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Contributions to the Flora of Northern Japan XI

By

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With 3 text figures

191. *Betula Ermani* CHAM.: MIYABE & KUDO, in Journ. Fac. Agr. Hokkaido Imp. Univ. XXVI.-4. (1934), 459.

var. *subglobosa* MIYABE ET TATEWAKI, var. nov.

Rami juveniles glandulosi. Folia inciso-serrulata subtus resinoso-punctata ad nervos barbata. Amenta ambitu subrotundata vel ovato-rotundata 3.0-3.5 cm longa 2.5 cm lata, squamis 1.0-1.5 cm longis margine resinoso-punctatis ciliatisque, lobo intermedio squamae lineari-spatulato ca. 6 mm longo, lobis lateralibus lineari-oblancoelatis ca. 4 mm longis.

NOM. JAP. *Marumi-no-dakekamba*. (n. n.).

Hab. *S. Kuriles*. Isl. Etorofu: Shana (B. YOSHIMURA & H. YOKOYAMA, VIII. 11, 1938—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

192. *Glaucidium palmatum* SIEB. ET ZUCC. in Abh. Math.-Phys. Kl. Akad. Muench. IV.-2. (1845), 184, *tab. 1, B*; MATSUM. Ind. Pl. Jap. 11.-2. (1912), 116; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 330.

form. *paradoxum* (MAKINO) MIYABE ET TATEWAKI, com. nov.

Glaucidium paradoxum MAKINO, in Bot. Mag. Tokyo, XXIV. (1910), 16; MAKINO & NEMOTO, l. c.

NOM. JAP. *Yezo-aoi*.

form. *monocarpum* MIYABE ET TATEWAKI, form. nov.

A typo differt, carpellis solitaris.

NOM. JAP. *Hitotsumi-shiraneaoi*. (n. n.).

Hab. *Yezo*. Prov. Oshima: Kijibikiyama (T. ISHIYAMA, V. 23, 1938—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

Remarks. The present monocarpellary form is found in the cited locality forming an extensive society.

193. *Saxifraga* (*Sect. Neptrophyllum* § *Sibiricae*) *Yoshimurae* MIYABE ET TATEWAKI, sp. nov.

Plantae subcaespitosae, caudiculis hypogeis brevibus erectis ramosis, inferne vaginis foliorum vetustorum, superne foliis rosulatis obsitis, gemmiferis. Bulbilli ad foliorum basalia axillas pallide castanei ca. 2 mm longi. Caules floriferi

ascendentes vel subnutantes 8-15 cm longi sparse foliati 1-5-flori, pilis albis glanduliferis densiusculis obsiti. Folia basalia et inferiora caulina erecto-patentia tenera; lamina ambitu reniformia glabrescentia vel sparse glanduloso-pubescentia margine glanduloso-ciliolata 6-10 mm longa 8-15 mm lata 5-(7)-lobata, lobis late ovatis subacutis, petiolis 3-4-plo lamina longioribus albo-villosis vel sparse villosis inferne sensim vaginatim dilatatis. Folia caulina superiora trilobata vel oblonga integra subacuta. Pedicelli glanduloso-villosi floribus 3-5-plo longiores in fructu valde elongati. Calycis receptaculum obconicum dense glanduloso-villosum ca.

