

## Contributiones ad Cognitionem Florae Asiae Orientalis

(continued from p. 33)

**G. KOIDZUMI**

**Mucuna sempervirens** HEMSL. in CURTIS Bot. Mag. t. 7978. (1904); et in Jour. Linn. Soc. XXIII (1887) p. 190;—Bull. Soc. Bot. Fr. **55** (1908) p. 408;—Pl. Wilson. II. p. 117;—Gard. Chr. 3 ser. **67** (1920) p. 303.

*Mucuna japonica* NAKAI in Tokyo Bot. Mag. vol. **46** (1932) p. 57, 78.

Nom. Jap.	Tobi-kadsura.
Nom. Chin.	油麻藤 Mien-ma-teng (棉馬藤) Niu-ma-teng (牛馬藤)
Hab.	Japonia, Kyusiu: prov. Higo, Kamotogun, Uchidamura, Aira (non Sagara!)
Distr.	China: Hupeh, Szechuen.

**Lagenophora crepidiodes** KOIDZ. Plantae Novae Amami-Ohsimensis nec non Insularum Adjascentium (1928) p. 3.

Herbae annuae, foliis omnibus radicalibus spathulatis vel spathulato-obovatis 2,5—5 cm. longis, 5—13 mm. latis, apice rotundatis basi sensim vel abrupte cuneato-attenuatis obscuriter vel distincte paucidentatis membranaceis utrinque pubescentibus; petiolis 7—18 mm. longis; scapis pluribus (3—7) gracile elongatis 8—12 cm. longis paucicanaliculatis fere glabris, bracteis 1 vel 2 linearibus 1—2 mm. longis, supra infraque medium insertis. Caput 4 mm. longum ac latum ad apicem solitarium, heterogamum, involucri phyllis circiter biseriatis linearibus acutis vel obtusiusculis medio uninervis glabris, floribus ligulatis numerosis, floribus tubulosis paucis, receptaculo convexo nudo. Flores radii ligulati foeminei ligulis circiter 2 mm. longis obtusis revolutis, tubis brevissimis minute puberulis, stylis brevissimis profunde bilobis, ovario fusiforme circiter 2 mm. longo glabro rostro glandulifero. Flores disci tubuloso hermaphroditi, corolla apice quinquelobata lobis ovatis obtusis marginatis, antheris linearibus apice appendiculatis basi obtusis; stylis brevibus bilobis, stigmatibus complanatis extus minute papillosis.

Nom. Jap. Yayeyama-Kokesenbongiku.

Type locality : Loochoo : insula Yayeyama (leg. M. HORI! Feb. 1922).

Type specimens : in Herb. Bot. Inst. Facult. Sci. Kyoto Imp. Univ.

**Selaginella lutchuensis** KOIDZ. Pl. Nov. Amami-Ohsim. l. c. p. 4 (1928).

A very characteristic species in its nearly alike ovate leaves fimbriated on the margins, longly aristate at the apex; bracts ovate longly cuspidate at the apex and fimbriated on the margins.

Parva, caulis decumbens ad totam longitudinem radicans. Folia fere homomorpha omnia ovata apice longe aristata margine fimbriata, lateralalia fere 2 mm. longa dorsalia 1,8 mm. longa longius cuspidata; spicae 5—11 mm. longae dense bracteatae bracteis triangulari-ovatis longe cuspidatis dorso manifeste carinatis margine ciliolis longis fimbriatis; macrosporis lutescentibus laevibus.

Nom. Jap. Hime-mukade-kuramagoke.

Type locality : Loochoo : insula Amami-ohsima, (leg. FAURIE, no. 4655. Juli 1900. in latebris terrarum vel murorum).

Type specimens : in Herb. Musei Parisiense et in Herb. Bot. Inst. Facult. Sci. Kyoto Imp. Univ. Japon.

**Pittosporum lutchuense** KOIDZ. Pl. Nov. Amam.-Ohsim. p. 5 (1928).

*Pittosporum pauciflorum* var.  $\beta$ , HOOK. fil. et ARNOT. Bot. Capt. BEACHEY Voyage (1837—39) p. 259. (pro parte! plant. quoad ex Loochoo!).

The new species is characteristic in the softly pubescent new branches and inflorescence; the leaves oblanceolate obtuse or rotundate at the apex, cuneate angustate toward the base, and manifestly reticulated veined than those of *Pittosporum Tobira*.

