

Contributiones ad Cognitionem Florae Asiae Orientalis

東亞植物考察

(continued from vol. IV. p. 174.)

by

Geniti KOIDZUMI

Alsophila denticulata BAKER, in Jour. Bot. XXIII (1885) p. 102; et Annal. Bot. V. no. 18 (1890) p. 120;—HENRY in Trans. Asiat. Soc. Jap. XXIV. suppl. p. 109 (1896);—MATSUM. et HAYATA, Enum. Pl. Formos. (1906) p. 571;—NAKAI in Tok. Bot. Mag. 41 (1927) p. 74.

Dryopteris denticulata (non O. KUNTZE) HAYATA, Icon. Pl. Formos. VI (1917) p. 101.

Cyathea Hancockii COPELAND, in Phil. Jour. Sci. (1909) p. 37, (quoad Plant. ex Formosa).

Dryopteris Hancockii (COPEL.) NAKAI, in Tok. Bot. Mag. 41 (1927) p. 74.

Alsophila acaulis MAKINO, in Tok. Bot. Mag. XXVIII (1914) p. 335;—NAKAI in Tok. Bot. Mag. 41 (1927) p. 70.

The frond 70–90 cm. long, lamina bipinnate lanceolate in outline; the pinnae alternate; petiols and rachis deep brown polished, densely covered with long brown or fuscous scales at the base; the rachis very laxely clothed with hair-like scales; the rachis of the pinnae pubescent or scaled beneath; the lamina rather densely covered with scales on the veins beneath; costae of the pinnae pubescent above; the sporangium seems to be sessil.

Nom. Jap. *Kusa-maruhachi*

Distr. South China: Tai-mo-shan (lg. MATHEW!); Loochoo: insl. Utchina, insl. Amami-ohsima, insl. Yakushima; insl. Irumti; Sikok: prov. Tosa, Hatagunn, Yatsukamura, Yamaji; Honto; prov. Kii, Higasi-murogunn, Shingu, Kitamurogun Aigamura, Tayoriyama.

Alsophila pustulosa CHRIST, in Bull. Herb. Boiss. 2 ser. I (1901) p. 1019;—NAKAI in Tok. Bot. Mag. 41 (1927) p. 73.

Alsophila tomentosa HOOK. (pro parte, quoad plant. ex Formosa,) in Sp.

Filic. I. (1846) p. 55;—et Synop. Filic. ed. 1, (1868) p. 42.

Alsophila latebrosa (non WALL.) HENRY in Trans. Asiat. Soc. Jap. XXIV (1896) suppl. p. 109;—CHRIST in Bull. Herb. Boiss. 2 ser. IV (1904) p. 617;—MATSUM. et HAYATA. Enum. Pl. Formos. (1906) p. 571;—OGURA in Tok. Bot. Mag. 40 (1926) p. 401, et in Jour. Fac. Sci. Imp. Univ. Tokyo, Bot. vol. I. no. 2 (1927) p. 280;—MAKINO in MAKINO Jour. Jap. Bot. vol. V. no. 7, t. 5. (?)

Alsophila contaminans (non WALL.) CHRIST in WARBURG Monsunia I. (1900) p. 89;—MATSUM. et HAYATA, l. c. 57

Cyathea pustulosa COPEL. in Phil. Jour. Sci. (1909) p. 51.

Alsophila Fauriei (non CHRIST) NAKAI in Tok. Bot. Mag. 41 (1927) p. 72.

Caudex erect attains 2–4 meters in high, the lower half 9 cm. in diameter, densely covered with adventive roots; the upper 12 cm. in diameter, with peculiar leafscars, and shaggy tomentose with copious large scales; the frond 2,5 meters long, stipes have its $\frac{1}{4}$ length, stout, straw-coloured, muricate, its base covered with a dense mass of large pale scales, edge of scales with fuscous setae; Rachis as stipes always hairly on the upper grooves, young stipes and rachis laxely clothed with narrow long scales with fuscous setae on edges, and densely covered with white small squamae lacerated on the margin, but glabrate when mature.

Nom. Jap. *Ayahego*

Distr. Formosa, Loochoo: insl. Utchina, insl. Amamiohsima.

Cyathea Fauriei (CHRIST) COPELAND, Phil. Jour. Sci. IV (1909) p. 60.

Alsophila Fauriei CHRIST, in Bull. Herb. Boiss. (1901) p. 1019.

Cyathea spinulosa (non WALL.) HOOK. et BAKER, Syn. Filic. (1874) p. 23, pro parte;—YABE in Tok. Bot. Mag. XVI (1906) p. 47;—MATSUM. et HAYATA, Enum. Pl. Formos. (1906) p. 570;—HAYATA in Tok. Bot. Mag. XXXIX (1925) p. 147;—OGURA, in Tok. Bot. Mag. XXXIX (1925) p. 1, et XI. (1926) p. 307;

Cyathea taiwaniana NAKAI in Tok. Bot. Mag. XLI (1927) p. 68.

