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Contribuciones ad Caricologiam Asiae Orientalis

Pars Altera¹⁾

By

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Carex chordorrhiza EHRH. in LINN. f. Suppl. (1781) p. 414; SCHKUHR, Hist. Carex (1802) p. 31. t. G. et II. f. 31; KUNTH, Enum. plant. II (1837) p. 371; ANDERSS. Plant. Scandin. I (1849) p. 69; REICHB. Icon. VIII f. 535; BOOTT, Illustr. Carex IV (1867) p. 204; FR. SCHM. Reis. Amurl. u. Ins. Sachal. p. 67; FRANCH. Carex Asie-orient. n. 37; MEINSH. in Acta Horti Petropol. XVIII (1901) p. 314; OSTENF. Fl. Arct. I (1902) p. 51. f. 18; KÜKENTH. Cyper. Caric. (1909) p. 127.

Nom. Jap. Hime-tsurusuge.

Hab. Korea: Teitek in distr. Kirchuu, rarissima (24. VII. et 3. VIII. 1930. J. OHWI).

New to the Flora of Korea.

Carex phaeothrix OHWI sp. nov.

Eucarex-§ Frigidæ-Mucronatæ.

Rhizoma dense caespitosum estoloniferum, ad collum fibrillosum. Culmus 20-30 cm. altus tenuis acute triqueter, superne axisque scaber. Folia culmo breviora longiorave viridia rigidula 2-3 mm. lata supra margineque scabra, utrinque pluricostata apice longe gradatimque attenuata, plana vel margine leviter revoluta, vaginae inferiores brunneae demum in fibris parallelis solutæ. Inflorescentia 3-5 cm. longa subnutans. Spiculæ 3-5, subcontiguæ vel imâ tantum paullo remota; terminalis lineari-lanceolata 15-20 mm. longa 2-2,5 mm. lata pallida utrinque subacuta breviter (5-8 mm.) pedunculata; laterales late lanceolatae vel oblongae 10-15 mm. longae 2-3 mm. latae subdensiflorae sessiles

1) Continued from Vol. V, p. 292.

vel subsessiles, raro ad basin versus laxiores. Bractee inferiores setaceae virides inflorescentia breviores evaginantes, superiores inconspicuae. Squamae femineae pallidae vel pallide fulvae 3-4 mm. longae, nervo uno dorsali scaberulo ex apice obtuso emarginatulo brevissime mucronatae, basi leviter involventes. Utriculi squamis longiores et vix latiores suberecti tenuiter membranacei pallide virides demum pallidi oblongi compresso-trigoni, praesertim ad basin versus tenerrime (sed distincte) plurinervi, imprimis superne minute adpresso-pilosuli, 4-5,5 mm. longi, basi breviter stipitati, apice in rostrum longum vel longissimum (1,5-2,5 mm.) rectum lineare, imprimis marginibus hispidum ore hyalino profunde bifidum subabrupte abeuntes. Nux utriculum arcte explens compresso-trigona anguste obovato-oblonga 2,7-3 mm. longa. Stylus tenuis rectus inclusus, minute glandulosus, basi aequalis. Stigmata 3, tenuia brunnea mediocriter longa.

Nom. Jap. Iwa-narukosuge.

Typus: Korea, Mt. Hakumusan in distr. Kirchiu (8. VIII. 1930.
J. OHWI) —in Hb. Universitatis Imperialis Kyotoensis.

Carex ochrochlamys OHWI sp. nov.

Vignea-§ Arenariae.

Rhizoma internodiis brevibus repens, tenue, squamis pallide brunneis brevibus tectum. Culmus tenuis 20-30 cm. altus triqueter superne scaber, basi vaginis brunneis integris cinctus. Folia culmo multo breviora pallide viridia submollia plana vel conduplicato-plana ca. 1,5 mm. lata scaberula. Spiculae 4-5, omnes erectae ca. 5 mm. longae pauciflorae sessiles, spicam ebracteata ca. 15 mm. longam sublaxam formantes, inferiores et superiores androgynae vel mere femineae ovatae vel globoso-ovatae, mediae haud raro mere masculae late lanceolatae acutae. Squamae homomorphae ovatae pallidae vel sordide albiae apice acutae vel obtusiusculae, dorso pallido crassiusculo uninerviae. Utriculi squamas paullo superantes vel subaequantes et parum angustiores erecto-patentes pallide flavo-virides demum brunnescentes tenuiter membranacei, leviter nitidi, glabri anguste ovati fere 3 mm. longi crasse plano-convexi, utrinque paucinervi, marginibus angustissime alato-incrassati et infra medium ad apicem usque scabri, basi rotundati, apice in rostrum mediocre latum sensim abeuntes, ore rostri oblique fisso. Nux obovata, vix ultra 1,5 mm. longa, dorso convexa, ventre convexiuscula, utriculo arcte inclusa. Stigmata 2.

Nom. Jap. Hime-hosuge.

Typus: Korea, Mt. Peuk-sorryon in distr. Kirchju, (4. VIII. 1930. J. OHWI)—in Hb. Universitatis Imperialis Kyotoensis.

This plant somewhat resembles to the depauperate form of *Carex accrescens* OHWI (*Carex pallida* C. A. MEY.) which, however, has the stouter rhizomes covered by the dark brown scales, and the broader perigynia are subtended by a green-nerved scale fulvous toward the scarious margin.

Carex atroviridis OHWI sp. nov.

Eucarex-§ Mitratae.

Rhizoma caespitosum. Culmus ad 25 cm. altus tenuis interdum incurvus laevis striatus. Folia crassiuscula mollia culmum superantia vel aequantia 5-6 mm. lata plana laeviuscula obscure viridia subtus pallidiora utrinque nervis pluribus notata, vaginae brunneae nonnullae aphyllae castaneae integrae, ligula truncata dorso leviter ($1/2$ mm.) producta. Spiculae 3-5, terminalis mascula lineari-cylindrica 2-3 cm. longa 2-2,5 mm. lata longe pedunculata erecta; laterales femineae remotae vel ima subradicalis, 1-2 cm. longae pedunculo glabro parum exserto erecto sustentae laxiflorae. Bracteae longe vaginantes aphyllae vel setaceo-laminatae membranaceae virides 1-2 cm. longae. Squamae masculae spathulatae brunneae acutae dorso trinerviae demum sordide fulvae; femineae obovatae 2,5 mm. longae sordide brunneae acutae dorso pallidiorae trinerviae basi subamplectantes. Utriculi squama paullo longiores glabri membranacei suberecti multinervi ovati stipitati, apice in rostrum breve conicum ore bidentatum abrupte abeuntes.

Nom. Jap. Yakushima-suge.

Hab. Kiushiu; Ins. Yakushima (Z. TASHIRO: K. NAGAO et K. YAMAGUCHI).

An ally of *Carex multifolia* OHWI from which it differs in its glabrous utricles and darker leaves which recall *Carex insanae* KOIDZ.

Carex caulorrhiza LÉV. et VAN.

var. **kirigaminensis** var. nov.

Spiculae subfastigiatae longius pedunculatae. Utriculi angustiores, brevius stipitati, in textura tenuiores, squamam obtusiusculam subaequantes.

Hab. Hondo: Mt. Kirigamine in Shinano (10. VII. 1928. J. OHWI—Typus), *ibid.* (10. VI. 1929, M. TAKAHASHI n. 8).

Carex humilis LEYSSER, Flor. Halens. (1761) p. 175;
KÜKENTH. Cyperac. Caric. (1909) p. 493.

Carex lanceolata var. *nana* LÉV. et VAN. in Bull. Acad. Intern.
Geogr. Bot. (1901) p. 269; KÜKENTH. Cyper. Caric. (1909) p. 493.

Carex nanella OHWI in Mem. Coll. Sci., Kyoto Imper. Univ. ser.
B. V. (1930). p. 263.

Nom. Jap. Hosoba-hikage-suge.

Hab. Manchuria, Korea, Kiushiu, Hondo et Yezo.

Carex hakonensis FRANCH. et SAVAT.

var. **capituliformis** (MEINSH.) OHWI comb. nov.

Carex capituliformis MEINSH. in MAXIM. Mém. Biol. XII (1887) p.
563 et in Acta Horti Petrop. XVIII (1901) p. 310.

Carex Onoei (non FRANCH. et SAV.) KÜKENTH. Cyper. Caric. (1909)
p. 101 p. p.

Planta sylvatica, $\frac{2}{3}$ -1,5 pedalis caespites perdensos formans, culmis
crassioribus et flaccidis demum non raro reclinatis, vivace acute, sicco
compresso-triquetris ad angulos scabris, utriculis paullo majoribus (3
mm.) angustioribus utrinque aequaliter tenuistriatis, distincte rostratis,
squamam sesquiplo duplove superantibus.

Nom. Jap. Hikage-harisuge

Hab. Manchuria; Senzan (J. SATO ns. 8 et 61).

Korea; Hapompa in Churon prope Ranan (V. 1930.
J. OHWI), Mt. Kungansan (FAURIE n. 1301).

Hondo; Chugushi in Nikko (IV. 1930. C. HASHIMOTO).

Carex sabynensis LESSING var. **parvula** OHWI var. nov.

Spiculae minores; femineae 1-2, incluse pedunculatae vel sessiles
5-7 mm. longae 3 mm. latae, utriculis parvulis 1,5 mm. longis squamam
fulvam parum superantibus.

