l. c. Bot. 2 (1907) 149; MERR., l. c. 3 (1908) 393; TAKEDA, in Bot. Mag. Tokyo, 23 (1909) 211; MERR., Pl. Guam. in Philip. Journ. Sci. Bot. 9 (1914) 47; ROSENBERG, Malay. Fern. & Fern. All. (1915) 47; MIYAKE. et KUDO, Fl. Hokkaido & Sagh. 1 (1930) 54; MAK. et NEM., Fl. Jap. 2. ed. (1931) 120; KANEH., Fl. Micron. (1933) 397; MASAM., Fl. Geob. Stud. Yak. (1934) 113;

Lycopodium marianum WILLD., Sp. Pl. 5 (1810) 31; POIR., Encycl. Bot. Suppl. 3 (1813) 546.

Nom. Jap. Midu-sugi.

Hab. Kôto-syo, June 10, 1926, S. Sasaki!; Kwasyô-tô, May 5, 1927, S. Sasaki!; ibid. Apr. 16, 1934 et July 5, 1935, S. Sasaki!

Distrib. Tropical regions of the both Hemispheres or to north of Asia.

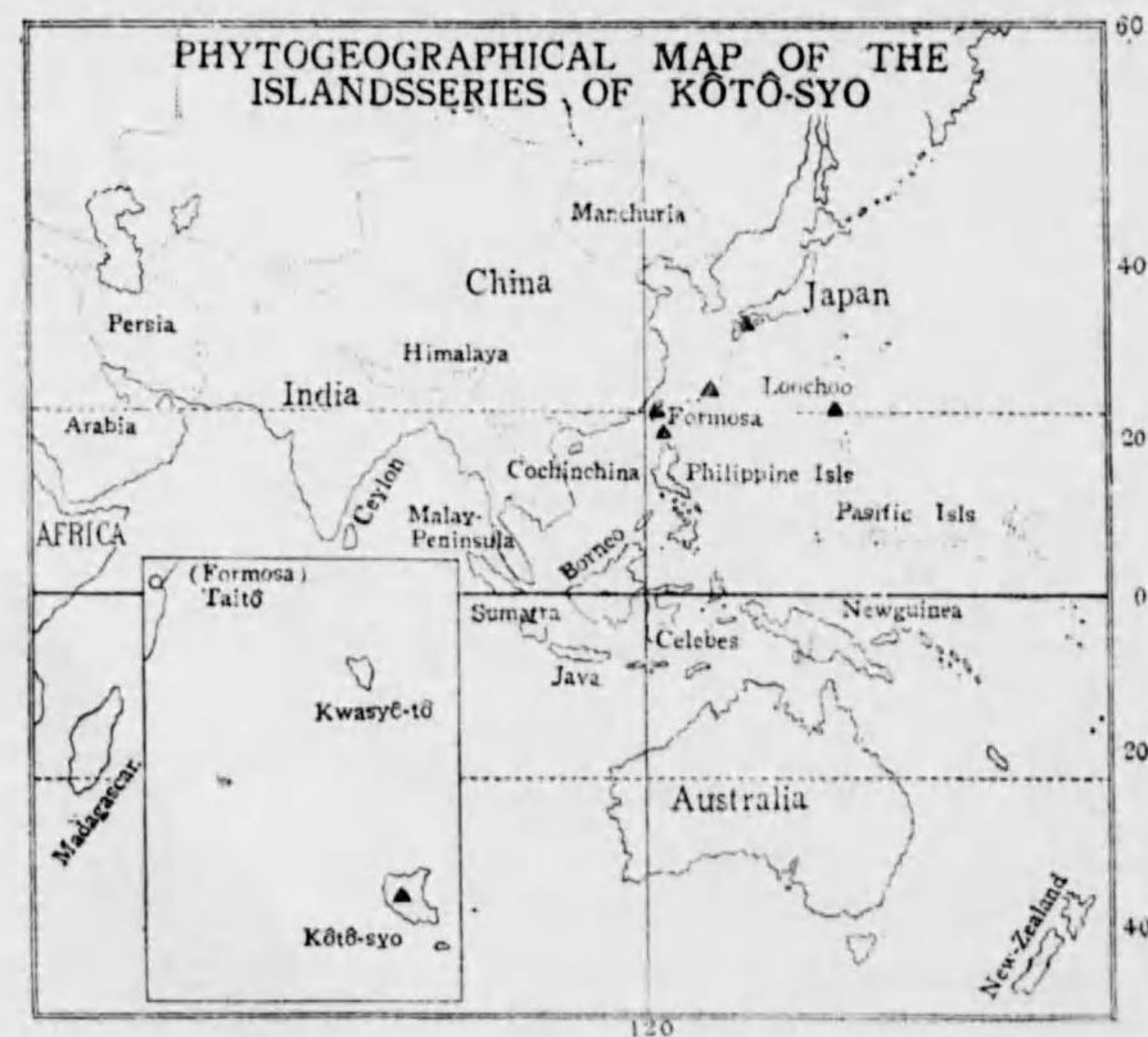
Note: This species grows at open grasslands and the river side or the wet places.

