NOTES ON A REMARKABLE COLLECTION OF ORCHIDS FROM PANAMA

BY

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MORE THAN HALF of a recent collection of orchids from the Province of Chiriquí, Panama, represents species which are unrecorded from Panama. However, as indicated in a letter received from C. H. Lankester, "a large series of plants is common to Chiriquí (from high elevations especially) and Costa Rica, without being truly members of the Panama flora".

All of these specimens were collected in Panama, Province of Chiriquí, Boquete District between January 5 and June 26, 1938 by Mrs. M. E. Davidson and are now incorporated in the herbarium of the Field Museum.

The Davidson collections are often amplified by notes of color or show characters which appear to be additional to, or at variance with those shown by other collections in the Ames Herbarium.

Elleanthus Tonduzii *Schlechter* in Fedde Repert. 8 (1910) 567.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flowers white, *Davidson* 123; flowers yellowish green, *Davidson* 161, 247, 365.

These specimens have no good flowers, but the vegetative characters are apparently diagnostic.

Gomphichis costaricensis (*Schltr.*) *Ames, Hubbard & Schweinfurth* in Bot. Mus. Leaf. Harv. Univ. 3 (1934) 37.

Stenoptera costaricensis *Schlechter* in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 375.

Bajo Chorro, in rain forest at 6000-7000 feet altitude, *Davidson* 163; "Height 6-10 in.", leaves up to 10 cm. long, *Davidson* 309.

Stelis Skutchii *Ames* in Bot. Mus. Leaflet. Harv. Univ. 6 (1938) 17, t. on p. 19.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flowers very old, *Davidson* 270.

Stelis vestita *Ames* in Sched. Orch. 6 (1923) 56.

Boquete, dry hillsides, at 4000 feet altitude, epiphyte 4 to 8 inches tall, "Petals white with maroon centers", May 21, 1938, *Davidson* 696.

Restrepia subserrata *Schlechter* in Fedde Repert. Beihefte 19 (1923) 291.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, plant 3 to 6 inches high, flower yellow striped with maroon, *Davidson* 116.

Pleurothallis Cogniauxiana *Schlechter* in Fedde Repert. 3 (1907) 246.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, leaves oblong-lanceolate to elliptic-lanceolate, 11-11.4 cm. long, 1.7-2.5 cm. wide, *Davidson* 109, 382.

Pleurothallis pruinosa *Lindley* in Bot. Reg. 28 (1842) Misc. p. 75.

This species, recorded in Central America from Honduras and Costa Rica and in the West Indies from Jamaica to Trinidad, and also in French Guiana, is now reported from Panama.

Boquete, dry hillsides, at 3800 feet altitude, "epiphyte 1 to 3 inches high", flower pale yellowish green, May 24, 1938, *Davidson* 708.

Pleurothallis ruscifolia (*Jacq.*) *R. Brown* in Aiton Hort. Kew. ed. 2, 5 (1813) 211.

Epidendrum ruscifolium *Jacquin* Enum. Pl. Carib. (1760) 29.

Dendrobium ruscifolium Swartz in Nov. Act. Soc. Sci. Upsal. 6 (1799) 84.

Pleurothallis glomerata Ames in Sched. Orch. 4 (1923) 21.

This species, which appears to be frequent in Central America from Guatemala to Costa Rica, in the West Indies from Cuba to Trinidad and in South America as far as Peru and Bolivia, is here recorded from Panama.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, *Davidson* 262; epiphyte 8-13.6 inches tall, flower yellow, March 19, 1938, *Davidson* 419.

Pleurothallis uncinata Fawcett in Journ. Bot. 33 (1895) 12.

Pleurothallis Alexandrae Schlechter in Fedde Repert. Beihefte 19 (1923) 103.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flower greenish yellow, *Davidson* 220.

Lepanthes elata Reichenbach filius in Beitr. Orch. Centr.-Am. (1866) 90.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flowers yellow with maroon lip, *Davidson* 237.