Arbuscula ramis cinerascentibus vel sordide cinerascentibus, ramis novellis molliter tomentellis. Folia rigide coriacea nascentia tenuiter albo-lanuginosa cito glaberrima utrinque reticulato-venosa venis venulisque supra impressis subtus elevatis, supra subnitida viridia, subtus opaca pallida, oblanceolata usque oblongo-obovata, ad 9 cm. longa et 33 mm. lata, apice obtusissima usque rotundata, versus basim cuneato-angustata, integerrima; petiolis initio molliter pubescentibus usque 17 mm. longis. Flores ad apices ramorum hornotinorum corymbosi circiter 15-florati interdum pauciumbellati, pedunculis pedicellisque 1—2,5 cm. longis molliter villosis, bracteolis ovatis acutatis caducis: corolla breviter tubuloso-unguiculata, non longe ut in illo *Pittospori glabrati*, partis horizontalibus obovato-ellipticis; ovaria ovoidea 3 mm. longa ferrugineo-tomentosa; stylis

teretibus 2,5 mm. longis, stigma discoidea; sepala 5 ovata acuta puberula inaequalia; stamina 5 filamentis carnosis.

Nom. Jap. Okinawa-tobera.

Type locality: Loochoo: insula Amamiohsima, (leg. Captain A. CARPENTER! in anno 1883). (leg. Z. TASHIRO! Martio 1924).

Type specimens: in Herb. Kew. et in Herb. Bot. Inst. Facult. Sci. Kyoto Imp. Univ. Japon.

**Damnacanthus indicus** GAERTN. var. **parvispinus** KOIDZ. Pl. Nov. Amam.-Ohsim. l. c. (1928) p. 6.

The new variety comes near to *Damnacanthus indicus* var. *parvifolius* KOIDZ. in Tokyo Bot. Mag. vol. 39 (1925) p. 4, but the leaves are strongly argute at the apex, the petiols are 2 times longer, the spines are very short 2—5 mm. long.

Innovation furfuraceo-pilosus ramis biennibus laxe pilosis; foliis ovatis usque oblongo-ovatis apice argutissimis; petiolis 3 mm. longis, spinis 2—5 mm. longis valde brevibus.

Nom. Jap. Ohsima-aridohsi

Type locality: Loochoo: insula Amamiohsima, (leg. Prof. S. KAWAGOE! 17 Jul. 1919; leg. Z. TASHIRO! Martio 1924).

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Symplocos Sonoharai** KOIDZ. Pl. Nov. Amam.-Ohsim. l. c. (1928) p. 6.

*Bobua Sonoharai* KOIDZUMI. l. c. (1928) p. 6.

Species perdistinctissima, stamina distincte pentadelpha, ovaria bilocularia in loculo 4—6 ovulata.

Arbusculus ramis ramulisque validiusculis, vetustioribus sordide glaucis plus minus rugosis phyllulem magnam reniformem elevatam valde notatis; hornotinis glabris fuscescentibus angulato-rugosis. Folia glaberrima coriacea ovato-oblonga oblanceolato-oblonga, late elliptica vel ovata, interdum oblongo-oblanceolata, supra opaca raro nitidiuscula subtus elevato-nervosa, margine obscuriter grosseque crenata, costa media supra impressa subtus elevata, apice obtusissima basi cuneata, 1,5—4,5 cm. lata, 3—9 cm. longa; petiolis 10—17 mm. longis carnosis fuscis supra angustissime sulcatis. Flores ad axillas foliorum hornotinorum pauci-cymosi, pedunculis 3 mm. longis, pedicellis 2 mm. longis pedunculisque pilis minutis albis validis dense subvelutino-tomentosis; bracteolis minutis sericeo-velutinis. Flores 9 mm. longi, calyx obconicus 3 mm. longus tubo extus versus

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basim densius sericeo-velutinus obscuriter quinquecrenatus. Petala 5 primum fere libera deinde alte coalita obovato-oblonga in anthesi horizontaliter patentia. Stamina pentadelpa glabra pauci-seriata, numero in uno fasciculo 10, filamentis inaequilongis, antheris orbicularibus minimis. Ovarium semiinferum dense sericeum biloculare in loculo 4-6-ovulatum, ovulis pendulis; stylo unico 7 mm. longo stigmati amplo discoideo. Fructus monospermus oblongus 7 mm. longus coeruleo-niger facie laxe pilosus, pedicellis 2 mm. longis.

Nom. Jap. Rusun, Dosun, Yuwangi.

Type locality: Loochoo: insula Utchina, Kunchan, Sade ad ripas fluvii Benokigawa (leg. S. SONOHARA! no. 1 et 2, Juni 7, 1923).

Ranges: insula Amamihsima, in montis Yuwandake (leg. H. OHBA! Z. TASHIRO! G. KOIDZUMI!).

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

I have much pleasure in associating the name of our plant with Mr. SAKUYA SONOHARA of Okinawajima, who has greatly assisted me in the collection of plants in Loochoo archipelago in 1923.

