

ICONES ORCHIDACEARUM

Fascicle 15(1)
THE GENUS EPIDENDRUM
Part 11
“Species New & Old in Epidendrum”

Eric Hágsater

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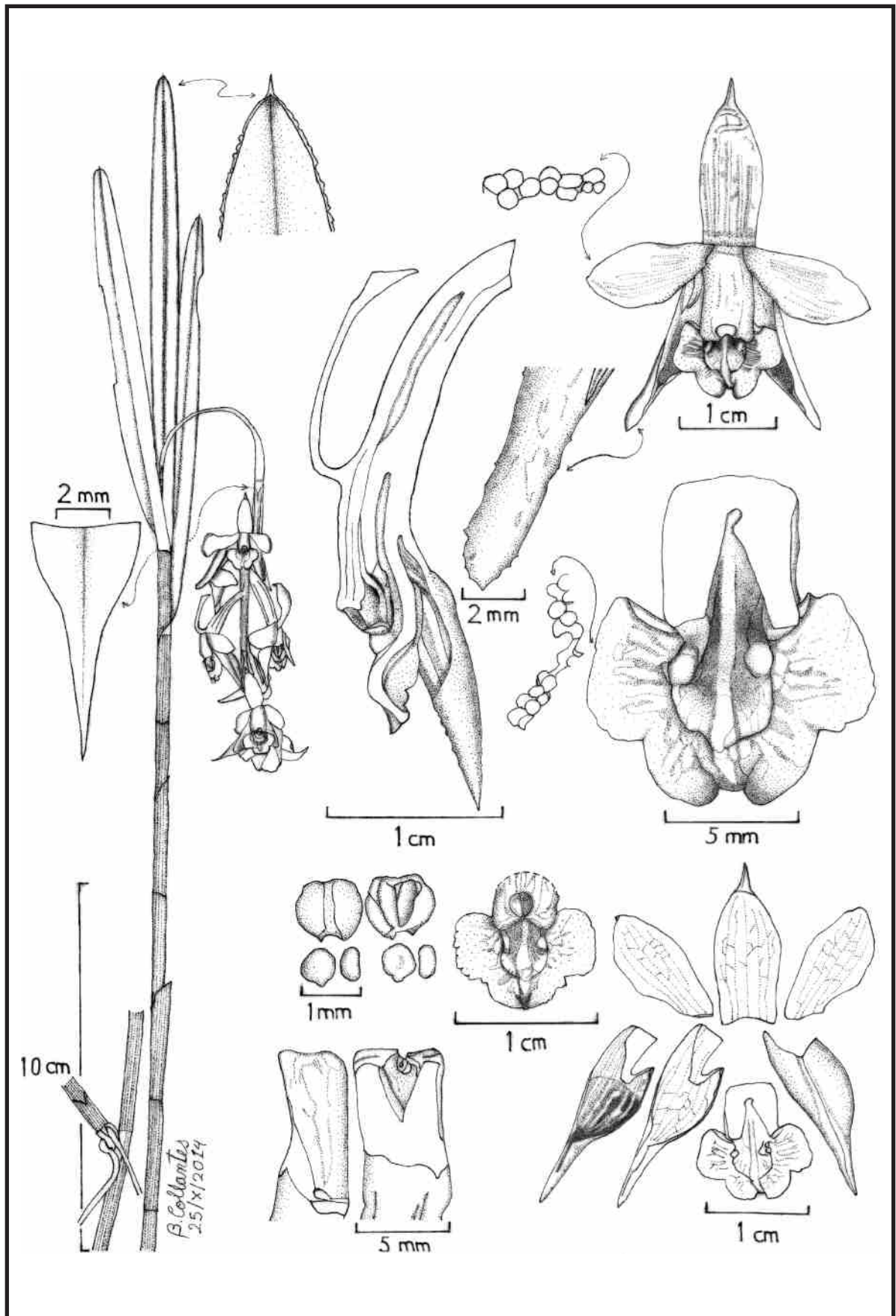
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EPIDENDRUM INCAHUAMANII Collantes & Hágater

EPIDENDRUM INCAHUAMANII Collantes et Hågsater, *sp. nov.*

Type: PERU: Prov. Urubamba: Dist. Machu Picchu: Santuario Histórico de Machu Picchu, Torrepata, 3200 m, 11 agosto 2014, **Feliciano Incahuaman & Carmen Soto 147**. Holotype: USM! (illustration voucher; plate Collantes N° 36; photo by F. Incahuaman, taken 4 September 2013, photo voucher).