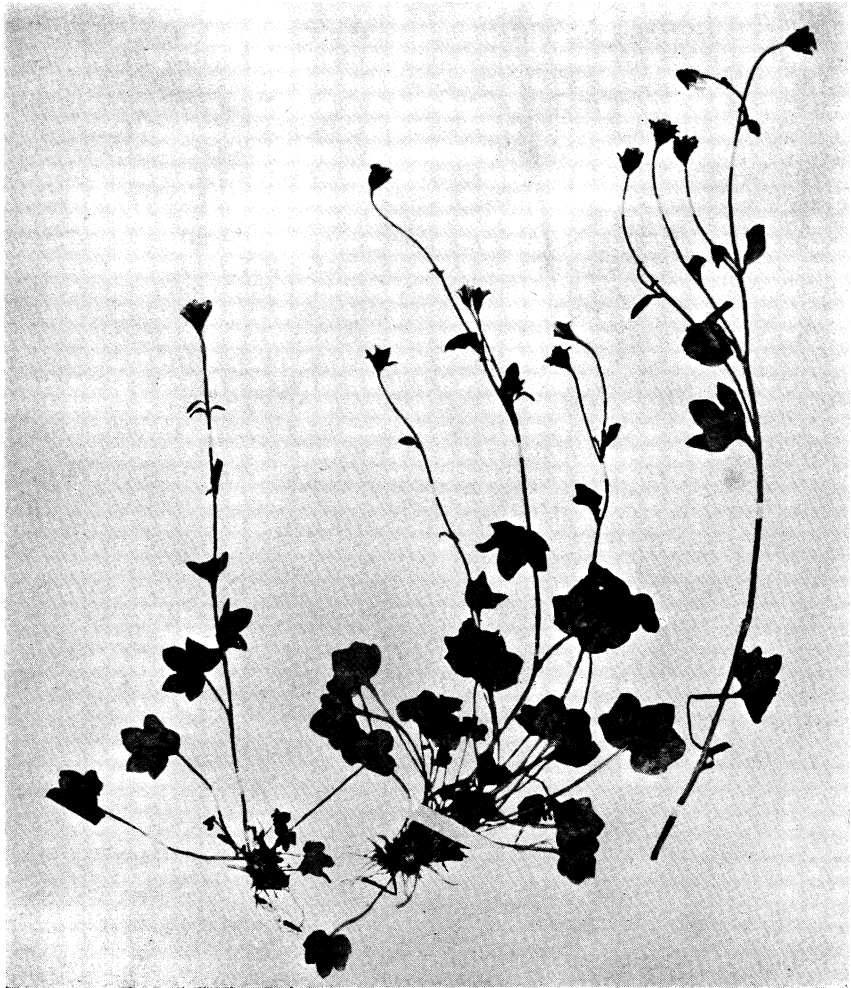


Fig. 1. *Saxifraga Yoshimurae* MIYABE ET TATEWAKI, sp. nov.

1.0–1.5 mm longum 2 mm latum. Sepala erecto-patentia lanceolata vel ovato-lanceolata 2.0–2.5 mm longa 0.7–1.0 mm lata obtusa extus ac margine sparsim glanduloso-pilosa. Petala alba lineari-lanceolata vel late linearia ca. 4 mm longa ca. 0.7–1.0 mm lata obtusa 1–3-nervia. Stamina sepala subaequantia vel breviora. Ovarium seminiferum oblongo-ovoideum in stylos ca. 1 mm longos erectos stigmatem majusculo sensim attenuatum.

NOM. JAP. *Naruko-yukinoshita*. (n. n.).

HAB. *S. Saghalien*. Distr. Sikka: The upper Naruko (B. YOSHIMURA, VIII. 14, 1936—type in Herb. Fac. Agr. Hokkaido Imp. Univ.)

Remarks. The present species is closely related to *Saxifraga debilis* ENGELM., from which it differs by the more or less glanduloso-pubescent leaves with ciliolate margin, the glanduloso-pubescent pedicels, the shorter receptacles and especially by the narrower petals. It is also allied to *Saxifraga rivularis* L., from which it is distinguished by the narrower petals and the thinner texture of the leaves.

194. *Astragalus yezoensis* MIYABE ET TATEWAKI, sp. nov.

