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CONTRIBUTIONS TO THE FLORA OF NORTHERN JAPAN IV

BY

KINGO MIYABE AND MISAO TATEWAKI

41. *Taxus cuspidata* SIEB. ET ZUCC. Fl. Jap. Fam. Nat. II. (1846), 108, et Fl. Jap. II. (1870), 61, *t.* 128; SHIRASAWA, Icon. For. Tr. Jap. I. (1911), 49, *t.* 15, *f.* 1-8; WILSON, Conif. & Tax. Jap. (1916), 11, *pl.* V; MIYABE & KUDO, Icon. Ess. For. Tr. Hokkaido, I. (1920), *t.* 1, et Fl. Hokkaido & Saghal. I. (1930), 68; REHD. Manual Cult. Tr. & Shr. (1927), 6; BEISSN. Handb. Nadelholzk. 3-Aufl. (1930), 46; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 135; HAYATA, Syst. Gymnosp. (1933), 235.

var. ***luteo-baccata*** MIYABE ET TATEWAKI, var. nov.

Cupula lutea, campanulata, ca. 7 mm. longa.

NOM. JAP. *Kimi-no-onko*.

HAB. *Yezo*: Sapporo, cult. (C. SUDÔ, X. 5, 1934—type, in Herb. Fac. Agr. Hokkaido Imp. Univ.).

42. *Betula davurica* (daurica) PALL. Fl. Ross. I. (1784), 60. *t.* 39, *fig.* A; LEDEB. Fl. Ross. III. (1846-51), 651; TRAUTV. in MAXIM. Prim. Fl. Amur. (1859). 250, (var. *Maximowiczii*); REGEL, Monogr. Betulac. (1861), 113, *t.* 8, *f.* 36-39, *t.* 10, *f.* 19-40, et in DC. Prodr. XVI. -2. (1868), 174, (*a. typica*); DIPPEL, Handb. Laubholz. II. (1892), 178, *f.* 85; BURKILL, in Journ. Linn. Soc. XXVI. (1899), 498; PALIB. Consp. Fl. Korea. II. (1900), 48; KOMAR. Fl. Mansh. II. (1904), 45; WINKL. Betulac. in ENGL. Pfl.-reich. IV.-61. (1904). 86; SCHNEID. Ill. Handb. Laubholz. I. (1906), 109, *fig.* 57, *k-k₁*, *fig.* 60, *p*; NAKAI, Fl. Korea. II. (1911), 203, et in Bot. Mag. (Tokyo), XXIX. (1915), 42, et Fl. Sylv. Korea. II. (1915) 28, *t.* 15; Koidz. in Bot. Mag. (Tokyo), XXVII. (1913), 146; Mori, Enum. Pl. Corea, (1922), 115; Kudo, Nippon Yûyôjumoku-Bunrugaiku, (1922), 116; REHD. Manual Cult. Tr. & Shr. (1927), 142; YAMAZUTA, List Manch. Pl. (1930), 82; MAKINO & Nemoto, Fl. Jap. ed. 2, (1931), 182; KOMAR. & KLOB-ALIS. Key Pl. Far East. Reg. USSR. (1931) 432, *tab.* 131, *fig.* 2; HARA, in Journ. Jap. Bot. IX.-3. (1933), 190; INOKUMA, in Bull. Tokyo Imp. Univ. For. XX.-5. (1934), 192, *t.* VI. *fig.* 2; TATEWAKI, in Hok-

kaido Ringyô Kaihō, XXXII. (1934), 578.

NOM. JAP. *Ko-onoore*, *Yaegawa-kamba*.

HAB. *Yezo*: Senbiri, Rikuunbetsu, Prov. Tokachi (N. NAMBU & Y. MATSUI, VIII. 1934).

Remarks. New to the flora of Hokkaido and Saghalien.

43. *Pilea Hamaoi* MAKINO, in Bot. Mag. (Tokyo), X. (1896), 364, nom. subnud. et ibid. XXIII. (1909), 86, et Zôtei Sômoku-zusetsu, IV. (1913), 1279, pl. 1168; MATSUM. Ind. Pl. Jap. II.-2. (1912), 45; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 232.

NOM. JAP. *Mizu*.

HAB. *Yezo*: Mt. Raiden, Prov. Shiribeshi (I. YAMAMOTO, VIII. 26, 1933).

Remarks. New to the flora of Hokkaido & Saghalien.