Similar to *Epidendrum birostratum* C.Schweinf. but the leaves linear-lanceolate, apical flowers opening first, petals obovate-oblong to obovate-elliptic; disc in front of the calli with a prominent hemi-circular protuberance, traversed through the middle by a prominent mid-rib extending to the apex of the mid-lobe, lateral lobes dolabriform-sub-elliptic, mid-lobe semi-circular with the apex retuse and mucronate.

Terrestrial and epiphytic, sympodial, caespitose **herb**, 18-50 cm tall. **Roots** basal, thick. **Stems** 30 x 0.5 cm, the new stem produced from a sub-basal node of the previous stem, cane-like, terete, thin, erect, straight. **Leaves** 5-10, distributed along the apical 2/3 of the stem, distichous, articulate, sub-coriaceous; sheaths 1-4.5 x 0.5 cm, tubular, conspicuously many-veined, striated; blade 2.5-15 x 0.3-0.9 cm, linear-lanceolate, apex sub-acute, mucronate; margin translucent, appearing vitrified, irregularly crenate towards the apex; upper face green suffused with purple to reddish. **Spathe** lacking. **Inflorescence** apical, racemose, arcuate-nutant, short, densely flowered, flowers opening in succession from the apex of the inflorescence towards the base; peduncle 2-3 x 0.4 cm, complanate; rachis sub-triangular. **Floral bract** 9 x 4 mm, long-acuminate-setaceous; the lower ones more than half as long as the ovary, progressively shorter, the apical ones half as long as the ovary, ovate-triangular to ovate acuminate, embracing. **Flowers** 4-10, natural spread 3 cm in diameter, resupinate, sepals pink, dorsally dark pink (as is the ovary), the aristate apex pale green to garnet; petals entirely pink to cream colored with the margins pale pink, apex greenish yellow; lip creamy-pink, creamy-yellow or pale pink, calli whitish; disc creamy white to creamy-pink, the mid-rib creamy-white, column basally pale green, creamy-yellow towards the apex; fragrance not registered. **Ovary** 18 x 4 mm, short, terete, thin at the base and progressively thicker, not inflated, striated. **Sepals** 5-veined with anastomosis, margin entire, spreading; dorsal sepal 13-17 x 5.5-6 mm, reflexed, oblong, conspicuously mucronate; lateral sepals 15-20 x 6 mm, partly spreading, obliquely united to the column, sub-elliptic, deeply concave in the middle, apex prominently aristate-complanate, the awn 5 x 1.8 mm. **Petals** 12-14 x 5.5-6.0 mm, free, revolute, obovate-oblong to obovate-elliptic, cuneate, sub-acute to obtuse, 5-veined, anastomate, the lateral veins bifurcate at the base; margin spreading, minutely papillose near the apex. **Lip** 6-8 x 10-11 mm, adnate to the column, deeply 3-lobed, base cordate; bicallose, the calli sub-conical, slightly complanate, disc thickened into a semi-circular plate, traversed by a prominent mid-rib extending to the apex of the mid-lobe; lateral lobes 2.5 x 6 mm, dolabriform-sub-elliptic, oblique, margin entire to slightly crenate, posterior border involute; mid-lobe 2.5 x 6 mm, semi-circular, apex usually retuse, with a wide mucro in the sinus, margin entire. **Column** 9 x 5 mm, rectangular sub-clavate, thick, short, lateral sepals inserted obliquely. **Clinandrium-hood** reduced, margin entire. **Anther** sub-spherical, 4-celled. **Petals** 4, sub-equal, sub-orbicular, complanate, dorsally convex. **Rostellum** apical, oval foramen. **Nectary** reaching the base of the perianth. **Capsule** ellipsoid; pedicel 2 mm long, body 2.5 x 1.5 cm; apical neck reduced, floral segments persistent.