Nom. Jap. Hime-kamikawa-suge.

Hab. Manchuria; Hsin-an-ling (J. SATO n. 74).

Carex lasiocarpa EHRH. var. **fuscata** OHWI var. nov.

Spiculae femineae graciliores 1-2 cm. longae, utriculis 3-4 mm.
longis, ovatis vel late ovatis, fusco-tomentosis.

Nom. Jap. Ko-mujinasuge.

Hab. Korea boreali-orientalis; Teitek (24. VII. 1930. J. OHWI n. 2660—Typus), Sosura (J. OHWI n. 484), Kanjan-muri (J. OHWI n. 2881).

Carex sozusensis OHWI sp. nov.

Eucarex-§ Acutae-Caesпитosae.

Rhizoma descendens caespitosum estoloniferum. Culmus bipedalis acute triqueter gracilis scaber, basi squamis aphyllis castaneis dorso subcarinatis parce fibrillosis obtectus. Folia culmum subaequantia 2-3 mm. lata, in sicco involuta, supra glauco-viridia bicostata, subtus viridia unicostata, costis marginibusque scaberrima. Spiculae 6-7, superiores 3-4 masculuae approximatae sessiles 1,5-2,5 cm. longae lineares 2-3 mm. latae erectae; ceterae femineae contiguae cylindricae 2-3 cm. longae 3,5-4 mm. latae sessiles vel ima breviter (5-10 mm.) pedunculata erecta, rhachi scaberrima. Bractee inferiores 1-2 foliaceae marginibus involutae inflorescentia paullo breviores evaginant. Squamae masculuae anguste oblongae 3 mm. longae superne castaneo-fuscae obtusae albo-marginatae, carina pallida ante apicem evanida; femineae anguste oblongae ca. 2 mm. longae atro-fuscae obtusae marginibus albo-hyalinae, carina uninervia viridi ante apicem evanida. Utriculi squamis multo longiores latioresque suberecti tenuiter membranacei elliptici glabri compresso-plano-convexi 2,5-3 mm. longi pallide virides utrinque tenuiter 6-8 nervii, brevissime stipitati, apice rostro brevissimo ore albido integro apiculati. Nux laxa inclusa compresso-plano-convexa obovato-orbiculata sessilis ca. 1,5 mm. longa. Stylus basi aequalis, stigmatibus 2, mediocriter longis crassiusculis.

Nom. Jap. Yachi-azesuge.

Hab. Korea boreali-orientalis; Yuhyo ad fl. Sozusu (19. VI. 1930. J. OHWI n. 1445).

Affinis *C. wiluicae* MEINSH., sed foliis latoribus, spiculis femineis longioribus differt.

Habitu *C. Augustinowiczii* MEINSH. monens.

Carex sadoensis FRANCH. var. **integra** OHWI var. nov.

Spiculae pallidiores, ima basi laxiores. Utriculi rostrum ore integrum.

Hab. Hondo; Kamazaki in Iwaki (7. VIII. 1930. T. SUZUKI).

Carex tumidula OHWI nov.

Forsan hybrida *C. tristachya* THUNBG.

Rhizoma elongatum tenue. Culmus ca. pedalis flaccidus laevis compresso-triqueter fere a basi spiculiferus. Folia culmum aequantia flaccida viridia plana 3 mm. lata laeviuscula supra bi-, subtus unicostata, vagina antico membranacea et ferrugineo-punctata, ligula eximie producta oblique fissa. Spiculae omnes androgynae longe exserte pedunculatae interdum geminae ramosaeve, ovato-lanceolatae ca. 1 cm. longae, parte mascula laxa pauciflora pedunculis erectiusculis laevibus apice parum incrassatis. Vaginae bractearum ampliatae ferrugineo-maculatae, ima ad 3 cm. longa, lamina spiculam duplo superante foliacea. Squamae masculae fere ut in *C. tristachya* THUNBG., femineae oblongae obtusissimae albiae indistincte ferrugineo-maculatae, dorso fascia viridi lata notatae. Utriculi squamas aequantes vel iis breviores ovaes trigoni glabri luteo-brunnei membranacei, praeter carinas 2 prominentes obsolete tantum nervosi, 3,5 mm. longi, basi attenuati, apice in rostrum mediocre abrupte attenuati. Stigmata 3 crassa. Nux matura ignota.

Nom. Jap.

Hab. Shikoku; in Mt. Iwayayama in Iyo (6. VI. 1924. ex Hb. Z. TASHIRO).

Carex aphyllopus KÜKENTH.

var. **aristata** OHWI var. nov.

Spiculae femineae elongatae, cernuae squamis aristatis.

Hab. Hondo; ad pedem Mt. Naebayama in Shinano (14. VII. 1927. J. OHWI).

var. **paludicola** OHWI var. nov.

Culmus ca. pedalis breviter aphyllopus, basi squamis fusco-purpureis tectus. Spiculae approximatae, laterales omnes femineae.

Hab. Hondo; loco humidoso Mt. Kirigamine in Shinano (10. VII. 1928. J. OHWI).

Carex heterolepis BUNGE var. **abbreviata**

OHWI var. nov.

Spiculae femineae abbreviatae perdensiflorae.

Hab. Korea; Kyonson (27. V. 1930. J. OHWI n. 225).

Carex rostrata STOKES var. **hamgyengensis** OHWI var. nov.

Culmus sesqui- vel bipedalis obtuse triqueter, basi leviter incrassatus. Folia canaliculato-plana 3-4 mm. lata marginibus saepe involuta supra glaucescentia. Spiculae masculae 2-5, femineae 2 vel 3, sessiles vel subsessiles 2-3 cm. longae 5 mm. latae densiores erectae dilute castaneae. Utriculi 3 mm. longi apice in rostrum breve breviter bifurcatum abrupte contracti.

Nom. Jap. Numa-suge.

Typus: Korea; Kanjan-muri in distr. Musang (31. VII. 1930. J. OHWI)—in Hb. Universitatis Imperialis Kyotoensis.

Carex rotundata WAHLENB. Inl. Caricogr. (1803) p. 153; KUNTH, Enum. plant. II. p. 451; TREVIR. in LEDEB. Flor. Ross. IV. p. 300; FR. SCHM. Reis. Amurl. Sachal. p. 197; MEINSH. in Acta Horti Petrop. XVIII (1901) p. 376; OSTENF. Flor. Arct. I. f. 73; ROBINS. et FERNALD. GRAY'S New Man. Bot. ed. 7. p. 255. f. 552; HULTEN, Flor. Kamtsch. I. p. 208.

Carex ampullacea Ssp. *rotundata* ANDERSS. Plant. Scandin. I (1849) p. 20. t. VIII. f. 105.

Carex rostrata Ssp. *rotundata* KÜKENTH. Cyper. Caric. (1909) p. 723.

Carex rucsanensis KUDO Flor. Paramushir. (1922) p. 83 et Contrib. Knowl. Flor. North. Saghal. (1923) p. 25.

Nom. Jap. Ko-numasuge.

Hab. Korea: Kanjan-muri in distr. Musang (31. VII. 1930. J. OHWI).

Kuriles: Ins. Shimushir (M. TATEWAKI n. 11801 sub nom. *C. paramushirensis*).

Carex caespitosa LINN. var. **elongata** OHWI var. nov.

Spiculae femineae subclaxiflorae angustiores, utriculis suberectis oblongis.

Nom. Jap. Nagami-kurosuge.

Hab. Sachalin: Kaitsuka (SH. TAKAHASHI n. 5).

Carex glabrescens (KÜKENTH.) OHWI comb. nov.

Carex Wallichiana var. *Miyabei* forma *glabrescens* KÜKENTH. Cyper. Caric. (1909) p. 749; NAKAI Flor. Koreana II (1911) p. 334.

Carex drymophila var. *udensis* KÜKENTH. l. c. p. 755 ex p.; Nakai, l. c.

Carex drymophila var. *pilifera* KÜKENTH. l. c. p. 756; NAKAI, l. c. p. 334.

Rhizoma stolones validos longissimos agens. Culmus subtenuis strictus triqueter sursum scaber pedalis vel bipedalis, basi vaginis aphyllis coriaceis nitidis rubro-purpurascensibus antice in fibris reticulatis dissolutis obtectus. Folia culmos subaequantia cinereo-vididia subrigida septato-nodulosa plana saepe marginibus revoluta, 3,5-4 mm. lata, marginibus scabra, apice gradatim angustata, supra bicostata. Spiculae omnes erectae, superiores masculae 2-3 (-4), anguste lineares 2-4 cm. longae 2,5-3,5 mm. latae, summa et inferiores saepe pedunculatae; reliquae 2 (raro 1 vel 3) femineae parum remotae vel approximatae cylindricae vel breviter cylindricae 4-5 cm. longae 6-8 mm. latae subsessiles vel ima incluse pedunculata. Bractee inferiores 1-2 foliaceae inflorescentiam superantes evaginatae vel interdum ima tantum breviter vaginata. Squamae masculae late oblanceolatae 7-8 mm. longae fusco-purpureae demum decolorantes, obtusae vel subacutae, marginibus superne plus minus hyalinae; femineae anguste ovatae acutae dilute fusco-purpureae anguste albo-marginatae, e dorso lato viridi tricostato scabro-aristatae. Utriculi squamas superantes erecto-patuli flavidi submembranacei demum coriacei 5-6 mm. longi subinflato-trigoni ovati vel late ovati utrinque plurinervi sparsim hirti, basi rotundata breviter stipitati, apice in rostrum mediocre laeve marginibus hispidum ore purpureo profunde bifidum subsensim contracti. Nux laxa inclusa elliptica trigona fere 2,5 mm. longa faciebus convexa. Stylus firmus basi flexuosus, stigmatibus 3 mediocriter longis.

