

## Contribution to the Orchid Flora of the Ryûkyû Archipelago\* II.

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福山伯明：琉球列島のラン II (正宗巖敬編)

6) **Thrixspermum neglectum** FUKUYAMA, sp. nov. (Sect. *Dendrocolla* Bl.)

Epiphyticum, subrectum, pumilus, c. 3-5 cm. altum, caulibus abbreviatis c. 1 cm. altis teretibus cum vaginis foliorum toto facie obtectis ad basin radicanibus, radicibus elongatis flexuosis filiformibus c. 1 mm. diametentibus. Folia 3-5-7, plana, laevigata, coriacea, approximativ et alternativ disposita, angulo 45° a caule divaricata, oblonga, ad summum oblique simpliciter apiculata vel minute biapiculata, margine integra, ad basin contracta, cum vaginis equitantibus c. 4 mm. longis multinerviatis articulata, lamina c. 2-5 cm. longa, medio 8 mm. lata, utrinque viridia, glabra, ad costam supra sulcata, subtus subcarinatim paululo elevata. Scapus axillaris, foliis longior vel brevior, pergracilis, substrictus, viridis, glaber, distante (1-2)-squamatus, squamis minutis deltoideis, rhachibus brevibus paulo incrassatis viridibus glabris dense bracteis, bracteis deltoideis pedicellis multo brevioribus vix 1 mm. longis. Flores subclausi, albicantes, pedicellis cum ovariis subrectis gracilibus glabris c. 2.5-4 mm. longis. Sepalum intermedium album, ellipticum vel obovatum, apice rotundato-obtusum, basi angustatum, concavulum, c. 4 mm. longum, medio 2.5 mm. latum, membranaceum, glabrum; sepala lateralia alba, late elliptica, paulo obliqua, apice obtusiuscula, basi contracta, sepalo intermedio aequilonga sed latiora. Petala late elliptica, paulo obliqua, apice obtusa, basi contracta, sepalo intermedio subaequilonga sed latiora. Labellum albicans, ad basin et margine anteriore intus fluvidum, interdum extus prope basin fluvido-notatum, basi pede columnae articulatum, 3-lobum, c. 3 mm. altum, inter apices lorum lateralium c. 7 mm. latum, intus prope apicem callis duobus globosis dense pilosis luteis instructum, partibus lateralibus exterioribus callorum processibus linearibus dispositum, infra callos lamellis luteis vel fluvidis instructum, lobis lateralibus erectis subfalcato-ligulatis apice crenulatis, lobo intermedio obsolete semiorbiculato vel deltoideo interdum plus minusve denticulato. Columna brevis, subrecta, c. 1 mm. longa, basi ad pedem c. 2 mm. longum producta. Anthera orbiculato-cucullata. Nom. Jap. Hagakure-nagamiran (FUKUYAMA NOV.).

Häb. Ryûkyû. Ins. Iriomote: in laurisilvis praeter flumen Umuti-gawa, ad Hutamata (N. FUKUYAMA, *Jap.* 5, 1938, n. 7448). Formosa. Praef. Taihoku: in laurisilvis praeter flumen Tôgo-kei, ad Agyoku (N. FUKUYAMA, *Dec.* 28, 1935. Colitur in horto et floret in mense Mai, 1936, n. 7447-Typus in Herb. Nation. Taiwan Univ.).

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Distrib. Formosa, Ryūkyū.

Near to *Thalictrum kusukusensis* HAYATA, but distinguishable from it by the broader sepals and petals and the denticulate side lobes of the lip.

7) **Staurochilus luchuensis** FUKUYAMA, comb. nov.—*Stauroopsis luchuensis* ROLFE, in Kew Bull. (1907) 131.—*Pandopsis luchuensis* SCHLECHTER, in FEDDE Repert. X, 196 (1911).—*Cleisostoma ionosumum* LINDL. form. *luchuense* MAKINO, in Tokyo Bot. Mag. XXI, 60 (1907).

Nom. Jap. Nyūmeman, Iriomoteran.

Hab. Ryūkyū. Ins. Isigaki: in silvis montis Omoto-dake. (fide E. TAKAMINE olim.).

Distrib. Ryūkyū australis.

8) **Cheirostylis liukuensis** MASAMUNE, in Journ. Soc. Trop. Agr. Taihoku Imp. Univ. Formosa, II, 36 (1930).—*Cheirostylis Kanashiroi* OHWI, in Act. Phytotax. et Geobot. VII, 134 (1938).

Nom. Jap. Akaba-syusuran (MASAMUNE), Okumarān (OHWI).

Hab. Ryūkyū. Ins. Uchina: KUNIGAMI (S. SONOHARA, typus in Herb. Nation. Taiwan Univ.); in monte Kat'u-dake (Y. TAIRA, *Mart.* 30, 1939, n. 492.); in monte Kūrū (Y. TAIRA, *Mart.* 6, 1938, n. 222.).

The original description of *C. Kanashiroi* OHWI is satisfactory coincide with the type specimen of *C. liukuensis* MASAMUNE preserved in our herbarium. I consider that these species may be conspecific, in which case *C. liukuensis* MASAMUNE would by priority become the name of the species.

9) **Calanthe amamiana** FUKUYAMA, sp. nov. (Sect. *Calothyrsus*).

