

*EPIDENDRUM ADSETTII* Serracín, J.S.Harrison, Bogarín & L.Sánchez

Plate 1569

***EPIDENDRUM ADSETTII* Serracín, J.S. Harrison, Bogarín et L. Sánchez, sp. nov.**

Type: PANAMA: Prov. Panamá; Chilibre, Los Altos de Cerro Azul, El Torreón, Calle Kirpatrick, bosque detrás de la casa de Bill Adsett, 9°12.660'N 79°24.901'W, 783 m, bosque muy húmedo premontano transición cálido, epífita, 20 febrero 2014, **Zuleika Serracín, Diego Bogarín, Jerry & Linda Harrison 445**. Holotype: UCH! (illustration & photo voucher). Isotypes: UCH! PMA!

*Epidendrum adsettii* is most similar to *Epidendrum anastasioi* Hágsater from which it differs by having narrowly oblong-elliptic leaves with six parallel light-green nerves, a 3-lobed, deeply cordate lip with a pair of prominent auricles at base, erect against the sides of the column in natural position, column with a revolute, entire wing on each side, and a fimbriate clinandrium hood.

Epiphytic, sympodial, caespitose, erect **herb**, 15-23 cm tall including the inflorescence. **Roots** 0.5-1.0 mm in diameter, basal, flexuous, filiform. **Stems** 12-17 (20) x 1 cm, simple, cane-like, terete at the base, laterally compressed above, slightly sinuose. **Leaves** 3-5, distributed throughout the stem; foliar sheath 2.0-3.5 x 0.6-0.7 cm, tubular, laterally compressed, smooth; blade 5-9 x 1.3-2.6 cm, narrowly oblong-elliptic, unevenly retuse, coriaceous, conduplicate, green, with six parallel light-green evident nerves. **Spathe** lacking. **Inflorescence** apical from the mature stem, sub-corymbose, flowering only once, sessile. **Floral bracts** 2.5 x 1.0 mm, much shorter than the ovary, triangular, acute, amplexicaul. **Ovary** pedicellate, 23 x 4 mm, terete, somewhat inflated behind the perianth. **Flowers** 3-4 in each flowering stem, resupinate, simultaneous, light dull green; fragrance not recorded. **Sepals** 16-20 x 6-7 mm, ovate-elliptic, coriaceous, spreading, free, spatulate, acute, 5-veined, margin entire, spreading. **Petals** 16-19 x 2-4 mm, oblanceolate to spatulate, acute, partly spreading, membranaceous, 1-veined, the vein trifurcate near the base so as to appear 3-veined above, margin entire, spreading. **Lip** 13.0 x 21.5 mm, united to the column, obscurely 3-lobed, obreniform, base deeply and obliquely cordate, with a pair of prominent sub-orbicular auricles 6 x 3 mm, erect and reclining on the sides of the column (erect in the image of the lip, also visible as a circle on the side of the column, on the view of the column and lip in the right-hand bottom corner of the plate), margin entire, the posterior margin revolute; lateral lobes 14 x 10 mm (excluding the basal auricles), hemi-ovate, sides semi-circular, apex narrowly rounded; mid-lobe 2.2 x 13.0 mm, very short and wide, much smaller than the lateral lobes and separated by a narrow incision, transversely oblong, widely emarginate, the apical corner of the lateral lobes level with the mid-lobe; bicallose, the calli small, curved, divergent; disc 3-ribbed, the mid-rib very wide and low, the lateral ribs very narrow and adnate to the mid-rib, short, the central rib only reaching the middle of the lip. **Column** 12 x 4 mm, arcuate towards the apex, apically with a revolute, entire wing on each side, the margin entire, with apical, triangular, acute teeth at the side of the anther. **Clinandrium-hood** short, fimbriate. **Anther** 4-celled, sub-ovoid. **Pollinia** 4, ovoid, laterally compressed, sub-equal, with short caudicles, elongate, translucent stipe and viscidium. **Rostellum** sub-apical, slit. **Lateral lobes of the stigma** prominent. **Nectary** deep, penetrating ca. 3/4 of the ovary, not inflated, unornamented. **Capsule** fusiform; pedicel 6 mm long, terete; body 26 x 14 mm long; apical neck 6 mm long.

**OTHER SPECIMENS:** None seen.

**OTHER RECORDS:** None seen.

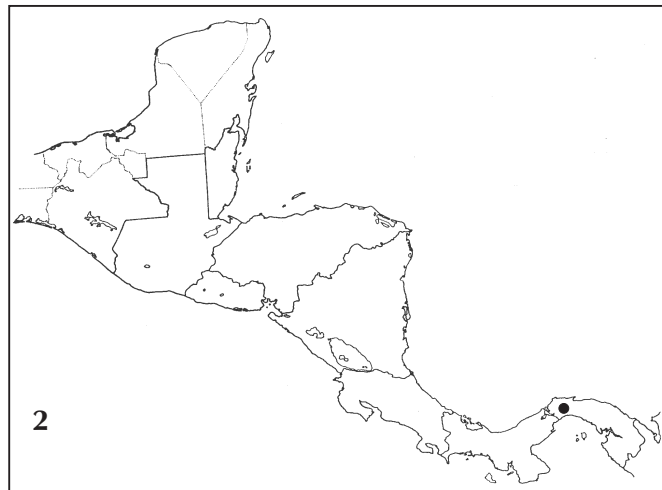
**DISTRIBUTION AND ECOLOGY:** Presently only known from the forested residence of Bill & Esther Adsett in Parque Nacional Chagres in Los Altos de Cerro Azul, near Cerro Jefe in central Panama at ca. 800 m. Plants grow as epiphytes in tall secondary forest. Plants found on four trees, on tree trunks at 5 m from ground. Flowering mostly in September; fruiting recorded in December.