Herbae perennes. Caulis ascendente erectus ramosus striatus fistulosus laxe albo-pilosus plurifoliatus ad 50 cm altus. Folia breviter petiolata 4–10 cm longa anguste oblonga, rachibus albo-pilosis, foliolis 8–11-jugatis membranaceis oblongis interdum ovato-oblongis apice rotundatis vel leviter retusis mucronulatis 10–20 mm longis 3–6 mm latis supra glabris subtus albo-pilosis breviter petiolulatis. Stipulae lineares vel subulatae liberae 5–15 mm longae subtus parce albo-pilosae margine ciliatae. Pedunculi axillares folia aequantes albo-pilosi, racemis saepe 5–6-floriferis densis abbreviatis, bracteis linearibus vel subulatis persistentibus glabrescentibus vel plus minusve pilosis margine ciliatis 5–6 mm longis 1–2 mm latis, pedicellis 2–3 mm longis densiuscule albo-pilosis interdum pilis nigricantibus immixtis, bracteolis minoribus lanceolatis 2–4 mm longis. Calyx oblique breviter tubulosus extus piloso-pubescentibus, pilis albis et parce nigricantibus immixtis, dentibus brevissimis triangularibus vel lanceolatis ca. 1 mm longis utrinque saepe nigro-pilosis margine incurvatis, tubis cylindricis 5–6 mm longis. Flores ochroleuci glabri ca. 12 mm longi. Vexillum ca. 18 mm longum obovato-cuneatum apice retusum basi attenuatum. Carinae 15 mm longae, limbo oblique oblongo apice obtuso. Tubus staminis 1 cm longus. Ovarium lanceolatum villosum, pilis albis vel interdum nigricantibus brevioribus immixtis, longe stipitatum 6 mm longum, stipe glabrescente vel hirtello 6 mm longo. Legumen immaturum inflatum.

NOM. JAP. *Yezo-no-taitsuriohgi*. (n. n.).

HAB. *Yezo*. Prov. Shiribeshi: Mt. Ohira (I. YAMAMOTO, VIII. 10,

1938—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

REMARKS. The present species is more or less related to *Astragalus membranaceus* BUNGE and *Astragalus shinanensis* OHWI. But it differs from the former by the pubescent calyx and the presence of the lanceolate bracteoles, and is distinguished from the latter by the narrower leaflets and stipules, the fewer flowers in the raceme, the shorter stipe of the ovary and the character of the pubescence of the pedicels and calyx.

195. *Acer Sieboldianum* MIQ. Prol. Fl. Jap. (1865), 19; FR. ET SAV. Enum. Pl. Jap. I. (1875), 87; MAXIM. in Mém. Biol. X. (1880), 606, et ibid. XII. (1888), 433; PAX, in ENGL. Bot. Jahrb. VII. (1886), 200, et in ENGL. Pfl.-reich. IV.—163. (1902), 25; C. K. SCHNEID. Ill. Handb. Laubholz. II. (1907), 209; KOIDZ. in Journ. Coll. Sc. Tokyo Imp. Univ. XXXII.—1. (1911), 35, *tab. XXI*; REHD. Man. Cult. Tr. & Shr. (1927), 570; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 698; SUGIMOTO, Key Tr. & Shr. Jap. (1936), 232.

Acer japonicum THUNB. var. *Sieboldianum* FR. ET SAV. Enum. Pl. Jap. II. (1879), 317; LÉV. in Bull. Soc. Bot. Fr. VI. (1906), 591.

var. *yezoense* MIYABE ET TATEWAKI, var. nov.

Folia membranacea ambitu late rotundata 5–7 cm longa 7–9 cm lata supra glabra subtus fere ad nervos primarios adpresse hirsuta et in axillis nervorum villosa-barbata basi aperte cordata, lobis ovatis oblongo-ovatis apice acuminatis margine irregulariter argute subduplicato-serratis, petiolis limbo brevioribus vel subaequantibus glabriusculis. Samara pubescens deinde glabra; alae horizontaliter patentibus ad 20 mm longae 5 mm latae.

NOM. JAP. *Yezo-no-itayameigetsu*. (n. n.).