Nom. Jap. *Hego*

Distr. Formosa; Loochoo: insl. Yonakunisima, Irumti, Isigaki, Miyako, Utchina, Tokunosima Amamiohsima, Yakusima. Tanegasima; Kyusiu: prov. Ohsumi, Kimotsukigun, Sadamura, Konejimemura, Tashimura, et Uchimiuramura; prov. Satsuma, Kawanabegun, Nishikasedamura, Koshikijima; prov. Hizenn, Minamimatsuuragun, Tamamiuramura, et insl. Hukuye-nakashima. Honto: prov. Izu, insl. Hachijo-shima.

Hosta lancifolia (THUNB.) ENGL. var. ***angustifolia*** (GAERDT.) m

Hosta japonica var. *angustifolia* GAERDT. in WREDOW's Gartenfreund 17 aufl. (1886) s. 448.—ASCHERS. et GRAEBN. Syn. Mitteleurop. Fl. III s. 55. (1905)

Hosta japonica var. *longifolia* HONDA, in Tok. Bot. Mag. 44 (1930) p. 410.

Nom. Jap. *Hosoba-mizugiboshi*

Distr. Nippon: prov. Aki, prov. Settsu.

Hosta cucullata (SIEB.) m

Funkia cucullata SIEB. ex MIQUEL in Verh. Mededeel. Koninkl. Akad. Wetenschapp. Afdde. Nat. Ser. 2, vol. III. (1869) p. 304.

Funkia glauca SIEB. var. *cucullata* MIQUEL, l. c. 304.

Funkia Fortunei BAKER, in Gard. Chr. n. s. VI (1876) p. 36 ;—STEARN in Gard. Chr. 2 ser. vol. 90 (1931) p. 88.

Hosta Sieboldiana var. *Fortunei* GAERDT. in WREDOW's Gartenfr. 17 aufl. (1886) s. 448 ;—ASCHERS. et GRAEBN. Syn. Mittel. Europ. Fl. III (1905) p. 54.

Hosta Fortunei BAILY in Stand. Cyclop. Hort. p. 1604 (1905) et Gent. Herb. II. 3 (1930) p. 135. fig. 75.

Niobe Fortunei NASH in Torreya XI (1911) p. 7.

Nom. Jap. *Ohba-giboshi*, *Giboshi*.

Distr. Nippon: prov. Izu, Yechizenn, Wakasa, Tango, Higo et Bungo.

var. **gigantea** (R. de NOTRE) m

Funkia gigantea R. de NOTRE, apd. BAILY Gent. Herb. II (1930) p. 137.

Funkia gigantea Hortus ex R. de NOTRE in Rev. Hort. (1905) p. 391.

Hosta Fortunei var. *gigantea* BAILY in Stand. Cyclop. Hort. (1915) p. 1604 et Gen. Herb. II. 3, p. 137, fig. 67 c, 76 ;—STEARN in Gard. Chr. 3 ser. 90 (1931) p. 88.

Hosta gigantea (R. de NOTRE) KOIDZ.

Nom. Jap. *Togiboshi*

Distr. Nippon: prov. Shimozuke, prope Ose; prov. Tamba, mt. Muroyama et Oyeyama; prov. Bungo, Tsukumitoge, prov. Higo, Ichibusayama, prov. Ohsumi, Kirishimayama.

Hosta viridis (SIEB.) m

Funkia viridis SIEB. ex MIQUEL in Versl. Mededeel. Koninkl. Akad. Wetenschapp. Afdde. Nat. ser. 2, vol. III (1869) p. 301.

Funkia Sieboldiana (non HOOK.) MIQUEL in ibid. p. 301. (excl. Syn. LINDL.)

Hosta japonica var. *fortis* BAILY in Gent. Herb. II. 3 (1930) p. 132.

Hosta lancifolia var. *fortis* STEARN in Gard. Chr. 3 ser. 90 (1931) p. 48.

Nom. Jap. *Oh-sajigiboshi*.

Hab. Japonia.

Hosta (Alcyone) sachalinensis KOIDZ. nov. sp.

Species nova *Hosta erromena* STBARN, affinis sed foliis oblongis ad petiolum valde late alato-decurrentibus, petiolis elongatis, scapo l-metrali.

Planta glaberrima 70 cm.—l-metralis alta. Radix perennis. Folia omnia radicalia recta; lamina oblonga crasse membranacea integerrima apice subito mucronato-acuta, 15–22 cm. longa, 7–11 cm. lata, basi ad petiolum subito cuneato-decurrentia, utrinque viridia, venis utraque latere 7–9; petiolis 30–50 cm. longis Scapus 70 cm.—l-metralis teres robustus, bracteis 2 foliaceis scariosis, rarius foliis 1–2 praeditis; racemis multifloris, floribus violaceis 4–5 cm. longis, pedicellis 10–15 mm. longis cernuis, bracteolis persistentibus demum marcescentibus.

Nom. Jap. *Yezo-giboshi*

Hab. Sachalin: Vladimirofka (lg. FAURIE no. 348.), Sakayehama (lg. Ipse)

Ranges: Yezo: prov. Ishikari, Horomui, Kuril: Yetrof.

