

EPIDENDRUM BOGARINII Karremans & C.M.Sm.

Plate 1412

THE GENUS EPIDENDRUM PART 10

ICONES ORCHIDACEARUM 14, 2013

EPIDENDRUM BOGARINII Karremans et C.M.Sm., sp. nov.

Type: COSTA RICA: Cartago: Turrialba, Tayutic, El Seis (Damaris), orillas del Río Shara y Quebrada El Seis, 9°48'13.8"N 83°26'35.9"W, 1163 m, epífitas en árboles a orillas de la quebrada, bosque muy húmedo premontano, "ad ora fluvii supra arbores ad El Seis vicum ad viam versus Llanos del Quetzal", 17 Junio 2011, **Adam P. Karremans, Diego Bogarín & Melania** Fernández 3400. Holotype: JBL-Spirit D4778! (Illustration voucher).

Epidendro anastasioi Hágsater simile, sed planta minore, inflorescencia biflora, floribus minoribus, sepalis et petalis latiores, ovario columnaque rugosis differt. Epiphytic, sympodial, caespitose, erect herb, up to 10 cm tall. Roots basal, fleshy, filiform. Stem 8 cm tall, simple, cane-like,

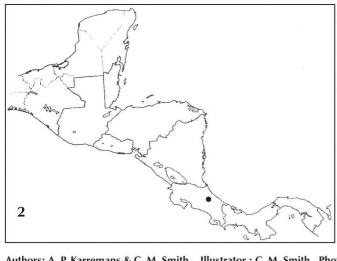
Epiphytic, sympodial, caespitose, erect **herb**, up to 10 cm tall. **Roots** basal, fleshy, filiform. **Stem** 8 cm tall, simple, cane-like, terete, erect. **Leaves** 3-5, distributed along the upper half of the stem, especially close to the apex, green; leaf sheath tubular, infundibuliform, minutely rugose; blades 2.5-4.0 x 1.0-1.5 cm, ovate to narrowly-ovate, obtuse bilobed, articulate, variable in size, the lower one smaller. **Spathaceous bracts** lacking. **Inflorescence** apical, from the mature stem, sub-umbellate, lax, flowering only once; peduncle reduced. **Floral bracts** much shorter than the ovary, acute, amplexicaule. **Flowers** 2, simultaneous, resupinate, greenish; fragrance not registered. **Ovary** 11 mm long, terete, not inflated, minutely glandular. **Sepals** free, spreading, slightly bent backwards, elliptic, obtuse, 9-veined, margin entire, strongly revolute; the **dorsal** sepal 10 x 6 mm; the **lateral** sepals 12-13 x 6 mm, oblique. **Petals** 12 x 3 mm, spreading, narrowly-obovate to spathulate, obtuse, 3-veined, margin entire. **Lip** 12 x 18 mm, united to the column, 3-lobed, base cordate, margin erose, spreading; bicallose, the calli subglobose, divergent; lateral lobes 7-8 x 8-9 mm, widely ovate-elliptic; mid-lobe 1 x 7 mm, deeply emarginated forming a pair of small, semi-orbicular lobes. **Column** 9 mm long, slightly arching, sub-terete, ventrally minutely glandular. **Clinandrium-hood** small, semi-orbicular lobes, . Column 9 mm long, slightly arching, sub-terete, ventrally minutely glandular. Clinandrium-hood short, erect, margins radially erose. Anther transverse-elliptic, 4-celled. Pollinia 4, obovoid, laterally compressed. Rostellum near the apex of the column, slit. Nectary short, barely penetrating the ovary, smooth. Capsule not seen. OTHER SPECIMENS: None seen.

DISTRIBUTION AND ECOLOGY: Known only from the type, which was found in El Seis on the road to Llanos del Quetzal in Turrialba, Cartago, Costa Rica. It grows epiphytically on trees of disturbed humid premontane forest, at around 1160 m elevation. Flowering in cultivation in November.

RECOGNITION: Epidendrum bogarinii belongs to the Difforme Group which is characterized by the caespitose, sympodial plants, fleshy, pale green to glaucous leaves, apical inflorescence, sessile, rarely with a short peduncle, one-flowered to corymbose, without spathaceous bracts, fleshy, green to yellowish-green rarely white flowers. The species can be recognized by the small plants, with 3-5 leaves with infundibuliform sheaths, two, simultaneous flowers, sepals 10-13 mm long, a minutely rugose ovary and column (ventrally), and a 3-lobed lip, erose margins, mid-lobe deeply emarginate, forming two semi-orbicular lobes. It is most similar to Epidendrum anastasioi Hágsater which has larger plants with more and larger elliptic leaves (4.5-7 cm long), many-flowered inflorescences (15-22 flowers), a glabrous ovary and column, narrower sepals and petals and a wide sinus between the apical lobes of the lip. *Epidendrum chlorocorymbos* Schltr. has much larger plants, does not have infundibuliform leave-sheaths, many-flowered inflorescences, 5-20 larger flowers (sepals and petals 13-19.3 mm long) and the lip margin is entire. Epidendrum carnevalii Hágsater & L.Sánchez from the Caribbean slope of Colombia and Venezuela has taller, laterally compressed stems (14-25 cm long), with 4-12 leaves, inflorescences have 5-10 flowers and sepals are 13-18 mm long, the column and ovary are papillose, the lip has 1-3 thickened veins on the disc, margin is undulate, and the mid-lobe is short, emarginate, forming a pair of wide, divergent lobes. *Epidendrum difforme* Jacq. is endemic to the Windward Antilles of Montserrat, Guadelopue, Dominica, Martinique, St. Lucia, St. Vincent and Trinidad & Tobago; ancipitose stems are 4-10 leaved, inflorescence 2-5-flowered, lip is bicallose, the callismall, parallel, disc is thickened to form a low rangin of the lateral lobes is partitive to great the state of the mid-lobe is a state of the mid-lobe. entire to crenate, that of the mid-lobe is entire, ovary and column are glabrous, and the clinandrium hood is funnel-shaped, the margin erose-dentate CONSERVATION STATUS: DD. Data deficient. Apparently endemic.

ETYMOLOGY: The name honors our good friend Diego Bogarín (1982-) who accompanied the collection and documented the plant, allowing this study. Bogarín is a staff member of the Lankester Botanical Garden, student of orchids, and has extensively collected, documented, illustrated and photographed orchid diversity in Costa Rica. REFERENCES: Hágsater, E. 1993. Epidendrum anastasioi in E. Hágsater & G. A. Salazar (eds)lcon. Orchid. 2: pl. 106. Sánchez,

L. & E. Hágsater. 1999. Epidendrum carnevalii in E. Hágsater, L. Sánchez S. & J. García-Cruz (eds) Icon Orchid. 3: pl. 321. Hágsater, E. & L. Sánchez S. 2006. Epidendrum difforme in E. Hágsater & L. Sánchez S. (eds) Icon. Orchid. 8: pl. 827. Sánchez, L. & E. Hágsater. 2009. Epidendrum chlorocorymbos in E. Hágsater & L. Sánchez S. Icon. Orchid. 12: pl. 1223.





Authors: A. P. Karremans & C. M. Smith Illustrator: C. M. Smith Photo: A. P. Karremans Editors: E. Hágsater & L. Sánchez S.

Herbario AMO México, D.F. MÉXICO ICONES ORCHIDACEARUM 14. 2013. **Plate 1412**