OTHER SPECIMENS: PERU: Cusco: Acjanaco, Parque Nacional del Manú, 3250-3350 m, 1 IX 1990, *Cano 4075*, MO! USM! Prov. Urubamba: Dist. Machu Picchu: 700 m del Centro Arqueológico de Qantupata, 3200 m, 11 VIII 2014, *Incahuaman & Soto 147-b*, CUZ! (digital images AMO!). Pillahuata (laderas), 2980 m, 9 VII 1915, *Vargas 6108*, AMES!

OTHER RECORDS: PERU: Cusco: Prov. Urubamba: Dist. Machu Picchu: Santuario Histórico de Machu Picchu; Camino Inca, sector Ch'akicocha, ca. 3580 m, IX 2000, (observed by B. Collantes). De Phuyupatamarca a Ch'akicocha, (observed by F. Incahuaman, 4 IX 2013, pers. comm.) Machu Picchu, *Gonza s.n.*, photo, AMO!

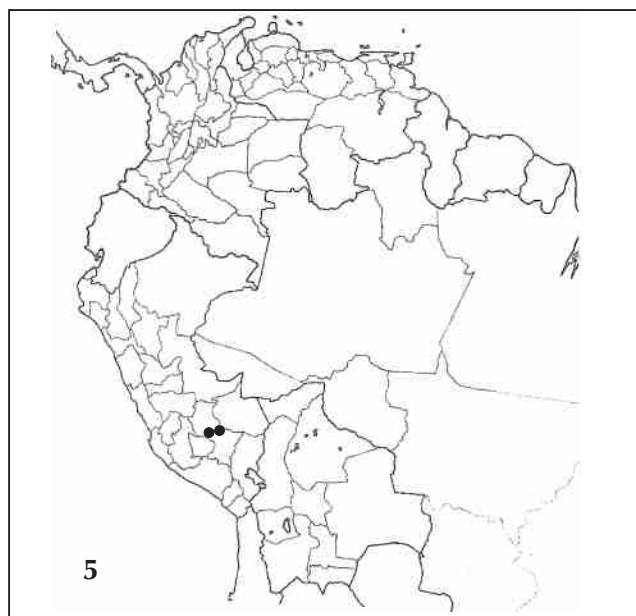
DISTRIBUTION AND ECOLOGY: Only known from Peru, from the department of Cusco; Machu Picchu district, Santuario Histórico de Machu Picchu, Camino Inca Qantupata-Torrepata, ca. 2980-3350 m altitude, Phuyupatamarca and Ch'akicocha, terrestrial in sphagnum moss in cloud forest, epiphytic on "huichullo" (*Weinmannia* sp.). The whole flower, when chewed is sweet, and therefore is called "misky" in Quechua, which means sweet. Flowering from July to September.

RECOGNITION: *Epidendrum incahuamanii* belongs to the Aristisepalum Group, which has a caespitose habit, simple stems, sub-coriaceous leaves, an arching-nutant, racemose inflorescence without spathaceous bracts, a thickened disc on the 3-lobed lip, and especially the lateral sepals which are apically prominently aristate-complanate, 15-20 mm long. The species is recognized by the linear-lanceolate leaves 2.5-15 x 0.3-0.9 cm, the lip deeply 3-lobed, lateral lobes dolabriform-sub-elliptic, oblique, the disc thickened into a semi-circular plate, traversed by a prominent mid-rib extending to the apex of the mid-lobe which is 2.5 x 6 mm, semi-circular, apex usually retuse. *Epidendrum birostratum* has wider leaves, 6.5-13 x 1.3-1.5 cm, the lip with dolabriform-rounded lateral lobes, mid-lobe as long as the lateral lobes, cuneate, sub-quadrate, the apex sinuous-truncate, 3-dentate; disc with the thickened plate sub-quadrate-ovate. *Epidendrum aristisepalum* Hågsater & Dodson from southern Ecuador has similar leaves 6-14.5 x 0.7-1.1 cm, but the callosity lip has a sub-orbicular mid-lobe with the disc thickened into 3 prominent longitudinal ribs. *Epidendrum jalcaense* Chocce-Peña, Dalström, Hågsater & J.Arnaiz has wider, shorter leaves, 4.7-6.6 x 1.0-1.5 cm, bright orange flowers with a wide, 4-lobed, callosity lip, with 5 thickened ribs on the disc.

