

Studia Orchidacearum Japonicarum V*

Orchidaceae Formosanae Novae Atque Criticae

auctore

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With 1 Text-Figure

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41) ***Calanthe pumila*** FUKUYAMA, sp. nov.

Terrestris, pumila, c. 20 cm. alta, radicibus teretibus rigidiusculis filiformibus leviter flexuosis puberulis sicco c. 1.5–2 mm. diametentibus.

Folia 4–5, basilaria, suberecta, linearia vel oblanceolato-linearia, apice acuminatissima, basi in petiolum angustum basi vaginantem longe decurrentia, c. 20–30 cm. longa, supra medium c. 8–13 mm. lata, in exsicco tenuiter coriacea, utrinque glabra, subtus prominente trinervia, inter nervos venulosa.

Scapus e basi fasciculi foliorum oriundus, strictus, glaber, foliis vulgo brevior, c. 15–18 cm. longus, medio c. 2.5 mm. in diametro, remote 4–5-vaginatus, vaginis apice apiculatis ad basin tubiformibus et amplectentibus membranaceis utrinque glabris c. 1.8 cm. longis superioribus minoribus, racemo florifero c. 3 cm. longo subdense florato, bracteis caducis lanceolatis apice acuminatis basi paullo contractis membranaceis subhyalinis glabris.

Flores albescentes, subapertientes, pedicellis cum ovariis rectis c. 1.2 cm. longis glabris. Sepalum intermedium oblongum, apice acuminatum, ad basin plus minusve contractum, c. 1 cm. longum, medio c. 4 mm. latum, utrinque glabrum, membranaceum, trinervatum, sepalis lateralibus intermedio similibus sed paullo longioribus obliquisque. Petala orbiculato-obovata vel orbiculato-elliptica, apice rotundata, ad summam apiculata, ad basin angustata, c. 8 mm. longa, medio 6 mm. lata, utrinque glabra, membranacea, trinervata, nervis lateralibus extorse venulosis.

Labellum c. 6 mm. longum, calcaratum, basi breve bilamellatum, supra basin perprofunde trilobatum, lobo intermedio orbiculato apice rotundato ad summam interdum leviter retuso ad infimam ungue perbrevis perangusto instructo margine integro utrinque glabro c. 4 mm. longo totiusque lato, lobis lateralibus oblongis obliquis obtusis c. 3 mm. longis 2 mm. latis glabris, calcare cylindrico recto apice obtuso c. 6 mm. longo medio 2 mm.

* Continued from Bot. Mag. (Tokyo), 49 (1935), 306.

glabris uninervatis.

Flores nivei, apertientes, c. 3.5 mm. in diametro, glabri, pedicellis rectiusculis bracteis longioribus c. 3 mm. longis glabris. Sepalum intermedium ligulatum vel triangulato-oblongum, apice obtusiusculum vel obtusum, deorsum gradatim dilatatum, c. 2 mm. longum, basi 1 mm. latum, membranaceum, uninervatum, sepalis lateralibus cum pede columnae breve adnatis oblique triangulatis apice obtusiusculis membranaceis uninervatis. Petala sepalo intermedio aequilonga, oblonga vel ovato-oblonga, apice acuta, basi leviter contracta, margine integra, infra medium c. 2 mm. lata, membranacea, uninervata.

Labellum cordato-ovatum, c. 1.5 mm. longum, infra medium c. 1 mm. latum, apice acutum, basi abrupte contractum, ad stipitem c. $\frac{1}{2}$ mm. longum totiusque latum supra concavo-sulcatum abeuns, stipite basi pede columnae c. $\frac{1}{2}$ mm. longo articulado.

Nom. Jap. Hime-fure-ran (nov.)

Hab. Formosa; praef. Taihoku, in laurisilvis monte Bonbon-goe, inter Tamaru et Dakusui, (N. FUKUYAMA! Oct. 1932. no. 4520. Typus in Herb. Orch. Fuk.); praef. Takao, in silvis monte Niinai-san prope Botan-sha, (N. FUKUYAMA! Mai. 6, 1934. no. 4571.)