Nom. Jap. Sunaji-suge.

Hab. Korea: Kan-ouento (FAURIE n. 947), Pyen yang (FAURIE n. 949), Seoul (FAURIE n. 948), Ouen-san (FAURIE n. 1380), Mt. Kungansan (FAURIE ns. 1383, 1384), Kyonson (27, V., 1. VI., 12. VI., et 9. VII. 1930. J. OHWI).

Hondo: Sawayama-mura in Hitachi (18. V. 1930. Y. TSURUMACHI).

***Carex fusco-fibrosa* OHWI sp. nov.**

Eucarex-§ Rhomboidales.

Rhizoma repens vix caespitosum, stolones longos tenues squamis subintegris brevibus fuscis tectis agens. Culmus ca. pedalis tenuis

triqueter laeviusculus, basi vaginis atro-fuscis in fibris solutis copiose cinctus. Folia culmum aequantia graminea pallide viridia submollia supra margineque scabra 2-3 mm. lata plana, apice in acumen triquetrum scaberrimum sensim attenuata. Spiculae 2-3 remotae, terminalis mascula oblongoclavata longe pedunculata 15-20 mm. longa ad 5 mm. lata, rufo-fulva; laterales femineae incluse vel parum exserte pedunculatae erectae ovatae ca. 1 cm. longae ca. 6 mm. lata pauciflorae. Bractearum vaginae 5-10 mm. longae pallide virides apice truncatae, breviter setaceo-laminatae. Squamae masculae oblanceolatae truncatae emarginatae cuspidatae 4-5 mm. longae; femineae ovatae fulvescentes vel dilute castaneae, e carina lata clariore scabro-cuspidatae. Utriculi squamas subaequantos oblique patuli membranacei obscuriter pluri-nervi 6,5 mm. longi obovati obsolete trigoni parce puberuli basi parum attenuati, apice in rostrum longum (fere 3 mm.) ore profunde bifidum abrupte contracti, cruribus parum incurvis sed non divergentibus, subulatis longitudine $1/2$ rostri aequantibus. Nux utriculum arcte explens obovata obsolete trigona, facie inferne excavata, basi obliqua, apice stylum inferne flexuosum insidens. Stigmata 3.

Nom. Jap. Hiesuge.

Typus: Korea boreali-orientalis; Kyonson in herbidis siccis (26. V. 1930. J. OHWI)—in Hb. Univers. Imper. Kyoto.

Hab. Manchuria; Huo-lien-chai (K. YAMATSUTA n. 38).

Korea; Sosura (6. VI. 1930. J. OHWI).

Hondo; Midorigaokamura in Hitachi (Y. TSURUMACHI, 11. V. 1925), Mt. Kirigamine in herbidis siccis Shinano, (J. OHWI; T. SUZUKI).

? Kiushiu; Yunotaira-goe in Prov. Bungo (15. V. 1921. Z. TASHIRO, specim., nimis imperfectum).

This plant is *Carex longerostrata* of Hondo. Within Japan, *C. longerostrata* C. A. MEY. is found in North Korea, Sachalin, Yezo and northern part of Hondo; it is easily distinguishable from this species by its dense tuft (not stoloniferous) and by its descending rhizome densely covered by the fibres.

Carex blepharicarpa FRANCH.

var. **hirtifructus** (KÜKENTH.) OHWI comb. nov.

Carex odontostoma var. *sejuncta* KÜKENTH. ex MATSUM. Ind. plant. Japon. II. 1. (1905) p. 123 nomen nudum.

Carex hirtifructus KÜKENTH. in Bull. Herb. Boiss. (1905) p. 1163 et Cyperac. Caric. p. 571.

Nom. Jap. Tsukubasuge.

Hab. Hondo; Mt. Tsukuba in Prov. Hitachi (IV. 1930. J. OHWI)

Carex Maximowiczii MIQ. var. **subsessilis** OHWI var. nov.

Spiculae 5, ovatae, inferiores breviter pedunculatae, superiores subsessiles omnes erectae.

Nom. Jap. Tachi-gocho.

Hab. Hondo; in prov. Bitchu (1930. leg. ?, ex Herb. Z. TASHIRO).

Carex metallica LÉVEILLÉ in FEDDE Repert. V. (1908) p. 239; KÜKENTH. Cyper. Caric. p. 766; NAKAI. Flor. Koreana II. p. 325.

Carex pachinensis HAYATA, Icon. plant. Formos. X (1920) p. 58. f. 33.

Carex alliiformis (non C. B. CLARKE) HAYATA l. c. 67. f. 43.

Nom. Jap. Fusasuge.

Hab. Korea; Ins. Quelpaert (FAURIE n. 2261; TAQUET n. 2220).

Kiushiu; Mt. Minawasan in Chikugo (24. V. 1930. Z. TASHIRO), Gin-sui-mura in Miikegori, Chikugo (22. V. 1921. Y. NABESHIMA), Nishi-kawa-zoi-mura in Sagagori, Hizen (10. V. 1921. K. YAMASHITA), Koiwai in Buzen (1927. T. YAMAZAKI). Ushifuka in Ins. Amakusa (17. V. 1931. TANIYAMA).

Shikoku; Yoshinosho-mura in Kita-uwagori, Iyo (M. OGATA).

Liukiu; Utchina (S. SAKAGUCHI).

Formosa; Toyen (FAURIE n. 14), Pachina (FAURIE).

Carex senanensis OHWI sp. nov.

Vignea-§ Elongatae.

Carex Deweyana (non SCHWEIN.) KÜKENTH. Cyper. Caric. (1909) p. 233 quoad pl. Japon.

A *C. Bolanderi* OLNEY cui arcte affinis, squamis pallidis, utriculis basi conspicue stipitatis, rostro apice profundius bifido differt.

Rhizoma caespitosum estoloniferum. Culmus 1-2-pedalis gracilis acute (in sicco compresso-) triqueter sursum scaber, ad 1/3 usque foliatus flaccidus. Folia culmum aequantia vel eo breviora flaccida pallide viridia laeviuscula 2-4 mm. lata apice attenuata, supra tenuiter bicostata subtus unicostata plana; ligula oblique fissa; vaginae inferiores membranaceae tenuiter striatae, inferne brunneae. Spiculae 7-9, oblongae vel oblongo-cylindricae raro abbreviatae obovatae ca. 1 cm. longae

3-4 mm. latae erectae omnes gynaeandreae basi flores masculos paucos gerentes superiores subfastigiatae vel approximatae inferiores 1-2 remotae. Bractea ima setacea 2-4 cm. longa; sequentes 1-2 spiculam subaequant. Squamae homomorphae ovatae tenuiter membranaceae inferne indistincte multi-nervulosae pallidae vel pallescentes, e dorso viridicarinato super apicem acutum brevissime mucronatae. Utriculi squamis paullo longiores aequilati suberecti tenuiter membranacei planiusculo-convexi ovato-lanceolati pallide virides glabri subnervi 4 mm. longi, basi spongiosa stipitati, apice in rostrum fere 2 mm. longum planum marginibus scabrum sensim attenuati, ore profunde bifido, cruribus erectis subulatis acuminatis ca. 1/2 mm. longis. Nux arcte explens compresso-biconvexa trapeziformi-ovata albida, stylo tenui deciduo basi subincrassato terminata. Stigmata 2 tenuia breviter.

Nom. Jap. Hosuge.

Hab. Hondo; Mt. Hakusan in Kaga (Z. TASHIRO-Typus), ibidem (J. OHWI), Kamikochi in Shinano (J. SUGIMOTO n. 13702), in Prov. Shinano (K. MAYEBARA n. 54), Mt. Norikura (FAURIE n. 6486), Shimajimadani in Shinano (Z. TASHIRO).

Carex chrysolepis FRANCH. et SAVAT. Enum. plant. Japon. II (1876) pp. 144 et 571; FRANCH. Carex. Asie-orient. n. 187; MATSUM. Ind. plant. Japon. II. 1. (1905) p. 105 partim. non aliorum.

Nom. Jap. Ko-iwa-kansuge.

Hab. Kiushiu; Mt. Higashi-kirishimayama in Hiuga (18. V. 1913. Z. TASHIRO), Mt. Unzen (28. IV. 1927. Z. TASHIRO), Mt. Aso (V. 1913. K. MAYEBARA n. 10), ibidem (21. V. 1916. H. KODZUMA), Mt. Kurodake in Bungo (6. VII. 1926. Z. TASHIRO).

forma **asoensis** (LÉV. et VAN.) OHWI.

Carex picea var. *asoensis* LÉV. et VAN. in Bull. Acad. Intern. Geogr. Bot. (1901) p. 224 (sphalmate *asensis*).

Carex odontostoma var. *variegata* KÜKENTH. in Bull. Herb. Boiss. (1905) p. 1163 partim et Cyper. Caric. (1909) p. 571 partim.