44. *Stellaria mosquensis* M. BIEB. ex SCHLECHT. in Mag. Ges. Naturf. Freunde Berl. VII. (1816), 195; KOMAR. Fl. Pen. Kamtschat. II. (1929), 89; KOMAR. & KLOB.-ALIS. Key Far East. Reg. USSR. I. (1931), 493.

Stellaria Frieseana SER. in DC. Prodr. I. (1824), 397; MIYABE & MIYAKE, Fl. Saghal. (1915), 72.

Stellaria longifolia TAKEDA, Fl. Isl. Shikotan, (1913), 454; KUDO, Contr. Fl. Nor. Saghal. (1923), 34, p. p. (non MUEHLB.).

NOM. JAP. *Karafuto-nominofusuma*, *Kuromi-nominofusuma*.

HAB. *Yezo*: Chitose, Prov. Iburî (Y. TOKUBUCHI, 1890); Tomakomai, Prov. Iburî (K. MIYABE & J. HANZAWA, 1904). Akkeshi, Prov. Kushiro (K. MIYABE, 1884); Teshikaga, Prov. Kushiro (S. HAHIMSOTO, 1890); Kushiro, by Lake Harutori, Prov. Kushiro (K. MIYABE, 1894; G. TANAKA & KENJI MIYABE, 1910; K. Nishikawa, 1914).

Kuriles: Tomari, Isl. Kunashiri (T. ISHIKAWA, 1894). Between Shakotan and Chipoi, Isl. Shikotan (H. TAKEDA, 1909); Shakotan, Isl. Shikotan (G. TANAKA & KENJI MIYABE, 1910).

S. Saghalien: Kaizuka, Odomari-Distr. (K. MIYABE & T. MIYAGI, 1906); Odomari, Odomari-Distr. (K. MIYABE & T. MIYAGI, 1906; T. MIYAKE, 1907); Nakazato, Odomari-Distr. (K. MIYABE & T. MIYAGI, 1906); Chipusani, Odomari-Distr. (K. MIYABE, T. MIYAGI & T. MIYAKE, 1906). Kusunnai, Tomarioro-Distr. (K. MIYABE & T. MIYAGI, 1906; T. MIYAKE, 1906). Usutomanai, Ushoro-Distr. (K. MIYABE & T. MIYAGI, 1906); Anbetsu, Ushoro-Distr. (Y. TOKUNAGA & K. KAWAI, 1929); Kita-nayashi, Ushoro-Distr. (K. MIYABE & T. MIYAGI, 1906; Y. TOKUNAGA & K. KAWAI, 1929). Toyohara, Toyohara-Distr. (K. MIYABE & T. MIYAGI, 1906); Dubuki, Toyohara-Distr. (K. MIYABE & T.

MIYAGI, 1906). Shikka, Shikka-Distr. (T. MIYAKE, 1906; H. OHOTANI & Y. IMAI, 1930); Ehorokofunai, Shikka-Distr. (T. MIYAKE, 1906); Borodo, Shikka-Distr. (T. MIYAKE, 1906); Satsukari, Shikka-Distr. (I. NAMIKAWA, 1914); Chirihasan, Shikka-Distr. (K. MIYABE & T. MIYAGI, 1906); Between Tominai and Nimenjo, Shikka-Distr. (H. OHTANI & Y. IMAI, 1930).

N. Saghalien: Pilew, Alexandrowsk-Distr. (K. MIYABE & T. MIYAGI, 1906; Y. KUDO & M. TATEWAKI, 1922). Alexandrowsk, Alexandrowsk-Distr. (Y. KUDO & M. TATEWAKI, 1922).

45. *Arabis Greatrexii* MIYABE ET TATEWAKI, com nov.

Cardamine Greatrexii MIYABE ET KUDO, in Trans. Sapporo Nat. Hist. Soc. VI.-3. (1917), 165, 177.

NOM. JAP. *Oshima-tanetsukebana*.

HAB. *Yezo*: Yunokawa near Hakodate, Prov. Oshima (F. GREATREX, VI. 10, 1916).

46. *Sedum yezoense* MIYABE ET TATEWAKI, sp. nov.

