

STUDIA ORCHIDACEARUM JAPONICARUM II.

Orchidaceae Formosanae novae atque criticae

auctore

Noriaki FUKUYAMA

(Continued from *Bot. Mag. (Tokyo)* Vol. XLVIII.)

12. *Zeuxine fluvida* FUKUYAMA, sp. nov.

Terrestris, erecta, 10–20 cm. alta, rhizomate decumbente cauliformi in exsiccato 2.5–3 mm. diametiente, radicibus vermiformibus puberulis. Caulis erectus, teres, e basi ad supra medium laxe 2–6-foliifer, sursum scapum abeuns et pilosus, deorsum giaber.

Folia petiolata, patentia, ovata vel ovato-lanceolata, apice acuta, basi rotundata, subito ad petiolum abeuntia, membranacea, viridescens, utrinque glabra, 6 cm. longa, c. 2.5 cm. lata, petiolis c. 1.5 cm. longis basi tubiformibus et amplexicaulibus.

Scapus gracilis, erectus, pilosus, 2–3-squamatus, c. 8 cm. longus, racemo florifero brevi 1.5 cm. longo subdense 5–8-florato, bracteis ovato-lanceolatis, concavis, apice acuminatis, basi leviter contractis, membranaceis, margine et exteriore plus minusve peberulis.

Flores glabri, fulvi, pedicellis cum ovariis glaberrimis fusiformibus viridibus c. 6 mm. longis. Sepalum intermedium oblongo-ovatum vel triangulato-oblongum, concavum, apice obtusum, basi vix contractum, utrinque glabrum, flavum, 6 mm. longum, basi c. 3 mm. latum, sepala lateralia erecto-patentia anguste oblonga vel linearia navicularia apice obtusa basi haud contracta utrinque glabra fulva 6 mm. longa c. 1.5 mm. lata. Petala cum sepalo intermedio in galeam cohaerentia, semiovata, apice cuspidato-obtusa, basi contracta, latere superiore truncata, glabra, membranacea, subhyalina, 5.5 mm. longa, c. 2 mm. lata.

Labellum c. 7 mm. longum, basi saccato-concavum c. 2 mm. latumque, intus glabrum et supra basin utroque latere processibus duobus ornatum, ad apicem sensim tubiforme attenuatum, apice subito dilatato-bilobatum, lobis rotundatis inter se divaricatis c. 2.5 mm. diametientibus tenuibus utrinque glabris albescentibus basi fluis. Columna brevissima, anthera cordata. Pollinia grosse granulosa, stipiti elongato affixa.

Nom Jap. *Taitoo-kinuran* (nov.)

Hab. Formosa; praef. Taitoo, Riran-shichoo, Onsen, (K. SEGAWA! No. 4112. Typus in Herb. Orch. Fuk.)

3-6 cm. longis, pseudobulbum complete amplectentibus, scariosis, nervosis, apice acutiusculis.

Folia 2, petiolata, lamina erecto-patentia, ovata vel oblongo-elliptica, apice obtusa vel acutiuscula, basi rotundata vel rotundato-cuneata, in exsiccato tenuiter membranacea, utrinque glabra, vivo margine undata, c. 7-13 cm. longa, medio fere 4-5 cm. lata, nervis lateralibus utroque latere costae multis tessellato-reticulatis, petioli deorsum gradatim attenuatis, scapum amplectantibus, c. 5-9 cm. longis, 8 mm. latis.

Scapus gracilis, erectus vel suberectus, esquamatus, glaber, angulatus, ad angulos angustissime alatus, elongatus, foliis valde longior, 26-40 cm. longus, racemo florifero 15-20 cm. longo sublaxe 10-20-florato, bracteis minutis, hyalinis, c. 3 mm. longis, ovatis, apice acutis, uninervatis.

Flores mediocres, glabri, pedicellis erectis c. 1-1.5 cm. longis glabris. Sepalum intermedium lineare, postice reflexum, apice obtusum, deorsum plus minusve dilatatum; basi haud contractum, trinervatum, c. 1.2 cm. longum medio 3 mm. latum, lateralia intermedio subaequilonga oblique oblongo-lanceolata apice acutiuscula basi contracta trinervata medio fere 3.5 mm. lata. Petala anguste linearia, c. 1.1 cm. longa, 1 mm. lata.

Labellum cuneato-obovatum, antice truncato-rotundatum, apice plus minusve apiculatum, margine integrum, recurvum, basi non tuberculatum, c. 1 cm. longum, supra medium 7.5 mm. latum, 5-nervatum. Columna valde recurva, glabra, basi dilatata incrassataque.

Nom. Jap. *Nagabo-no-suzumushiso* (nov.)