91. *LYCOPodium SUBDISTICHUM* MAKINO, in Bot. Mag. Tokyo, 12 (1898) 37; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 556; MAK. et NEM., Fl. Jap. (1925) 1558, et 2 ed. (1931) 123; SASAKI, Cat. Govt. Herb. (1930) 49.

Lycopodium aloifolium (non WALL.) FR. et SAV., Enum. Pl. Jap. 2 (1876) 169.

Nom. Jap. Nankaku-ran.

Fig. 91



Hab. Kôto-syo, Dec. 1906, G. Nakahara!

Distrib. Japan, Bonin, Loochoo, Formosa, etc.

Note: This species grows epiphyte tufted hanging on the barks of trees.

Selaginellaceae

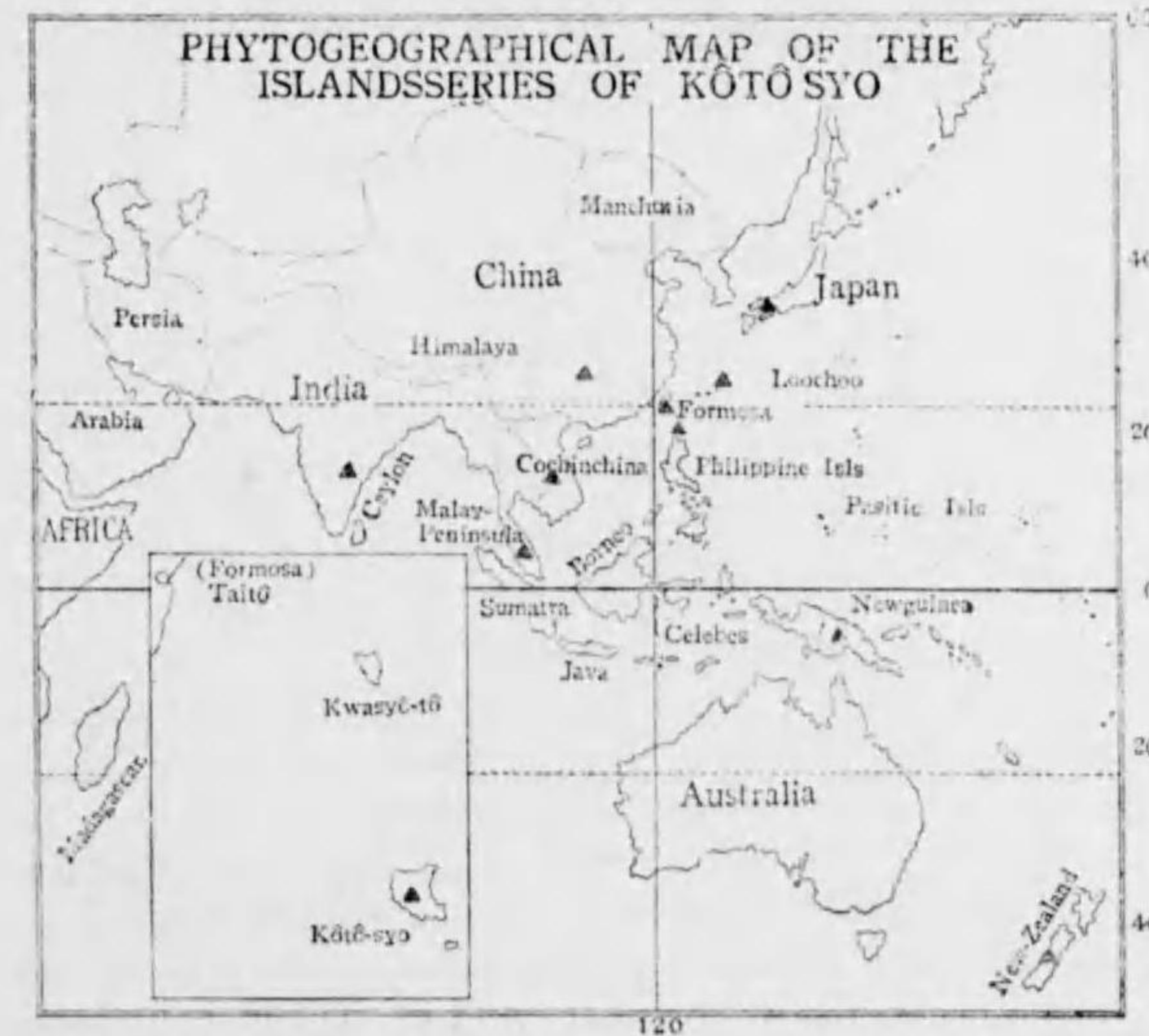
SELAGINELLACEAE METT., Fel. Hort. Lips. (1856) 16, excl. Isoetes; BAKER, Fl. Murit. (1877) 522; HIERON. et SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 621; HEGI, Illustr. Fl. Mittel-Europa, 1 (1906) 69; ROSENBERG, Malay. Fern. All. (1915) 57.

