The Kanehira-Hatusima 1940 Collection of New Guinea Plants. XIII.

By

S. Hatusima

Received May 5, 1942.

S. HATUSIMA: **Sparganiaceae.**

Sparganium sp.

No. 13766 KANEHIRA-HATUSIMA, Angi, Arfak Mts., April 8, 1940. Submersed in open marsh by Lake Giji at about 2,000 m. altitude; a herb, 30–50 cm. high, shoots stoloniferous.

Unfortunately our material is sterile, but I have no doubt about its generic identification. No representative of this family is hitherto known from New Guinea.

S. HATUSIMA: **Flagellariaceae.**

Flagellaria indica LINN. Sp. Pl. (1753) 333; GIBBS, Contr. Phytog. & Fl. Arfak Mts. (1917) 202; RENDLE in Dr. H. O. FORBES, New Guinea Plants (1923) 57; KRAUSE in Nova Guinea **14** (1924) 180 et ENGL. Bot. Jahrb. **59** (1925) 544.

Nos. 11636, 12885 KANEHIRA-HATUSIMA, Nabire, March 16, 1940; in rain-forests at 10 m. altitude. Nos. 12221, 12244 KANEHIRA-HATUSIMA, Dallmann, 50 km. inward of Nabire, March 3, 1940; scandent in *Agathis*-forests at about 500–600 m. altitude.

var. **gracilis** HATUSIMA, var. nov.

A typo recedit foliis angustioribus circ. 6 mm. latis ad 22 cm. longis, margine infra medium crispulatis, inflorescentiae minores.

No. 12004 KANEHIRA-HATUSIMA, Dallmann, March 1, 1940. Scandent in *Agathis*-forests at about 500 m. altitude.

Distrib. Species Tropical Africa and Asia to Polynesia and northern Australia.

Hanguana malayana (JACK) MERR. in Philip. Journ. Sci. **10** (1915) Bot. 3, Straits Branch Roy. Asiat. Soc. (1921) 109; KRAUSE in Nova Guinea **14** (1924) 180 et ENGL. Bot. Jahrb. **59** (1925) 546.

Susum malayanum PLANCH. ex HOOK. f. Fl. Brit. Ind. **6** (1892) 391; LAUTB. in ENGL. l. c. **50** (1913) 289.

Veratrum ? *malayana* JACK in Malay Misc. **1** (1820) 25.

No. 12180 KANEHIRA-HATUSIMA, Dallmann, March 2, 1940. In *Agathis*-forests at about 600 m. altitude; very rare.

Distrib. Malaya, Philippines to Micronesia.

S. HATUSIMA: **Centrolepidaceae.**

Centrolepis novo-guineensis GIBBS, Contr. Phytog. & Fl. Arfak Mts. (1917) 99.

No. 13645 KANEHIRA-HANEHIRA, Angi, Arfak Mts., April 6, 1940. In marsh on the summit of Mt. Koebre at about 2,300 m. altitude. This is also fairly common in open sandy marsh by the Lake Gita at about 1,900 m. altitude.

Distrib. Endemic; the type was from Angi.

S. HATUSIMA: **Xyridaceae.**

Xyris novo-guineensis HATUSIMA, sp. nov.

Xyris pauciflora (non WILLD.) sensu GIBBS, l. c. 100.

Perennis, radicibus crassiusculis. Folia satis rigida, 10–20 cm. longa, circ. 2 mm. lata, in sicco nervoso-striata; vagina quintam fere partem folii occupans, superne lamina non latior, basi valde dilatata, inferne castanea nitidulaque. Scapi 50–60 cm. longi 1.5–2 mm. crassi, subteretes nervoso-striati glabri densissime flavescento-punctates, superine pluri-striati (circ. 8), inferne castanei nitidique. Spica pauciflora subglobosa circ. 1 cm. lata et 0.8 cm. alta; bracteae chartaceae subnitidulae 3–4 mm. longae infimae breves, obovato-rotundatae castaneae, apice emarginatae dorso carinatae 3–4 mm. longae, intermediae castaneae, ovato-ellipticae, 5–6 mm. longae, apice rotundatae, area dorsali nulla vulgo castanea. Sepala lateralia navicularia curvula circ. 5 mm. longa, 3–3.5 mm. lata, elliptico-spathulata, brunneo-flava, carina angusta integerrima, apice obtusa vix fimbriato-laciniata. Petala limbo obovato circ. 3 mm. longo, basi cuneato; staminoidea bibrachiata, brachiis longe penicellatis; antherae circ. 1.2 mm. longae, 0.3 mm. latae, connective angusto, filamentum antheris paullo brevior. Capsula pericarpio tenui, semina oblongo-ellipsoidea circ. 0.8 mm. longa, 0.3 mm. lata.

