

STUDIA ORCHIDACEARUM JAPONICARUM II.

Orchidaceae Formosanae novae atque criticae

auctore

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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.)

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 amplectantibus.

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

truncata apice acutiuscula basi vix contracta trinervata. Petala angustissime linearia, reflexa, apice obtusiuscula, ad basin non contracta, sepalis lateralibus aequilonga, c. 1 mm. lata, uninervata.

Labellum obovatum, anteriore rotundatum denticulatumque, posteriore cuneato-unguiculatum et integrum, apice paulo emarginatum, basi carinato-bituberculatum, a. 1.5 cm. longum, supra medium c. 1 cm. latum, 5-nervatum. Columna recurva, 6 mm. longa, ad apicem paulo dilatata, basi angustata.

Nom. Jap. *Kibana-kokuran* (nov.)

Hab. Formosa; praef. Shinchiku, in silvis laurilignosis monte Minami-sooten-zan, prope Kappanzan, (N. FUKUYAMA! Mai. 1933. No. 4104. Typus in Herb. Orch. Fuk.); in silvis laurilignosis monte Syogyoku-zan, (N. FUKUYAMA! Mai. 1932. No. 4106.)

17. *Calanthe kooshunensis* FUKUYAMA, sp. nov. (*Paracalanthe*)

Terrestris, erecta, c. 20 cm. alta, caulescens, radicibus multis elongatis filiformibus teretibus villosulis, caulibus c. 10 cm. longis, c. 4 mm. diametentibus, basi inter se approximativim connexis, inferne vaginis scariosis nervosis ornatis, superne foliatis.

Folia 3-5, in apice caulis alternatim sita, subrecta, patentia, lanceolata vel anguste oblonga, apice acuminata, basi longe decurrentia vaginataque, lamina 8-15 cm. longa, c. 1.5 cm. lata, utrinque glabra, nervis principalibus 3, inter nervos venulosa.

Scapus infra folia ex axilla squamae oriundus, rectus, teres, simplex, c. 20 cm. longus, 1.5 mm. diametens, brevissime puberulus, racemo florifero brevi c. 5 cm. longo laxo 7-florato, bracteis caducis mihi nondum notis.

Flores subpatentes vel campanulati, pedicellis gracilibus brevissime puberulis cum ovariis c. 1.6 cm. longis. Sepala aequilonga, c. 1 cm. longa, extus sparsim et brevissime puberula, intus glabra, membranacea, sepalo intermedio oblongo vel oblongo-elliptico apice acuto vel acuminato basin sensim angustato medio c. 4 mm. basi c. 2.5 mm. lato 5-nervato, sepalis lateralibus oblongo-ellipticis sed paulo obliquis, apice acuminatis, basi contractis, medio c. 3.5 mm. latis, 5-nervatis.

Labellum ecalcaratum, 3-lobatum, patens, c. 7 mm. longum, inter apices loborum lateralium explanatorum c. 6 mm. latum, medio longitudine bilamellatum, basi rotundatum, lobo intermedio minore subquadrangulato vel reniforme-obcordato apice emarginato margine non undulato infra apicem c. 2 mm. basi 1.5 mm. lato 2 mm. longo, lobis lateralibus apice obtusis, latere exteriori c. 5 mm. longis et integris, latere interiore 1.5 mm. longis et obscure denticulatis. Columna erecta, gracilis, c. 5 mm. longa, 1 mm. lata, semiteres.