

Studia Orchidacearum Japonicarum III

Orchidaceae Formosanae Novae Atque Criticae

(Continued from Ann. Rep. Taihoku Bot. Gard. Vol. III.)

auctore

Noriaki Fukuyama

Received December 23, 1933

With 3 Text-Figures

19) **Amitostigma yuukiana** FUKUYAMA, sp. nov.

Terrestris, erecta, glaberrima, parvula, 10–13 cm. alta, tuberibus ovoideis vel oblongoideis ellipsoideisve pilosiusculis. Caulis gracillimus, teres, basi vel supra basin unifolius, raro bifolius, basi infra folia 1–2-vaginatus, vaginis scariosis e basi ad supra medium complete amplexentibus sed partibus superioribus leviter patentibus.

Folia suberecta, anguste oblonga vel ovato-lanceolata, raro longe elliptica, in exsiccato plerumque duplicata, apice obtusa vel acutiuscula, basi decurrentia et amplexentia, chartacea, c. 5 cm. longa, medio 1–1.5 cm. lata, utrinque glabra.

Racemus terminalis, erectus, subsecundus, 2–3 cm. longus, subdense 10–20-floratus, bracteis parvulis c. 5 mm. longis ovato-lanceolatis apice acuminatis basi contractis et leviter amplexentibus utrinque glabris.

Flores parvi, rosei, glabri, subapertientes, pedicellis rectis glabris bracteis duplo vel quadruplo superantibus. Sepalum intermedium ovatum, apice obtusum, basi contractum, concavum, membranaceum, 2.5–3 mm. longum, 1.5–2 mm. latum, cum petalis in galeam connivens, uninervatum, lateralibus obovatis paullo obliquis apice obtusis basi attenuatis c. 3 mm. longis 1.5–2 mm. latis membranaceis uninervatis. Petala oblique elliptica, utrinque acuta, c. 3 mm. longa, 2 mm. lata, membranacea, glabra, uninervata.

Labellum glabrum, subrectum, 3.5–4 mm. longum, infra medium trilobatum, inter apices loborum lateralium explanatorum c. 3.5 mm. latum, ad basin gradatim attenuatum, lobis lateralibus linearibus vel longe triangularibus a lobo intermedio angulo 45° egressis c. 1 mm. longis, lobo intermedio lateralibus longiore, 1.5–2 mm. longo, obovato-cuneato, apice truncato-concavo, infra apicem 1.5 mm. lato, calcare cylindrico subrecto obtusiusculo

cum sepalo intermedio in galeam cohaerentia, linearia, margine leviter involuta, apice obtuso-acuta, glabra, membranacea, 4 mm. longa.

Labellum subintegrum, erectum, sepalis brevius, basi concavum ventricosumque, apice leviter spatulatum et concavulum, ad summum triangulare acutum, infra apicem plus minusve constrictum, basi interiore 2-cornutum, cornibus paullo recurvis. Columna brevis, anteriore non appendiculata, rostello longiuseculo. Pollinia 2, in massas cohaerentia, stipiti affixa.

Nom. Jap. Kageroo-ran (nov.)

Hab. Formosa; praef. Taihoku, in silvis laurilignosis monte Syogyoku-san prope Urai, (N. FUKUYAMA! Aug. 1933. no. 4127. Typus in Herb. Orch. Fuk.).

25) **Hetaeria Tokioi** FUKUYAMA, sp. nov.

Terrestris, erecta, c. 25 cm. alta, rhizomate decumbente rubescente cauliformi ad nodos radicante, radicibus brevibus vermiformibus moliter breviterque villosis. Caulis erectus, teres, glaber, superiore sparsim et minutissime pilosus, medio vel infra medium sublaxe 4-foliatus, sursum racemosus.

Folia erecto-patentia, longipetiolata, ovato-lanceolata, utrinque acuta, lamina 5-7 cm. longa, infra medium 1.5-3 cm. lata, utrinque glabra, supra atrovirentia vel virentia, ad costas clare albo-lineata, in exsiccato chartacea, petiolis 3 cm. longis basi dilatatis vaginiformibusque, partibus vaginiformibus c. 1 cm. longis, 5 mm. diametentibus, caulem complete amplectentibus.