**Ligustrum** (Robustae) **amamianum** KOIDZ. Pl. Nov. Amam.-Ohsim. l. c. (1928) p. 7.

This species seems nearest to *Ligustrum japonicum* var. *spathulatum* MANSF. and easily distinguished by the globose fruit.

Arbuscula glaberrima, ramis vetustis cinereis hornotinis pallide fuscis, omnibus minute tuberculatis. Folia coriacea supra opaca plana atrata subtus pallide brunnescentia ovata oblonga elliptica late elliptica interdum suborbicularia apice obtusissima usque rotundata integra 1-4 cm. longa, ad 2 cm. lata, venis subtus leviter elevatis; petiolis fuscis 1 cm. longis. Inflorescentia ut videtur pluriflora, fructibus globosis.

Nom. Jap. Koba-no-tamatsubaki.

Type locality: Loochoo: insula Tokunoshima ad montis Inokawadake (leg. H. OHBA! no. 31, Martio 1925).

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

This species is dedicated to Amami-kiyo who was the first to come to the island of Amamihsima, in remote antiquity, according to the tradition of the island.

**Hypericum** (Homotaenium) **yakusimense** KOIDZ. Pl. Nov. Amam.-Ohsim. l. c. (1928) p. 8.

The present species resembles to *Hypericum laxum* (Bl.) KOIDZ. but is a species of the section of Homotaenium.

Planta humilis dense caespitosa 5—8 cm. alta inferne ramosa ramis ascendentibus; caulibus atrobrunneis infra folium lineis decurrentibus vestitis, internodiis inferioribus valde abbreviatis interdum circiter 1 mm. longis. Folia minima obovata usque obovato-oblonga apice rotundata basi obtusa, 3—8 mm. longa, 2—3 mm. lata, crasse membranacea, plerumque subsessilia, saepe distincte brevipetiolata, pelucido-punctata, margine pluri-atropunctata. Flores ad apicem ramii solitarii vel trini, 6—7 mm. longi lutei. Sepala oblonga obtusa pelucidopunctata petalis oblongis margine atro-glandulosis. Carpella 3 ovaria elliptico-ovoidea stylis 3 ovario brevioribus.

Nom. Jap. Miyama-kokeotogiri.

Type locality: The Loochoo archipelago, insula Yakushima, ad montis Miyanoura-dake (leg. ZENTARO TASHIRO!).

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Actinidia** (Vestitae) **kiusiana** Koidz. Pl. Nov. Amam.—Ohsim. l. c. (1928) p. 9.

This plant seems to be near to *Actinidia strigosa* Hook. of Himalaya, but readily distinguished by the leaves cordate at the base and hispid on both surfaces.

Arbor ascendens ramis molliter puberulis strigoso-hispidis. Folia membranacea oblongo-ovata 8,5—13 cm. longa 4—6 cm. lata, acuta, basi cordata, mucronato-serrata, utraque latere 7—9-penninervia, laxe hispida in utraque pagina, petiolis 2—6 cm. longis hispidis.

Nom. Jap. Nagaba-shirakuchizulu.

Hab. The Loochoo archipelago: insula Tanegashima.

Ranges. Kiusiu: prov. Hiuga, Minaminakagun, Ichimura; Prov. Buzen, Usagun, mount. Gongenzan. Nippon: prov. Kii.

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Blumea fruticosa** Koidz. Pl. Nov. Amam.—Ohsim. l. c. (1928) p. 9.

Suffrutex procerus infra medium lignosus 1—2 metralis, caule crecto tereti multistriato a centro medullosa simplice, crispato-pubescente versus basim saepe muricato. Folia radicalia deficientia sed folia magna prope basin caulis arctius congesta, omnia membranacea supra opaca atroviridia, subtus pallida, utrinque pilis basi glandulosotumidis molliter puberula, costa media costulaque dense molliter brunneo-villosa, margine aequaliter late apiculato-serrata; folia magna 20—35 cm. longa 6—12 cm. lata, oblongo-ob lanceolata vel obovato-oblonga apice acuta, basi cuneato-decurrentia vel late cuneata; folia caulina abrupte minor superiora sparce

alterna valde abbreviata oblanceolata vel spathulato-oblanceolata acuta basi decurrenti-cuneata. Panícula terminalis ampla obovata 40—60 cm. longa, 20 cm. lata, ramis dense pubescentibus erecto-patentibus basi unifoliatis, capitulis 8—9 mm. longis 10—13 mm. latis, 5—15 mm. longe pedicellatis, floribus luteis, bracteolis linearibus dense pubescentibus. Involucrum campanulatum phyllis circiter quinquieseriatis dense apresseque pubescentibus extimis triangulariacuminatis valde abbreviatis, sequentis gradatim longioribus, intimis linearibus scariosis uninervis acuminatis molliter villosis. Flores foeminei numerosi, corolla tubulosa apice quinquelobata, lobis oblongis extus minute glandulosi, styli ramis filiformibus exertis. Flores masculini pauci centrales, corolla tubulosa apice quinquelobata lobis oblongis obtusis dorso papillosis, antheris apice apiculatis rotundatis basi caudatis. Achenia puberula pappis numerosis rubicundis papillosis.