CONSERVATION STATUS: DD. Data deficient.

ETYMOLOGY: In honor of Feliciano Incahuaman, (*huaman*-falcon, an Inca surname, thus Inca falcon), an extraordinary worker of the Ministry of Culture at the Camino Inca of the Santuario Histórico de Machu Picchu; a great friend and enthusiastic conservationist, and who brought this species to our attention.

REFERENCES: Chocce-Peña, M., S. Dalström, E. Hågsater & J. Arnaiz, 2013, *Epidendrum jalcaense*, in E. Hågsater & L. Sánchez S., (eds.), The Genus *Epidendrum*, **Icon. Orchid.** 14: t. 1446. Hågsater, E., & C.H. Dodson, 2001, *Epidendrum aristisepalum*, in E. Hågsater & L. Sánchez S., (eds.), The Genus *Epidendrum*, **Icon. Orchid.** 4: t. 412. Schweinfurth, C., 1943, *Epidendrum birostratum*, **Bot. Mus. Leaf.** 11: 83, t. 13. 1943.



EPIDENDRUM MORMONTOYI Collantes et Hągsater, *sp. nov.*

Type: PERU: Cusco: Prov. Machu Picchu: Santuario Hist3rico de Machu Picchu, Huiñay Huayna, ca. 2700 m, 10 noviembre 2008, **Carmen Soto & Rolando Mormontoy 146**. Holotype: USM! (illustration voucher; digital image of pretype, plant and flowers, AMO! photo voucher). Isotype: CUZ! (digital image AMO!).

Similar to *Epidendrum inamoenum* Kraenzl. but the plants sympodial, stems non-branching, the flowers larger, floral segments acute, and the lip proportionately slightly longer than wide, lateral lobes of the lip transversely and asymmetrically pentagonal. Epiphytic and terrestrial, caespitose, sympodial **herb**, 50-80 cm tall. **Roots** basal, thick. **Stems** 40-80 x 1 cm, simple, cane-like, sub-terete, slightly laterally compressed, erect. **Leaves** numerous, coriaceous, distichous, articulate; sheaths 3.2 cm long, tubular, minutely rugose; blade 6.5-7.5 x 1.9-2.1 cm, ovate-oblong, obtuse, minutely sub-mucronate, margin entire, though minuscule and irregular dentate at the apex. **Spathe** lacking. **Inflorescence** 4.5 cm long, apical, racemose, arcuate-nutant, densely many-flowered, flowering only once, peduncle 2.2 x 0.4 cm, complanate, slightly ancipitose. **Floral bracts** 5-10 mm long, the lower ones 1/3 de length of the ovary, progressively shorter, ovate-triangular, aristate, embracing. **Flowers** 13, nearly all open at one time, except for the apical bud, flowers naturally spreading, 2 cm in floral diameter, resupinate; sepals, petals and lip light green, calli creamy green, surrounded by a light brown suffusion; fragrance not registered. **Ovary** 18 x 3 mm, terete, base somewhat thin, slightly thickened towards the apex, not inflated, smooth, unornamented. **Sepals** free, spreading, concave, glabrous, margin entire; dorsal sepal 14 x 6.5 mm, ovate-elliptic, acute, 5-veined; lateral sepals 15 x 7 mm, oblique, hemi-ovate, acute, conspicuously mucronate due to the end of the dorsal keel produced along the apical half of the sepals, 6 veined, branching near the apical half. **Petals** 11 x 4 mm, spreading, free, obliquely obtrullate, acute, 3-veined, the veins branching above, margin entire, spreading, minutely papillose towards the apex. **Lip** 10.5 x 8 mm, united to the column, deeply 3-lobed, many-veined with anastomosis; bicallose, the calli somewhat sigmoid, conspicuously laminar, with a channel at the base with fine irregular longitudinal striations of the disc between the calli, turning into a wide, low, fleshy rib, conspicuously liguliform, that runs the length of the lip and ends in a wide mucro in the apical sinus; lateral lobes 5 x 4 mm, transversely and asymmetrically pentagonal, external margin minutely papillose; mid-lobe 3 x 5 mm, transversely quadrate, apex somewhat bilobed, the lobes rounded, with a prominent triangular mucro in the sinus. **Column** 7 x 4 mm, short, robust, barrel-shaped, sub-arcuate, with a pair of apical tooth-like wings. **Clinandrium-hood** short, margin entire. **Anther** transversely reniform, 4-celled. **Pollinia** 4, sub-equal, widely obovoid to ellipsoid, flat on one side, convex on the other. **Rostellum** apical, slit (long-oblong). **Lateral lobes of the stigma** 1/5 the length of the stigmatic cavity. **Nectary** penetrating 1/5 of the ovary, smooth, tubular towards the base, unornamented. **Capsule** not seen.