Squamae piceae.

Hab. Kiushiu; Mt. Aso (FAURIE ns. 2844, 2846).

forma **variegata** (KÜKENTH.) OHWI.

Carex odontostoma var. *variegata* KÜKENTH. l. c. pp. (1905) 1163 et (1909) 571 ex parte.

Spicula angusta elongata.

Hab. Kiushiu; Mt. Sobosan (FAURIE n. 2835).

var. **odontostoma** (KÜKENTH.) OHWI comb. nov.

Carex odontostoma KÜKENTH. l. c. pp. (1905) 1162 et (1909) 571.

Carex stenantha (non FRANCH. et SAVAT.) LÉV. et VAN. l. c. (1902)

p. 105 p.p.

Nom. Jap. Miyama-iwasuge.

Hab. Kiushiu: Mt. Sobosan (FAURIE n. 2835 partim), Mt. Aso
(16. V. 1928. Y. DOI).

var. **glabrior** OHWI comb. nov.

Carex odontostoma var. *glabrior* OHWI in Mem. Coll. Sci., Kyoto
Imp. Univ. ser. B. V. (1930) p. 253.

Nom. Jap. Kansai-iwasuge.

Hab. Hondo.

var. **kiusiuana** OHWI comb. nov.

Carex kiusiuana OHWI, l. c. p. 268.

Nom. Jap. Tsukushi-shojosuge.

Hab. Kiushiu, in montibus.

Carex Makinoensis FRANCH. in Bull. Soc. philom. Paris (1895)
p. 47 et *Carex* Asie-orient. n. 229. pl. 4. f. 1; MATSUM. Ind. plant.
Japon. II. 1. p. 119; LÉV. et VAN. in Bull. Acad. Intern. Geogr. Bot.
(1902) p. 107.

Carex chrysolepis (non FRANCH. et SAVAT.) LÉV. et VAN. l. c.
(1901) p. 278; MATSUM. Ind. plant. Japon. II. 1. p. 105. p.p.; KÜKENTH.
Cyper. Caric. p. 564. f. 93 A-F (excl. pl. e Kirishima et ? Formosa).

Carex sikokiana (non FRANCH. et SAV.) MAK. in Bot. Mag. Tokyo
VI (1892) p. 47.

Nom. Jap. Iwa-kansuge.

forma **macrocarpa** OHWI.

Utriculi 6–8 mm. longi.

Hab. Kiushiu; Kawanamimura in Hiuga (26. III. 1923. I.
NAGATOMO-Typus), Kajiki in Ohsumi (20. III.
1923. Z. TASHIRO).

forma **brevirostrata** OHWI.

Spicula ima interdum subradicalis longissime pedunculata. Utriculi
breviter rostrati.

Hab. Kiushiu; Mt. Shakumayama in Bungo (9. IV. 1922. F.
TOMIHISA).

Carex Morrowii BOOTT

Subsp. **foliosissima** FR. SCHM. Reis. Amurl. Sachal. (1868) p. 196. t. VI. f. 1-6 (pro spec.) nec FRANCH. non KÜKENTH.

Carex niigatensis KOIDZ. Flor. Symbol. Orient. Asiat. (1930) p. 46.

Carex Morrowii (non BOOTT) FRANCH. Carex Asie-orient. n. 205 pro maj. p.; KÜKENTH. Cyper. Caric. p. 626 pro maj. p.

Carex yosanensis FRANCH. in Bull. Soc. philom. Paris 8 ser. VII. (1895) p. 88 et l. c. n. 204.

Nom. Jap. Okuno-kansuge.

Hab. Sachalin, Yezo, Hondo et Kiushiu.

var. **latissima** OHWI nom. nov.

Carex Morrowii var. *crassicaulis* (non FRANCH.) KÜKENTH. Cyper. Caric. (1909) p. 626 (descr. et specim. citat.).

Nom. Jap. Hababirosuge.

Hab. Hondo; Tottori (FAURIE n. 2824), Mt. Bunagatake in Ohmi (TASHIRO: J. OHWI), Chiimura in Tamba (G. KOIDZUMI), Kashiwagi in Yamato (G. KOIDZUMI), Mt. Namerayama in Suwo (T. ODA)

Kiushiu; Mt. Shakagatake in Chikugo (T. SUGINO) Tsutami-mura in Bungo (T. YAMAZAKI), Mt. Inugatake in Buzen (T. YAMAZAKI).

Carex impura OHWI nov.

Eucarex-§ Acutae.

Culmus bipedalis erectus subtenuis acute triqueter laeviusculus, basi vaginis aphyllis fusco-rubris cinctus. Folia culmo breviora glaucescentia plana sublaevia ca. 5 mm. lata mollia, marginibus revoluta supra bicostata apice breviter acuminata. Spiculae 4-5, approximatae sessiles erectae; superiores 1-2 masculae lineari-cylindricae 2-3,5 cm. longae brunneo-purpureae demum decolorantes; inferiores 2-3 raro 4 femineae breviter cylindricae 1-2 cm. longae 5 mm. latae. Bractea ima evaginans inflorescentiam 2-3-plo superans foliacea. Squamae masculae ovatae brunneo-purpureae saepe striolato-maculatae, dorso lato pallido trinerviae, apice mucronato-aristatae. Utriculi squamis paullo longiores suberecti membranacei oblongo-ovati brunnescentes turgiduli utrinque tenuiter 4-5-nervii glabri 3,5 mm. longi sessiles apice in rostrum mediocre subexcurvum ore hyalino integrum sensim abeuntes. Nux matura ignota. Stylus crassiusculus inclusus basi aequalis, stigmatibus 2 brevibus.

Nom. Jap. Hiruzen-suge (Z. TASHIRO).

Hab. Hondo; Mt. Hiruzen in Mimasaka (10. VIII. 1930. Z. TASHIRO).

Carex subbracteata (KÜKENTH.) OHWI comb. nov.

Carex pisiformis var. *subbracteata* KÜKENTH. Cyper. Caric. (1909)
P. 477.

Carex ebracteata (non TRAUTV.) KOMAR. Flor. Manchur. I (1901)
P. 393.

Rhizoma repens stolones longos tenues horizontaliter emittens non caespitosum. Culmus pedalis vel sesquipedalis erectus demum reclinatus flaccidus trigonus laevis. Folia culmum subaequantia elongata pallide viridia plana apice sensim angustata flaccida 2 vel raro 3 mm. lata supra bicostata margine inferne retrorsum, superne antrorsum scabra, vaginae foliiferae brunneae demum in fibris parallelis sparsim solutae. Inflorescentia 4-8 cm. longa. Spiculae 2-3 remotae vel distantes; terminalis mascula lineari-lanceolata vel subclavata 1-2 cm. longa pedunculata; laterales femineae cylindricae vel oblongo-cylindricae incluse pedunculatae erectae densiflorae 1-2 cm. longae 3,5 mm. latae. Bracteae pallide virides tubuloso-vaginantibus setaceo-laminatae spicula breviores, ima vagina 5-10 mm. longa antice hyalino-membranacea. Squamae masculae obovato-spathulatae fulvae marginibus scarosae obtusae 4-5 mm. longae dorso fascia pallida inferne trinervia infra apicem evanida notatae, femineae late obovatae oblique patentes fulvae marginibus vix dilutiores, nervo unico pallide viridi scaberulo percursae, apice obtusissimae mucronulatae vel raro breviter aristatae. Utriculi squamis paullo longiores oblique patentes obovati obsolete trigoni pallide vel fulvo-virides 2,5 mm. longi, praeter carinas obsolete paucinervi, parce puberuli, basi sessili obpyramidales, apice in rostrum breve conicum ore hyalino emarginato-bidentatum abrupte contracti. Nux late ovata obsolete trigona 1,5 mm. longa facie inferne excavata, apice constricta annulata. Stylus brevis basi conica incrassatus, stigmatibus 3 brevibus ca. 1 mm. longis brevissime papillosis.

Nom. Jap. Tsuru-shibasuge.

Hab. Korea; Sadgidon in Musang (18. VI. 1930. J. OHWI), Mt. Sadgiryon (17. VI. 1930. J. OHWI), Champen in distr. Musang (23. VI. 1930. J. OHWI), Kyonson (1. VI. 1930. J. OHWI), Mt. Kongosan (FAURIE n. 1354).

Carex pisiformis BOOTT in A. GRAY, Perry Expedit. II (1857)
p. 324 non aliorum.

Carex amphora FRANCH. et SAVAT. Enum. plant. Japon. II (1876)
pp. 142 et 566.