Fig. 5. *Luisia botanensis* FUKUYAMA
(N. Fukuyama Photo.)

46) *Luisia botanensis* FUKUYAMA, sp. nov.

Epiphytica, erecta, c. 20 cm. alta, radicibus in arborem repentibus crassiusculis flexuosis glabris rugulosis. Caulis vulgo simplex, glaber, teres, c. 3 mm. in diametro, vaginis foliorum omnino obtectus, vaginis persistentibus calem complete amplectentibus cylindricis 1–1.5 cm. longis glabris superficie vivo laevibus sed vetustioribus rugoso-lineatis.

Folia alterna, patentia, paullo recurva, a se 1–1.5 cm. remota, linearia, teretia, carnososa, rigida, vivo plus minusve longitudine rugosa, apice

acuta, basi cum vaginis articulata, glabra, c. 10–15 cm. longa, 2–2.5 mm. diametentia. Racemus axillaris, 5–10 mm. longus, plerumque c. 5-floratus, floribus subapertientibus nutantibus c. 1–1.5 cm. diametentibus, bracteis glabris parvissimis 1–2 mm. longis inter se 1–2 mm. remotis, pedicellis rectis 1–1.5 cm. longis glabris.

Sepala viridia, subcarnosa, glabra, sepalo intermedio oblongo apice rotundato-obtuso ad basin haud vel vix contracto supra medium concavulo c. 8–9 mm. longo medio 4 mm. lato, sepalis lateralibus intermedio longioribus c. 1 cm. longis oblongis naviculaeformibus carinatis apice acutiusculis basi non contractis. Petala viridia, sepalo intermedio subaequiformia, sed obliqua paullo longioraque, apice rotundato-obtusa, basi vix contracta, utrinque glabra.

Labellum erecto-patens, oblongum, c. 1.2–1.2 cm. longum, medio 5 mm. latum, carnosum, utrinque glabrum, supra atro-purpureum et velutinum leviter sulcato-impressumque, subtus glabrum et viride, basi concavum et utrinque lobis erectis parvis obliquis c. 1.5 mm. longis totiusque latis instructum, e medio vel supra mdium sursum sensim angustatum, apice bilobato-emarginatum vel bilobato-mucronato-emarginatum, lobis triangulato-acutiusculis c. 3 mm. longis. Columna erecta, incrassata, semiteres, c. 3 mm. longa.

Nom. Jap. Takasago-boo-ran (nov.)

Hab. Formosa; praef. Takao, in silvis prope Botan-ike, (N. FUKUYAMA! Maio 29, 1934. no. 4550. Typus in Herb. Orch. Fuk.); in silvis prope Kusukusu, (N. FUKUYAMA! Maio 28, 1934. no. 4549.)

The present species resembles to *L. teres* BLUME, but it is distinguished from it by its larger flower, as well as by its habit.

47) **Taeniophyllum complanatum** FUKUYAMA, sp. nov.

Epiphyticum, aphyllum, ecaulescens, parvulum, radicibus viridibus valde complanatis lineari-elongatis leviter flexuosis glabris c. 5 cm. longis 2 mm. latis.

Racemi suberecti, graciles, virides, breves vel longiusculi, cum pedunculis c. 1–4 cm. longi, racemo ipso densiuscule 3–10-florato leviter flexuoso, bracteis minutis persistentibus triangulatis acutis c. $\frac{1}{2}$ mm. longis glabris, pedicellis rectis bracteis multo longioribus c. 3 mm. longis plerumque glabris raro sparsim et minutissime glanduloso-pilosis.

Flores minuti, glabri, viridescentes, sepalis petalisque usque ad medium canatis partibus liberis leviter reflexis, sepalo intermedio c. 2 mm. longo c. $\frac{1}{2}$ mm. lato parte libera oblongo-ovato apice acuto, sepalis lateralibus petalisque sepalo intermedia subaequimagnis et subaequiformibus.

Labellum cum calcare c. 3 mm. longum, oblongum, margine integrum,