Nom. Jap. Oh-kibana-mukashiyomogi.

Hab. Loochoo archipelago: insula Amamiokshima (leg. H. ABE! H. OHBA! Z. TASHIRO! G. KOIDZUMI!), insula Yakushima (leg. Z. TASHIRO!), insula Okinawajima, Kunchan (leg. G. KOIDZUMI! Aprili 1923).

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Cardiandra amamiokshimensis** KOIDZ. Pl. Nov. Amam.—Ohsim. l. c. (1928) p. 10.

Species nova distincta imprimis inflorescentia longe paniculata, floribus sterilibus deficientibus, foliis cum iis *Cardianaræ sinensis* HEMSL. valde simillimis.

Herba perennis cum rhizomatibus *Polygonati*, 1—2 pedalis, caule pauci-canaliculato superne piloso. Folia oblongo-lanceolata raro oblonga usque 18 cm. longa, 7,5 cm. lata, acuminata, basi acuta vel late cuneato-acuta, argute incumbenti-serrata, dentibus apice callosis, supra atro-viridia vel atro-rubicunda pilosa, subtus pallida secus venas pubescentia, papyracea, petiolis 2—9 cm. longis glabris. Panícula terminalis multiflora subpyramidalis pedunculis dense albo-pubescentibus, pedicellis glabris, bracteis foliaceis lanceolatis bracteolisque linearibus fere glabris; floribus rubicundis mediocribus. Calyx glaber tubo obovoideo lobis 5 depresso-triangularibus. Petala 5 orbicularia caduca. Stamina circiter viginti, stylis tribus.

Nom. Jap. Amami-kusa-ajisai.

Hab. Loochoo: insula Amamiokshima, ad Nase (leg. Prof. S. KAWAGOE! 16 Aug. 1919), ibid. (leg. T. MAYEDA! 30 Julio 1925), inter Kawauchi et On-

kachi (leg. Y. HOSOYAMADA! 29 Julio 1927), Tatsugoh (leg. H. OHBA! Nov. 1922).

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Elatostema tumidula** KOIDZ. Pl. Nov. Amam.-Ohsim. l. c. (1928)

p. 11.

Suffrutex circiter 70—80 cm. altus superne fastigiato-ramosus, saepe arboricolus dioecus, ramis plerumque simplicibus distiche foliosis, internodiis folio multo brevioribus, caulibusque apresse pilosis carnosulis. Folia crasse membranacea oblique oblango-lanceolata 8—13 cm. longa 2—3,5 cm. lata, superiora major, apice subito longe cuspidata supra medium grandiserrata, ceterum integra oblique cuneato-constricta, basi inaequilatera acuta trinervia, supra atro-iridia cystolithis minimis linearibus albis dense conspersa, subtus pallide viridia sub lente minute densissimeque albo-punctulata, nervis primariis utrinsecus 4—7 subtus apresse pilosis, costa media supra versus basim pilosa, venulis imprimis subtus conspicue distinctis, petiolis brevissimis 1—2 mm. longis apresse pilosis. Flores dioeci, pedicelli masculini in axillis foliorum et ad nodos defoliatos fasciculato-glomerulati, uniflori, 0,5—2 mm. longi; bracteis bracteolisque pluribus ovatis dorso villosis; tepalis 4 ovatis dorso puberulis, staminibus 4 filamentis perianthio longioribus.

Nom. Jap. Oh-kimidsu.

Hab. Loochoo: insula Amamiohsima (leg. Z. TASHIRO! Martio 1924).

Type specimens: in Herb. Bot. Inst. Kyoto Univ. Japon.

**Arisaema (Pistillata) heterocephalum** KOIDZ. Pl. Nov. l. c. (1928)

p. 12.

Circiter 30—70 cm. altum bifolium glabrum. Cataphylla 4 tenue membranacea scariosa purpureo-striato-maculata, infima 15 mm. longa, suprema ad 17 cm. longa, omnia apice rotundata mucronulata. Folia inferiora 11—19-pedatisecta, superiora 11—15-pedatisecta, utraque laciniis introrsum contortis, foliolis linearibus vel oblanceolato-linearibus tenuissime membranaceis lucidis integris utrinque angustatis, foliolis intermediis 8—17 cm. longis 15—20 mm. latis fere sessilibus basi inaequalibus. Petiolus 7—20 cm. longus basi late et longe vaginatus apicem versus leviter auriculatus. Spatha foeminea viridia turbinata, tubo 8 cm. alto 15 mm. lato, fauce recurvo, lamina late ovata 7 cm. longa breviter acuminata; spadice 8 cm. longo, appendice 6,5 cm. longo anguste clavato-cylindrico, pedunculo 6 cm. longo. Spatha masculina 7 cm. longa tubulosa 5 mm. lata, spadice 4,5 cm. longo, appendice apice capitato, pedunculo 7 cm. longo.