No. 13591 KANEHIRA-HATUSIMA, Angi, Arfak Mts., April 5, 1940. In open marsh by Lake Gita, at about 1,900 m. altitude.

This is most closely related to *Xyris sumatrana* MALME from which it chiefly differs in its several ribs on the upper part of the stem, shorter leaves and much broader curved lateral sepals.

S. HATUSIMA: **Eriocaulaceae.**

Eriocaulon leucogens RIDL. in Trans. Linn. Soc. ser. 2, Bot. 9 (1916) 240;

RENDLE in GIBBS. l. c. 100.

No. 13542 KANEHIRA-HATUSIMA, Angi, Arfak Mts., April 5, 1940. In open marsh by Lake Gita at 2,000 m. altitude.

Distrib. South-western New Guinea (Mt. Carstensz); endemic.

Aclisia macrophylla (R. BR.) BRÜCKN. in ENGLER-PRANTL, Nat. Pflanzenf. 2te Auf. 15 a (1930) 176.

Pollia macrophylla BENTH. Fl. Austr. 7 (1878) 90; K. SCHUM. et LAUTB. l. c. 216; LAUTB. in ENGL. l. c. 50 (1913) 58.

No. 11828 KANEHIRA-HATUSIMA, Nabire, Feb. 28, 1940. In high rain-forests at about 300 m. altitude. A herb, 60 cm. high, fruits blue.

Distrib. Malaya, Philippines to northern Australia.

Aclisia Zollingeri HASSK. Commel. Ind. (1870) 51; BRÜCKN. l. c. 176.

Pollia Zollingeri C. B. CLARKE in DC. Suit. Prodr. 3 (1881) 127; K. SCHUM. et LAUTB. l. c. 216; LAUTB. l. c. 57.

No. 13002 KANEHIRA-HATUSIMA, Momi, March 23, 1940. In dense rain-forests. A herb, 80 cm. high.

Distrib. Malaya to Formosa and China.

Aclisia sorzogonensis E. MEY. in PRESL, Rel. Haenk. 1 (1825) 138, t. 25; BRÜCKN. l. c. 176.

Pollia sorzogonensis ENGL. Gen. Pl. (1836-50) 1029; K. SCHUM. et LAUTB. l. c. 216; LAUTB. l. c. 57; HALLIER in Nova Guinea 8 (1913) 907.

Nos. 11536, 11630 KANEHIRA-HATUSIMA, Nabire, Feb. 25, 1940. In dense rain-forests at 10 m. altitude.

Distrib. India, Malaya to China.

S. HATUSIMA: Commelinaceae.

Aneilema papuana WARB. in ENGL. Bot. Jahrb. 13 (1891) 62; LAUTB. in ENGL. ibid. 50 (1913) 62.

No. 11599 KANEHIRA-HATUSIMA, Nabire, Feb. 26, 1940; in high rain-forests at about 3 m. altitude. No. 13252 KANEHIRA-HATUSIMA, Momi, March 30, 1940; in high rain-forests.

Distrib. North-eastern New Guinea to Bismarck Archipelago.

Aneilema humile WARB. in ENGL. l. c. 13 (1891) 270; K. SCHUM. et LAUTB. Fl. Deutsch. Schutzg. Süds. (1901) 218; LAUTB. in ENGL. l. c. 50 (1913) 63.

No. 11536 KANEHIRA-HATUSIMA, Nabire, Feb. 25, 1940. In high rain-forests.

Distrib. North-eastern New Guinea.