HAB. *Yezo*. Prov. Ishikari: Nopporo (M. TATEWAKI, IX. II, 1936—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

196. *Viola kamschadatorum* BCKR. ET HULT. in Sv. Vet. Akad. Arch. Bot. XXII.—A. No. 3, (1928), 6; HULT. Fl. Kamtschat. III. (1929), 134; NAKAI, in Bot. Mag. Tokyo, XLVI. (1932), 59.

var. *pubescens* MIYABE ET TATEWAKI, var. nov.

Planta pubescens. Caulis minute denseque pubescens. Stipulae ciliatae ad nervos minute pubescentes. Folia supra minute pubescentia subtus glabriuscula sed ad nervos minute pubescentia, petiolis minute denseque pubescentibus. Pedunculus minute denseque pubescens. Lobi calycis sparse pubescentes.

NOM. JAP. *Ke-ohba-tachitsubosumire*. (n. n.).

HAB. *S. Kuriles*. Isl. Etorofu: Rubetsu (K. TANNO, VII. 1935).

197. *Tilingia Tachiroei* KITAGAWA, in Bot. Mag. Tokyo, LI. (1937), 656.

Seseli Tachiroei FR. ET SAV. Enum. Pl. Jap. II. (1877), 373; YABE, Rev. Umb. Jap. (1902), 59.

Cnidium Tachiroei MAKINO, in Bot. Mag. Tokyo, XX. (1906), 94; MATSUM. Ind. Pl. Jap. II.-2. (1912), 433; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 838; MURAI, Fl. Central Iwate, (1935), 77.

NOM. JAP. *Iwa-ukyo*, *Miyama-ukyo*, *Shirayama-ninjin*.

HAB. *Yezo*. Isl. Okushiri: Mt. Kamui (Y. KUDO, no. 2370, 1916; B. SONOKI, 1934). Prov. Shiribeshi: Mt. Ohira (I. YAMAMOTO, no. 8810, no. 8811, 1938).

DISTRIB. SW. *Yezo*, Honshu, Shikoku and Korea.

Remarks. Mt. Ohira and Mt. Kamui are the most northern limit of the distribution of the present species.

198. *Sambucus Buergeriana* BL. ex MIQ. in Ann. Mus. Bot. Lugd.-Bat. II. (1866), 265, pro syn.; NAKAI, in Bot. Mag. Tokyo, XL. (1926), 474 (var. *Miquelii*), et Tr. & Shr. Jap. ed. rev. I. (1927), 575, fig. 260, (var. *Miquelii*); HARA, in Bot. Mag. Tokyo, LI. (1937), 845.

var. ***Hiraii*** MIYABE ET TATEWAKI, var. nov.

Rami juveniles sparse pubescentes. Folia ramorum floriferorum impripinnata; foliola 2-3-jugata breviter petiolulata vel subsessilia lanceolata elliptico-lanceolata vel oblongo-lanceolata serrulata vel dentato-serrulata apice saepe caudato-acuminata margine ciliata supra ad nervos hirsuta subtus ad nervos sparse pubescentia 10-12 cm longa 2-3 cm lata. Calycis tubus glabriusculus.

NOM. JAP. *Hosoba-yezo-niwatoko*. (n. n.)

HAB. *Yezo*. Prov. Ishikari: Nopporo (S. HIRAI, IX. 5, 1937; V. 13, 1938—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

var. ***platyphylla*** MIYABE ET TATEWAKI, var. nov.

Rami et petioli glabriusculi. Folia 2-jugo-impripinnata. Foliola oblongo-ovata, ovata vel late ovata arguto-serrulata subsessilia vel breviter petiolulata apice subito acuminata margine ciliolata utrinque glabriuscula supra ad nervos sparse hirsuta subtus ad nervos parce hirsuta 9-13 cm longa 5-8 cm lata.

NOM. JAP. *Hiroha-yezo-niwatoko*. (n. n.)