**RECOGNITION:** *Epidendrum adsettii* belongs to the difforme group, which is characterized by the caespitose, sympodial plants, fleshy light green to glaucous leaves, apical inflorescence without the spathe, sessile, rarely with a short peduncle, one-flowered to corymbose, fleshy, and flowers green to yellowish-green, rarely white. The new species is recognized by the following combination of features: small plants, 15-23 cm tall including the inflorescence, the coriaceous, narrowly oblong-elliptic leaves 5-9 x 1.3-2.6 cm, bright green and shiny above when young and bumpy-textured when aged, with six evident parallel light-green nerves, inflorescence with 3-4 dull green flowers, sepals flat, margins not revolute, 3-lobed lip 13.0 x 21.5 mm, deeply cordate with a pair of prominent basal erect auricles, flush on the sides of the column, lateral lobes (excluding the basal auricles), hemi-ovate, sides semi-circular, apex narrowly rounded; mid-lobe very short and wide, much smaller than the lateral lobes and separated by a narrow incision, transversely oblong, widely emarginate, apical corner of the lateral lobes level with the mid-lobe; calli curved, divergent, and the fimbriate clinandrium-hood. Most similar to *E. anastasioi* which has elliptic leaves, without evident nerves (vs. narrowly oblong-elliptic leaves with six parallel light-green nerves), glossy flowers (vs. dull green), smaller flowers, sepals 13-16 mm long (vs. 16-20 mm), lip 8-9 x 14-17 mm, semi-ovate lateral lobes, and mid-lobe protruding beyond the lateral lobes (vs. deeply cordate lip, 13.0 x 21.5 mm, with a pair of prominent auricles at base, erect against the sides of the column in natural position, with widely obovate lateral lobes, mid-lobe small and wide, the apical margin of the lateral lobes protruding beyond the mid-lobe), and the dentate clinandrium-hood (vs. fimbriate). *Epidendrum trialatum* Hágsater, known from El Valle de Antón, Panama to northern Costa Rica, has elliptic-ligulate leaves (vs. oblong-elliptic), the 3-6, greenish white flowers (vs. 3-4, dull green), flowers smaller, sepals 13-15 mm long (vs. 16-20 mm), and the 4-lobed, sub-quadrate lip, 8-10 x 14-15 mm (vs. 3-lobed, reniform, 13.0 x 21.5 mm), column with a pair of apical petaloid, dentate-fimbriate, revolute processes (vs. column with a revolute, entire wing on each side, the margin entire). *Epidendrum vulgoamparoanum* Hágsater & L. Sánchez from the Pacific lowlands of Costa Rica and Panama has larger plants 15-35 cm tall (vs. 15-23 cm), flowers larger, sepals 21-31 mm long (vs. 16-20 mm), widely ovate lip with the margin slightly undulate and numerous radiating thickened veins at the base (vs. reniform, without obvious numerous radiating veins, only two thickened veins from the base towards the apex), column truncate, without wings (vs. a revolute, entire wing on each side, the margin entire).

**CONSERVATION STATUS:** DD. Data deficient. Presently known from a single population of a few individuals in Los Altos de Cerro Azul in Parque Nacional Chagres.

**ETYMOLOGY:** The epithet honors William (Bill) Adsett, a long-time resident of Los Altos de Cerro Azul in central Panama. Bill, an avid birder, environmentalist and conservationist, has been active in Panama Audubon since 1986, serving as president in the 1990s. Along with wife Esther, Bill steadfastly supports education and conservation. In fact, the property on which this species is found was purchased to preserve a piece of primary forest.

**REFERENCES:** Hágsater, E., 1993, *Epidendrum anastasioi* in E. Hágsater & G. A. Salazar (eds.), The Genus *Epidendrum*, Part 1, **Icon. Orchid.** 2; t. 106. Hágsater, E. & L. Sánchez Saldaña, 2006, *Epidendrum vulgoamparoanum* in E. Hágsater & L. Sánchez Saldaña, (eds.), The Genus *Epidendrum*, Part 5, **Icon. Orchid.** 8: t. 898. Sánchez Saldaña, L. & E. Hágsater, 2008, *Epidendrum trialatum* in E. Hágsater & L. Sánchez Saldaña, (eds.), The Genus *Epidendrum*, Part 7, **Icon. Orchid.** 11: t. 1189.



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