While no good flowers are available on this specimen the vegetative aspect is characteristic.

Lepanthes eximia Ames in Sched. Orch. 5 (June 1923) 21.

Lepanthes abnormis Schlechter in Fedde Repert. Beihefte 19 (November 1923) 21.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flower "tinted pink", *Davidson* 186.

Lepanthes insectiflora *C. Schweinfurth sp. nov.*

Herba epiphytica, pusilla. Caules caespitosi, filiformes, patentes, apice monophylli, vaginis arctis tubularibus cum ostiis ovatis ciliatis ornati. Folium ovatum vel elliptico-ovatum, erectum, apice acuminato tridentatum, basi cuneatum. Inflorescentiae singulae vel paucae, folii medium superantes. Racemi pauciflori. Bractae extus muriculatae. Sepala triangulari-lineararia, dorso alticarinata. Sepalum dorsale trinervium. Sepala lateralia uninervia. Petala transverse bilobata lobis valdissime inaequalibus; lobus posterior elongatus, angustissime triangulari-linearis; lobus anterior perparvus, ovatus. Labellum acriter bilobatum, lobis semiovatis. Columna gracilis labelli lobos superans.

Plant caespitose, spreading, very slender. Roots fibrous, flexuous, apparently pubescent. Stems filiform, about 2.6–7.5 cm. long, almost entirely invested by about six to sixteen close tubular minutely muriculate sheaths which terminate abruptly in spreading ovate mucronate ciliate mouths. Leaf solitary, erect, ovate to elliptic-ovate, up to 2.4 cm. long and 8 mm. wide, somewhat acuminate above with a tridenticulate apex of which the central tooth is slender and projecting, cuneate below to a subpetiolate base. Inflorescences one to five, shorter than the leaf, about 2- to 12-flowered; bracts infundibuliform, muriculate on the outer surface, about half as long as the slender pedicels. Flower membranaceous, segments spreading. Sepals triangular-linear, long-acuminate with a complicate apex. Dorsal sepal about 5 mm. long and 1 mm. wide at the base, 3-nerved through the basal third with the nerves carinate on the outer surface (the median keel is relatively high, thin and cellular-denticulate). Lateral sepals similar but narrower, 1-nerved and dorsally carinate with the keel cellular-denticulate, about 5 mm. long and 0.8 mm. wide at the

base. Petals transversely bipartite with the lobes horizontal, continuous and very unequal; posterior lobe elongate, very narrowly triangular-linear, about 3.2 mm. long; anterior lobe very short, ovate, about 0.7 mm. long. Lip sharply bilobed (with the lobes semiovate, about 1 mm. long and fleshy-thickened on the lateral margins), protuberant in the sinus into a minute porrect apicule. Column slender, surpassing the lip, about 1.6 mm. long, above with a relatively large hemispherical cavity below and posterior to the clinandrium.

This species differs from *Lepanthes tipulifera* Reichb. f. in having rather longer stems and very unequal lobes of the petals. It appeared in a mixture with another species of *Lepanthes*.

PANAMA: Province of Chiriquí, Boquete District, Bajo Chorro, at 6000 feet altitude, epiphyte in rain forest, 2 to 4 inches high, flowers burnt orange (?), January 22, 1938 *M.E. Davidson 185* (TYPE in Herb. Field Mus. No. 915594; DUPLICATE TYPE in Herb. Ames No. 49038).

Epidendrum confertum Ames & Schweinfurth in Sched. Orch. 10 (1930) 61.

Epidendrum prostratum Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 407, non Cogn.

Bajo Chorro, in rain forests, at 6000-7000 feet altitude, flower reddish brown, *Davidson 246*.

Epidendrum paranthicum Reichenbach filius in Bot. Zeit. 10 (1852) 732.