Cyanotis capitata C. B. CLARKE in DC. Suit. an Prodr. **3** (1881) 243; LAUTB. l. c. 65.

No. 13418 KANEHIRA-HATUSIMA, Momi, March 3, 1940. In high rain-forests at 10 m. altitude.

Distrib. India, China, Philippines to Malaya.

Cyanotis uniflora HASSK. Commel. Ind. (1870) 104; LAUTB. l. c. 65.

No. 13381 KANEHIRA-HATUSIMA, Momi, April 3, 1940. In high rain-forests at 10 m. altitude.

Distrib. Malaya to Philippines.

Forrestia hispida LESS. et A. RICH. Sert. Asterol (1834) 2, t. 1; LAUTB. l. c. 64; HALLIER l. c. 906 (cum form.).

No. 13244 KANEHIRA-HATUSIMA, Momi, March 30, 1940. In edge of high rain-forests at 5 m. altitude.

Distrib. Sumatra, Java and Formosa.

S. HATUSIMA: **Juncaceae.**

Juncus articulatis LINN. Sp. Pl. (1753) 327.

Juncus lampocarpus EHRH. Calam. Gram. et Tripetal. Excicc. n. 126 (1791); RENDLE in GIBBS l. c. 100.

No. 13566 KANEHIRA-HATUSIMA, Angi, Arfak Mts., April 5, 1940. In open marsh by Lake Gita at 1,900 m. altitude.

Distrib. Eastern Asia, Europe to North Africa and northern America.

Juncus effusus var. **decipiens** BUCHENAU in ENGL. Bot. Jahrb. **12** (1890) 229, Juncac. (1906) 136.

Juncus effusus (non LINN.) sensu DIELS in ENGL. l. c. **62** (1929) 461,
Juncus decipiens NAKAI, Rep. Veg. Kamikoti (1928) 35.

No. 13561 KANEHIRA-HATUSIMA, Angi, Arfak Mts., April 5, 1940. In open marsh by Lake Gita at 1,900 m. altitude.

Distrib. Widely distributed in Old World.

S. HATUSIMA: **Amarylidaceae.**

Curculigo latifolia DRYAND var. **villosa** (WALL.) BAKER in Journ. Linn. Soc. **17** (1875) 125; HOOK. f. Fl. Brit. Ind. **6** (1892) 280.

Curculigo villosa WALL. Cat. n. 5763 A.

No. 12081 KANEHIRA-HATUSIMA, Dallmann, 45 km. inward of Nabire, March 1, 1940. In edge of *Agathis*-forests at 500 m. altitude.

Distrib. Malay Peninsula and Archipelago. A new addition to the flora of New Guinea.

Curculigo recurvata AIT. Hort. Kew. ed. 2, 2 (1811) 253; K. SCHUM. et LAUTB. Fl. Deutsch. Schutzg. Süds. (1901) 222; LAUTB. in ENGL. l. c. 50 (1913) 304.

Moliniera recurvata NEL in ENGL. l. c. 51 (1914) 8.

No. 11556 KANEHIRA-HATUSIMA, Nabire, Feb. 25, 1940. In secondary forests at 2 m. altitude.

Distrib. India, China, Philippines to Malaya and northern Australia.

S. HATUSIMA: **Dioscoreaceae.**

Dioscorea bulbifera LINN. Sp. Pl. (1753) 1036; KUNTH. in ENGL. Pflanzenr. 87 Heft (IV. 43) (1924) 88; KANEH. Enum. Micr. Pl. (1936) 291.

No. 11508 KANEHIRA-HATUSIMA, Nabire, Feb. 24, 1940. Scandent in edge of secondary rain-forests.

Distrib. India, China to Malaya.

Dioscorea (§ *Euantiophyllum*, *Salicifoliae*) **dallmannensis**

HATUSIMA, sp. nov., Fig. 1.