Mallotus japonica (THUNB.) MUEL-ARG. var. **angustata** KOIDZ. nov. var.

Folia ovato-lanceolata leviter triloba, lobis medeis longe atteunatis, vel haud triloba sed grosse undulata vel repanda apice longe caudato-attenuata.

Nom. Jap. *Nagaha-akamegashiwa*

Hab. Nippon: prov. Izumo (lg. HAYASHI MINOR)

Gymnocarpium jessoense KOIDZ. nom. nov.

Dryopteris jessoensis KOIDZ. in Tok. Bot. Mag. XXXVIII (1924) p. 104.

Nom. Jap. *Iwa-usagishida*

Hab. Yezo.

Kerria japonica DC. var. **pleniflora** WITTE, in Fl. Nederl. Tuin. (1868)

p. 261. t. 66.

K. japonica var. *plena* MAKINO in Tok. Bot. Mag. XXVIII (1913) p. 185.

Nom. Jap. *Yayeyamabuki*

Selaginella Satakeana KOIDZ. nom. nov.

S. stenostachya HAYATA in Icon. Pl. Formos. IV (1914) p. 129, fig; et VII. p. 102, fig. (non WARBURG).

Selaginella Hayatana SATAKE (non KUMMER. 1927) in Tok. Bot. Mag. 48 (1934) p. 261.

Nom. Jap. *Hosoba-katahiba*

Hab. Formosa.

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Paederia chinensis HANCE. var. **maritima** KOIDZ. nov. var.

Folia crassa lucida

Nom. Jap. *Hama-saotome-kadsira*

Hab. ad maritimam Japoniae: Bonin, Kii, Tosa, Chikuzen, Yakushima.

Salix pulverea KOIDZ. nov. sp.

Salix vulpina var. *subalpina* KOIDZ. in Tok. Bot. Mag. XXVIII (1914) p. 285.

Frutex dumosus copiose ramosus, ramulis novellis pilis villosis atque ferrugineis laxè obductis. Folia elliptica vel oblonga acuta vel obtusa inequaliter crenato-serrata, juniora supra albo-pulverea tomentosa subtus albo-atque ferrugineotomentosa, pilis utrinque mox deciduis; carpella puberula.

Nom. Jap. *Usugesho-yanagi*

Hab. Nippon: prov. Ugo. Chokaisan, prov. Uzenn, mt. Gas-san; prov. Yettsiu mt. Shodsutake.

Ilex macropoda MIQUEL var. **stenophylla** KOIDZ. nov. var.

Folia oblonga utrinque acutata.

Nom. Jap. *Hosoba-arwahada*

Hab. Nippon: prov. Tamba, Takigun, Imadamura, Wadadera-yama (lg. Y. ARAKI)

Aruncus tomentosus KOIDZ. nom. nov.

Ar. sylvester KOSTEL. var. *tomentosus* KOIDZ. in Bot. Mag. Tokyo, XXiii (1909) p. 167, et in Consp. Rosac. Japon. (1913) p. 28.

Ar. kamtschaticus RYDBG. var. *tomentosus* MIYAB. et TATEW. in Trans. Nat. Hist. Soc. Sapporo, XIV (1935) p. 6.

Nom. Jap. *Oniyamabukishoma*

Distr. Yesso.

Planta valde elata robusta foliis tomentosis, panicula ampla floribus minutis.

Aruncus kyusianus KOIDZ. nov. sp.

Planta 60-70 cm alta, rhizomatibus oblique ascendentibus lignosis brevibus fuscis radicanibus. Caulis glaber simplex badio-fuscus inferne vix teres vel subangulatus, superne sulcatus, basi oblique ascendens, erectus, basin versus foliis approximatis 5-phyllus, superne foliis remotis 2-3-phyllus. Folia inferiora valde elongato-petiolata, petiolis glabris sulcatis a latere canaliculatis, basi vaginato-dilatatis, infimis et sequentisque brevibus ceteris elongatis; lamina circumscriptione late deltoidea petiolo equilonga triternata;

rhachidibus laevibus fuscis leviter sulcatis. Foliola terminalia subrhombico-lanceolata basi cuneata, lateralia lanceolato-ovata basi oblique rotundata, omnia apice acuminata, incisolobulata, membranacea, supra puberula, infra glabra, 17–55 mm longa, 8–22 mm lata, sessilia vel breve petiolulata; laciniis argutis tantum externe iterum incisus apice argutis. Infructescentia terminalis et axillaris, e racemis erecto-patentibus vel cernuis 4–9 cm longis composita, rachidibus pedicellisque gilvo-puberulis, pedicellis mox pendulis. Folliculi 3 maturi 3,5 mm longi, lineari-oblongi lucidi, stylo infra-apicali, calyce persistente patellari fulti.

Nom. Jap. *Kobano-yamabukishoma*

Hab. Japonia: Kyusiu, insula Yakushima (lg. M. TAGAWA! no. 1938. Aug. 17, 1933.)