Epidendrum Sancti Ramoni Kränzlin in Vierteljahrsschr. Naturforsch. Gesell. Zürich 74 (1929) 137.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, *Davidson 121*.

Epidendrum ramosum Jacq. var. ***imbricatum*** (*Lindl.*) Ames, Hubbard & Schweinfurth in Bot. Mus. Leaflet Harv. Univ. 2 (1934) 47.

Epidendrum imbricatum Lindley Gen. & Sp. Orch. Pl. (1831) 110, non Lam.

Epidendrum biflorum Cogniaux in Bull. Herb. Boiss. ser. 2, 2 (1902) 337, t. nec Forst.f., nec Ruiz & Pav., nec Rodr.

Epidendrum Boissierianum Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 459.

Epidendrum santaclarens Ames in Sched. Orch. 4 (1923) 49.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, *Davidson* 213.

Epidendrum Sanchoi Ames in Sched. Orch. 4 (1923) 48.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flowers pale yellow, *Davidson* 114, 348.

Epidendrum trachythece Schlechter in Fedde Repert. 3 (1907) 249.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flowers white, *Davidson* 124.

Bletia Lankesteri (A. & S.) Ames, Hubbard & Schweinfurth in Bot. Mus. Leaf. Harv. Univ. 3 (1934) 41.

This species is now recorded from Panama.

Boquete, at 5000 feet altitude, herb on open hillside, 12 to 18 inches high (specimen in bud), "flower deep rose pink, central petals white at base", June 26, 1938, *Davidson* 768.

Bletia tuberosa (L.) Ames in Proc. Biol. Soc. Wash. 45 (1932) 1.

The present example of this widespread species is only about 3 inches tall, but the loose flower is approximately of the usual size.

Boquete, at 4000 feet altitude, terrestrial on open hillside, 3 inches high, flower white, June 24, 1938, *Davidson* 741.

Maxillaria meleagris *Lindley* in Bot. Reg. 30 (1844) Misc. p. 3.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, plant 8 to 15 inches high, the stem below the pseudobulb is lacking and doubtless has been broken off, flower "reddish brown, paler at base of petal", *Davidson 115*.

Maxillaria parvilabia *Ames & Schweinfurth* in Sched. Orch. 8 (1925) 62.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flower pale yellow, *Davidson 126*.

Maxillaria valenzuelana (*A. Rich.*) *Nash* in Bull. Torr. Bot. Club 34 (1907) 121.

This distinct species is recorded from Cuba, from Honduras to Costa Rica and also from Colombia and Brazil. It is here reported from Panama.

Boquete, at 3800 feet altitude, epiphyte 6 to 10 inches high, flower "yellow, lip dotted maroon", May 12, 1938, *Davidson 636*.

Camaridium Biolleyi *Schlechter* in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 498.

Ornithidium Biolleyi *Schlechter* in Fedde Repert. 9 (1910) 29.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, flowers white with crimson lip, *Davidson 125*.

Camaridium Bradeorum *Schlechter* in Fedde Repert. Beihefte 19 (1923) 141.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, plant 2-3 feet high, flower white, each petal blotched with rose, *Davidson 118*.

Camaridium dendrobioides *Schlechter* in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 415.

Camaridium Jimenezii *Schlechter* in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 416.

Camaridium simile Schlechter in Fedde Repert. Beihefte 19 (1923) 239.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, *Davidson* 240.

Camaridium nutantiflorum Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 417.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, *Davidson* 308.

Ornithidium costaricense Schlechter in Fedde Repert. 8 (1910) 456.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, *Davidson* 325; plant 3-4 feet tall, leaves uncommonly large (one is about 30 cm. long, another one is about 2.2 cm. wide), *Davidson* 326.

Ornithidium Pittieri Ames in Sched. Orch. 2 (1923) 35.

Bajo Chorro, in rain forest, at 6000-7000 feet altitude, plant 2-4 feet high, flowers pink, *Davidson* 310.

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