Caulis caespitosus, saepe 5-8 cm. altus, gracilis, erectus vel ascendens, basi leviter procumbens, dense foliosus. Folia caulina opposita, sessilia, erecta vel erecto-patentia, obovata, obovato-oblancheolata vel oblongo-ovata, rubro-punctata, apice obtusa vel acutiuscula, margine integerrima, 5-13 (-15) mm. longa, 3-5 mm. lata, nervis inconspicuis. Cyma densiflora, semi-rotundata, 1.2-3.0 cm. lata. Flores hermaphroditi, purpurei, pedicellis 4-6 mm. longis, gracilis, glaberrimis. Sepala lanceolata vel anguste lanceolata, ca. 3 mm. longa, 0.5-1 mm. lata. Petala lanceolata vel ovato-lanceolata, apice acuta, uni- vel trinervia, purpureo-punctata, ca. 6 mm. longa, 2.5-3 mm. lata. Stamina 10, petalis paulo breviora, quorum 5, petalis opposita ca. 1/4 petalis adnata quam stamina sepalis opposita disco inserta leviter breviora, filamentis purpureis, antheris atropurpureis, cordato-orbicularibus. Squamae hypogynae, trapezoides, albae, ca. 2 mm. longae, ca. 1.5 mm. latae. Ovaria 5, oblongo-fusiformia, ca. 3 mm. longa, 1.5 mm. lata, apice stylis filiformibus terminata.

NOM. JAP. *Yezo-misebaya*. (n. n.).

HAB. *Yezo*: Mt. Goken, Prov. Ishikari (A. GUBLER & Y. TOKUNAGA, IX. 20, 1925—type, in Herb. Fac. Agr. Hokkaido Imp. Univ.; K. FUJITA, IX. 5, 1928; I. YAMAMOTO, VIII. 14, 1931).

Remarks. The present species is related to *Sedum Takasui* KUDO and *Sedum pluricaule* KUDO. But it is distinguished from the former by the shape of the leaves, petals and ovary, and also by the slightly procumbent stem at the base; and from the latter by the shape of the leaves and petals, and also by the erect or ascending stem.

47. *Draba mongolica* TURCZ. in Bull. Soc. Nat. Mosc. XV. (1842), 256; BUSCH, in Fl. Sib. III. (1919), 374, cum *fig.*; POHLE, Drab. As. in FEDDE Repert. Beih. XXXII. (1925), 76; SCHULZ, in ENGL. Pfl.-reich. IV.-105. (1927), 278.

Draba incana L. var. *mongolica* E. REGEL, apud MAXIM. Enum. Pl. Mongol. (1889), 52.

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

HAB. *Yezo*: At the top of Mt. Rishiri, Prov. Kitami (M. Tatewaki & S. Kyono, VII. 31, 1934).

Remarks. New to the flora of Japan.

48. *Potentilla apoensis* NAKAI, Rep. Veg. Mt. Apoi, (1930), 37, descript. jap. et 54, nom. nud.

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

Potentilla Matsumurae WOLF, var. *yuparensis* KUDO, in sched.

Planta villosa-pubescentia, 3-8 cm. alta. Folia flavellato-ternata, supra pilosa, subtus in nervis marginibusque dense sericeo-pubescentia; foliolis terminaribus obovato-cuneiformibus, apice profunde inciso-laciniatis, versus basin cuneatis et integerrimis; lateralibus oblique ovatis, saepe obovato-cuneiformibus vel semi-orbicularibus.

NOM. JAP. *Yubari-kinbai*, *Chabo-miyamakinbai*.

HAB. *Yezo*: Mt. Yubari (H. YANAGIZAWA & A. HAMANA, VIII. 6, 1912—type, in Herb. Fac. Agr. Hokkaido Imp. Univ.; S. NISHIDA, VIII. 7-9, 1913; H. TAKEDA & M. TATEWAKI, VIII. 2, 1921).

49. *Astragalus* (Phaca) ***Yamamotoi*** MIYABE ET TATEWAKI, sp. nov.

Herbae, perennes, caespitosae, adscendentes vel erectae, subglabratae, elatae, caule 30-50 cm. alto. Folia impari-pinnata, internodiis longiora, 5-9 cm. longa; foliolis 4-5 (-6) -jugis, brevi-petiolulatis, oblongo-ellipticis, oblongis vel ovato-oblongis, apice retusis vel rotundatis, utrinque glabris, subtus pallidioribus, 1.8-3.8 cm. longis, 0.7-1.5 cm. latis. Stipulae a petiolo liberae, lanceolatae. Pedunculi axillares, adscendentes vel erecti, glabrescentes, folium superantes. Racemi elongati, ca. 6-7-flori. Bractae membranaceae, lanceolatae. Flores ca. 2.5 cm. longi, pedicellati, bibracteolati. Calyx campanulatus, ca. 8 mm. longus, leviter albo-hirsutus, lobis brevibus lineari-triangularibus nigro pilosis. Petala libera, decidua. Vexillum oblongo-obovatum vel elliptico-obovatum, apice rotundatum, in unguem attenuatum, 1.5-2 cm. longum, 0.6-0.8 cm. latum. Allae oblongae, integerrimae, vexillo breviores, apice rotundatae, basi auriculatae, unguiculatae, ungue lamina brevior. Carina alis subaequantia, basi auriculata, unguiculata, ungue lamina brevior. Stamina carinae aequilonga, basi connata,