Rhizoma caespites parvos formans. Culmus ca. pedalis erectus gracilis obtuse triqueter laevis alte foliatus flaccidus. Folia culmum aequantia vel superantia pallide viridia graminea mollia elongata plana apice sensim attenuata 3 mm. lata subtus laevia, supra bicostata, costis marginibusque antrorsum scabra, vaginae brunneae parce fibrillosae, ligula truncata. Inflorescentia 10-15, raro ad 20 cm. longa. Spiculae 3, distantes; terminalis mascula straminea linearis 2,5-3 mm. longa erecta longe pedunculata; laterales femineae breviter cylindricae incluse vel paullo exserte pedunculatae erectae subdensiflorae 15-20 mm. longae 3,5 mm. latae. Bractee virides vaginantes, ima vagina 15-30 mm. longa, lamina angusta 3-5 cm. longa spiculam superante, ligula antica membranacea plerumque basin laminae excedente. Squamae masculae obovato-spathulatae tenerrime membranaceae 6-7 mm. longae obtusae, dorso fascia pallida sub apice evanida percursae, femineae obovatae pallidae vel pallide stramineae hyalino-marginatae inferne pluri striatae, dorso fascia viridi trinervi laevi super apicem rotundatum vel truncatum in mucronulum laevem excurrente percursae. Utriculi squamis paullo longiores obovato-elliptici pallide virides membranacei obtuse trigoni multinervi parce pilosi 3,5 mm. longi, basi attenuata stipitati, apice in rostrum mediocre (ca. 1 mm.) ore hyalino bidentatum abrupte contracti. Nux obovata obtuse trigona 1,5 mm. longa apice constricta annulata. Stylus brevis basi conica incrassatus, stigmatibus 3 mediocriter longis (2 mm.) papillosis.

Nom. Jap. Honmonji-suge.

Hab. Hondo; Nishizumura in Prov. Idzu (J. SUGIMOTO n. C8),
Hakone (T. SAWADA n. 24) ibid. (SAVATIER).

My best thanks are due to Prof. Dr. H. LECOMTE in Muséum d' Histoire naturelle, Paris, who kindly lent me several type-specimens of Carices including that of *C. amphora* FRANCH. et SAVAT., and to Dr. C. WEATHERBY of the GRAY Herbarium, who kindly compared the SUGIMOTO specimen with the authentic material of BOOTT for me.

Carex stenostachys FRANCH. et SAVAT. Enum. plant. Japon. II.
(1876) pp. 142 et 569.

Rhizoma abbreviatum estoloniferum, caespites perdensos formans.

Culmus pedalis vel sesquipedalis obtuse triqueter gracilis sed firmus erectus sursum parce scaber inferne brevi-foliatus. Folia culmum aequantia vel paullo superantia basi conduplicato-plana sursum plana rigidula pallide viridia ca. 3 mm. lata utrinque striata supra bicostata scabra, marginibus et subtus ad costas antrorsum scabra, vaginae fuscae spadiceae nonnullae aphyllae integrae coriaceae. Inflorescentia 5-15 cm. longa. Spiculae 3, superiores contiguae infima remota vel distans; terminalis mascula linearis erecta 2-3 cm. longa breviter pedunculata; laterales femineae breviter vel oblongo-cylindricae erectae incluse pedunculatae vel sessiles 15-20 mm. longae 3-3,5 mm. latae densiflorae. Bractee virides subarcte vaginantes, ima vagina 1-2 cm. longa ore antice interdum basin laminae excedente, lamina angusta spiculam sesquiplo duplove superante 2-4 cm. longa. Squamae masculae fuscobrunneae obovato-oblongae 4-5 mm. longae marginibus hyalinae, apice rotundatae mucronatae, dorso stramineo trinerviae, femineae obovatae fuscobrunneae marginibus sursum hyalinae rotundatae, e dorso stramineo trinervi mucronatae. Utriculi squamis paullo longiores ovato-elliptici obtuse trigoni 3 mm. longi membranacei stramineo-virides multinervi pilosi basi cuneata stipitati, apice in rostrum breviusculum ore bidentulum subabrupte contracti. Nux late ovata 1,5 mm. longa obtuse trigona apice abrupte constricta annulata. Stylus brevis basi pyramidalis, stigmatibus 3 brevibus 1,5 mm. longis tenerrime papillosis.

Nom. Jap. Nishino-honmonji-suge.

Hab. Hondo; montagne de Gifu (FAURIE n. 7773), Ins. Sado (FAURIE n. 2553), Mt. Ibuki (FAURIE n. 7800-7802), Shinokubi in Kashimamura, Prov. Harima (Z. TASHIRO), Manisan in Inaba (N. KINASHI), Iwado in Kuninakamura, Prov. Inaba (S. TANAKA), Takahashi in Bitchu (Z. TASHIRO), ibidem (Z. YOSHINO), Genbudo in Tajima (Z. TASHIRO), Yoshidamura in Iwami (TAMURA), Shirakawa in Kyoto (N. KINASHI; J. OHWI), Minomo in Settsu (Z. TASHIRO), Mt. Rokko in Settsu (SH. KURIYAMA), Tottori (FAURIE n. 2798), Eihei-ji in Yechigo (Y. HORI), Mt. Takao in Yamashiro (N. KINASHI), Mt. Fujiwaradake in Ise (G. KOIDZUMI).

Carex polyschoena LÉV. et VAN. in Bull. Acad. Intern. Geogr. Bot. (1903) p. 9.

Carex pisiformis forma *polyschoena* KÜKENTH. Cyper. Caric. (1909) p. 477.

Carex indistinctum LÉV. et VAN. in Fedde Repert. V. (1908) p. 194; NAKAI, Flor. Koreana, II. p. 335.

Carex pisiformis (non BOOTT) BAKER et MOORE in Journ. Linn. Soc. XVII (1880) p. 389; C. B. CLARKE, ibidem, XXXVI (1904) p. 304; LÉV. et VAN. in Bull. Acad. Intern. Geogr. Bot. (1910) p. 8 (tantam pl. FAURIE n. 1362).

Carex pisiformis var. *pallescens* KÜKENTH. fide manuscr. FAURIEI.
Nom. Jap. Shiro-honmonji-suge.

Hab. Kiushiu; Ins. Tsushima (FAURIE n. 4928).

Korea; Mt. Kumgansan (FAURIE ns. 1362, 1436, 1437),
Pomasa (FAURIE n. 1360), Mokpo (FAURIE ns.
(1), 2265, 2302), Seoul (FAURIE n. 927) Ouen-
san (FAURIE n. 1352), Kyonson (26. V. 1930.
J. OHWI), Churon prope Kyonson (30. V. 1930. J.
OHWI), Mt. Musan-ryon (15 VI. 1930, J. OHWI).
Manchuria; Mt. Feng-huang-shan (K. YAMATSUTA ns. 7, 51).

Carex accrescens OHWI nom. nov.

Carex pallida (non SALISB. 1796) C. A. MEY. in "Mem. Acad. St.-Petersb." I (1831) p. 215; KÜKENTH. Cyper. Caric. (1909) p. 134.

Carex siccata BOOTT, Illustr. I (1858) p. 19 pp.; FRANCH. Carex Asie-orient. n. 26; MEINSH. in Acta Horti Petrop. XVIII (1901) p. 319 (non DEW. 1826).

Rhizoma subvalidum longe repens squamis fusco-brunneis demum sursum fibrillosis tectum cylindraceum remotiuscule ramosum. Culmus ad bipedalis solitarius raro geminus acute triqueter scaber erectus alte foliatus, basi squamis fusco-brunneis subintegris superioribus breviter foliiferis striatis cinctus. Folia culmum aequantia vel breviora pallide viridia graminea plana 3-5 mm. lata sensim acuminata scabriuscula. Spiculae plures oblongae vel ovatae 5-10 mm. longae pluriflorae, spicam oblongo-cylindricam densiusculam basi saepe interruptam formantes androgynae vel mediae mere masculae erectiusculae. Squamae ovatae subacutae fulvescentes late viridi-carinatae marginibus late albo-hyalinae. Utriculi squamas superantes suberecti demum superne subexcurvi membranacci ovati compressi marginibus late alati et ciliato-scabri

4-4,5 mm. longi pallide virides utrinque imprimis superne parce adpresso-puberuli dorso plurinervii basi stipitati apice in rostrum longiusculum antice sulcatum ore bifidum sensim attenuati.

Nom. Jap. Usuiro-suge sive Yezo-kawazusuge.

Typus: Korea; Kyonson (14. VI. 1930. J. OHWI).

Distrib. Siberia orientalis, Kamtschatka, regio Baikalensis,

Manchuria, Korea, Amuria, Sachalin, Yezo.

Carex cuneata OHWI sp. nov.

Eucarex-§ Mitratae.

Carex pisiformis (non BOOTT) Auct. plur.

Rhizoma laxe caespitosum stolones tenues breves fusco- vel brunneo-squamatos agens. Culmus pedalis et ultra, gracilis erectus triquetus sursum scaber vel scabriusculus inferne vaginis longis breviter laminatis alte cinctus. Folia culmo breviora demum elongata rigidiuscula plana pallide viridia supra costulata, subtus unicostata costulataque, utrinque et marginibus scabra, basi brunneo-fusca parce fibrillosa. Spiculae 3-5, inferiores vel omnes remotae; terminalis mascula oblongo-linearis 15-20 mm. longa; laterales femineae oblongo-cylindricae incluse pedunculatae vel sessiles, erectae 1-2 cm. longae 3,5-4 mm. latae densiflorae. Bractee vaginantes breviter foliaceae; vagina ima 1-3 cm. longa viridis non amplata apice truncata; lamina vix 1 mm. lata viridis spiculum superans vel subaequans. Squamae masculae fulvae obovato-spathulatae 4-5 mm. longae ad marginem versus gradatim dilutiores, superne deltoideae, apice acuto vel obtusulo brevissime mucronatae, dorso subtrinerviae; femineae obovatae brunneo-fulvae vix albo-marginatae dorso dilutiore sursum scaberulo uni- vel inferne trinerviae breviter cuspinatae. Utriculi squamas aequantes erectopatentes late ovati membranacei pallide virides obtuse trigoni vix 3 mm. longi pubescentes multicostrati, basi cuneata conspicue stipitati, apice in rostrum mediocre inferne tumidum ore hyalino leviter bidentatum abrupte contracti. Nux late ovata vel obovata perobtuse trigona papilloso-punctulata fusca opaca 1,5 mm. longa, basi abrupte angustata, apice constricta annulata. Stylus brevis basi pyramidalis, stigmatibus 3.