SELAGINELLA SPRING. Monogr. Fam. Lycopod. 2 (1848) 52; BAKER, Fl. Maurit. (1877) 522; BAKER, Handb. Fern. All. (1887) 31; BENTL., Fl. Austral. 7 (1878) 677; SMITH, H. Fern. (1896) 277; HIERON. et SADEB., in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 669; BAIL, Queensl. Fl. 6 (1902) 1925; HEGI, Illustr. Fl. Mittel-Europa, 1 (1906) 69; ROSENBERG, Malay. Fern. All. (1915) 58.

Distrib. Cosmopolitan.

92. *SELAGINELLA ATROVIRIDIS* SPRING, Monogr. 2 (1849) 124; HARRINGT., in Journ. Linn. Soc. 16 (1877) 34; BAKER, Fern. All. (1887) 77; HENRY, List Pl. Formos. (1896) 115; H. CHRIST, Warburg, Monunia, 1 (1900) 114; DIELS, in Engl. Bot. Jahrb. 29 (1900) 211; MATSUM., Ind. Pl. Jap. 1 (1904) 366; MATSUM. et HAY., Enum. Pl. Formos. (1906) 552; ROSENBERG, Malay. Fern. All. (1915) 79; MAK. et NEM., Fl. Jap. 2 ed. (1931) 124;

Fig. 92



MASAM., Fl. Geob. Stud. Yak. (1934) 119.

Lycopodium atroviride WALL.; Hook. et Grev., Ic. Fil. (1829) t. 39.

Selaginella Springeriana (non ROSENB.) SASAKI, List Pl. Formos. (1928) 47.

Nom. Jap. Midori-katahiba, Hiroha-no-kuramagoke.

Hab. Kōtō-syo, June 15, 1926, S. Sasaki!

Distrib. Japan, Loochoo, Formosa, China, India to New-Guinea.

Note: This species grows always shade and wet places in the neuter forests or grasslands.

93. *SELAGINELLA CAULESCENS* SPRING, Monogr. 2 (1849) 158;

FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 199; BAKER, Handb. Fern. All. (1887) 94; HENRY, List Pl. Formos. (1896) 117; DIELS, in Engl. Bot. Jahrb. 29 (1900) 211; MATSUM., Ind. Pl. Jap. 1 (1904) 361; MATSUM. et HAY., Enum. Pl. Formos. (1906) 552; DUNN. et TUTCH., Fl. Kwangt. & Hongk. (1912) 359; ROSENB., Malay. Fern. All. (1915) 137; MORI, Enum. Pl. Cor. (1922) 24; MERR., Enum. Hainan Pl. (1927) 21; MAK. et NEM., Fl. Jap. (1925) 1550; SASAKI, List Pl. Formos. (1928) 46, et Cat. Govt. Herb. (1930) 50; MAK. et NEM., Fl. Jap. 2 ed. (1931) 124; MASAM., Fl. Geob. Stud. Yak. (1934) 119.

Lycopodium caulescens WALL., List (1828) no. 137.

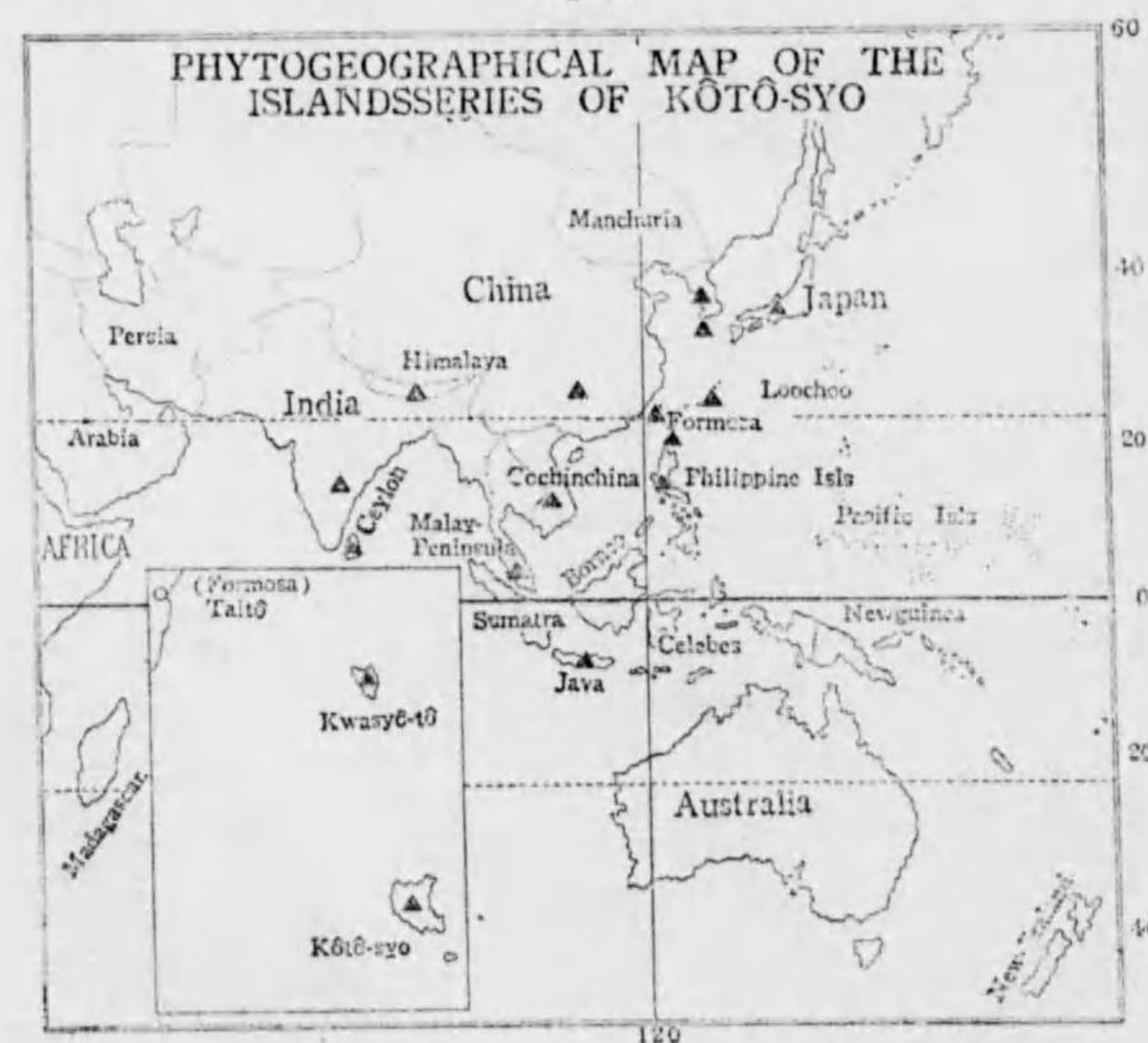
Nom. Jap. Kata-hiba.