filamentis inaequilongis. Ovarium stipitatum, glaberrimum, 8-10-ovulatum, stylo glabro elongato. Legumen stipitatum, glaberrimum, erectum, elliptico-oblongum, biloculare.

NOM. JAP. *Kariba-ohgi*. (n. n.).

HAB. *Yezo*: Mt. Kariba, Prov. Shiribeshi (I. YAMAMOTO, VII. 28, 1930—type, in Herb. Fac. Agr. Hokkaido Imp. Univ.).

50. *Viola Hultenii* W. BECKR. in Ark. f. Bot. XXII. A. No. 3, (1928), 4; HULT. Fl. Kamtchat. III. (1929), 133; KOMAR. Fl. Pen. Kamtschat. II. (1929), 307.

Viola blanda KUDO, Fl. Isl. Paramushir, (1922), 131; NAKAI, in Bot. Mag. (Tokyo), XLII. (1928), 565; OHWI, Fl. Isl. Shikotan, (1932), 39; TATEWAKI, Phytogeogr. Middle Kuril. (1933), 231, et Vas. Pl. Nor. Kuril. (1934), 323, (non WILLD.).

NOM. JAP. *Chishima-usubasumire*. (n. n.)

HAB. *Yezo*: Ochiishi, Prov. Nemuro (M. TATEWAKI, VI. 15, 1930).

Kuriles: Murakamiwan, Isl. Paramushir (Y. KUDO, n. 4979, VII. 4, 1920). Wan-oku, Isl. Shimushir (M. TATEWAKI & Y. TOKUNAGA, n. 12065, VIII. 25, 1928); Noto, Isl. Shikotan (M. TATEWAKI, VI. 22, 1934).

S. SAGHALIEN: Noto in the North Shiretoko Peninsula, Shikka-Distr. (Y. HOSHINO, Y. OKADA & S. SUGIYAMA, VIII. 14, 1933).

Remarks: New to the flora of *Yezo* and Saghalien.

51. *Viola Selkirkii* PURSH, var. *albiflora* NAKAI, in Bot. Mag. (Tokyo), XXXIII. (1919), 9.

NOM. JAP. *Shirobana-miyamasumire*.

HAB. *Yezo*: At the foot of Mt. Rishiri, Oniwaki-side, Isl. Rishiri (M. TATEWAKI, V. 1934).

Remarks. var. new to the flora of the northern Japan.

52. *Polemonium coeruleum* L. var. *racemosum* MIYABE ET KUDO, in Trans. Sapporo Nat. Hist. Soc. IV. (1913), 99, 104; MIYABE & MIYAKE, Fl. Saghal. (1915), 333; KUDO, Contr. Fl. Nor. Saghal. (1923), 53, et Rep. Veg. Nor. Saghal. (1924), 207.

NOM. JAP. *Kushiro-hanashinobu*.

HAB. *Kuriles*: The upper Okkaibetsu, Isl. Shikotan (D. AKAISHI, VI. 30, 1934).

Remarks. New to the flora of the Kuriles.

53. *Castilleja pallida* KUNTH, Syn. Pl. Aequin. (1823), 100, in not.;

DC. Prodr. X. (1846), 531; Ledeb. Fl. Ross. III. (1846-51), 257; RGL. ET TIL Fl. Ajan. (1859), 114, (*a. communis*); HERD. Pl. Radd. Monop. VI. (1884), 45, n. 494, (*communis*); MACOUN, Cat. Canad. Pl. II. (1884), 365; KOMAR. Fl. Mansh. III. (1907), 437, et Fl. Pen. Kamtschat. III. (1930), 73; MACOUN & HOLM, Rep. Canad. Arc. Exped. 1913-15, (1921), 19-A; HOLM. *ibid.* (1922), 56-B; HULT. Fl. Kamtschat. IV. (1930), 105; YAMAZUTA, List Manch. Pl. (1930), 242; KOMAR. & KLOB.-ALIS. Key Pl. Far East. Reg. USSR. II. (1932), 924.
 NOM. JAP. *Kasuterisô*, (YAMAZUTA), *Miyama-garagara*. (n. n.).
 HAB. *S. Saghalien*: Outorigawa Peak, alt. 3000 ft. Shikka-Distr. (A. HIRUTA, VIII. 1934).