Arundinaria Hukudana Koidz. nov. sp.

Speies nova *Arundinaria trichophila* Koidz. et *A. velutina* Nakai affinis, sed a praecedente foliis subtus viridibus, nodo glabro, vagina infra medium sed praecipue versus basin laxe patenter hirsutis; etiam a postica foliis laxius pilosis, internodio pilosulo, vagina prope basin hirsutisque differt.

Culmo retrorso-pilosulo, nodo glabro, vagina prope basin laxe hirsuta, foliis supra laxe infra densius pilosis, vaginulis glabris.

Culmus 2-metralis internodio dense retrorso-pilosulo, nodo glabro, vagina culmi cinerea appendiculata vel nuda margine glabra facie infra medium sed praecipue versus basin laxe patenter hirsuta, inferiora saepe glaberrima. Folia membranacea utrinque viridia, supra laxe infra densius pilosa, margine tenue setulifera, lanceolato-linearia subito acuminata, basi late cuneata usque truncato-cordata, 11–24 cm longa, 2,3–4,4 cm lata; folia infima ovata vel ovato-lanceolata abbreviata; petiolis 7–10 mm longis obcuneatis utrinque pilosulis; ligula brevissime truncata; vaginula margine tantum laxe ciliolata; setae orales deciduae.

Nom. Jap. *Iwate-shino*

Hab. Japonia: prov. Rikuchiu: Morioka (lg. YUTAKA HUKUDA, 27, Aug. 1935. no. 724.)

Salix sect. **Sieboldianae** v. SEEMEN.

Clavis Specierum

- * Folia lanceolato-oblonga acuminata crenato-serrata *Salix Sieboldiana*.
- * Folia oblongo-elliptica vel oblong-obovata
 - § Folia crenata glabra *Salix Buergeriana*.
 - § Folia argute incurvi-serrata vel remote crenato-serrulata, pilis persistentioribus *Salix Harmsiana*.

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- * Flos foemineus: nectaria cylindrico-elongata, bracteis oblongis toto coloratis, stylis elongatis *Salix Buergeriana*.
 - * Flos foemineus: nectaria ovoidea parva, bracteis apice coloratis, stylis brevibus
 - § Ovaria valde elongato-stipitata *Salix Sieboldiana*.
 - § Ovaria stipite nectario equilongo..... *Salix Harmsiana*.
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- * Flos masculinus: nectaria cylindrico-elongata, bracteolis toto coloratis, staminibus solitariis vel 2 *Salix Buergeriana*.
 - * Flos masculinus: nectaria ovoidea bracteis apice coloratis
 - § Stamina 1, bracteolis breviter sordideque villosis
..... *Salix Harmsiana*.
 - § Stamen unicum vel 2, (interdum filamentis connatis), bracteolis candidis copiosissimis elongatissimis obtectis.....
..... *Salix Sieboldiana*.
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- * Amenta foeminea: 2,5 cm longa, ovariis confertiissimis ita bracteolis toto indistinctis *Salix Sieboldiana*.
 - * Amenta foeminea: bracteolis apice coloratis in florendem manifeste distinctis
 - § Amenta 2-2,5 cm longa..... *Salix Harmsiana*.
 - § Amenta 3-4 cm longa *Salix Buergeriana*.
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- * Amenta masculina 3-3,5 cm longa, 8 mm crassa, bracteolis pilis candidis longissimis densissimisque sese invisem obtectibus.....
..... *Salix Sieboldiana*.
- * Amenta masculina: bracteola pilis brevibus gilvis vel ferrugineis paucioribus vestita, ita bracteolis coloratis in florendem valde distincta
 - § Amenta 2,5-3 cm lg. 8 mm crassa..... *Salix Harmsiana*.
 - § Amenta 4-7 cm lg. 4 mm crassa..... *Salix Buergeriana*.

Salix Sieboldiana BLUME, Bijdragen X (1825) p. 517.

BLUME's Type: Hb. Mus. Bot. Lugd-Batv. No. 908, 210-462. (2 male branches, lg. ZIPPEL, in Hort. Bogoriensi culta.)

No. 908, 210-381. (an apical portion of leafy shoot; 2 male flowering branches; 2 adult leaves, lg. ZIPPEL, in ibidem culta.)

No. 908, 210-401. (a leafy branch and a strong leafy shoot, lg. ZIPPEL,

in ibidem culta.)

No. 908, 210-391. (a male flowering branch, and buds bearing branch, lg. ZIPPPEL, in ibidem culta.)

These 4 specimens in one set, are all collected by ZIPPPEL from the same stock, which was introduced from Japan and cultivated in the Buitenzorg Botanic Gardens in Java; BLUME has given his hand writing on the label of the specimen No. 908, 210-462., but apparently this means the same for all these specimens.

Subtype: No. 901, 212-438. (a female catkin bearing branch, and 3 male catkins bearing branch; but *excluding* 3 female catkin bearing branch and one male catkin bearing branch, these are *Salix Harmsiana*. lg. SIEBOLD, in Hort. Bogoriensi culta.)