Hab. Kōtō-syo, July 3, 1926, S. Sasaki; Kwasyō-tō, May 3, 1927, l. c. Jan. 1. 1935, S. Sasaki!

Distrib. Japan, Korea, Loochoo, Formosa, China, India!

Note: This species generally grows in the shade places of the forests or the grasslands.

Fig. 93



94. *SELAGINELLA CONVOLVENS* ROSENB., in Bull. Jard. Botan.

Buitenz. 11 (1913) 23, et Malay. Fern. All. (1915) 62.

Selaginella involvens (non HIERON) SPRING, Monogr. Fam. Lycopod. 2 (1849) 63; MIQ., Prol. Fl. Jap. (1867) 349; MILDE, Fil. Europ. (1867) 268; FRANCH. et SAVAT., Enum. Pl. Jap. 2. 1 (1876) 200; BAKER, Handb. Fern. All. (1887) 87; DIELS, Fl. Centr. Chin. (1898) 553; H. CHRIST, Warb., Mons. 1 (1901) 113; PALIB., Consp. Fl. Kor. 3 (1901) 39; KOMAR., Fl. Mansh. 1 (1901) 165; MATSUM. et HAYATA, Enum. Pl. Formos. (1906) 553; NAKAI, Fl. Kor. 2 (1911) 424; SAKAGUTI, Gen. Ind. Fl. Okinawa (1924) 105; MAK. et NEM., Fl. Jap. (1925) 1551; SASAKI, List Pl. Formos. (1928) 46; MAK. et NEM., Fl. Jap. 2 ed. (1931) 125.