- Nom. Jap.           Hosobá-tennansho.  
 Hab.                Loochoo : insula Amamióhsima (leg. Z. TASHIRO !  
                       Martio 1924).

Type specimens : in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Ilex** (Euilex) **dimorphophylla** KOIDZ. Pl. Nov. l. c. (1928) p. 12.

Folii forma surculi sterilis cum iis *Ilecis cornutae* LINDL. sat similis, sed duplominor, foliis nonnullis magis profunde sinuatis, folii forma rami normalis integerrimis, ramulis hornotinis minute pubescentibus.

Arbuscula vel frutex ramulis patentibus vel erectis, rectis vel leviter curvatis; vetustioribus teretibus albo-cinerascentibus leviter rugulosis; hornotinis leviter angulatis pilis minutis horizontaliter patentibus tomentellis. Folia sempervirentia rigide coriacea glaberrima supra atro-viridia subnitidiuscula subtus pallida opaca, elliptico-ovata vel obovato-elliptica raro obovata vel late elliptica 1—3,5 cm. longa, 7—17 mm. lata, venis primariis utrinsecus 4—5 grosse reticulato-venosis, venis utraque pagina leviter prominulis; folia integerrima apice mucronulato-acuta usque rotundata basi obtusa usque subrotundata folia ramorum surculi sterilis utrinque 1—3-dentata vel profunde pinnatim 3—6-sinuato-dentata, dentibus apice spinosis; petiolis brevissimis 0,5—1 mm. longis minute pilosis vel glabris.

- Nom. Jap.           Hiiragi-mochi.  
 Hab.                Loochoo : insula Amamióhsima, in montis Yuwan-  
                       dake (leg. Z. TASHIRO ! Martio 1924, leg. H. OHBA !  
                       Nov. 1925, leg. G. KOIDZUMI ! Aprili 1923).

Type specimens : in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Ilex** (Prinoides) **poneantha** KOIDZ. Pl. Nov. l. c. (1928) p. 13.

The present species seems nearest to *Ilex macrocarpa* OLIVER, but the flower is smaller and 4—6-merous.

Arbor vel arbuscula fere glaberrimus, ramis erecto-patentibus sulcato angulatis badiis vel cinereo-lucidis laevibus, lenticellis orbicularibus albidis elevatis sat magnis pluri-dispersis; ramulis novellis leviter puberulis cito glabris. Folia membranacea decidua glaberrima elliptica vel elliptico-ovata raro oblonga obtuse acuta raro obtuse acuminata, basi rotundata, margine obscuriter remote crenulata vel remote serrulata, ad 14 cm. longa 7 cm. lata, petiolis 10—15 mm. longis glabris. Inflorescentia masculina cum foliis in ramulis abbreviatis fasciculata, uniflorae vel semel dichotomae 2—3-florae, breviter pedunculatae pedicellis 5 mm. longis bracteolis squamosis 1 vel 2 saepe obsoletis caducis. Flores masculini 4—6-meri ut videtur albi 8 mm. lati. Calyx hemisphaericus lobis ovatis apice rotundatis glabris. Corolla rotata, petalis obovato-oblongis apice rotundatis



basi leviter inter se coalitis. Stamina in anthesi quam corollae lobi vix breviora, antheris ovatis filamentis fere duplo brevioribus. Pistillodium depresso-hemisphaericum obscuriter quinquelobum sat magnum.

Nom. Jap. Hiroha-tamamidsuki.

Hab. Loochoo : insula Amamiohsima, Chinaze (leg. HIDEKAGE OHBA! no. 171. Nov. 1923), Naon (leg. ZENTARO TASHIRO! Martio 1924).

Type specimens : in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Dioscorea** (Japonicae) **Zentaroana** KOIDZ. Pl. Nov. 1. c. (1928) p. 14.

Species perdistinctissima inflorescentia ampla ramosa floribus masculinis sessilibus, foliis late cordatis 13—15-costatis.