OTHER SPECIMENS: None seen.

OTHER RECORDS: PERU: Cusco: Santuario Hist3rico de Machu Picchu, Phuyupata, *Epidendrum sp.*, photo J. Sparshatt, (Christenson, 2003). *Epidendrum sp.*, photo, pg. 137, fig. 45 (Collantes et al., 2007).

DISTRIBUTION AND ECOLOGY: Known only from southern Peru, Cordillera Oriental of the Andes, Province of Urubamba, in the Santuario Hist3rico de Machu Picchu, epiphytic and terrestrial at ca. 2700 m altitude. Flowering in November.

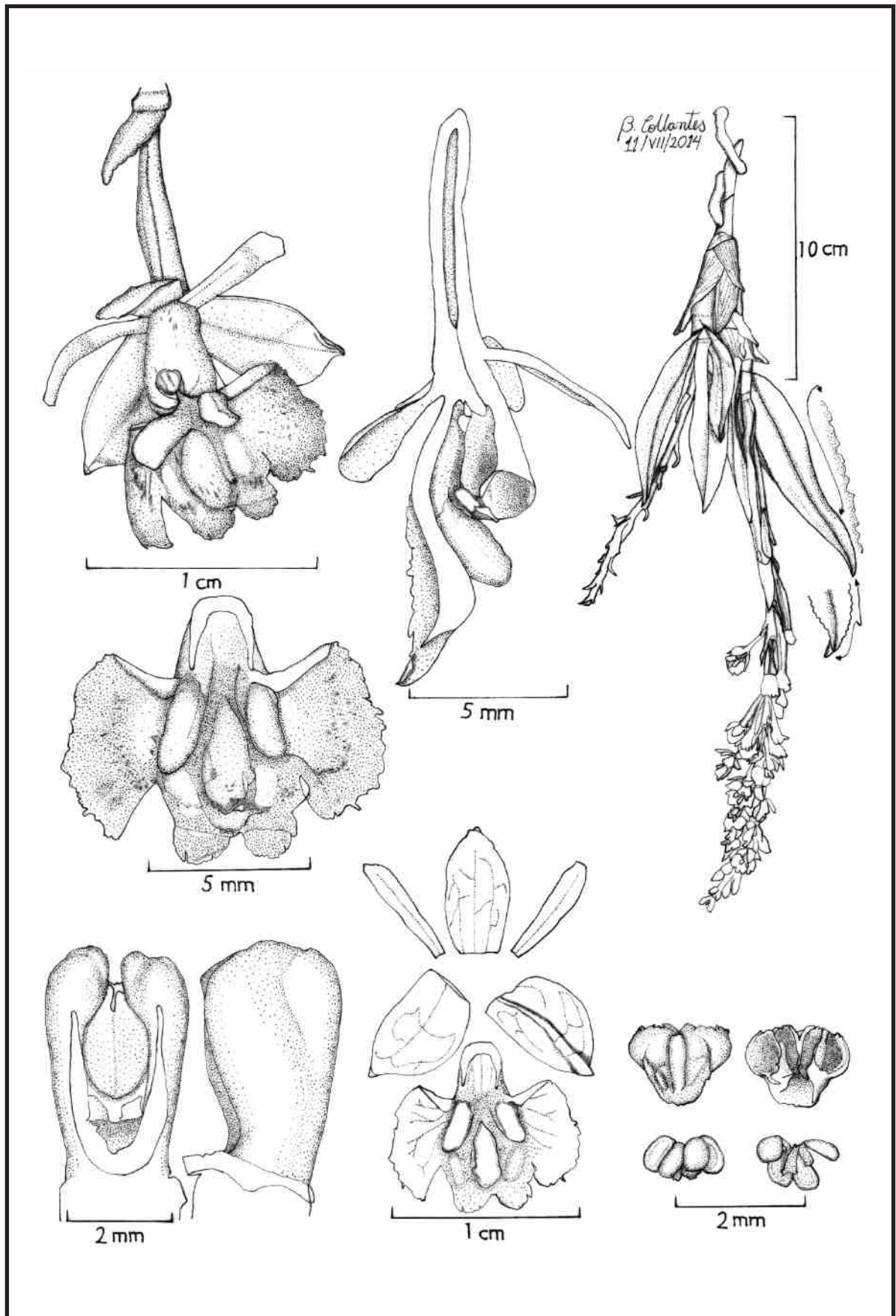
RECOGNITION: *Epidendrum mormontoyi* belongs to the Andean Group, Renilabium Subgroup which is characterized by the tall plants, monopodial habit, generally large, bilobed leaves, racemose inflorescence, entire or 3-lobed lip with a channel at the base of the disc between the calli; but differs in having non-branching stems with a sympodial habit, and acute leaves. The species is recognized by the simple, cane-like stems, arching nutant racemose inflorescence, deeply 3-lobed lip, pale green flowers, suffused with brown around the laminar calli; bicallose, the calli somewhat sigmoid, conspicuously laminar, with a channel at the base of the disc between the calli, turning into a wide, low, fleshy rib, conspicuously liguliform, that runs the length of the lip and ends in a wide mucro in the apical sinus; lateral lobes transversely and asymmetrically pentagonal, external margin minutely papillose; mid-lobe transversely quadrate, apex somewhat bilobed, the lobes rounded. *Epidendrum inamoenum* Kraenzl. is very similar, though the plants are monopodial and branching, flowers are similarly colored and shaped, but smaller, the sepals are 9-10 mm long, petals 7-8 x 3-4 mm, and column 6 mm long, the lip is proportionately broader than long, and the floral segments apically obtuse. *Epidendrum x renipichincae* Hągsater & E. Santiago also has a 3-lobed lip, somewhat larger flowers, sepals 16-18 mm long, and creamy-yellow, the lateral lobes of the lip are dolabriform, margin minutely erose.

CONSERVATION STATUS: DD. Data deficient,

ETYMOLOGY: In honor of Rolando Mormontoy L3pez (1980-), an efficient and conservation-minded keeper of the Ministry of Culture, Santuario Hist3rico de Machu Picchu, for providing the material for the description of this species and other records from the Santuario Hist3rico de Machu Picchu.