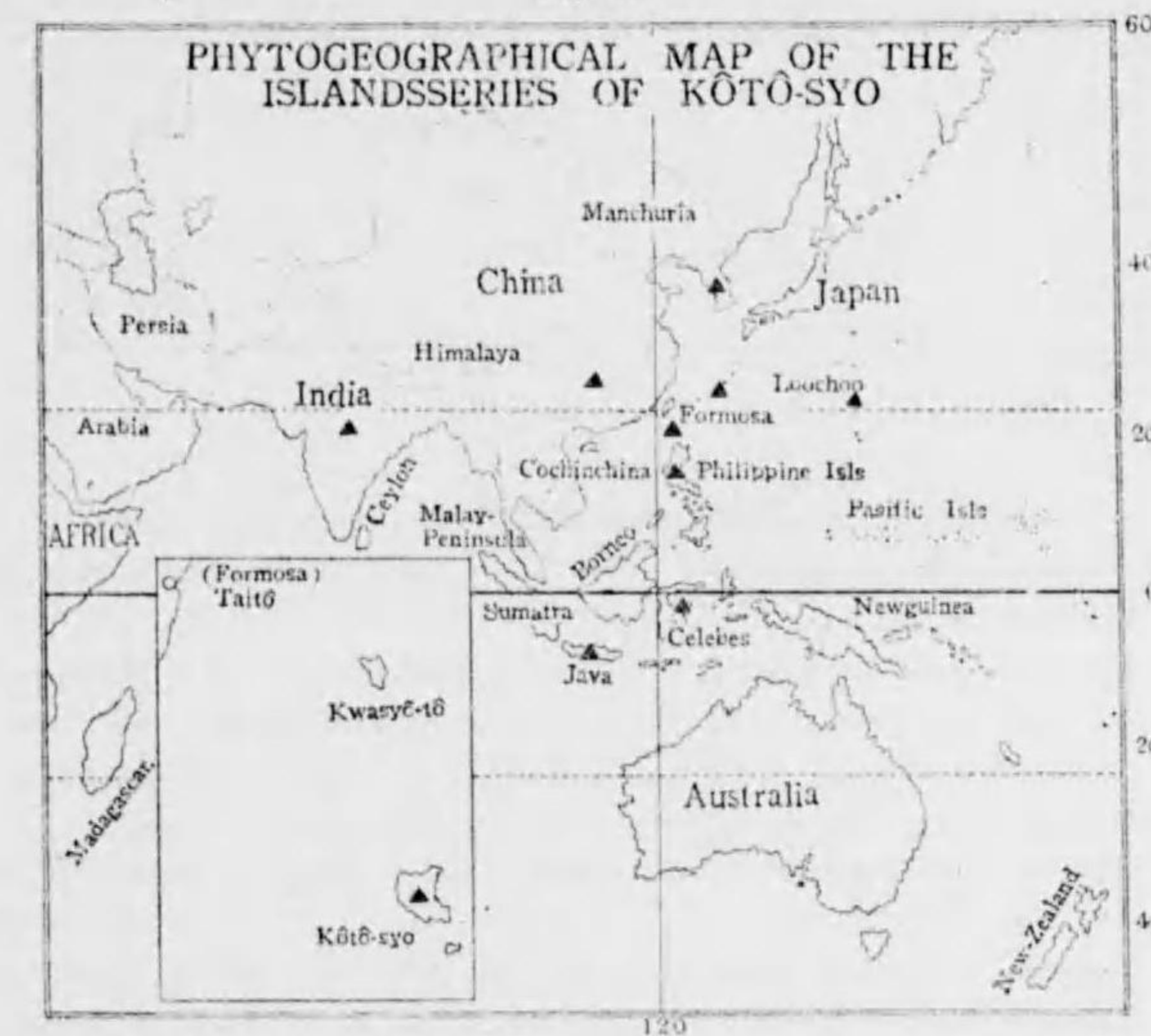
Nom. Jap. Iwa-hiba.

Hab. Zikarakun-kei, Kōtō-syo, Jan. 28, 1928, Y. Komuro.

Distrib. Japan, Korea, Bonin, Loochoo, China to India, Java, Celebes, Philippine, Formosa.

Note: This species growing only on the west mountain cliffs.

Fig. 94



95. *SELAGINELLA LEPTOPHYLLA* BAKER, in Journ. Bot. (1885) 157, et Fern. All. (1887) 109; H. CHRIST, Warburg, Monsunia, 1 (1901) 109; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 553; HAY., Icon. Pl. Formos. 7 (1918) 102; MAKINO et NEMOTO, Fl. Jap. (1925) 1551; SASAKI, List Pl. Formos. (1928) 46; MAK. et NEM., l. c. 2 ed. (1931) 125.

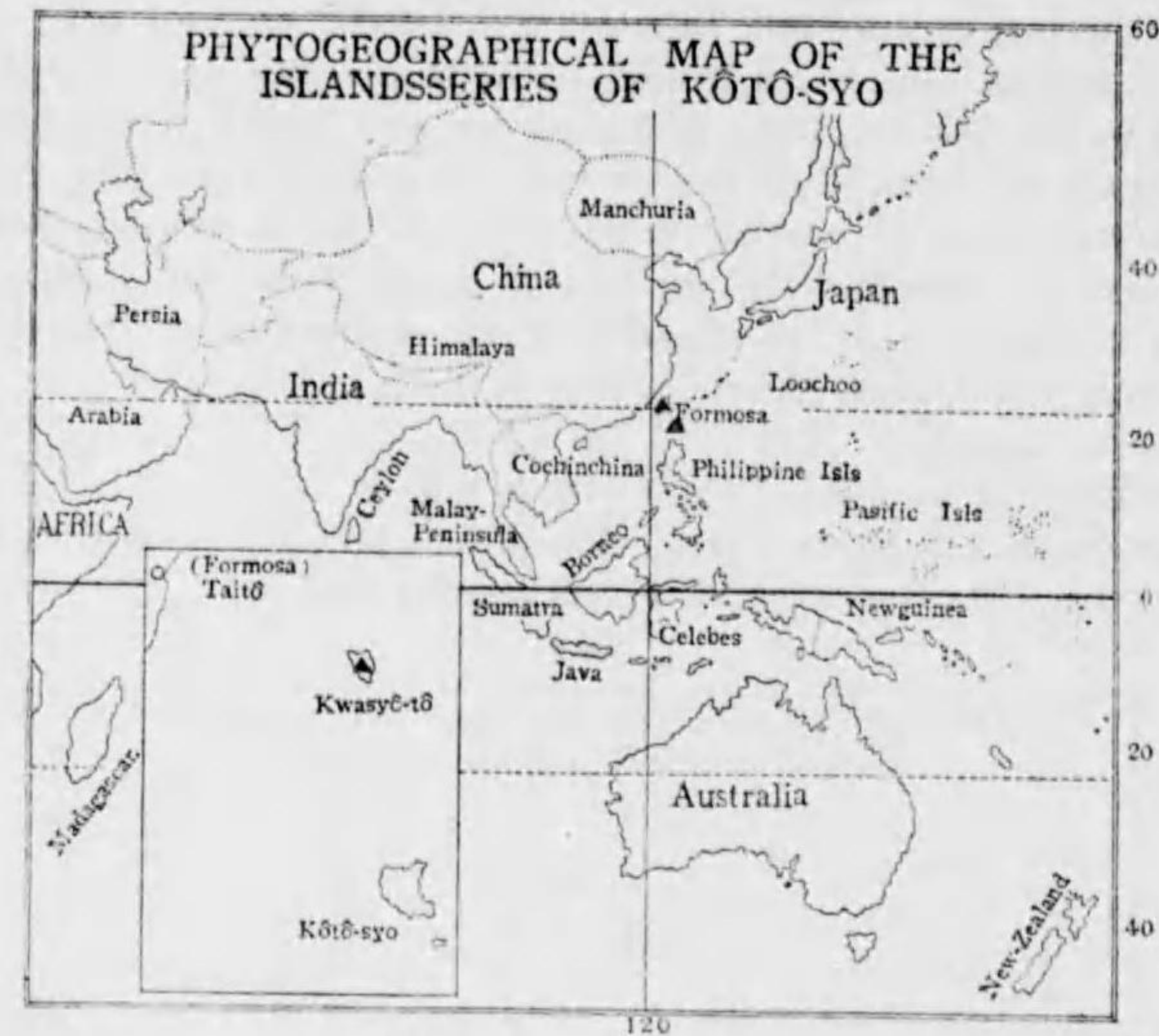
Nom. Jap. Koke-katahiba.