Herbae perennantes basi erectae superne ascendentes vel parum volubiles sat elongatae glabrae. Caulis usque 4 vel 5 mm. crassus laevis vel vix sulcatus. Folia alterna usque 10 cm. remote irregulariterque disposita, lamina ambitu late triangulari-cordata 8,5—17 cm. longa, 5,5—12,5 cm. lata, longe acuminata basi profunde cordata, margine leviter sed longe repanda, 13—15-costata, costis subtus prominentibus, petiolis rectis 5—15 cm. longis robustis. Inflorescentia masculina axillaris ampla fere semper geminata racemoso-ramosa, glaberrima, ramis filiformibus elongatis tenuissimis, floribus luteis 3 mm. latis pauci-glomeratis sessilibus, glomerulis sat distantibus; bracteolis ovatis acutis glabris caducis. Flores masculini: perianthium rotatum 6-lobatum lobis ovatis apice obtusis vel rotundatis medio uninerviis, staminibus 3 basi perianthii insertis fere sessilibus, staminodia nulla, rudimentum stylinum nullum.

Nom. Jap. Amami-tachidokolo (Z. TASHIRO).

Hab. Loochoo : insula Amamiohsima, Yamatomura prope Toyen (leg. ZENTARO TASHIRO! 15 Martio 1924).

This remarkable plant was collected by Mr. ZENTARO TASHIRO, the botanist of the Kyoto Imperial University, with whom I have much pleasure in associating the name of this plant, in recognition of his continued research in the Flora of the Kiusiu island.

**Wikstroemia phymatoglossa** KOIDZ. Pl. Nov. 1. c. (1928) p. 15.

The present plant is near to *Wikstroemia pauciflora* FRANCHET et SAVATIER in its flower, but its leaves and inflorescens are very similar to those of *Wikstroemia Gampi* MAXIM.; the branching habit is also like to those of the former, but much more stout.

Frutex circiter 1 m. altus; ramis erecto-patentibus vetustioribus robustis nigricantibus rugosis, ramulis novellis adpresse denseque strigu-

loso-sericeis. Folia pergamentacea usque chartacea ovata vel elliptico-ovata, rarius elliptica vel late elliptica, usque 5,7 cm. longa, 3,2 cm. lata, apice obtusa usque rotundata rarius obtuse acuta, basi rotundata, supra ab initio glaberrima fusca vel atrofusca in specimine sicco, subtus praeter costas medias pilis persistentibus adpresse striguloso-sericeas parce sericea mox glabrescentia; margine primum parce ciliata, costis secundariis utrinsecus 6—8, reticulatione subtus conspicuis; petiolis 2—3 mm. longis sericeis. Inflorescentia iis *Wikstroemiae Gampii* sat similis, pedunculis pedicellisque dense sericeis, pedicellis 1 mm. longis, floribus carnosus 7 mm. longis ut videtur brunneo-luteis. Perianthium tubo 5 mm. longo tubuloso extus apresse sericeo, lobis 4 exterioribus majoribus oblongis recurvis, antheris 8 biseriatis oblongis filamentis brevissimis, disci squamis paucis subulatis glabris tenuissimis 1,5 mm. longis; pistillum 2 mm. longum, ovario oblanceolato sericeo, stylis brevissimis stigma grosse capitato.

Nom. Jap. Ohsimagampi.

Hab. Loochoo; insula Amamiohsima, (leg. G. KOIDZUMI! Aprili 1923, Z. TASHIRO! Martio 1924, H. OHBA! 27 Julio 1927).

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

**Microtropis Sakaguchiana** KOIDZ. Pl. Nov. 1. c. (1928) p. 16.

This species seems to be placed most closely to *Microtropis Matsudai* (HAYAT.) KOIDZ., but easily distinguished in having very obtuse leaves and glomerated nearly sessile flowers, and also simple stigma.

Frutex glaberrimus ramosissimus, ramis novellis fuscis obsolete tetragonis. Folia opposita coriacea glaberrima anguste oblongo-oblanceolata raro lineari- vel spathulato-oblanceolata, 23 mm. longa 5 mm. lata, 4 cm. longa 1 cm. lata vel 7,5 cm. longa 2 cm. lata, margine leviter revoluta, apice obtusa, basi anguste cuneata, supra viridia plana venis obscuribus, subtus dilute brunnea rugulosa venis distinctis, petiolis 4 mm. longis. Flores ad axillas foliorum hornotinorum pauci glomerati, fere sessiles, 3 mm. longi; bracteolis paucis orbicularibus coriaceis 2 mm. longis margine ciliolatis. Calyx hemisphaericus quinquelobatus laciniis semiorbiculatis. Petala ovata apice rotundata. Stamina 5 inclusa filamentis brevissimis. Ovarium conicum stylis brevissimis stigmati simplice. Capsula oblonga 10 mm. longa 6 mm. in diametro atro-brunnea.

Nom. Jap. Hosoba-mokureishi.

Hab. Loochoo: insula Utchina, Kunchan, Sade (leg. SAKUYA SONOHARA! no. 21, Martio 1921, leg. Z. TASHIRO! 11 Feb. 1924).