Remarks. *gen.* and *sp.* new to the flora of Japan.

54. *Campanula lasiocarpa* CHAM. in Linnaea IV. (1829), 39; LEDEB. Fl. Ross. II. (1844-46), 890; TATEWAKI & KOBAYASHI, Contr. Fl. Aleut. Isl. (1934), 83.

form. *albiflora* TATEWAKI, form. nov.

Flores albi.

NOM. JAP. *Shiobana-Iwagikyô*.

HAB. *Yezo*: Mt. Biyei, Prov. Ishikari (C. HARA, VIII. 1930).

55. *Rottboellia latifolia* STEUD. in Fl. XXIX. (1846), 21; HACK. in Bull. Herb. Boiss. (1899), 641; RENDLE, in Journ. Linn. Soc. XXXVI. (1904), 362; MATSUM. Ind. Pl. Jap. II.-1. (1905), 81; NAKAI, Fl. Korea. II. (1911), 341; HONDA, Monogr. Poac. Jap. (1930), 371; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 371, (var. *angustifolia*).

Manisuris latifolia KTZE. var. *foliata* HONDA, in Bot. Mag. (Tokyo), XXXIX. (1925), 275; MIYABE & KUDO, Fl. Hokkaido & Saghal. II. (1931), 110.

NOM. JAP. *Aiashi*, *Goki*.

HAB. *Yezo*: Muroran, Prov. Iburi (U. FAURIE, IX. 12, 1887); Shizunai, Prov. Hidaka (Y. TOKUBUCHI, VIII. 23, 1892). Oshoro, Prov. Shiribeshi (K. MIYABE, VIII. 1932; I. YAMAMOTO, IX. 2, 1934).

Remarks: Oshoro, Prov. Shiribeshi, is probabry the northernmost limit of the distribution of the present species.

56. *Carex gynocrates* WORMSK. apud DREJER, Rev. Crit. (1841), 16; KURTZ, in ENGL. Bot. Jahrb. XIX. (1895), 414; FEDTSCH. Fl. II. Comm. (1906), 114; KUEK. Cyp.-Car. (1909), 79; HULT. Fl. Kamtschat. I. (1927), 172, et *ibid.* IV. (1930), 242; KOMAR. Fl. Pen. Kamtschat. I. (1927), 223; MIYABE & KUDO, Fl. Hokkaido & Saghal. II. (1931), 214; MACKENZ. in Nor. Am. Fl. XVIII.-2. (1931), 98; AKIYAMA, Consp. Car. Jap. (1932), 48; TATEWAKI, Phytogeogr.

Middle Kuril. (1933), 218, 241, 262, 291; OHWI, Fl. Isl. Shikotan, (1933), 273; TATEWAKI & KOBAYASHI, Contr. Fl. Aleutian Isl. (1934), 106.

Carex dioica L. var. γ LEDEB. Fl. Ross. IV. (1853), 264.

Carex dioica L. var. *gynocrates* OSTENF. Fl. Arc. (1902), 60.

NOM. JAP. *Kanchi-suge*.

HAB. *S. Saghalien*: Nushike in the north Shiretoko Peninsula, Shikka-Distr. (Y. HOSHINO, VII. 21, 1933)

Remarks. New to the flora of Saghalien.

57. *Carex norvegica* WILLD. ex Schkuhl. Riedgr. I. (1801), 50, *t. S*, fig. 66, et II. (1806), 207; KUEK. Cyp. Car. (1909), 216; NAKAI, in Bot. Mag. (Tokyo), XXIX. (1915), (59); HULT. Fl. Kamtchat. I. (1927), 181; KOMAR. Fl. Pen. Kamtschat. I. (1927), 229; MIYABE & KUDO, Fl. Hokkaido & Saghal. II. (1931), 223; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 1440; AKIYAMA, Consp. Car. Jap. (1932), 73.

NOM. Jap. *Noruge-suge*, *Karafuto-suge*.

HAB. *Yezo*: Shunkunitai, Prov. Nemuro (M. TATEWAKI, VIII. 1934).

Remarks. New to the flora of Yezo.