Nom. Jap. Michinoku-honmonji-suge.

Hab. Hondo; Aomori (N. KINASHI in 1909-Typus), ibidem (FAURIE ns. 130, 5168, 1113, 5549, 151, 244), Mt. Iwagisan (FAURIE ns. 92, 94), Takayu (FAURIE n. 5550). Hirosaki (FAURIE ns. 43, 1112), Akita

(FAURIE ns. 2067, 2049, 2070, 2078 : SH. MURAMATSU n. 5), Mt. Godoyama prope Yamagata (M. KATO), Nambu (FAURIE ns. 2164, 2179), Kuroishi (FAURIE n. 14), in collibus Ibaraki (FAURIE n. 4428), Kominato (FAURIE n. 247).

Yezo ; Sapporo (FAURIE n. 235).

Carex planiculmis KOMAR. in Acta Horti Petrop. XVIII (1901) p. 448 ; KÜKENTH Cyper. Caric. p. 621.

Carex japonica var. *naipiagensis* LÉVEILLÉ in Bull. Soc. Bot. France (1904) p. 206.

Carex japonica var. *chlorostachys* forma *naipiagensis* LÉVEILLÉ in Bull. Acad. Intern. Geogr. Bot. (1910) p. 48.

Carex japonica var. *chlorostachys* KÜKENTH. Cyper. Caric. (1909) p. 620 pro min. p.

Carex paniculigera NAKAI in FEDDE Repert. (1915) p. 244.

Nom. Jap. Hikage-shirasuge.

Hab. Manchuria ; Soh-ka-koh (31. V. 1927. J. SATO n. 36).

Korea ; Mt. Musan-ryon (15. VI. 1930. J. OHWI), Mt. Sadgiryon (17. VI. 1930. J. OHWI), ad pedem Mts. Sorryon (26. VI. 1930. J. *OHWI), Churon prope Kyonson (30. V. 1930. J. OHWI), in montibus ca. Ouensan (FAURIE n. 1377), Naipiang (FAURIE n. 929 bis).

Hondo ; ad pedem Mt. Yatsugatake (19. 1928. J. OHWI), Mt. Kitazawatoge in Kami-inagori, Shinano (19. VIII. 1929. J. OHWI), ad pedem Mt. Naeba in Shinano (17. VII. 1927. J. OHWI), Osegahara in Kozuke (26. VII. 1930. S. SAKAGUCHI n. 13 p.p.), Kamata in Hida (Z. TASHIRO), Mt. Yatsugatake in Shinano (M. Takahashi ns. 14-18).

Yezo ; Mt. Kurodake in Ishikari (12. VIII. 1927. N. HIRATSUKA).

Carex Prescottiana BOOTT.

var. **flabellata** (LÉV. et VAN.) OHWI comb. nov.

Carex flabellata LÉV. et VAN. in Bull. Acad. Intern. Geogr. Bot. (1902) p. 111.

Carex Prescottiana (non BOOTT) FRANCH. *Carex*. *Asie-orient.* n. 101; LÉV. et VAN. I. c. (1903) p. 504; MATSUM. *Ind. plant. Japon.* II. I. (1905) p. 127; KÜKENTH. *Cyper.* *Caric.* p. 355 ex p.

Culmus medio plerumque nudus, cum axe pedunculisque laevis-simus. Spiculae longius pedunculatae.

Nom. Jap. Yama-tekirisuge sive Namera-tekirisuge.

Hab. Hondo; Aomori (FAURIE ns. 1073, 5162, 5180, 5539, 6466), Ubayu (FAURIE n. 5538), Shirakawa (FAURIE n. 5535), Kamitsuge (FAURIE n. 2739), Nara (FAURIE n. 2745), Hirugano in Mino (J. OHWI), Mt. Hira in Ohmi (J. OHWI), Mt. Mikamiyama in Ohmi (C. HASHIMOTO), Tottori (FAURIE ns. 2742, 2743), Sakashitamura in Suwo (T. KUNINOBU).

Yezo; Esashi (FAURIE n. 3873), Yesan (FAURIE n. 3052), Tokachi (FAURIE n. 6468).

Carex Rochebrunni FRANCH. et SAVAT.

var. **remotispicula** (HAYATA) OHWI comb. nov.

Carexremotispicula HAYATA, *Icon. plant. Formos.* X. (1920) p. 57. Utriculi 4 mm. longi squamas subsuperantes ventre subnervi.

Nom. Jap.

Hab. Formosa; Mt. Arisan 2500 m. (FAURIE n. 17).

Carex multifolia OHWI in *Mem. Coll. Sci., Kyoto Imper. Univers.* ser. B. V. (1930) p. 264.

var. **pallidisquama** OHWI var. nov.

Squamae masculae et femineae pallidae.

Hab. Hondo; Mt. Katsuragi in Yamato (J. V. 1927. Z. TASHIRO Typus), Imoyama in Yamato (IV. 1924. Y. OKAMOTO), Hokokurin in Kawakamigori, Bitchu (IV. 1929. Z. YOSHINO).

Shikoku; Inai-toge in Iyo (V. 1924. J. ISHIKAWA), in Shusogori. in Iyo (V. 1929. I. YOGO).

var. **stolonifera** OHWI var. nov.

Utriculi glabri. Rhizoma stoloniferum.

Hab. Kiushiu; Mt. Seburiyama (V. 1927. Y. DOI).

Var. **globosa** OHWI var. nov.

Utriculi glabri globoso-elliptici utrinque contracti.

Hab. Hondo; Mt. Hakusan in Kaga (17. VII. 1929. Z. TASHIRO).
var. **imbecillis** OHWI var. nov.

Rhizoma stolones satis longos tenues squamis stramineis membranaceis obtectos emittens. Culmus gracilior. Folia mollia flaccida utrinque minute papillosa, vaginae stramineae striatae. Spiculae pallidae. Utriculi 4 mm. longi.

Hab. Kiushiu; Mt. Boroishiyama in Hiuga (11. IV. 1920. Z. TASHIRO-Typus), Takaoka in Kita-morokatagori, Hiuga (V. 1911. leg.?).

Carex sikokiana FRANCH. et SAVAT. Enum. plant. Japon. II. (1878) p. 573; FRANCH. Carex Asiae-orient. n. 237; MATSUM. Ind. plant. Japon. II. i (1905) p. 133.

Carex tenuissima var. *sikokiana* KÜKENTH. Cyper. Caric. (1909) p. 475 (tantum pl. SAVAT. n. 3556).

Nom. Jap. Kwansai-oh-itosuge (Z. TASHIRO).

Hab. Hondo; Mt. Kongosan in Kawachi (Z. TASHIRO: S. SAKAGUCHI n. 33), Mt. Katsuragi in Kawachi (Z. TASHIRO), Obadani in Yamato (J. OHWI).

Shikoku; Mt. Nametokoyama in Iyo (M. OGATA), Iwayadera in Iyo (J. ISHIKAWA) Shirai-toge in Iyo (SH. YAGI), Saramine in Iyo (ex Herb. M. OGATA).

Kiushiu; Minami-hatamura in Chikushigori, Prov. Chikuzen (Y. DOKI), Mt. Seburiyama in Chikuzen (T. ICHIKAWA).

Carex alterniflora FRANCH. et SAVAT.

var. **tenuinervis** OHWI in Mem. Coll. Sci., Kyoto Imp. Univ. ser. B. V. 1930) p. 266 (pro spec.).

Hab. Kiushiu, communis.

var. **arimaensis** OHWI var. nov.

Culmus humilis, non caespitosus, stolones epigeos longos tenues agens.

Nom. Jap. Tsuru-itosuge.

Hab. Hondo; Arima in Prov. Settsu (23. V. 1929. Z. TASHIRO).

var. **aureo-brunnea** OHWI var. nov.

Stolonifera, vaginae foliorum exteriorum aureo-brunneae nitidulae.

Hab. Kiushiu; Atamura in Hikigori, Satsuma (30. III. 1928. T. NISHIKAMI-Typus).

Shikoku; Nanafuchi in Tosa (6. IV. 1924. SH. YAGI).

var. **elongatula** OHWI var. nov.

Laxiuscule caespitosa, utriculis late obovatis in rostrum longum (subaequilongum) abrupte contractis.

Nom. Jap. Kuju-suge.

Hab. Kiushu; Mt. Motoyama in Mts. Kuju, in Bungo (11. VI. 1928. Z. TASHIRO-Typus), in Mt. Kuju in Bungo (J. SUGIMOTO n. 12469).

Carex Taquetii LÉVEILLÉ in FEDDE Repert. VIII (1910) p. 426
= *Carex viridissima* NAKAI in Bot. Mag. Tokyo XXXI (1917) p. 281
= **Carex Matsumurai** FRANCH. in Bull. Soc. philom. Paris 8 ser. VII (1895) p. 50.