Hab. Kwasyō-tō, May 5, 1927; Jan. 2, 1929; Apr. 13, 1934, S. Sasaki!

Distrib. Formosa.

Note: This species grows in the wet grasslands or on the roadsides.

Fig. 95



96. *SELAGINELLA PHILIPPICA* SPRING, Enum. Lycop. n. 34; MONOGR. Fam. Lycopod. 2 (1848) 105; NAKAI, in Bot. Mag. Tokyo, 39 (1925) 201; MAK. et NEM., Fl. Jap. 2 ed. (1931) 126.

Lycopodium microstachyum (non WARBURG) DESV., Monogr. Lyc. n. 100, apud. POIRET, Suppl. Eneycl. 3 (1813) 554, excl. descrip., Desv., in Ann. Soc. Linn. Paris, 6 (1827) 189.

Selaginella Cumingiana (non SPRING.) PRESL, in Abh. Böhm. Ges. Wiss. 3. p. 582.

Lycopodioides flabellatum O. KUNTZE, Rev. 2 (1891) 826, pro parte.

Selaginella flabellata (non SPRING) HENRY, List Pl. Formos. (1896) 117; MATS. et HAY., Enum. Pl. Formos. (1906) 553.

Selaginella canaliculata BAKER, in Journ. Bot. (1885) 21; HENRY, List Pl. Formos. (1896) 117; MATSUM., Ind. Pl. Jap. 1 (1904) 361; MATSUM. et HAY., Enum. Pl. Formos. (1906) 552.

Selaginella plana (non HIERON) SASAKI, List Pl. Formos. (1928) 47.