Caules laxè ramosi glabri circ. 1–1.5 mm. crassi. Folia alterna, lineari-oblonga, papyraceo-chartacea, apice acuminata longe angustata, basi levissime cordato-incisa, 3-nervia, utrinque glaberrima nitidula, in sicco utrinque pallide fusciscentia, 8–12 cm. longa, 1–1.8 cm. lata, nervis reticulatis supra paullo infra prominente elevatis; petiolo plerumque 2 cm. longo glabro. Spicae in axillis foliorum vel in ramum terminalem efoliatum usque 15–20 cm. longum 2- vel 3-natim dispositae, circ. 4–5 cm. longae, 3 mm. latae. Flores in

Fig. 1. *Dioscorea dallmannensis* HATUSIMA.

spica numerosi (20–25) 1.2 mm. remoti, sessiles, minuti vix 1 mm. longi, bracteae anguste ovatae apice acuminatae circ. 1 mm. longae. Perianthii segmenta exteriora obovato-spathulata, apice rotundata circ. 1.5 mm. longa, interiora minora obovato-elliptica, revoluta vix 1 mm. longa. Stamina fertilia 6, inaequalia, exteriora brevissima, distica; interiora longiuscula, cum rudimento stylo usque ad medium filamentorum connata; antherae orbiculares circ. 0.5 mm. longae.

No. 12301 KANEHIRA-HATUSIMA, Dallmann, Nabire, March 1, 1940. Scandent in edge of *Agathis*-forests at 500 m. altitude.

This is most closely related to *Dioscorea grata* PRAIN et BURKILL from the Philippines, from which it differs by its much longer spikes with somewhat larger male flowers.

Dioscorea nummularia LAM. Encycl. 3 (1789) 231; KUNTH l. c. 282.

No. 14225 KANEHIRA-HATUSIMA, Waren, April 19, 1940. Scandent in edge of rain-forests at 2 m. altitude.

Distrib. Philippines, Celebes to Micronesia and Bismarck Archipelago.

Dioscorea pentaphylla LINN. Sp. Pl. (1753) 1032; KUNTH l. c. 145.

No. 13225 KANEHIRA-HATUSIMA, Waren, March 26, 1940. Scandent in edge of strand-forests.

Distrib. India through Malaya to Polynesia.

Dioscorea sp.

No. 14223 KANEHIRA-HATUSIMA, Momi, April 19, 1940. Scandent in edge of rain-forests at 3 m. altitude.

This sterile collection is very closely related to *Dioscorea Sarasinii* ULINE, from which it differs by its somewhat narrower leaves with much sinuated bases.

S. HATUSIMA: **Iridaceae.**

Patersonia novo-guineensis GIBBS, l. c. 101; WENT in Nova Guinea 14 (1924) 114.

Nos. 13691, 13663 KANEHIRA-HATUSIMA, Angi, Arfak Mts., April 6, 1940. Abundant in open summit of Mt. Koebre at about 2,300 m. altitude.

Distrib. Endemic; the type was from Angi.

S. HATUSIMA: **Musaceae.**

Heliconia bihai LINN. Mant. 2 (1771) 211; K. SCHUM. et LAUTB. l. c. 224.

No. 13334 KANEHIRA-HATUSIMA, Momi, April 3, 1940. In edge of rain-forests; a herb, 3 m. high, flowers pale yellow.

Distrib. Origin of America, now naturalized in Malaya and Polynesia.

S. HATUSIMA: **Maranthaceae.**

Cominsia gigantea (SCHEFF.) K. SCHUM. in ENGL. Pflanzenr. (*Marant.*) (1902) 58; K. SCHUM. et LAUTB. l. c. Nachtr. (1905) 68; LOESENER in ENGL.-PRANTL, Pflanzenf. 2te Aufl. Bd. 15 a (1930) 673, f. 302, G. H.

Phrynium giganteum SCHEFF. in Ann. Jard. Buitenz. 1 (1876) 58.

No. 11542 KANEHIRA-HATUSIMA, Nabire, Feb. 25, 1940; in high rain-forests at 10 m. altitude, a herb, 1 m. high. No. 12430 KANEHIRA-HATUSIMA, Patema, 40 km. inward of Nabire at about 400 m. altitude, March 6, 1940; in rain-forests.

Distrib. Amboina.

Cominsia maxima HATUSIMA sp. nov., Fig. 2.