REFERENCES: Christenson, E., 2003, Galería de Orquídeas, *Epidendrum sp.*, **Manual de Orquídeas del Santuario Hist3rico de Machu Picchu**, Profonampe, Lima, Perú. Collantes, Benjamín, Carmen Soto & José Koechlin, 2007, **Orquídeas en Inkaterra Machu Picchu Pueblo Hotel**, pg. 137, fig. 45. Inkaterra Asociación, Lima, Perú. Hągsater, E., & E. Santiago, 2009, *Epidendrum inamoenum*, in E. Hągsater & L. Sánchez S., (eds.), The Genus *Epidendrum*, Part 8, **Icon. Orchid.** 12: t. 1255. Hągsater, E., & E. Santiago, 2009, *Epidendrum x renipichincae*, in E. Hągsater & L. Sánchez S., (eds.), The Genus *Epidendrum*, Part 8, **Icon. Orchid.** 12: t. 1284.





EPIDENDRUM OCHOAE Collantes & Hagsater

EPIDENDRUM OCHOAE Collantes et Hágsater, *sp. nov.*

Type: PERU: Cusco: Prov. Urubamba: Dist. Machu Picchu: Santuario Histórico de Machu Picchu, "Bosque de Uncas"- sector del Camino Inca, ca. 3400 m, 21 julio 2013, **Daniel Aucayallo & Carmen Soto, Inkaterra Machu Picchu Pueblo Hotel 145**, Centro de Conservación *in situ*. Holotype: USM (illustration voucher, digital image of plant and flowers, AMO!), Isotype: CUZ! (Digital image AMO!).

Similar to *Epidendrum pachydiscum* Hágsater, but the plant pendent, lateral lobes of the lip widely dolabriform, and lip bicallose, the calli prominent, ellipsoid, laterally somewhat compressed, disc 3-carinate, the lateral ribs low, the mid-rib prominent.

Epiphytic, sympodial, caespitose, pendent **herb**, 11.5-26 cm long including the inflorescence. **Roots** 4 mm in diameter. **Rhizome** 1 cm long, short and pendent, covered by 5 sheaths 1-3.5 cm long, conduplicate, widely ovate, acute, scarious and evanescent. **Stems** 3.5 x 1 cm, thickened, forming a thick, homoblastic pseudobulb, terete, fusiform, of 3 internodes, green, minutely rugose, and brilliant. **Leaves** 3, articulate; 2, produced from the basal and middle internodes, and one from the apex of the pseudobulb; blade 4.5-8.8 x 1.5-1.9 cm, lanceolate, mucronate, coriaceous, green, underside minutely rugose, margin entire, crenate towards the apex. **Spathes** lacking. **Inflorescence** 11-20.5 x 0.3-0.35 cm, apical, racemose, flowering only once, pendent, densely many-flowered; peduncle 4.5 cm long, laterally compressed, ancipitose, straight, with nodes at the base and 2 bracts 1 cm long; rachis terete, straight and sulcate. **Floral bracts** 4-11 mm long, about 1/3 the length of the ovary, triangular, long-acuminate, dorsally granulose, yellow with irregular reddish dots. **Ovary** 8-15 mm long, thin, longitudinally striated, not inflated, green, sparsely dotted purple. **Flowers** 12-35, successive, opening from the base towards the apex of the inflorescence, resupinate, yellowish green; sepals dorsally with irregular pale purple dots; lip with irregular purple dots and blotches; calli with diffuse purple dots; mid-rib with irregular purple blotches; column dorsally with small and irregular purple blotches; fragrance not registered. **Sepals** partly spreading, free, margin entire; dorsal sepal 6.5 x 3.5 mm, oblong-elliptic, sub-obtuse, minutely mucronate, incurved, 3-veined with secondary veins; lateral sepals 6.5 x 4 mm, slightly incurved, widely hemi-ovate, sub-obtuse, mucronate, oblique, dorsally with a low keel towards the base, apically conspicuous, 1-veined with irregular anastomosis. **Petals** 6 x 1.5 mm, spreading, incurved, linear-oblancoolate, sub-obtuse, 1-veined, margin entire, spreading. **Lip** 7 x 10 mm, adnate to the column, deeply 3-lobed, base slightly cordate convex in natural position; bicallose, the calli prominent, ellipsoid, laterally somewhat compressed, disc 3-carinate, the lateral rib low, the mid-rib prominent, inter-callose, forming a fleshy, irregular, obovoid protuberance which nearly reaches the apical sinus; lateral lobes 3 x 6 mm, widely dolabriform, margin crenate-dentate, the posterior margin involute, otherwise spreading; mid-lobe 3 x 5 mm, transversely sub-trapezoid, deeply emarginate and thus bilobed, the lobes rounded. **Column** 4.3 x 2.7 mm, straight, slightly clavate, thick. **Clinandrium-hood** reduced, margin entire. **Rostellum** apical, foramen slit. **Lateral lobes of the stigma** ¼ the length of the stigmatic cavity. **Nectary** shallow, without penetrating behind the perianth, smooth. **Anther** widely pyriform, 4-celled. **Pollinia** 4, sub-equal, obovoid, laterally compressed, convex; caudicles short. **Capsule** 23 x 12 mm; pedicel 5 x 1.5 mm, body globose, 13 x 12 mm, apical neck 4 x 2 mm.