No. 901, 212-436. (6 male catkin bearing branch, lg. SIEBOLD, culta in ibidem, but *excl.* a male catkin bearing br. which is *Salix Harmsiana*.)

Frutex vel arbusculus ramis atro-brunneis nitidiulis. Folia lanceolato-oblonga apice breviter acuminata basi rotundata, supra nitidiuscula infra glauca, coriacea glabra vel costa media tantum supra minute albo-lanuginosa; venis secundariis curvato-ascendentibus; petiolis glabris raro plus minus molliter albo-lanuginosis, 1-1,5 cm raro ad 2 cm longis. Amenta masculina 3-3,5 cm longa, 7 mm crassa, breviter pedunculata, densissime florifera; flos masculinus stamen unicum vel 2, filamentis basi puberulis, (interdum parce vel toto connatis?), glandula una ventralis ovoidea; bracteolis ovatis obtusis versus apicem atro-brunneis facie pilis longissimis sordidis non ferrugineis dense obtectis. Amenta foeminea 3 cm longa 6 mm crassa, densiflora, breviter pedunculata, floribus confertissimis squamis toto obtegentibus. Flos foemineus: ovaria ovoideo-oblonga longe stipitata, cano-tomentosa, stylis brevibus glabris, stigmatibus bilobis, stipite ad $\frac{3}{4}$ ovarii longitudine attingente dense cano-villoso; glandula una ventralis ovoidea parva; bracteolis ovatis obtusis praeter partem coloratum extus glabrum utrinque sericeovillosis. Amenta foliis praecocis pedunculis cano-tomentosis, bracteolis pilis longissimis valde copiosissimis sese invisem obtegentibus. Folia 6,5 cm longa et 2,5 cm lata, vel 8,5 cm longa et 3,5 cm lata, innovationis robustioris 13 cm longis et 4 cm latis cum stipulis foliaceis semifalcatis serratis: foliis brachycladi juventute utrinque albo-villosis superioribus nonnullis saepe subferrugineo-villosis, pilis omnibus longis adpresis cito evanidis.

Nom. Jap. *Yama-yanagi*

Hab. e Japonia ad hortum Bogoriensem allata.

Distr. Japonia: Kyusiu,

OTTO VON SEEMEN was the first who has given the correct diagnosis and figures of the flowers of this species in his *Salices Japonicae* in 1903; the description of flowers by N. J. ANDERSON (in Kongl. Sv. Vet. Akad. Handl. VI. nr. 1, 1865 p. 81, t. 5, fig. 47,; et in DC. Prodr. XVI, 2. p. 224, no. 40, 1868.), and by F. A. W. MIQUEL (in Annal. Mus. Bot. Lugd.-Batav. III. 1867. p. 28.) are all erroneous observations.

Salix Buergeriana MIQUEL, in Annal. Mus. Bot. Lugd.-Batav. III. 1867. p. 28.

Frutex vel arbusculus ramis badio-lutescentibus vel atro-brunneis nitidiulis glabris, ramulis novellis plus minus albo-villosis mox glabris. Folia juniora adpresse albo-villosissima, nonnullis supremis saepe ferrugineo-villosissimis mox glabris vel tantum costa media supra vel etiam subtus minute cano-tomentellis; omnia supra nitidiula infra glauca, subrhombico-oblonga vel subrhombico-obovata interdum late elliptica acuta basi obtusa, nervis secundariis curvato-ascendentibus, margine serrato-crenata serris valde incurvis; petiolis mox glabris. Amenta foeminea 3-3,5 cm longa, 5 mm crassa gracile angusta, pedunculis 4 mm longis dense albo-villosis, squamis oblongis obtusis coloratis in florem facile distinctis. Flos foemineus ovaria oblongo-ovoidea dense albo-villosa longius stipitata, stylis longis nudis, stigmatibus bilobis, stipite albo-villoso, nectaria una ventralis cylindrica elongata, squamis toto coloratis utrinque gilvo-pubescentibus sed extus versus apicem glabris. Amenta masculina gracile angustata 6-7,5 cm longa, 4 mm crassa, pedunculis 5-7 mm longis gilvo-tomentosis, in florem squamis coloratis manifeste distinctis. Flos masculinus stamina 2 vel 1, filamentis elongatis basi pilosis, nectaria una ventralis elongata cylindrica, squamis toto coloratis utrinque gilvo-villosis sed extus antice glabris. Infructescentia 6-8 cm longa, capsula laxe puberula squamis gilvo-tomentosis.

Nom. Jap. *Nagahono-yamayanagi*

Types Japonia: Kyusiu, Mus. Bot. Lugd.-Batav., No. 901. 212-404; No. 908. 207-409; No. 901. 212-401, (excl. 2 specim. recto, quae *S. Harmsiana* ist.)

Salix Harmsiana v. SEEMEN, *Salices Japonicae*, 1903. s. 73, 80.