Scapus gracilis, strictus, cum racemo c. 15 cm. longus, sparsim et minutissime pilosus, remote 2-squamatus, racemo florifero c. 7 cm. longo sublaxe 10-florato, bracteis membranaceis, ovato-triangularis, apice acutis, basi non contractis, c. 8 mm. longis, basi 4 mm. latis, exteriore sparsim pilosis.

Flores subapertientes, parvuli, rubiginosi, pedicellis bracteis paullo longioribus glaberrimis sursum sensim angustioribus. Sepala membranacea, albo-punctata, exteriore vix pilosa, interiore glabra, uninervata, sepalo intermedio erecto cum petalis in galeam connivente ovato apice obtuso basi leviter contracto c. 3 mm. longo 1.5-2 mm. lato, lateralibus patentibus, intermedio subaequiformibus sed obliquis, apice acuto-obtusis, basi contractis, c. 4 mm. longis, 2 mm. latis. Petala semiorbiculato-ovata vel oblique late ovata, apice obtusiuscula, basi rotundata, 3.5 mm. longa, supra basin 2.5 mm. lata, membranacea, subhyalina, albo-punctata, utrinque glabra, uninervata.

Labellum sessile, ovatum, c. 4 mm. longum, apice apiculatum, infra

apicem plus minusve constrictum, ad margine tenuissimum membranaceum leviter involutumque, ad basin sensim ventricosum, utrinque glabrum, intus medio bilamellatum et basi utroque latere interiori cornibus duobus ornatum, subtus medio sulcatum. Columna brevis, crassa, c. 1.5 mm. longa, in facie antica lamellis duobus verticalibus parallelis ornata, clinandrio membranaceo profundo, anthera sessili ovoideo-cordata acuta.

Nom. Jap. Shirosoji-kagerooran (nov.)

Hab. Formosa; praef. Taihoku, in silvis laurilignosis monte Syogyoku-san prope Urai, (SUZUKI-TOKIO! Sept. 1932. no. 4128. Typus in Herb. Orch. Fuk.).

The genus is new to the flora of Japan.

26) **Liparis nokoensis** FUKUYAMA, sp. nov.

Epiphytica, caespitosa, 13-20 cm. alta, radicibus filiformibus flexuosis rugulosis paullo puberulis in exsiccato c. $\frac{2}{3}$ mm. diametentibus, pseudobulbis approximativim connexis, globosis, carnosis, c. 1 cm. altis, apice bifoliatis, basi vaginatis, vaginis lanceolatis vel ovatis apice acuminatis nervosis.

Folia 2, erecto-patentia, elliptica vel oblanceolata, apice acuta, basi contracta, 3-10 cm. longa, medio 1-1.3 cm. lata, in exsiccato tenuiter coriacea, utrinque glabra, nervis principalibus 5 inter nervos multivenulosa.

Scapus terminalis, gracilis, strictus, glaber, folia duplo vel triplo superans, c. 10-20 cm. altus, complanatus, ad margine anguste alatus, parte florifera angulatus, remote 2-3-squamatus, squamis lanceolatis vel linearibus apice acuminatis 5-15 mm. longis glabris, racemo florifero 3-10 cm. longo, sublaxe florato, bracteis ovato-lanceolatis apice acuminatis basi non contractis pedicellis subaequilongis vel brevioribus glabris.

Flores parvuli, glabri, patentes, pedicellis cum ovariis suberectis c. 5 mm. longis glabris. Sepala subaequiformia et aequilonga, c. 3.5 mm. longa, valde reflexa, sepalo intermedio oblongo apice obtuso basi haud contracto uninervato c. $1\frac{1}{3}$ mm. lato, sepalis lateralibus apice obtusis basi plus minusve contractis uninervatis c. $1\frac{1}{2}$ mm. latis. Petala linearia, apice obtusa, basi vix vel non attenuata, sepalis aequilonga, basi $\frac{2}{3}$ mm. lata, uninervata.

Labellum supra medium abrupte desuper reflexum, oblongum, supra medium constrictum, c. 3.5 mm. longum, infra medium 2-2.5 mm. latum, antice obcordato-mucronatum, margine integrum, ad basin paullo angustatum, basi bituberculatum, glabrum. Columna elongata, erecta, semiteres, c. 3 mm. longa, basi c. $\frac{2}{3}$ mm. lata, apice leviter incurvata, e basi ad supra medium margine alata. Capsula obovoidea, cum pedicello c. 1.5 cm. longa.