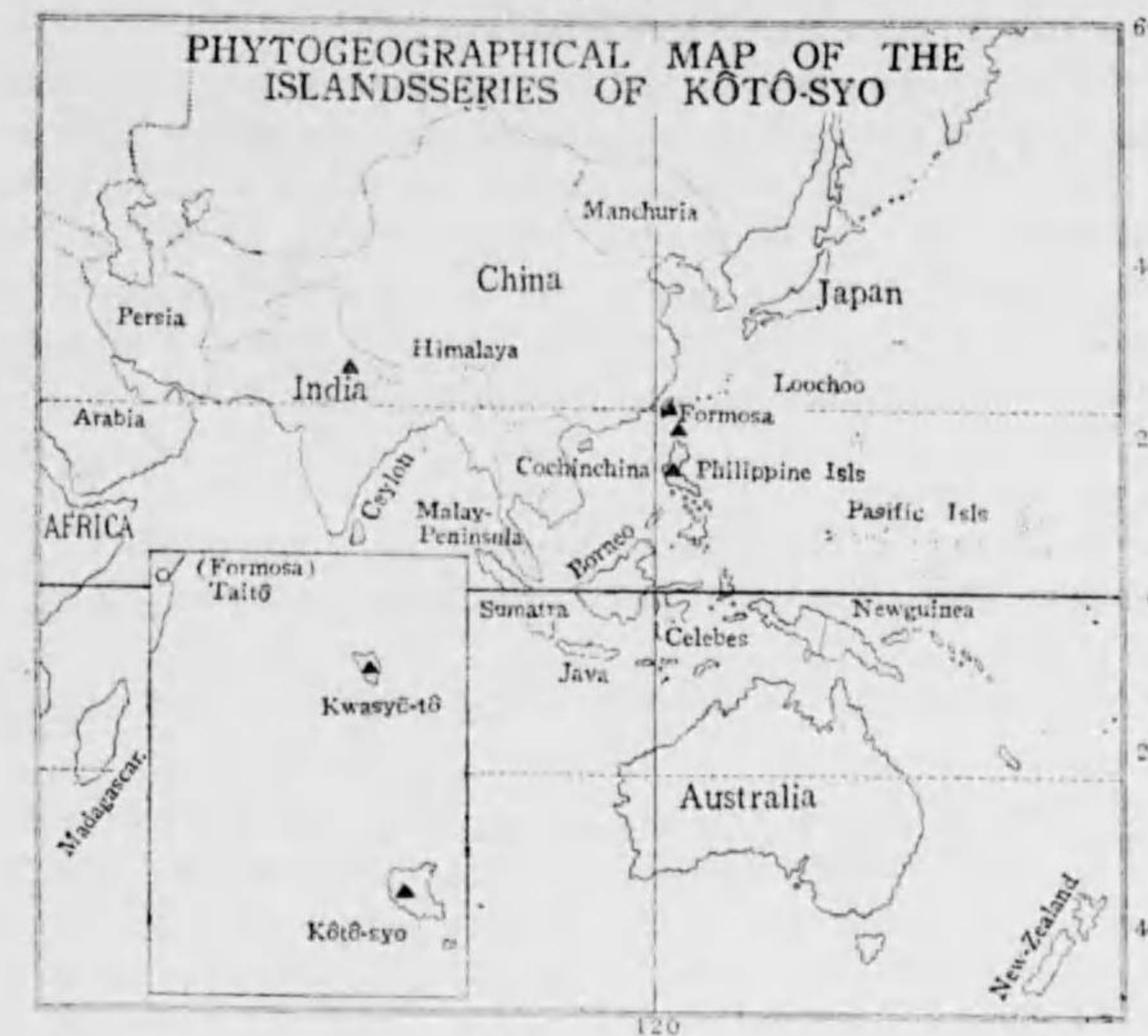
Nom. Jap. Hagoromo-katahira, Torinoha-katahira.

Hab. Kōtō-syo, May 1924; June 1926; Dec. 1927; Oct. 28, 1934; S. Sasaki; Kwasyō-tō, May 5, 1927, Jan. 1, 1929, Nov. 5, 1934, July 5, 1935, S. Sasaki!

Distrib. Formosa, Philippine.

Note: This species grows shade places in the neuter forests.

Fig. 96



Psilotaceae

PSILOTACEAE ENGL., Syllab. ed. 1 (1892) 58; PRITZEL, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 606; ROSENB., Malay. Fern. All. (1915) 23.

Lycopodiaceae SPRING, Monogr. Fam. Lycop. 2 (1849) 268; BENTH., Fl. Hongk. (1861) 436, pro parte; HOOK., Handb. New-Zeal. Fl. (1867) 387, pro parte; BAKER, Fl. Maurit. (1877) 518, pro parte; BENTH., Fl. Austral. 7 (1878) 670, pro parte; SMITH, Fern. (1896) 274, pro parte; BAIL., Queensl. Fl. 6 (1902) 1928, pro parte.

PSILOTUM SWARTZ, in Bot. Zeit. (1806) 217; SPRING, Monogr. Fam. Lycop. 2 (1849) 268; BENTH., Fl. Hongk. (1861) 437; HOOK., Handb. New-Zeal. Fl. (1867) 391; BAKER, Fl. Maurit. (1877) 21; BENTH., Fl. Austral. 7 (1878) 681; CLARKE, Rev. Fern. North. Ind. (1880) 589; SMITH, Fern. (1896) 274; PRITZEL, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 691; BAIL., Queensl. Fl. 6 (1902) 1928; ROSENB., Malay. Fern. All. (1915) 24.

Distri. Chiefly tropical & subtropical countries all over the World.

97. **PSILOTUM NUDUM** BEAUV., Prod. Aeth. (1805) 112; GRISEB., Syst. Veg. Karaib. (1857) 130; CLARKE, Rev. Fern. North. Ind. (1880) 589; MERR., in Philip. Journ. Sci. Bot. 9 (1914) 47; MAK. et NEM., Fl. Jap. (1925) 1554; NAKAI, in Bull. Biogeogr. Soc. Jap. 1 (1930) 253; MAK. et NEM., Fl. Jap. 2 ed. (1931) 128; MASAM., Fl. Geob. Stud. Yak.

(1934) 121; KANEH., Fl. Micron. (1933) 397.