Frutex vel arbusculus ramis ramulisque praecedente affinis; foliis oblongis ellipticis vel late ellipticis interdum obovato-ellipticis, apice acutatis vel acutis, margine argute incurvi-serratis vel remote crenato-serratis, pilis utrinque persistentibus. Amenta foeminea usque ad 27 mm longa, 5 mm crassa, brevissime pedunculata, squamis coloratis extus glabris

in florendem manifeste distinctis. Flos foemineus ovaria oblongoovoidea dense albo-villosa, stylis brevibus nudis, stigmatibus bilobis, stipitibus brevibus dense albo-villosis, nectaria una ventralis ovoidea stipitem fere equilonga; squamis ovatis obtusis utrinque sordide villosis, extus versus apicem coloratis glabris. Amenta masculina usque ad 4 mm longa, 6 mm crassa, pedunculis 5-7 mm longis dense sordide villosis. Flos masculinus stamen unicum, filamentis basi pilosis, nectaria una ventralis ovoidea, squamis ovatis obtusis extus antice coloratis glabrisque, ceteris utrinque vilvo-villosis in florendem manifeste distinctis.

Nom. Jap. *Tsukusi-yamayana*

Types Japonia; Kyusiu, Nagasaki, lg. OLDHAM in anno 1862, no. 551. (in Herb. Mus. Bot. Lugd.-Batav. No. 901. 212-422, (excl. foliis))

Sasa (Eusasa) imatophylla KOIDZ nov. sp.

Sasa membranacea MAKINO affinis sed foliis longe oblongo-linearibus.

Culmus 1-metralis simplex; internodio 4 cm crasso retrorso-pilosulo; nodo dense piloso; vagina cinerea nuda pilosellis retrorsis tomentella atque patentim pubescentia. Folia 7-9-gerentia, membranacea vel subchartacea, supra glabra, infra glaucina praecipue ad costas antrorsum pilosa; folia inferiora oblonga 20 cm longa, 4,8 cm lata, superiora oblongo-linearia 25-30 cm longa, 5-6 cm lata, suprema linearia 29 cm longa 4,2 cm lata, omnia apice subito acuminata, basi rotundata usque late cuneata, margine setulosa; petiolis 10-20 mm longis obcuneatis supra basin pilosis dorso glabris; ligula semirobundata 3 mm alta dorso minutissime puberula; vaginula pallide viridia minute pilosula multi-sulcata margine superne fimbriata; setae orales male evolutae.

Nom. Jap. *Nagabano-usubasasa*

Hab. Japonia: prov. Yetsigo, Karihagun, Naigomura, Betsuyama, Utsinokoshi (lg. K. TANAHASHI! 17, Oct. 1935.)

Sasa (Eusasa) Tanahashiana KOIDZ. nov. sp.

Species nova *Sasa villosa* NAKAI et *Sasa heterotricha* KOIDZ. affinis, sed differt e antica nodo vix inflato foliis glabris, a postica culmo magis dense puberulo folii vaginula velutia atque patenter denseque hirsuta recedit.

Culmus simplex 60-70 cm altus, internodio piloso-tomentoso, nodo hirsuto-tomentoso vix inflato; vagina inappediculata velutina atque patenter denseque hirsuta. Folia ad apicem culmi 7 gerentia, infima ovato-oblonga vel ovata 9-15 cm longa, 4-5,5 cm lata, terminalia linearia angustiora 21-25 cm longa, 4-4,5 cm lata, cetera lineari-oblonga 23-27 cm longa, 4,7-7 cm lata, chartacea glabra, sed utrinque prope basin passim hirtella, basi rotundata, apice subito acuminata, subtus vix glaucina, margine setulifera; petiolis late obcuneatis 7-13 mm longis utrinque minute puberulis et supra

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vix albo-pruinosis; ligula truncata pubescentia; vaginula in culmi vaginam sat similis; setae orales radiatae scabrae persistentes.

Nom. Jap. *Tanahashisasa*

Hab. Japonia: prov. Yetsigo, Karihagun, Betsuyama, Ushiro-dani (lg. K. TANAHASHI! 27, Oct. 1935.)

Deutzia Nakaii ENGL. in ENGL. et PRANTL. Nat. Pfl. Fam. ed. 2, XVIII, a, (1930) s. 197.

D. floribunda (NON LEMOIN) NAKAI in Tok. Bot. Mag. XXXV (1921) p. 86.

var. **pubescens** KOIDZ. nom. nov.

D. floribunda var. *pubescens* KOIDZ. in Tok. Bot. Mag. 43 (1929) p. 399.

Nom. Jap. *Ko-utsugi*

Hab. Japonia: prov. Yamato.

Meehania urticaefolia (MIQ.) MAKINO var. **dentata** KOIDZ. nov. var.

Folia profundius cordata grosse acute dentata, cymis paucifloris pedunculatis, calyce intense purpureis.

Nom. Jap. *Nambu-rashomonkadsura*

Hab. Japonia: prov. Rikuchiu, Iwategun, Yanagawamura (lg. S. YUKINOURA! 10 Majo 1935.)