HAB. *Yezo*. Prov. Kitami: Tokoro (H. IWAMOTO, VIII. 17, 1937—type in Herb. Fab. Agr. Hokkaido Imp. Univ.).

199. *Adenophora Ishiyamae* MIYABE ET TATEWAKI, sp. nov.

Caulis erecto-ascendens glaber laevis 3-5 mm crassus simplex foliosus qua-



Fig. 2. *Adenophora Ishiyamae* MIYABE ET TATEWAKI. sp. nov.

drangulatus superne ad costas hirsutiusculus cum inflorescentia 30-60 cm altus. Folia caulina saepe verticillato-quadrata sessilia supra laxe hirsuta subtus pallidiora ad nervos hirsuta apice obtusiuscula vel minute callosa basi late cuneata; lamina superiora oblongo-lanceolata paucidenticulata inferiora ovata vel ovato-lanceolata paucidentata infra medium integra. Inflorescentia verticillato-paniculata ca. 7-

florifera glaberrima; bracteae inferiores lanceolatae paucidentulatae 2-3 cm longae superiores lineares integrae; flores patentes vel penduli. Calyx, tubo glabro obconico 5-costato ca. 4 mm longo, lobis erecto-patentibus lanceolatis vel ovato-lanceolatis apice obtusiusculis 5 mm longis. Corolla glabra aperte campanulata albescens 2-2.5 cm longa lataque apice 5-lobata, lobis late triangularibus apice obtusis vel acutiusculis mucronatis 6-8 mm longis 8 mm latis. Stamina inclusa 1.8 cm longa; filamenta parte dilatata alba densissime longe ciliata extus superiore villosa 6 mm longa, parte angustata glaberrima alba 4 mm longa; antherae lineares luteae. Discus tubulosus glaber apice truncatus 1-2 mm longus. Stylus exsertus apice trilobulatus 2 cm longus, lobis 1-2 mm longis.

NOM. JAP. *Matumae-shajin*. (n. n).

HAB. *Yezo*. Prov. Oshima: Mt. Mae-sengen (T. ISHIYAMA, VIII. 3, 1935; VII. 27, 1936—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

Remarks. The present species is related to *Adenophora hakusanensis* NAKAI, but it differs from the latter by the broader sepals and the denticulate or dentate leaves and also by the character of the corolla, stamen and style.

200. *Adenophora Yokoyumae* MIYABE ET TATEWAKI, sp. nov.

Caulis ascendens glaber 1.5-2.5 mm crassus angulatus laxe foliatus cum inflorescentia 20-40 cm altus. Folia radicalia subanthesi viva rosulata longe petiolata, laminis rotundato- vel ovato-cordatis plerumque reniformibus margine irregulariter duplicato-serratis ciliatisque supra laxe pubescentibus ad costas pubescentibus subtus glabris 3-5 cm longis 2.5-5.5 cm latis, petiolis alatis glabris 3-9-(11) cm longis; folia inferiora pauca opposita vel alterna ovato-elliptica apice mucronato-acutiuscula utrinque glabrescentia interdum margine et ad costas ciliolata serrata vel duplicato-serrata basi gradatim angustata subalato-petiolata 4.5-5.0 cm longa 2.5 cm lata, petiolis glabris 1.5-3.0 cm longis; folia caulina superiora pauca opposita vel rarius alterna elliptico-lanceolata subsessilia interdum breviter petiolata utrinque glabra vel glabrescentia margine serrata apice mucronato-acutiuscula basi cuneata 6.0-6.5 cm longa 2.0 cm lata. Bractea infima foliacea lanceolata vel linearis utrinque glabra sessilis 4.5-5.5 cm longa 1.5 cm lata; media et superiora gradatim minora. Inflorescentia racemosa interdum paniculata; pediceli nutantes 2-5 cm longi glabri. Calyx, tubo subgloboso glabro 4-5 mm longo et lato, lobis recurvatis lanceolatis vel oblongo-lanceolatis apice obtusiusculis ciliolatis 6-8 mm longis ca. 2 mm latis. Corolla glabra aperte campanulata pallide caerulea ca. 2.5 cm longa ca. 2.0 cm lata in sicco apice 5-lobata, lobis late triangularibus apice acutis vel acutiusculis 5-6 mm longis 7-8 mm latis. Stamina inclusa 1.5 cm longa; filamenta parte dilata alba densissime longe ciliata 5 mm longa, parte angusta glaberrima alba 4-5 mm longa; antherae lineares