Herba perennis ad 5 m. alta. Folia magna, ovato-oblonga, chartacea, ad 130 cm. longa, 50 cm. lata, apice mucronata, basi subtruncata, utrinque glabra, costa media utrinque elevata, basi 1 cm. crassa, nervis lateralibus utrinsecus circ. 50, parallelis, a se 2-2.5 cm. remotis, secundariis numerosis a se 1.5 mm. remotis, supra vix subtus prominente elevatis. Inflorescentiae in caule foliato terminales, paniculatae, ad 60 cm. longae, rhachis rhachillisque fusciscentia densiuscule fusco-hirsuta, rhachillis circ. 2-3 mm. crassa, bracteis distichis, oblango-lanceolatis, deciduis, apice acutis ad 4.5 cm. longis, 1 cm. latis, glabris, 2-4-floris, flores subsessiles; sepala 3, anguste oblanceolata apice obtusa, 1.2 cm. longa, ad 2 mm. lata, membranacea; corollae tubus graciles ad 4.5 cm. longae, 1 mm. crassae, lobi valde irregulares, membranaceis, albi, laterales 2, naviculares margine cristati, 6-7 mm. longi; labellum obovato-ellipticum apice obtusiusculum 1.3 cm. longum, 7-8 mm. latum, intus medio in longitudinem cristis compressis, dolabratis circ. 3 mm. longis et altis suffultum. Stamina incurva. Ovarium 3-loculare, ellipsoideum 3 mm. longum 1.5 mm. latum villosum. Fructus circ. 1 cm. longus, globosus, pericarpio crassiuscule glabro. Semina 3, oblonga angulata 7 mm. longa 5 mm. lata nigrescentia.

No. 12983 KANEHIRA-HATUSIMA, Waren, March 23, 1940. In rain-forests at 10 m. altitude.

This is most closely related to *Cominsia gigantea* (SCHEFF.) K. SCHUM., from which it differs in its more robust status, much larger leaves and

Fig. 2.
Cominsia maxima HATS.
(flower)

pubescent inflorescences bearing quite different flowers.

Donax canniformis (FORST. f.) K. SCHUM. in ENGL. Bot. Jahrb. **15** (1893) 440; LOESENER l. c. 668; KANEH. l. c. 293.

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

No. 11486 KANEHIRA-HATUSIMA, Nabire, Feb. 24, 1940. In high dilluvial rain-forests.

Distrib. From Java, Borneo and the Philippines eastward to Palau, Aru and Polynesia.

Phrynium capitatum WILLD. Sp. Pl. **1** (1797) 17; LOESENER l. c. 673, f. 302 E.

No. 11728 KANEHIRA-HATUSIMA, Nabire, Feb. 27, 1940; in high rain-forests; a herb 1 m. high, flowers red. No. 12407 KANEHIRA-HATUSIMA, Patema, March 6, 1940; in high rain-forests at about 400 m. altitude.

Distrib. India to Central China. New to the flora of New Guinea.

Phrynium macrocephalum K. SCHUM. Fl. Kaiser Wilhelmsl. (1889) 30; WARB. in ENGL. Bot. Jahrb. **13** (1891) 280; K. SCHUM. et LAUTB. l. c. 237; LOESENER l. c. 673.

Nos. 11450 (fr.), 11574 (fl.) KANEHIRA-HATUSIMA, Nabire, April 23, 1940. In dilluvial rain-forests at 10 m. altitude; a herb, 1 m. in height, flowers white.

Distrib. North-eastern New Guinea.

金平・初島採集ニューギニア植物研究 XIII (和文摘要)

初 島 住 彦

みくり科 本科ノ植物ハニューギニアデハ未記録デアツタガ今回**アング**湖ノ湖畔ニ内地ノみくりニ近イ一種ヲ発見スルコトガ出来タ。採集品ハ花モ、果實モナイ標本デ種ノ決定ハ困難デアルガみくり類ナルコトハ間違ナイ。濠洲ニハ *Sparganium angustifolium* L. ガ知ラレテキルガ Angi 地方産ノモノハ葉ガ大分廣ク同一物デハナサ相デアル。