58. *Fritillaria camschatcensis* KER-GAWL. in CURTIS's Bot. Mag. XXX. (1809), sub. *t. 1216*; LEDEB. Fl. Ross. IV. (1853), 147; MIYABE & KUDO, Fl. Hokkaido & Saghal. III. (1932), 326; TATEWAKI & KOBAYASHI, Contr. Fl. Aleut. Isl. (1934), 114.

var. ***flavescens*** MAKINO, in Journ. Jap. Bot. VIII. (1932), 24.

NOM. JAP. *Kibana-kuroyuri*.

HAB. *Yezo*: Kushiro, Prov. Kushiro (F. KASAI, VI. 18, 1934); Shitakara, Prov. Kushiro (K. TODOME, VI. 15, 1934).

59. *Pogonia japonica* REICHB. f. in Linnaea XXV. (1852), 228; MAKINO, in Bot. Mag. (Tokyo), XII. (1898), 103; SCHLTR. Orchid. Sino-Jap. Prodr. (1919), 144; MAKINO & NEMOTO, Fl. Jap. ed. 2, (1931), 1673; MIYABE & KUDO, Fl. Hokkaido & Saghal. III. (1932), 371.

form. ***pallescens*** TATEWAKI, form. nov.

Flores albi.

NOM. JAP. *Shirobana-tokisô*.

HAB. *Yezo*: Shizukari, Prov. Iburi (M. TATEWAKI, VII. 10, 1921).

60. *Cypripedium macranthum* Sw. in Act. Acad. Holm. (1800), 250; SCHLTR. Orchid. Sino-Jap. Prodr. (1919), 83; MIYABE & KUDO, Fl. Hokkaido & Saghal. III. (1932), 354.

NOM. JAP. *Hotei-atsumori*.

HAB. *Kuriles*: Isl. Kunashiri (S. Yokoyama, 1891; M. TATEWAKI, 1923).
Isl. Shikotan (M. TATEWAKI, 1934). Isl. Etorofu (S. YOKOYAMA, 1893; M.
AIZAWA, 1900; K. MIURA, 1906; G. TANAKA & KENJI MIYABE, 1910). Isl. Urup
(K. JIMBO, 1891; K. UCHIDA, 1891; S. FUJIMURA, 1891; K. MIURA, 1906; M.
TATEWAKI, 1927; S. ITAGAKI, 1928). Isl. Shimushir (I. KODAMA, 1893). Isl.
Ketoï (M. TATEWAKI & K. TAKAHASHI, 1929). Isl. Mankanru (H. KAMIO, 1929).
Isl. Shumushu (K. KISHIKAWA, 1934).

摘 要

北 日 本 植 物 誌 料 三

宮 部 金 吾・館 脇 操

新 種: 25. セイヤブシ; 36. ユカハザサ。

新 變 種: 26. リシリブシ; 27. シロミノル キエフシヤウマ; 35. ホソバノ キクバクハガタ;
37. フシゲサウウンザサ。

新 品 種: 39. シロバナヤチギバウシユ; 40. シロバナタチギバウシユ。

日 本 に 新 記 録: 34. バラムシロシホガマ。

北 日 本 に 新 記 録: 29. ツリフネカラマツ; 31. タゴバウ; 33. ラカムラサキ; 38. ヒメザ
ゼンソウ。

北海道本島に新記録: 32. ヒメツルコケモモ。

千 島 に 新 記 録: 30. テウセンアハゴケ。

樺 太 に 新 記 録: 28. ハヒヒキノカサ。

北 日 本 植 物 誌 料 四

新 種: 46. エゾミセバヤ; 49. カリバツウギ。

新 變 種: 41. キミノオンコ; 48. ユウバリキンバイ。

新 品 種: 54. シロバナイハギキヤウ; 59. シロバナトキサウ。

新 結 合: 45. ナシマタネツケバナ。

本 邦 に 新 記 録: 47. エゾノイハナヅナ; 53. ミヤマガラガラ。

北 日 本 に 新 記 録: 42. コナノオレ; 43. ミヅ; 51. シロバナミヤマスミレ。

北海道本島に新記録: 50. ナシマウスバスミレ; 57. ノルゲスゲ。

千 島 に 新 記 録: 52. クシロハナシノブ。

樺 太 に 新 記 録: 56. カンチスゲ。

學名變更: 44. カラフトノミノフスマ, クロミノミノフスマ。

其 他: 55. アイアシ (北限); 58. キバナクロユリ; 60. ホテイアツモリ (千島列島の分布)。