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

Psilotum triquetrum SW., Syn. Fil. (1806) 117; SPRING, Monogr. Fam. Lycop. 2 (1848) 269; BENTH., Fl. Hongk. (1861) 437; MIQ., in Ann. Mus. Bot. Lugd. Bat. 3 (1867) 185; HOOK., Handb. New-Zeal. Fl. (1867) 391; FRANCH. et SAVAT., Enum. Pl. Jap. 2 (1876) 201; BENTH., Fl. Austral. 7 (1878) 681; BAKER, Handb. Fern. All. (1887) 30; PRITZEL, in Engl. u. Prantl, Nat. Pfl.-fam. 1. 4 (1900) 619; H. CHRIST, Warburg, Monunia 1 (1901) 99; BAIL., Queensl. Fl. 6 (1902) 1928; MATSUM., Ind. Pl. Jap. 1 (1904) 360; MATSUM. et HAYAT., Enum. Pl. Formos. (1906) 556; NAKAI, Fl. Kor. 2 (1911) 425; ROSENB., Malay. Fern. All. (1915) 24; SASAKI, List Pl. Formos. (1928) 47.

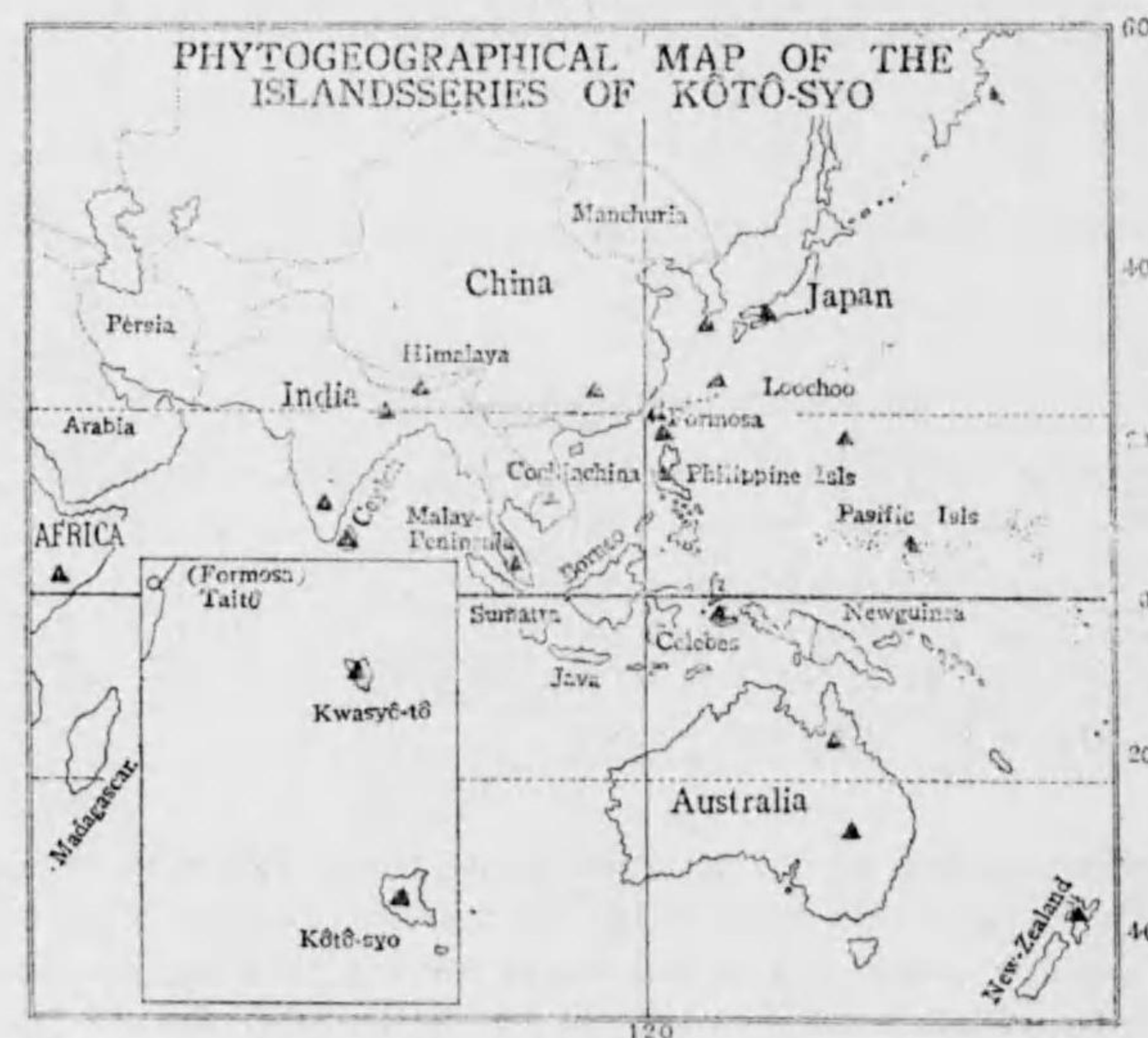
Nom. Jap. Matuba-ran.

Hab. Kôto-syo, Nov. 12, 1934, S. Sasaki!; Kwasyô-tô, Jan. 1, 1929, S. Sasaki!

Distrib. Japan, Korea, Bonin, China, Loochoo, Formosa and other warm countries of all the World.

Note: This species grows on the dead trees or on the barks of tree ferns.

Fig. 97



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Errata

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33	-4	<i>Patanea</i>	<i>Patanema</i>
50	7	<i>Pteronervon</i>	<i>Pteronevron</i>
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