とうづるもどき科 **アジヤ**ノ熱帯地方ニ普通ナとうづるもどきノ外、基本種ニ比シ葉ガ著シク狭ク葉縁ノ中部以下ニ鋸齒狀ノ突起アルー變種ヲ**ダルマン**地方デ発見シタ。**ミクロネシヤ**ニモアル *Hanguana malayana* MERR. ハ今回ノ採集地デハ極メテ稀デ**ダルマン**地方ノ *Agathis* 林内ニ貧弱ナモノヲ 2~3 株見受ケタニ過ギナカツタ。

Centrolepidaceae *Centrolepis novo-guineensis* GIBBS 本屬ハ濠洲系ノ植物デ他デハニューギニヤ、ボルネオ、比島、佛印ニ夫々一種宛産スルニ過ギナイ。水邊ニ多イ團塊植物ノ一種デ高サ一寸内外ノ植物デアアル。

とうえんさう科 *Xyris novo-guineensis* HAT. GIBBS 女史ニヨリ *X. pauciflora* WILLD. ト鑑定サレテキタモノデアアルガ、スマトラ産ノ *X. sumatrana* MALME ニ最モ近イ別種デアアル。莖ノ縦稜ノ多イコト、葉ノ短イコト、側方萼片ガ廣イノデスマトラ産ト區別デキル。

ほしくさ科 *Eriocaulon leucogens* RIDL. 内地ノごましほほしくさヲ思ハセル種類デ生育地ニヨリ大サノ變化ガ激シイコトハ内地産同様デアアル。

つゆくさ科 總テ低地林ノ植物デ廣分布ノ種類ガ多ク固有種ハ少イ。

とうしんさう科 む及 *Juncus articulatus* L. ノ二種ガアンギ地方ニ見ラレタ外採集ハシナカツタガ *Luzula campaestris* L. ヲ思ハセル sterile ノ植物ヲアンギ地方イライ河ノ河岸ノ岩石上ニ發見シタ。

ひがんばな科 *Curculigo recurvata* AIT. ハ低地林内ニ普通ニ見ラレ、印度方面ノ産デ從來ニューギニヤニハ未記録デアツタ *C. latifolia* var. *villosa* BAK. ヲ今回ダルマン地方デ發見シタ。葉ハ長サ 4~5 尺ニモナリ裏面ニ白毛ガ密生シテキル

やまのいも科 本科ハ總テ低地林ニ限ラレ廣分布ノ種類ガ多イ。 *Dioscorea dallmanensis* HAT. ハ今回ダルマン地方デ發見シタ新種デ比島産ノ *D. grata* PRAIN et BURKILL ニ最モ近イガ葉ハ幅狭ク、花序ハ長ク、雄蕊ガ大キイノデ區別出來ル。

あやめ科 *Patersonia novo-guineensis* GIBBS 本屬ハ濠洲系ノ植物デニューギニヤニ二種、ボルネオ及比島ニ夫々一種宛知ラレテキル。本種ハ高サ 5 寸内外デ葉ハ硬ク、密ニ重リ合ツテ出ル。アンギ湖附近ノ乾イタ尾根ノ原野ニ群生シテキル。

ばせう科 *Heliconia hihai* L. 南米原産デ現今デハアジャノ熱帶地ニ野生化シテキル。高サ 2~3 米ニ達シ一見みようが科ノ植物ヲ思ハセル。尙本科デハナビレ附近ノ河岸林内ニ野生ノ *Musa* sp. ヲ發見シタガ完全ナ標本ガナカツタノデ鑑定不可能デアツタ。

くずうこん科 本科ノ植物ハ通常沖積層上ノ低地林内ニ限ラレ美麗ナ花ヲ着ケルモノガ多イ。 *Cominsia maxima* HAT. ハ今回モミ附近ノ森林内デ發見シタ新種デ草丈 5 米ニモ達シ、ソノ大ナル葉ハ長サ 1.5~2 米、幅 50~80 糎ニモ達シ、ソレガ大キナ一本ノ葉柄ノ上ニ頂生シテキル様ハ實ニ壯觀デアアル。本科ノ植物中デハ恐ラク最大ノモノデアラウ。一番近イノハ *C. gigantia* K. SCH. デアルガ葉ハ更ニ大キク、花序有毛ナル點デ容易ニ區別出來ル。