

## Studia Orchidacearum Japonicarum. X.<sup>1,2</sup>

### Orchidaceae Formosanae Novae vel Minus Cognitae.

Auctore

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With 1 Text-figures.

Received January 26, 1938.

#### 84) *Cephalanthera alpicola* FUKUYAMA, sp. nov.

Terrestris, erecta, 20–40 cm. alta, radicibus filiformibus rigidulis flexuosis, caule stricto vel substricto glabro basi vaginæ paucis amplectentibus instructo ceterum sublaxe (5–8)-foliato.

Folia erecto-patentia vel suberecta, elliptico-lanceolata vel lanceolata, apice acuta vel acuminata, basi contracta, c. 4–10 cm. longa, 6–20 mm. lata, in exsiccato membranacea, utrinque glabra, multi-nervata.

Racemus erectus, glaber, laxè vel subdense (3–12)-floratus, bracteis plerumque minutis deltoideis acutis sed interdum inferioribus lineari-lanceolatis et pedicellos paulo superantibus, pedicellis cum ovariiis 5–10 mm. longis rectis glabris.

Flores subclausi, albidi, erecto-patentes vel suberecti. Sepala aequilonga et subaequiformia, anguste oblonga, e medio apicem versus sensim angustata, ad summam acuta, basi paullo contracta, c. 1 cm. longa, medio 3 mm. lata, membranacea, glabra, 5-nervata. Petala elliptica, apice acuta, basi contracta, quam sepala breviora, c. 8 mm. longa, medio 4 mm. lata, membranacea, glabra, 5-nervata.

Labellum quam sepala bene brevius, c. 6–7 mm. longum, medio trilobum; hypochilium obtuse saccato-concavum et extra basin sepalorum lateralium plus minusve prominens, intus medio rugoso-carinatum, lobis lateralibus late et oblique triangulato-ovatis apice rotundato-obtusis margine integris, lobo intermedio (epichilio) lobis lateralibus bene majore ovato-semiorbiculato apice obtuso et recurvo c. 3 mm. longo medio 5 mm. lato lamellis 3–5 subparallelis e basi usque ad medium instructo infra apicem papillis minutissimis dense consperso. Columna erecta, glabra, semiteres, cum anthera vix 7 mm. alta. Capsula erecta, elongato-cylindrica.

Nom. Jap. Hatunatu-ginran (nov.).

1) Continued from Bot. Mag. (Tokyo), 51 (1937), 906.

2) The expense of the study has been partly defrayed from the subsidy granted by the Japan Society for the Promotion of Scientific Research.

but the shorter racemes and densely arranged scales make it different. In the floral structure, though very difficult to examine after drying, I cannot detect any constant difference between typical form and this variety.

88) **Liparis amabilis** FUKUYAMA, sp. nov.

Terréstris, pusilla, c. 5 cm. alta, rhizomate abbreviato, pseudobulbis valde approximatis globosis lateraliter paulo compressis c. 1 cm. altis a reliquis squamarum obtectis apice uni-foliatis, foliis erecto-patentibus ovatis vel ovato-ellipticis apice acutis vel obtusis basin versus in petiolum brevem vaginantem decurrentibus tenuiter membraneis petiolis inclusis c. 1-2 cm. longis utrinque glabris.

Scapus folia superans, strictus, glaber, anceps, apice (1-2)-florus, bracteis minimis deltoideis acutis glabris, pedicellis cum ovariis gracilibus erecto-patentibus bracteis multo superantibus c. 6-10 mm. longis glabris.

Flores late aperti, speciosi, glabri; sepala linearia, revoluta, apice acuta vel obtusiuscula, c. 1.2 cm. longa, medio c. 3 mm. lata, membranacea, glabra, integra, tri-nervia; petala sepalis subaequilonga sed bene angustiora, c.  $\frac{1}{2}$  mm. lata, membranacea, glabra, integra, uni-nervia.

Labellum amplum, supra albescens et rubro- vel potius purpureo-lineatum, orbiculatum, apice rotundatum, ad summam mucronatum, ad basin paulo cuneatum, ad infimam sagittatum, margine perminute ciliolatum, c. 12 mm. in longitudine et latitudine, bi-lamellatum, lamellis parallelis basi confluentibus crassiusculis supra basin ad supra medium decurrentibus, partibus sagittiformibus basilaribus brevibus c.  $1\frac{1}{2}$  mm. longis obtusis latere posteriore oblique excisis. Columna anteriore arcuata, c. 5 mm. longa, glabra, basi valde incrassata, auriculis abbreviato-truncata. Capsula triquetra, oblongoidea, pedicello paulo longior, c. 1 cm. longa.