Carex subumbellata MEINSH. in Acta Horti Petrop. XVIII (1901) p. 395; KÜKENTH. Cyper. Caric. p. 453.

Carex Wardiana LÉV. et VAN. in Bull. Acad. Intern. Geogr. Bot. X (Dec. 1901) p. 276.

Carex multifiliculis LÉV et VAN. l. c. (1909) p. 34 ex. p.

Carex caryophyllca Ssp. *nervata* f. *dissita* KÜKENTH. in Allg. Bot. Zeitschr. (1909) p. 36; LÉV'l. in FEDDE Repert. VII (1909) p. 104.

Carex breviculis Ssp. *Royleana* forma *Wardiana* KÜKENTH. Cyper. Caric. (1909) p. 470 partim.

Carex depressa var. *subumbellata* KÜKENTH. in Bull. Acad. Intern. Geogr. Bot. (1911) p. 74 et in Journ. Russe Botan. (1911) p. 125 f. 105.

Rhizoma caespitosum descendens estoloniferum. Spiculae 3-5, ima saepissime subradicalis et longissime pedunculata, ceterae apice culmi approximatae exserte pedunculatae. Utriculi suberecti sparsissime minutissimeque pulveraceo-puberuli haud raro demum glabri obovato-oblongi, rostro brevi conico nec applanato, marginibus vix nervato basi annulato.

Nom. Jap. Miyakesuge.

Hab. Sachalin; Vladimirof (FAURIE n. 920), Korsakof (FAURIE n. 906), ibid. (FAURIE ns. 905, 938 partim), Otomari (SH. TAKAHASHI n. 39; Y. HARADA ns. 7, 108, 113a).

Yezo; Ins. Rebunshiri (FAURIE ns. 2779 et 2806).

var. **verecunda** OHWI var. nov.

Carex Heribaudiana LÉV. et VAN. in Bull. Acad. Intern. Geogr. Bot. (1901) p. 275 partim.

Carex artimux C. B. CLARKE in Kew Bull. add. ser. VIII (1908) p. 81 partim.

Carex caryophyllca Ssp. *nervata* var. *microtricha* KÜKENTH. Cyper. Car. (1909) 466 partim,

Rhizoma breve, dense caespitosum estoloniferum. Spiculae omnes fastigiatae vel ima tantum paullo remota, incluse pedunculatae. Bractea ima breviter foliacea spiculam superans. Utriculi etiam maturi suberecti fere glabri ovali-fusifformes in rostrum subsensim contracti, squamam ferrugineo-castaneam cuspidatam paullo superantes.

Nom. Jap. Kumoma-shibasuge.

Hab. Hondo; Mt. Myokosan (FAURIE n. 1106 partim), Mt. Yatsugatake in Prov. Shinano (8. VII. 1928. J. OHWI-Typus), Mt. Senjogatake in Shinano (21. VII. 1928. J. OHWI), Mt. Kitadake in Kai (24. VIII. 1929. J. OHWI), Mt. Hakusan in Kaga (10. VII. 1929. J. OHWI).

var. **koreana** OHWI var. nov.

Bractea ima setacea quam spicula brevior, longius vaginans. Spiculae omnes remotae longe exserte pedunculatae interdum ima subradicalis longissime pedunculata. Utriculi glabri vel glabrescentes ovali-fusifformes, squamam ferrugineo-castaneam apice in cuspidem laeviusculam longe desinentem subaequant.

Nom. Jap. Chosen-kumoma-shibasuge.

Hab. Korea boreali-orientalis; in regione alpina montis Sorryon (25. VI. 1930. J. OHWI).

Carex Augustinowiczii MEINSH. var. **macrogyna**

OHWI var. nov.

Folia ad 5 mm. lata. Utriculi 4 mm. longi squamam sesquiplo duplove superantes.

Nom. Jap.

Hab. Sachalin; in valle montis Susuyazan (20. VII. 1930. SH. SUGAWARA n. 6).

Carex rigida GOOD. in "Trans. Linn. Soc. II (1794) p. 193"; SCHUHR, Hist. Carex (1802) p. 71. t. U. f. 71; REICHB. Icon. VIII. f. 578; MEINSH. in Acta Horti Petrop. XVIII (1901) p. 336 partim; OSTENF. Flor. Arct. I (1902) p. 77. f. 52; KÜKENTH. Cyper. Caric. p. 299. fig. 46, A-E.

Nom. Jap. Ohaguro-suge.

Hab. Korea boreali-orientalis; in regione alpina montibus Sorryon (25. VI. 1930. J. OHWI).

New to the Flora of Korea.

Carex praestabilis OHWI sp. nov.

Eucarex-§ Mitratae.

? *Carex umbrosa* Ssp. *sabynensis* var. *stolonifera* KÜKENTH. Cyper. Caric. (1909) p. 468 p.p.

Rhizoma vix caespitosum stolones satis longos tenuissimos agens, ad collum fibrillosum. Culmus 20–30 cm. altus erectus gracilis obtuse triqueter laevis sulcatus. Folia demum elongata ad 100 cm. longa mollia pallide viridia sensim acuminata ad 2 mm. lata plana scaberula, vaginae inferiores brunneae solutae. Inflorescentia ca. 3 cm. longa, e spiculis 3–4 approximatis composita erecta. Spicula terminalis mascula lineari-oblongata ca. 15 mm. longa 2–2,5 mm. lata breviter vel brevissime pedunculata obtusa; spiculae laterales femineae oblongae ca. 1 cm. longae 3 mm. latae subdensiflorae sessiles vel ima incluse pedunculatae erectae: pedunculis aequae laevibus. Bractae ima breviter (2–4 mm.) vaginata viridis, lamina setacea 3–7 mm. longa, $\frac{1}{2}$ spiculae aequante. Squamae masculae fulvae obovato-spathulatae 4 mm. longae, vix marginatae, obtusissimae vel obtusae, dorso viridi uninerviae; femineae obovatae superne fulvae, dorso lato pallide viridi uni- vel obsolete trinervio super apicem rotundatum vel subtruncatum non vel brevissime cuspidatae. Utriculi obovati squamis paullo longiores 3 mm. longi obtuse trigoni pallide virides, praeter costas 2 prominentes tenuiter nervosi, sparse hirtuli membranacei, basi cuneata brevissime stipitati, apice in rostrum breve conicum ore hyalino bidentatum abrupte contracti. Nux arcte explens obtuse trigona obovata tricostata, facie inferne concava, basi stipitata, apice constricta et in discum minutum producta. Styli basis incrassata, stigmatibus 3.

Nom. Jap. Tsuru-kamikawasuge.

Hab. Hondo; Mt. Kurakakeyama in Shimotsuke (25. V. 1931. H. SEKIMOTO-Typus), Komau in Shiroyamamura, Shimotsuke (21. V. 1931. H. SEKIMOTO n. 4).

A. *C. sabynensi* LESS. et *C. umbrosa* HOST, rhizomate vix caespitoso, stolones longos emittente, ore rostri distincte bidentata differt. *C. nervatae* FRANCH. et SAV. affinis ob habitum stoloniferum, quae tamen foliis multo brevioribus, foliorum vaginis subintegris, rostro utriculi brevioris differt.

Carex ouensanensis OHWI sp. nov.

Eucarex-§ Acutae- Forficulae.

Rhizoma caespitosum. Culmus ca. 40 cm. altus acute triqueter

laevis. Folia culmo paullo longiora molliuscula plana 3-4 mm. lata sensim acuminata margine revoluta scabra supra bi-, subtus unicostata, vaginae exteriores nonnullae aphyllae non coriaceae pallide brunneae, vix fibrillosae. Inflorescentia ca. 10 cm. longa 4-spiculata. Spicula terminalis mascula lineari-cylindrica 2 cm. longa 3 mm. lata pedunculata; laterales femineae breviter cylindricae 15-20 mm. longae sessiles vel subsessiles subdensiflorae, superiores contiguae, ima parum remota. Bractea ima foliacea culmum subaequans evaginans. Squamae masculae fusco-rufae uninerviae apice rotundatae; femineae ovato-oblongae fuscae obtusulae, dorso pallido trinerviae, marginibus angustissime albo-hyalinae. Utriculi suberecti squamis sublongiores et duplo latiores 2,5 mm. longi elliptici membranacei fuscescentes plano-convexi enervi, sursum minute albido-punctati, marginibus acuti, basi sessiles, apice in rostrum brevissimum ore albido integrum abrupte abeuntes. Nux arcte inclusa obovata. Stigmata 2.

Nom. Jap.

Hab. Korea; in montibus Ouen-san (FAURIE n. 1438).

C. micranthae KÜKENTH. affinis, sed foliis non rigidis, latioribus, vaginis inferioribus mollioribus pallide brunneis, utriculis majoribus differt.

Carex Koidzumiana OHWI nom. nov.

Carex semiplena var. *tenuinervis* KÜKENTH. in Bull. Herb. Boiss. 3 sér. II. (1902) p. 1018.

Carex micrantha var. *tenuinervis* KÜKENTH. Cyper. Caric. (1909) p. 341.