Type specimens: in Herb. Bot. Inst. Kyoto Imp. Univ. Japon.

This plant is named in the honour of Mr. SOHICHIRO SAKAGUCHI, formerly a teacher of the Naha Middle School in the island of Utchina. He has greatly assisted me during my botanical explorations to the Loochoo Archipelago in 1923.

**Solenogyne Mikadoi** KOIDZ. Pl. Nov. 1. c. (1928) p. 17. fig.

*Lagenophora Mikadoi* KOIDZ. ibid. p. 17.

Planta perpusilla rupestris fere 3 cm. alta. Folia omnia radicalia 13—20 mm. longa, ambitu spathulata pinnatim quinqueloba supra laxe alba-pilosa, subtus glabra; lobis bijugis omnibus conformibus oblongis obtusis vel rotundatis integris circiter 4 mm. longis; 1 mm. latis; petiolis ad 8 mm. longis versus apicem saepe cum uno lobo praeditis. Scapus 1 vel 3, 2—2,5 cm. longus apice tantum uniflorus dense ciliatus. Caput heterogamum solitarium 1,5 mm. altum 2 mm. latum, involucri phyllis circiter biseriatis, exterioribus obsolete ovatis obtusissimis interioribus obovatis vel late ellipticis apice rotundatis, omnibus extus glabris margine integris vel minute laceratis tenuiter scariosis translucentibusque, dorso uninervis cum nervulis paucis pinnatis. Flores radii ligulati foeminei circiter 8 uniseriati, corollis tubulosis elongatis angustis apice obscuriter denticulatis glabris involucram haud excedentibus, stylis curvatis, ovario fusiforme glabro apice subito brevissime rostellato, stigmatibus brevissimo simplice. Flores disci circiter 3 incomplete hermaphroditi, steriles, corollis campanulatis 4—3-lobis ovario rudimento, stylis brevibus, stigmatibus ramis 2 erectis versus apicem angustis extus papillosis. Achenia leviter compressa fusiformia apice valde subito brevissimeque rostrata (i. e. apice summo tuberculo terminata); pappis deficientibus.

Nom. Jap. Koke-tampopo (S. KAWAGOE).

Type locality: Loochoo: insula Amamiotsima, ad ripas saxosas fluvii Kawauchigawa, inter Kawauchi et Onkachi (leg. Prof. S. KAWAGOE! 17 Juli 1919).

**Euonymus Arakiana** KOIDZ. nov. sp.

Frutex glaberrimus, ramulis junioribus longitudinaliter striato-subangulatis erecto-patentibus lutescentibus, ramis annotinis viridibus striatis, vetustioribus atro-viridibus. Folia decidua membranacea tamen mox chartacea, 3—5 mm. longe petiolata, obovata raro elliptico-vel oblongo-obovata, rarissime elliptica, basi obtusa vel cuneata usque acuta vel rotundata, apice subito breviter sed obtuse acuminatiuscula, acumine usque 9 mm. longa; margine dense incumbenti-serrulata; 5—11 cm. longa, 2—5,5 cm. lata, supra atro-viridia, subtus manifeste pallidiora; costa media supra acutius subtus obtusius prominula; nervis lateralibus utrin-

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que circiter 5—7 tenuibus, sursum arcuatis supra tenuissime prominulis subtus pallide distinctis. Inflorescentia in parte ramulorum inferiore aphylla, plerumque geminata pauciflora, pedunculo obsolete quadrangulari tenui 2,5—3,0 cm. longo rarius brevioribus insidentes, semel vel plerumque bis dichotome furcatae; axibus intermediis manifestis et pedicelli 5—6 mm. longis tenuibus; floribus tetrameris 7—8 mm. in diametro flavidis. Sepala semiorbicularia margine sub lente minute lacerata. Petala flabelliformi-suborbicularia e basi tenue unguiculata. Stamina supra discum crassiusculum explanatum 4-lobum in ejus lobis inserta, filamentis fere obsolete, antheris ideo subsessilibus luteis subglobosis. Ovarium disco insidentia breviter conicum stylo brevissimo stigmatibus punctiforme. Capsula 4-partita, loculi plerumque 2 evoluti, valvae tenue coriaceae, post dehiscendum complicatae atro-purpureae. Semen fuscum arillo miniato totum involutum.

Nom. Jap. Sogai-komayumi.

Type locality: Nippon, prov. Tamba: Amadagun, mt. Kannamiyama prope Fukuchiyama (Fl. 16 majo 1928; Fr. 20 Novembri 1927. leg. YEIICHI ARAKI! 荒木英一氏採集).

Ranges: Prov. Tango, mt. Awobayama; prov. Ohmi, mt. Hirasan.