Terrestris, caulescens, c. 30 cm. alta; radices filiformes, elongatae, leviter flexuosae, haud ramosae, sicco sulcatae, glabrae vel villosulae. Folia vulgo 1-2, basilaria, suberecta, elliptica, apice acuta, margine integra, basi in petiolum gracilem abeuntia; lamina c. 15-20 cm. longa, medio fere 5-6 cm. lata, sicco membranacea, utrinque glabra, subtus prominente 5-nervia, inter nervos venulosa; petiolum quam lamina plus minusve brevior vel subaequans, strictus, extus striato-nervosus, involutus, glaber; folia juniora basi vaginis amplectentibus paucis instructa. Scapus ex fasciculo foliorum oriundus, foliis subaequilongus, strictus, gracilis, teres, pubescens, distante pauci-squamatus, superiore laxe fere 4-florus; bractae persistentes, ovato-lanceolatae, acuminatae, c. 5 mm. longae, glabrae. Flores in genere mediocres, color mihi nondum notus; pedicellus cum ovario erecto-patens, rectus vel arcuatus, c. 15 mm. longus, puberulus. Sepalum intermedium oblongo-ellipticum, apice acutum, ad basin angustatum, c. 17 mm. longum, membranaceum, glabrum 5-nervium; sepala lateralia intermedio similia sed paullo obliqua. Petala linearia, lente falcata, apice acuta, basin versus vix attenuata, sepalis paullo breviora, membranacea, glabra, 3-nervia. Labellum glabrum, calcaratum; limbus c. 10 mm. longus, c. 12 mm. latus, infra medium 3-lobus; lobus intermedius oblongus, 6 mm. longus, medio c. 2.5 mm. latus, apicem versus plus minusve dilatatus, apice submarginatus cum

apiculo interjectus, medio lamellis 3 inconspicuis parallelis ornatus; lobi laterales intermedio majores, oblique quadrato-obovati, c. 4 mm. lati; calcar paullo arcuatum, cylindricum, apice subacutum, glabrum, c. lem. longum. Columna brevis, crassa, antice adscendens.

Nom. Jap. Amami-ebine (FUKUYAMA nov.).

Hab. Ryūkyū. Ins. Oshima: sine loco speciali (T. KAMIYA, *Ann. 1, 1910*, n. 7443-Typus in Nation. Taiwan Univ.).

It resembles *Calanthe nipponica* MAKINO, but the details of the lip are characteristic. The side lobes are much broader than the inner one, the spur is twice as long.

10) *Goodyera Senoharae* FUKUYAMA, sp. nov.

Terrestris, erecta, pusilla, 10-15 cm. alta, rhizomate decumbente cauliformi tereti viride glabro laevi ad nodos radicante, radicibus vermiformibus villosis. Caulis simplex, erectus, teres, glaber, basi laxe sensum subconferite (5-8)-foliatus, supra folia vaginulis paucis erectis acutis obsessus, inflorescentiam versus dense glanduloso-pilosus. Folia erecto-patentia, ovata vel ovato-oblonga, apice apiculata, basi contracta, subito ad petiolum abeuntia, lamina 2-3 cm. longa, infra medium 1-1.7 cm. lata, margine integra, vivo undulata, supra subsericeo-laevigata, toto viridia, utrinque glabra, papyracea, 5-nervia, inter nervos reticulato-venulosa, sensum in vaginulae decrecentia, petiolis 1-1.2 cm. longis glabris basi dilatata vaginantibus. Inflorescentia subconferite multi flora, parte florifera c. 3-5 cm. longa; rhachis brevis; bracteis suberectis lanceolatis subulato-acuminatis dorso hirsutis pedicellis longitudine paullo superantibus. Flores subelausi, vide collectoris pallide olivaceo-rosei, extus hirsuti, pedicellis rectis teretibus dense glanduloso-pilosis c. 7 mm. longis. Sepalum intermedium naviculiforme concavum, oblongum, apice obtusum, basi paullo constrictum, c. 6.5 mm. longum, infra medium explanate 3-3.5 mm. latum, extus breve hirsutum, intus glabrum, membranaceum, trinerviū. Sepala lateralia ovato-oblonga, paullo obliqua, apice obtusa, basi vix contracta, sepalo intermedio subaequilonga vel breviora, c. 5 mm. lata, extus brevis hirsuta, intus glabra, membranacea, tri-nervia. Petala oblique semirhomboida, apice acutiuscula, basi cuneatocongustata, c. 6 mm. longa, medio 2 mm. lata, utrinque glabra, membranacea, 1-nervia. Labellum crassiusculum, marginem versus membranaceum, subrectum, globosocucullatum, antice in lobulum brevem obtusiusculum productum, c. 4.5-5 mm. longum, c. 2-2½ mm. altum, extus glabrum, intus pilis longis sparsim instructum.

Nom. Jap. Kunigami-syusuran (nov.).

Hab. Ryūkyū. Ins. Okinawa-hontō: in laurisilvis inter Hentona et Aha (S. SENOHARA, *Sept. 1935*, n. 7017-Typus in Herb. Nat. Taiwan Univ.); in laurisilvis montis Taniu-take (N. FUKUYAMA, *Sept. 1, 38*, n. 7448).

Near to *Goodyera morrisonicola* HAYATA, but distinguishable from it by the smaller hirsute flowers and differently shaped lips.

11) *Goodyera commelinoides* FUKUYAMA, sp. nov.