Nom. Jap. Kurenai-suzumusi (nov.).

Hab. Formosa: Praef. Taihoku; in laurisilvis humidis prope cacumen montis Kapo-san, in altitudine 900 m. s. m., (SUZUKI-TOKIO! Apr. 13, 1935. no. 6397. Typus in Herb. Univ. Imp. Taihokensis).

A pretty dwarf plant with fairly large white flowers, remarkable for the ample lip coloured with rose purple veins. It seems to be nearest to *L. Sasakii* HAY., but it is distinguished from it chiefly by the floral characters.

89) **Bulbophyllum Tokioi** FUKUYAMA, in Bot. Mag. (Tokyo) XLIX. (1935) p. 439.

form. **alboviride** FUKUYAMA, form. nov.

Differt a forma typica scapis et floribus albo-viridibus.

Nom. Jap. Ao-hagakure-mamedutaran (nov.).

Hab. Formosa: Praef. Sintiku; in laurisilvis prope Inoue; in altitu-

dine 600 m. s. m., (K. SEGAWA! Jan. 1, 1936. Colitur in horto, et floret in Apr. 1936. no. 6102. Typus in Herb. Univ. Imp. Taihokensis).

This form is not local, and, as far as I have seen, occurs with the light purple coloured typical form. But the form. *alboviride* is much less abundant than the typical *B. Tokioi*, which grows commonly on trees, especially in the lower laurisilvae of north Formosa.

90) *Sarcochilus laurisilvaticus* FUKUYAMA, sp. nov.

Epiphyticus, pumilus, patulus, caulibus abbreviatis teretibus cum vaginis foliorum obtectis radicanibus, radicibus elongatis crasse filiformibus c. 1-1½ mm. diametentibus flexuosis glabratis.

Folia pauca, patentia, lineari-oblonga, planiuscula, apice acuta vel mucronato-acuta, basi attenuata et tortuosa, cum vaginis articulata, margine integra, c. 3.5 cm. longa, medio 8 mm. lata, carnosula, utrinque viridia et glabra, medio indistincte uni-nervia.

Racemi axillares, quam folia breviores, pauci-flori, rhachibus simplicibus clavatis pauci-squamatis viridibus glabris. Bractea deltoidea, pallide viridis, quam pedicellus multo brevior, c. 1 mm. longa.

Flores late aperti, albo-lutescentes vel lutescentes, pedicellis gracilibus viridibus glabris. Sepalum intermedium ovatum, apice obtusum, basi paulo contractum, c. 6 mm. longum, vix 4 mm. latum, utrinque glabrum, in siccate 5-nerve; sepala lateralia intermedio similia sed paulo obliqua. Petala lutescentia, recurva, lineari-oblonga, apice obtusa vel acutiuscula, basi vix vel haud contracta, c. 6 mm. longa, 2 mm. lata, utrinque glabra, uni-nervia.

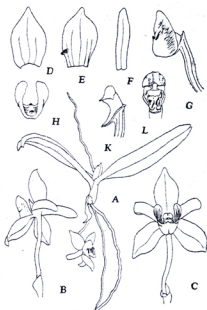


Fig. 1. *Sarcochilus laurisilvaticus* FUKUYAMA.

A. Habitus  $\times$  ca. 1. B. Flos latere visus  $\times$  ca. 2. C. Flos anteriore visus  $\times$  ca. 2. D. Sepalum intermedium  $\times$  ca. 2½. E. Sepalum laterale  $\times$  ca. 2½. F. Petalum explanatum  $\times$  ca. 2½. G. Labellum cum pedicello latere visum  $\times$  ca. 2½. H. Labellum posteriore visum  $\times$  ca. 2½. K. Columna latere visa  $\times$  ca. 4. L. Columna anteriore visa  $\times$  ca. 4.

Labellum pedi columnae affixum, lutescens, intus purpureo-striatum, supra basin gibbo dense piloso instructum, tri-lobum, lobis lateralibus erectis ligulatis apice rotundatis mem-