Hab. Formosa; praef. Taihoku, in silvis monte Mururoahu, inter Kyauraha et Saukan, prope Taihei-zan, (N. FUKUYAMA! Jul. 1933. No. 4110. Typus in Herb. Orch. Fuk.); in silvis monte Nauko-taizan, inter Kiritto et Bunakkei, (N. FUKUYAMA! Jul. 1933. No. 4111.); praef. Karenkoo, in silvis monte Taroko-taizan, ad 2000-1800 m. alt., (Suzuki-Tokio! Jun. 14, 1933. No. 9516).

15. *Liparis laurisilvatica* FUKUYAMA, sp. nov.

Epiphytica, caespitosa, c. 10-15 cm. alta, radicibus teretibus filiformibus flexuosis glabris in arborem repentibus, pseudobulbis approximatis connexis, carnosis, virentibus, globosis, leviter complanatis obliquisque, 1-1.5 cm. longis, apice unifoliatis, basi 1-2-vaginatibus, vaginis scariosis late ovatis apice acuminatis.

Folia solitaria, erecta, oblanceolato-linearibus, apice acuta, basi longe decurrentia, c. 10 cm. longa, medio c. 1 cm. lata, tenuiter coriacea, utrinque glabra, supra subnitida, subtus pallida, costa supra impressa subtus elevata.

Scapus terminalis, erectus, complanatus sed in parte florifera tereto-

angulatus, evaginat, glaber, folio aequilongus vel plus minusve longior, c. 10 cm. longus, basi 1.5 mm. latus, racemo florifero subsecundo 5 cm. longo sublaxe c. 10-15-florato, bracteis erectis, linearibus, apice acuto-acuminatis, basin leviter dilatatis, glabris, inferioribus pedicellis cum floribus aequilongis, c. 1 cm. longis, superioribus sensim brevioribus.

Flores flavescentes, parvuli, patentes, c. 8 mm. in diametro, glabri, pedicellis paulo recurvis c. 5 mm. longis glabris. Sepalum intermedium oblongum, apice acutum, basi non contractum, 4.5 mm. longum, 1.5 mm. latum, glabrum, uninervatum, in vivo margine plus minusve revolutum, lateralia deorsum patentia apice reflexa sepalo intermedio conformia sed paulo obliqua uninervata. Petala anguste linearia vel filiformia, sepalis plerumque paulo longiora, c. 5 mm. longa, postice reflexa.

Labellum glabrum, oblongum, a medio rectiuscule curvatum, apice rotundatum leviter denticulatumque, basin versus paulo angustatum, basi non tuberculatum sed crassiusculum, c. 4 mm. longum, medio c. 2 mm. latum. Columna rectiuscula, basin incrassata, apice utrinque alis triangulatis ornata.

Nom. Jap. *Hime-kinoeran* (nov.)

Hab. Formosa; praef. Taihoku, in silvis laurilignosis monte Bonbon-goe, inter Tamaru et Taishoo prope Dakusui, ad 3000 ped. alt., (N. FUKUYAMA! Oct. 1933. No. 4101. Typus in Herb. Orch. Fuk.); praef. Shinchiku, in silvis laurilignosis monte Rokujo-taizan prope Nanshoo, ad 5000 ped. alt., (N. FUKUYAMA! Oct. 1932. No. 4108); praef. Taichu, in monte Hassen-zan, (N. FUKUYAMA! Oct. 1931. No. 4109.)

16. *Liparis sootenzanensis* FUKUYAMA, sp. nov.

Terrestris, erecta, c. 25-40 cm. alta, subcaulescens, caulibus subcarnosis elongatis vaginis foliorum amplexantibus.

Folia 3-5, erecto-patentia, elliptica, plus minusve obliqua, apice acuta, basi in vaginam decurrentia, exsiccato tenuiter membranacea, utrinque glabra, c. 15-25 cm. longa, 5-8 cm. lata, multinervata.

Scapus terminalis, strictus vel substrictus, glaber, esquamatus, angulatus, ad angulos angustissime alatus, foliis elatior, c. 30 cm. longus, racemo florifero 5-15 cm. longo sublaxe 5-15-florato, bracteis minutis, hyalinis, triangulatis, apice acutis, basi non contractis, c. 4 mm. longis, uninervatis.

Flores flavescentes, mediocres, patentes, glabri, pedicellis rectis c. 2-2.5 cm. longis glabris. Sepalum intermedium lineare, utrinque leviter attenuatum, apice obtusum, c. 1.5 cm. longum, medio 3 mm. latum, trinervatum, lateralia intermedio aequilonga vel plus minusve breviora sed latiora c. 3-3.5 mm. lata cultriformia vel semiovato-oblonga latere superiore