Rhizoma caespitosum, videtur estoloniferum. Culmus 3-4 dm. altus tenuis acute triqueter, sursum scaber subphyllopodus. Folia demum elongata 3-4 mm. lata plana marginibus involuta, supra bi-, subtus unicostata, marginibus costisque superne scabra, firmula, vaginae exteriores foliiferae dilute castaneae non carinatae subintegrae, nonnullae aphyllae breviores. Inflorescentia 4-5 cm. longa erecta, e spiculis 4 subapproximatis composita. Spiculae superiores 1-2 masculae 1-2 cm. longae lineares; inferiores 2-3 femineae oblongo-cylindricae sessiles vel subsessiles densiflorae 10-15 mm. longae 3,5 mm. latae erectae. Bractea ima foliacea inflorescentiam aequans evaginans, marginibus involutis scaberrima. Squamae masculae decolorantifuscae; femineae ovatae atrofuscae obtusae anguste albo-marginatae, dorso pallido uni- vel obsolete trinerviae. Utriculi squamis conspicue longiores latioresque late elliptici tenuiter membranacei superne minute punctati glaberrimi vix 3 mm. longi compressi (sed demum turgidi?) ferruginei obsolete 3-5-nervi, basi

breviter stipitati, apice rostro brevissimo integro apiculari. Nux orbicularis parva compressa. Stigmata 2.

Nom. Jap. Ko-azesuge.

Hab. Korea; Kan-ouen-to (FAURIE n. 919 partim)—in Herb. Univers. Imper. Kyoto.

A *C. micrantha* KÜKENTH., culmo subphyllopedo, foliis latioribus marginibus involutis, utriculis latioribus tenuissime nervatis, nuce multo minore differt.

Carex graciliculmis OHWI sp. nov.

Eucarex-§ Paludosae.

Rhizoma laxè caespitosum breviter stoloniferum. Culmus ca. 40-60 cm. altus subtenuis laevis strictus striatus triqueter. Folia culmum subaequantia glauco-viridia laeviuscula submollia 2-3 raro ad 5 mm. lata supra 2-, subtus 1-costata septatonodulosa, marginibus revoluta plana vel conduplicato-plana, apice sensim longe attenuata; vaginae inferiores marcidæ brunneae molliusculae, interiores saepe rubescentes vix fibrillosae; ligula obliqua dorso ovata leviter producta albida. Spiculae 3-5; masculae 2-3, lineari-cylindricae approximatae 3-4 cm. longae erectae (laterales bractea squamiformi suffultae minores sessiles); inferiores 1-2 femineae oblongae vel oblongo-cylindricae densiflorae sessiles vel incluse pedunculatae erectae 2-3 cm. longae inter se et a masculis remotae. Bractea ima foliacea inflorescentia parum brevior 10-20 cm. longa basi antice auriculata vel raro vaginam brevem formans. Squamae masculae lanceolatae brunneo-purpureae 5 mm. longae obtusae vel eroso-truncatae, dorso fascia lata pallidiore notatae; femineae oblongo-lanceolatae atro-fusco-purpureae, 4 mm. longae, e dorso lato viridi, trinervi super apicem emarginato-obtusum in cuspidem latiusculam sublaevem brevem productae. Utriculi suberecti squamis parum longiores 5 mm. longi coriacei anguste oblongi glaberrimi nitiduli tenuiter multinervi compresso-trigoni luteo-virides sessiles, in rostrum breve ore albido rigido breviter bifurcatum subsensim abeuntes, cruribus $1/3$ mm. longis rectis glabris subulatis. Nux compresso-trigona elliptica stipitata, stylo crasso incluso recto superne papilloso-scaberulo persistente, basi non incrassato, stigmatibus 3, parum exsertis. Antherae lineares 3.5 mm. longae mucronatae.

Nom. Jap. Musha-suge.

Hab. Korea; Sosura, ad ostium fluv. Tumingan (4. VI. 1930. J. OHWI-Typus)—in Hb. Univ. Imper. Kyoto.

? Sachalin; Taraika (11. VIII. 1927. SH. SUGAWARA !?).

Ad *C. kirganicam* KOMAR. (ex descript.) proxima, a qua differt, culmo humiliore, spiculis femineis brevioribus squamis femineis cuspidatis marginibus vix albo-hyalinis quam utriculis paullo tantum brevioribus. A *C. rugulosa* KÜKENTH. habitu multo tenuiore, foliis angustioribus, spiculis masculis angustis differt.

Carex Otayai OHWI hybrida? nov.

? *C. aphyllopus* KÜKENTH. × *C. podogyna* FRANCH. et SAVAT.

Rhizoma caespitosum. Culmus 60-80 cm. altus validiusculus superne longe nudus acute triqueter sursum scaber. Folia sterilia evoluta longa, fertilia ca. 2, brevia molliuscula 4-5 mm. lata 3-5 cm. longa acuminata, subtus subglauca, supra bicostata, marginibus scabra; vaginae laxae antice membranaceae ore obliquo ferrugineae, exteriores aphyllae rubescentes reticulato-fibrosae. Inflorescentia 10-15 cm. longa secunda. Spiculae superiores 2-4 masculae cylindricae vel subclavatae pedunculatae 3-4 cm. longae 4-5 mm. latae fastigiatae, reliquae 2-3 androgynae cylindricae 4-6 cm. longae fastigiatae vel approximatae longe pedunculatae cernuae, parte feminea quam mascula longiore vel brevior 6-7 mm. latae. Bractee evaginantur foliaceae inferiores inflorescentiam subaequantur. Squamae masculae obovato-lanceolatae fusco-purpureae 5 mm. longae acutae cuspidatae vix albo-marginatae, e dorso viridi tricostato aristatae, arista scabra 2-5 mm. longa. Utriculi ovato-oblongi squamis breviores suberecti 4 mm. longi pallide virides glabri tenuiter membranacei enervi turgido-biconvexi, marginibus perparce scabri vel laeviusculi, breviter stipitati, apice in rostrum breve laeve, ore purpureo emarginatum subsensim abeuntes. Nux immatura laxa, oblonga 2 mm. longa. Stigmata 2.

Nom. Jap. Nagae-suge

Hab. Hondo; Karakitogein Yetchu (24. V. 1931. TAsAKU OTAYA).

Carex Yoshinoi OHWI nov. sp.

Eucarex-§ Digitatae.

Rhizoma lignosum descendens videtur caespitosum. Culmum pedalis erectus compresso-triqueter sursum ad angulos scaber. Folia culmo breviora rigidula plana vel conduplicato-plana vivide viridia sursum sensim angustata, costis marginibusque scabra, vaginae exteriores fusco-brunneae vel ferrugineo-striatae mox fibrosae. Spiculae 5; terminalis mascula clavato-linearis 2 cm. longa 2 mm. lata breviter pedunculata

erecta; laterales 4 femineae cylindricae 3 mm latae subdensiflorae erectae incluse pedunculatae vel superiores subsessiles approximatae ima remota 2 cm. longa. Bractearum vaginae spathaceae virides 15 20 mm. longae antice hyalinae orō ferrugineo oblique fissae brachpphyllae, laminis quam spiculis multo brevioribus setaceis. Squamae masculae obovato-spathulatae 4 mm. longae apice rotundatae brunneo-ferrugineae marginibus angustiores, e dorso unicastato clariore mucronatae; femineae late obovatae sanguineo-purpureae marginibus perlate hyalinae, e dorso unicastato obscuriore super apicem rotundatum vel truncatum mucronatae. Utriculi squamas aequantes suberecti elliptici membranacei pallide virides superne purpurascens 2,5 mm. longi nervosi glabriusculi vel ad costas 2 superne hispiduli, obtuse trigoni, basi crasse stipitati, apice in rostrum breve conicum excurvum ore integrum abrupte contracti. Nux elliptica obtuse trigona 1,5 mm. longa stipitata, apice non annulata. Stylus brevis basi subaequalis, stigmatibus 3 mediocriter longis crassiusculis.

Nom. Jap. Murasaki-himekansuge.

Hab. Hondo; Narai, Jobogori in Bitchiu (17. V. 1931. Z. YOSHINO n. 120).

CORRIGENDA

- Vol. V. No. 3 page 249 line 7 *for* acuminatae, *read* acuminatum.
- „ page 254 line 25 *for* Sawa-hinasuge, *read* Sawa-himesuge.
- „ page 255 line 2 *for* Korai-hinasuge, *read* Korai-himesuge.
- „ page 259 line 1 *for* non Fr. 1879, *read* (non Franch. 1879).
- „ page 259 line 2 *after* 1897 *put a parenthesis and omit the period.*
- „ page 259 line 13 *for* pauciflores, *read* pauciflorae.
- „ page 261 line 2 *after* §, *put* Rhomboidales.
- „ page 263 lines 12 & 16 *for* ♀, *read* ♂.
- „ page 269 line 3 *for* hincrassatus, *read* incrassatus.
- „ page 272 line 16 *for* reduced, *read* raised.
- „ page 275 line 18 *for* (1923), *read* (1924).
- „ page 277 line 9 *omit* Shinano.
- „ page 277 line 12 & 13 *for* *Lehmannii* and *Lehmanii*, *read* *Lehmanni*.
- „ page 280 line 8 *for* matulate, *read* maculate.
- „ page 284 line 23 *for* intergris, *read* integris.
- „ page 289 lines 4-5 *omit the citation of* Proc. Linn. Soc. & Trans. Linn. Soc.
- „ page 289 line 15 *for* subtended by a, *read* and the.

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