OTHER SPECIMENS: None seen.

OTHER RECORDS: PERU: Cusco; Santuario Histórico de Machu Picchu, Camino Inca, bosque, *Polylepis sp.*, ca. 3200 m, César Uchima s.n., (pers. comm. 14 IX 2001), (digital image series, AMO!).

DISTRIBUTION AND ECOLOGY: Presently known only from the "Bosque de Uncas", and *Polylepis*, Camino Inca, Machu Picchu, Cusco, Peru, epiphytic on *Escallonia myrtilloides* L. f. (Tasta), and *Polylepis racemosa* Ruiz & Pav. (Queñua), at 3200-3650 m altitude. Flowering in July.

RECOGNITION: *Epidendrum ochoae* belongs to the Rupestre Group, which is characterized by the caespitose, sympodial plant, the pseudobulbous stems with 1-4 fully developed leaves toward the apex, and lack of spathes at the base of an erect, racemose or paniculate inflorescence, the lip ecallose or bicallose and with several fleshy thickened keels on the disc. The species is characterized by the epiphytic, pendulous, sympodial habit, the stem with a homoblastic pseudobulb, terete, constituted by 3 internodes, green, smooth, brilliant, the leaves lanceolate, mucronate, the lip deeply 3-lobed, with 2 prominent calli, upright, and with 3 prominent thickened ribs, the lateral ones in front of the calli, smaller than the mid-rib. *Epidendrum pachydiscum* Hágsater, described from Cusco Province, is overall very similar, though it has erect stems, the lip is ecallose, and the lateral lobes of the lip are much wider. *Epidendrum megalocoleum* Hágsater the entire lip, deeply emarginate and mucronate, ecallose, the disc with 3 well-defined, central keels, the lateral pair ending at about ¾ the length of the lip, the central keel starting at the middle of the lip and ending in the fleshy mucro. *Epidendrum excelsum* C. Schweinf. has smaller plants, narrower leaves, fewer flowers, an entire lip, with the margin deeply dentate, two calli at the base which are large but not upright, and the disc somewhat thickened into 3 very low ribs, but otherwise the habit is similar as well as the flowers.

CONSERVATION STATUS: DD. Data deficient.

ETYMOLOGY: In honor of Julio Gustavo Ochoa, a Biologist of the Ministry of Culture in Machu Picchu, a conservationist and for his contribution to the knowledge of the Flora of Machu Picchu. He brought this species to our attention, and photographed the live plant.

REFERENCES: Hágsater, E., 2004, *Epidendrum pachydiscum*, in E. Hágsater & L. Sánchez S. (eds.), The genus *Epidendrum*, Part 4, **Icon. Orchid.** 7: t. 773. Hágsater, E., 2007, *Epidendrum megalocoleum*, in E. Hágsater & L. Sánchez S. (eds.), The genus *Epidendrum*, Part 6, **Icon. Orchid.** 9: t. 956. Santiago, E., & E. Hágsater, 2015, *Epidendrum excelsum* in E. Hágsater & L. Sánchez S. (eds.), The genus *Epidendrum*, Part 11, **Icon. Orchid.** 15: t. 1525.