Orthodon (Eumosla) **tenuicaule** KOIDZ nov. sp.

Annua. Caulis cum inflorescentia 30–60 cm altus viridis, e basi et ad nodum omnium ramosus retrorso-puberulus, interdum diffusus; ramis patentibus versus apicem sensim ascendentibus retrorsum albo-puberulis, ramis infimis decumbentibus vel prostratis radicantibus. Folia ovata apice acuta usque longe acutata, basi cuneata usque obtusa, tenue membranacea, utrinque albo-puberula, infra glanduloso-foveolata, dentato-serrata basi integra plus minus ad petiolum attenuata; folia caulina major 3,5–4,5 cm longa, 2–2,3 cm lata, longius (ad 3 cm long) petiolata; folia ramea minor brevius petiolata; petiollis albo-pilosis. Racemi terminalis vel axillares simplices, 2–6,5 cm longi pauci—pluriflorati, rachidibus albo-puberulis et glanduloso-pilosis, floribus oppositis, pedicellis brevibus piloso-tomentosis; bracteolis squamosis minutis recurvis puberulis. Calycis tubus pilis rectis tenuissimis albis catenatis tomentosus et glandulosus; lobis superioribus 3 ovatis acutis fere equilongis, lobis inferioribus 2 subulatis acuminatis fere duplo longioribus, omnibus minutissime puberulis. Corolla 3 mm longa, extus minutissime puberula, lobis utrinque longius pilosis. Nuculae pallide brunneae leviter reticulatae, calyce fructifero piloso.

Nom. Jap. *Hikage-himejiso*

Hab. Japonia: Kyoto, (lg. G. KOIDZUMI, 30, Sept. 1932.)

Sasa stenophylla KOIDZ. nov. sp.

Species nova valde insignis circiter 60 cm alta, ramosissima, foliis lanceolato-linearibus elongatis angustis.

Glabra circiter 60 cm alta. Culmus 2-3 mm crassus, internodio 4,5-6 cm longo, e basi et ad nodum omnium ramosa, ramis erectis, superne copiose iterumque ramosis; nodo haud prominente, vagina cinerea brevis. Folia tenue membranacea infra obscuriter glaucina, lanceolato-linearia sensim acuminatissima, basi obtusa, 10-20 cm longa, 10-20 mm lata, margine minute dense ciliolata; petiolis brevissimis, ligula glabra truncata, vaginula cinerea striata glaberrima; setae orales decideratur.

Nom. Jap. *Saiyoh-sasa*

Hab. Japonia, Kyusiu: prov. Ohsumi, mt. Gozeishodake (lg. H. SAMEJIMA)

Pyrus (Pashia) tobisimensis KOIDZ. nov. sp.

Pyro wayamana KOIDZ. remote affinis sed foliis angustis serraturis angustis.

Arbor ramulis hornotinis molliter gilvo- vel subferrugineo-tomentosis; gemmae ovoideae primum dense gilvo-villosae, perulis apice mucronato-argutis intus tomentosis. Folia oblonga vel lanceolato-oblonga, 9-12 cm longis, 4-6 cm latis, rarius ovata 6,5-8,5 cm longa 3,5-4 cm lata, elliptica 9-10 cm longa 4,5-4,8 cm lata, vel oblongo-lanceolata 10 cm longa et 4 cm lata; membranacea vel crasse membranacea, juventute dense apresserachnoideo-villosa, adulta utrinque praeter costam mediam puberulamfere glabra, subito breviter acuminata, basi rotundata, raro obtusa vel cuneata, margine inequaliter serrata, serraturis subito argute aristatis; petiolis 15-60 mm longis dense villosis mox glabrescentibus. Pomum oblongo-obovoideum luteum, immaturum circiter 4,5 cm longum, apice umbonatum.

Nom. Jap. *Shima-yahazunashi*.

Hab. Nipponia: prov. Uzenn, insula Tobishima (lg. G. KOIDZUMI! 16 Aug. 1927.)

Pyrus (Pashia) Togashiana KOIDZ. nov. sp.

Arbor ramis annotinis glabris; gemmae ovoideae 5 mm longae, perulis intus gilvotomentosis apice mucronato-aristatis. Folia adulta glabra ovalia usque oblongoovata interdum oblongo-lanceolata, subito breviter producta, basi rotundata, 5,5-11 cm longa, 3,8-6 cm lata, crasse membranacea vel subchartacea, supra atro-viridia infra pallide viridia margine serrulato-crenulata, crenis subito apresse argutis; petiolis glabris gracile elongatis. Pomum obovoideum luteum basi cuneatum vertice depressum et umbonatum,

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distincte albo-variolum, 2-3 cm longum, plerumque geminatum; pedunculis 3-4 cm longis rectis valde rigidis carnosis.

Nom. Jap. *Heso-yahazu-nashi*

Hab. Japonia: prov. Rikuchiu, Iwategun, Yanagawamura, Kuzakai (lg. S. YUKINOURA! 24, Oct. 1935. no. 10 bis.)

Species dicata in honorem Prof. KOGO TOGASHI.

