

TWO NEW SPECIES OF *PASSIFLORA* (PASSIFLORACEAE) FROM SOUTH AMERICA

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ABSTRACT

Recent botanical explorations have uncovered two new species of *Passiflora*, here described as *P. fernandezii* and *P. viridescens*. The first is placed in subgenus *Passiflora*, series *Laurifolia*, where it most closely resembles *Passiflora riparia*, the second in subgenus *Plectostemma*, section *Decaloba*, near *Passiflora chelidonea*.

KEY WORDS: *Passiflora*, systematics, South America.

Passiflora fernandezii L. Escobar, sp. nov. TYPE: BOLIVIA. Pando: Nicolas Suarez: entre Porvenir y Cachuelita, a lo largo de la pista, 19 Jan 1983, J. Fernández-Casas & A. Susanna 3341 (holotype NY; isotype MO).

Passiflora (subgenus *Passiflora* series *Laurifolia*) *ripariae* Masters similis, sed pubescentia et forma hypanthii differt.

Liana. Plants pubescent, with straight, transparent trichomes ca 0.5 mm long. Stems angulate, striate, gray-green, sparingly pubescent. Leaf blades oblong, (3.5-) 5.0-9.4 cm long, (1.4-) 2.5-4.2 cm wide, obtuse then abruptly acuminate at apex, rounded at base, entire at margins, coriaceous, lustrous, gray-green, glabrous except for a few scattered trichomes at base on abaxial surface; petioles 1.2-1.8 cm long, with 2 paired, dark brown cup shaped nectaries ca 1 mm diam at mid-point on adaxial surface; stipules linear, ca 1 cm long, ca 0.5 cm wide. Peduncles single, 2.1-3.0 cm long; bracts 3, verticillate, ovate. 1.9-2.4 cm long, 1.0-1.4 cm wide, acute to rounded at apex, cuneate at base, irregularly crenate at margins, with 4-6 dark brown nectaries scattered along margins above mid-point, densely pubescent; flower stipe ca 2 mm long. Flowers campanulate, ca 6 cm diam, pendant, white; hypanthium funnelform, 1.6-2.0 cm long, 2.4-2.9 cm wide at apex, 1.0-1.3 cm wide at base,

with irregular rows of filaments 0.5-2.0 mm long in lower 1/2 of inner surface; sepals ovate, 2.6-3.1 cm long, 1.5-2.1 cm wide, rounded at apex, softly coriaceous, with subapical corniculus ca 2 mm long on abaxial surface; petals oblong, ca 1.4 cm long, ca 0.7 cm wide, rounded at apex, narrowed at base, delicately membranaceous; corona in 2 series, filamentous, the outer filaments ca 6 mm long, ca 0.4 mm wide, the inner ones 2.3-2.5 cm long, ca 1.0 mm wide, banded with purple; operculum horizontal, nonplicate, membranaceous; ovary ellipsoidal, densely pubescent. Fruit unknown.

Distribution. This species is known only from the type collection in lowland Bolivia.

Passiflora fernandezii most closely resembles *P. riparia* Masters of subgenus *Passiflora* series *Laurifolia* (Killip 1938), but differs from it by the pubescence and shape of the hypanthium. Both of these characters are variable in collections ascribed to that species; the type, however, is described as glabrous (Masters 1872), and the illustration in *Flora Brasiliensis* depicts a cylindrical rather than funnellform hypanthium, so that further study of the *Passiflora riparia* complex is needed.

***Passiflora viridescens* L. Escobar, sp. nov.** TYPE: PERÚ. Amazonas: Prov Chachapoyas: 22 km from Leimebamba on road to Balsas, ca 3000 m, 6°45' S, 77°48' W, 4 Feb 1985, B. Stein & C. Todzia 2083 (holotype MO).

Passiflora (subgenus *Plectostemma* section *Decaloba*) *chelidoneae* Masters similis morphologia foliarum, sed floribus multo majoribus sine operculo plicato et corona ligulata irregulari differt.

Herbaceous vine. Plants glabrous with angulate, striate stems. Leaf blades lanceolate, 12.0-12.8 cm long, 5.0-5.4 cm wide, 3 lobed at apex, with erect, triangular lateral lobes ca 1 mm long and mid-lobe ca 1 cm long, truncate to rounded at base, entire at margins, coriaceous; laminar nectaries ocellate, 10-13, located between major veins on abaxial surface; petioles 1.2-1.3 cm long; stipules falcate, 5-6 mm long, ca 1 mm wide. Peduncles paired, ca 4.5 cm long; bracts 3, dissitate, setaceous, 3-5 mm long, ca 0.5 mm wide. Flowers campanulate, ca 11 cm diam, probably pendant, greenish; hypanthium patelliform, ca 2 mm long, sepals narrowly triangular, 5.5 cm long, 1.1 cm wide at base, membranaceous; petals linear oblong, ca 2.8 cm long, 4-7 mm wide, membranaceous; corona in 1 irregular series, ligulate, with ligules ca 1.2-1.6 mm long; operculum spreading, lacerate to base, ca 0.7 mm long, membranaceous; ovary ellipsoidal, densely pubescent, with straight tan trichomes ca 0.1 mm long. Fruits unknown.

Distribution. This species is known only from the type collection in the Ceja de Montaña vegetation of Amazonas Department in northern Perú.

This new species is placed in subgenus *Plectostemma*, section *Decaloba* with species which Killip (1938), grouped in series "Punctatae." In leaf morphology, *Passiflora viridescens* resembles *P. chelidonea*, of the western slopes of the

Andes in southern Colombia and northern Ecuador. It differs from that species by the larger flowers with a reduced ligulate corona and nonplicate operculum.

LITERATURE CITED

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