Fig. 3. *Adenophora Yokoyamae* MIYABE ET TATEWAKI, sp. nov.

luteae. Discus tubulosus glaber apice truncatus 1.5 mm longus. Stylus exsertus apice versus sensim incrassatus trilobulatus 2 mm longus, lobis 1.0-1.5 mm longis. Capsula valde nutans globosa.

NOM. JAP. *Tokachi-shajin*. (n. n.).

HAB. *Yezo*. Prov. Tokachi: Ikeda (H. YOKOYAMA, IX. 4, 1937—type in Herb. Fac. Agr. Hokkaido Imp. Univ.).

Remarks. The present species is closely related to *Adenophora Ohnoi* TATEWAKI ET KITAMURA, but it differs from the latter by the presence of the radical leaves at the flowering time, the shape and arrangement of the leaves and also by the subglobose calyx-tube. It is also allied to *Adenophora uryuensis* MIYABE ET TATEWAKI, from which it is distinguished by the recurved sepals and the subglobose calyx-tube.

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191. マルミノダケカンバ (新變種) 葉の缺刻キレハダケカンバに稍々似たるも、下面に油點を有し、果穂は大にして稍々球形をなす新變種。南千島擇捉島に於て吉村文五郎、横山春男兩氏採集す。

192. エゾアフヒ; ヒトツミシラネアフヒ (新品種) エゾアフヒはシラネアフヒの畸形的品種と認め、又ヒトツミシラネアフヒは心皮の一なる品種にして、石山哲爾氏が渡島國本地引山にて檢出せるものなり。同氏に依れば心皮一なるものはそのものみにて群生すると言ふ。

193. ナルコユキノシタ (新種) 北米産 *Saxifraga debilis* に最も近きも、莖葉の有毛度、短型をなす花托、花瓣の狭少なることにより類別せらるる新種にして、樺太敷香支廳鳴子山にて吉村文五郎氏採集す。

194. エゾタイツリワウギ (新種) 本州産タイツリワウギに近きも、狭き小葉片及び托葉、花序に於ける小數花、より短き子房梗、萼片及び花梗の毛の性質に依り類別せらるる新種にして、後志國太平山にて山本岩龜氏採集す。

195. エゾノメイゲツイタヤ (新變種) メイゲツイタヤの變種にして葉柄殆ど平滑、葉裂片の形状をも少しく異にす。石狩國野幌にて採集す。

196. ケオホバタチツボスミレ (新變種) オホバタチツボスミレの有毛品。南千島擇捉島にて丹野龜助氏採集す。

197. イハウキキヤウ 北限として奥尻島、後志國太平山を紹介す。

198. ホソバエゾニハトコ (新變種); ヒロハエゾニハトコ (新變種) ホソバエゾニハトコは成葉が披針狀を呈する狭葉品にして、石狩國野幌森林中にて平井信二氏採集、ヒロハエゾニハトコは平滑に近き卵狀葉を有する變種にして、北見國常呂にて岩本秀信氏採集す。

199. マツマヘジャジン (新種) ハクサンジャジンに近きも、萼片廣く、葉は細牙齒縁又は牙齒縁にして、花の諸部も趣を異にす。渡島國前千軒岳にて石山哲爾氏採集す。

200. トカチシャジン (新種) シコタンシャジン、ウリュウシャジンに近きも、花時に概ね根出葉明にして、萼筒稍々球狀をなす珍種。十勝國池田にて横山春男氏採集す。