***Pyrus* (*Pashia*) *tungusiana* KOIDZ. nov. sp.**

Pyrus ligoensi KOIDZ. remote affinis, foliis basi truncatis, floribus foliis junioribusque subferrugineo-villosis sat dissimilis.

Arbor ramis glabris, ramulis nascentibus gilvo-villosis cito glabrescentibus; gemmae ovoideae 5-10 mm longae pallide gilvo-lanuginosae, perulis apice mucronato-argutis. Folia nascentia supra cito fere glabrescentia, infra dense gilvo-lanuginosa; adulta supra glabra infra ad cistas medias puberula, ovalia vel subdeltoideo-ovalia, rarissime elliptica vel elliptico-ovata, apice subito brevissime producta, basi truncata rarius subtruncato-rotundata, rarissime rotundata, subchartacea, 4-9 cm longa, 4-6 cm lata, margine apresse serrulata, serrulis subito arguteque aristatis; petiolis 2,5-5 cm longis nascentibus gilvotomentosis. Umbella pauciflora, pedicellis calyceque extus gilvo- vel subferrugineo-tomentosis, calycis lobis deltoideis cito glabrescentibus; stylis glabris. Pomum globosum brunneum 10-13 mm latum variolum apice umbonatum.

Nom. Jap. *Saakulu-nashi*

Hab. Nipponia: prov. Uzenn, Higashi-okitamagun, Kogoriyama prope oppidulum Takahata, (lg. G. KOIDZUMI, 27, Oct. 1933; Fl. Fr. lg. C. ISHIGURO! 3, Majo et 29, Oct. 1935.)

***Pyrus* (*Achras*) *oncocarpa* KOIDZ. nov. sp.**

Arbor ramis glabris, ramulis nascentibus subferrugineo-villosis; gemmae ovoideae 5-8 mm longae perulis obtusis intus dense lanuginosis. Folia ovalia vel ovalio-deltoidea acuta raro obtusa, nascentia utrinque plus minus passimque gilvo-lanuginosa, cito laxe puberula et mox supra toto glabra infra ad venas puberula, adulta glabra chartacea basi rotundata et emarginata, rarissime obusa, margine adpresse serrulata, 4-7 cm longa, 3-4 cm lata, serrulis apice subito argutis; petiolis 1-4 cm longis. Umbella pauciflora pedicellis calyceque subferrugineo-villoso-tomentosis cito pilis deciduis; stylis glabris. Pomum globosum brunneum dense albo-variolum circiter 2 cm latum, vertice rotundatum calyce coronatum, basi excavatum; pedicellis 2-3 cm longis crassis rigidis.

Nom. Jap. *Ko-umebanashi*

Hab. Nipponia: prov. Rikuchiu, Iwategun, Yanagawamura, Kuzakai (lg. S. YUKINOURA! fl. 11, Julio 1935, fr. 23, Oct. 1935.)

Pyrus (Achras) invicibilis KORDZ. nov. sp.

Arbor ramis glabris; gemmae ovoideae 4-7 mm longae, obtusae, perulis apice obtusis intus gilvo-pubescentibus. Folia adulta chartacea infra ad costam mediam puberula, cetera glabra, oblonga vel elliptica subito breviter acuminata, basi obtusa, 7-10,5 cm longa, 4-5,5 cm lata, rarius ovata vel rhombeo-oblonga, argute serrata; petiolis gracile elongatis. Pomum globosum ad 2 cm latum brunneum dense albo-variolum, vertice rotundatum calyce coronatum, basi rotundatum, pedicellis rectis rigidis.

Nom. Jap. *Nagaha-sanenashi*

Hab. Nipponia: prov. Rikuchiu, Iwategun, Yanagawamura, Kuzakai (lg. S. YUKINOURA! 16, Jul. 1935; et 23 Oct. 1935. no. 3, 12.)

Microsorium phyllomanes (CHRIST) nom. nov.

Polypodium phyllomanes CHRIST, in Bull. Acad. Int. Geogr. Bot. (1902) p. 210, cum fig.

Polypodium ensatum var. *phyllomanes* METTENIUS, ex CHING in Bull. Fan. Mem. Inst. Biol. IV. p. 111, (1933).

Neocheilopteris phyllomanes CHING, l. c., p. 110.

Nom. Jap. *Hiroha-kurikaran*.

Hab. Kyusiu: prov. Chikuzen, Chikugo, Hizenn.

Distr. India, China centralis et australis.

Asplenium siobarense (CHRIST) nom. nov.

Gymnogramme Fauriei CHRIST, in Bull. Herb. Boiss. II (1902) p. 561.

Anogramme Fauriei C, CHR. Index Filic. (1906) p. 58.

6 to 9 cm. high, frond caespitose, lobes glabrous.

Nom. Jap. *Chabo-iwatoranowo*.

Hab. Nipponia: prov. Shimoduke, Shiobara, (lg. FAURIE, no. 4054, juin 29, 1889.) Herb. BONAPART. Mus. Paris.

(to be Continued)