**Prunus** (Sargentiella) **superflua** KOIDZ. nov. sp.

Arbor ramulis novellis glabris, vetustioribus cinereis vel fuscis. Stipulae angustissime lineares 9 mm. longae glanduloso-fimbriatae caducae. Petioli 18—23 mm. longi, glabri supra angustissime canaliculati, glandulis 2 apicem versus inserti. Lamina lanceolata 6—11 cm. longa, 2,3—3,8 cm. lata, sensim acuminata, e basi obtusa vel subrotundata, argute raro hinc inde duplicato-serrata, dentibus subito aristatis glandula punctiformi vel subcapitata terminatis, glabra, subtus obsolete subglaucina, nervis utrinsecus circiter 11—13, demum papyracea. Inflorescentia valde floribunda, subumbellata 3—4-flora basi involuata, pedunculis circ. 5 mm. longis glabris, bracteolis cuneato-obovatis, floribus albis 28 mm. in diametro valde fragrantibus foliis subcoctaneis. Cupula circiter 5 mm. longa e basi acuta anguste tubulosa sursum subdilatata glabra. Sepala patentia longe lanceolata glabra integra 5—6 mm. longa. Petala obovata circ. 13 mm. longa 8—11 mm. lata bilobo-emarginata. Pistillum glabrum.

Nom. Jap. Nagabayamasacra.

Type locality: Japonia, Kyusiu: prov. Chikuzen, Asakuragun, oppidulum Akitsukimachi. (Fl. April 15, 1932, leg. Y. NABESHIMA! Fol. leg. G. KOIDZUMI! majo 17, 1932).

Ranges: Akitsukimachi, mt. Koshozan.

**Salix Arakiana** KOIDZ. nov. sp.

Arbor ramulis hornotinis sericeo-pubescentibus fuscis vel flavidis. Folia subchartacea inferiora minora oblonga vel oblongo-spathulata, superiora elongata lanceolata, basi acuta vel obtusiora apice breviter acutata, inferiora obtusiora vel subrotundata subito mucronato-producta 2,5—4,0—7,5 cm. longa 11—18—32 mm. lata, superiora 8,5—12 cm. longa 22—32 mm. lata, supra opaca novella molliter puberula dein costis mediis fere planis exceptis glabrescentia, subtus tomento dense adpresso incano oblecta, costa nervisque lateralibus prominentibus, margine distincte et remote subcrenato-denticulata. Petioli 1—10 mm. longi superne basi dilata excepta convexi vel planis omnino tomentelli. Stipulae amplae foliaceae semiovatae acuminatae denticulatae dense pilosae. Amenta tantum feminea visa, in axillis foliorum praecedentium sessilia, basi nuda vel foliis parvis bracteiformibus 1 vel 2 suffulta, cylindrica, 2—2,5 cm. longa, 9 mm. lata, densiflora, rachi villosa. Ovaria lanceolato-ovoidea sericeo-tomentosa in stylum distinctum apice longe bifidum ovario fere aequilongum producta, pedicello brevissimo sed distincto glabro vel sparse piloso suffulta, stigmatibus clavatis apice capitellatis. Bracteolae ovatae obtusae discolores utrinque pilis longis sericeis dense praeditae. Glandula una ventralis satis parva ovata subtruncata pedicello subduplo longior.

Nom. Jap. Nagaha-no-nekoyanagi.

Hab. Nippon, prov. Tamba: Kasagun, Katomura, mt. Karasugadake, (Fl. Aprili 3, 1931; Fol. Junio 8, 1930. leg. YENCHI ARAKI! 荒木英一氏採集).

**Viburnum (Odontotinus) sikokianum** KOIDZ. nov. sp.

Frutex ramulis junioribus densissime stellato-pilosis et hispidis tertio anno glabrescentibus brunneo-atratis. Folia breviter petiolata membranacea ovata vel obovata, obtusa, basi rotundata vel subtruncato-rotundata, obscuriter remote denticulata, 3—6 cm. longa, 2—4 cm. lata, utrinque pilis stellatis dense conspersa, supra opaca, subtus pallida, utrinsecus venis 6—7 in dentes exeuntibus; petiolis 2—3 mm. longis dense albo-stellato-pubescentibus et laxe hispidis; stipulis brevissimis. Corymbus 3—4 cm in diametro, radiis 4—5 minute stellato-tomentosis et hispidis; floribus parvis pedunculis pedicellisque stellato-puberulis; ovariis stellatopuberulis, calyce et corolla extus laxe stellato-pilosis.

Hab. Japonia, Sikoku: prov. Iyo, Nishi-uwagun, Futaiwamura, mt. Sazayedake (lg. K. YAMASHITA! 28, Junio 1925); Higashi-uwagun, Unomachi, Uwafujiyama (lg. Z. TASHIRO! 13, Augusto 1924).

(to be continued)