New World Orchidaceae – Nomenclatural Notes Nomenclatural Note – Issue No. 130 www.newworldorchidaceae.com.

March 14, 2024

A New Species of *Zootrophion* Luer (Orchidaceae), *Zootrophion arrondeauanum* Uribe-Velez & Sauleda, From the Department of Putumayo, Colombia is Described.

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Abstract

A new species of *Zootrophion* Luer, *Zootrophium arrondeauanum* Uribe-Velez & Sauleda, is described from the department of Putumayo, Colombia.

The genus *Zootrophion* was established by Carl Luer in 1982 (Selbyana 7(1): 80) to accommodate flowers with lateral sepals fused and a dorsal sepal with the tip fused to the tip of the synsepals leaving a small opening for the pollinator to enter. There are 29 recognized species with 13 reported for Colombia (WCSP, 2018).

In the departament of Putumayo, Colombia, near Mocoa, Carlos Alberto Serna discovered a population of *Zootrophion* Luer. Although this species closely resembles several other species in the genus *Zootrophium* the vegetative and floral differences, especially in the structure of the labellum clearly differiantes this species from similar species. The type plant was cultivated by Pascal Arrondeau. For the above reasons we here describe it as a new species.

Zoothrophium arrondeauanum Uribe-Velez & Sauleda, sp. nov.

TYPE: Colombia, Departamento de Putumayo. Collected by Carlos Alberto Serna near Mocoa. From cultivation in collection of Pascal Arrondeau at Finca el Embudo, El Vigilante, Filandia, Quindio, Colombia. Specimen made March 2024. (Holotype, HPUJ).

Etymology

This species is named in honor of Maurice Arrondeau the 93 year old father of Pascal Arrondeau, who made this plant available for study.

Diagnosis

Zootrophion arrondeauanum Uribe-Velez & Sauleda resembles Zootrophion dodsonii (Luer) Luer (Colombia) but is differentiated by the number of flowers, the shape of the leaves, structure of the labellum, shape of the apex of the labellum and the shape of the dorsal sepal. Zootrophion arrondeauanum has oblanceolate, subacute leaves, Z. dodsonii has elliptical acute leaves. Zootrophion arrondeauanum produces 2-3 flowers, Z. dodsonii produces a single flower. The apex

of the column of *Zootrophion arrondeauanum* has narrow thin wings on each side, *Z. dodsonii* lacks column wings. The labellum of *Z. arrondeauanum* has a long base, the apex of the lateral lobes are obtuse and the apex of the labellum is broadly rounded, in *Z. dodsonii* the base is abrupt, the apex of the lateral lobes are acute and the apex of the labellum is thickened and narrowly rounded.

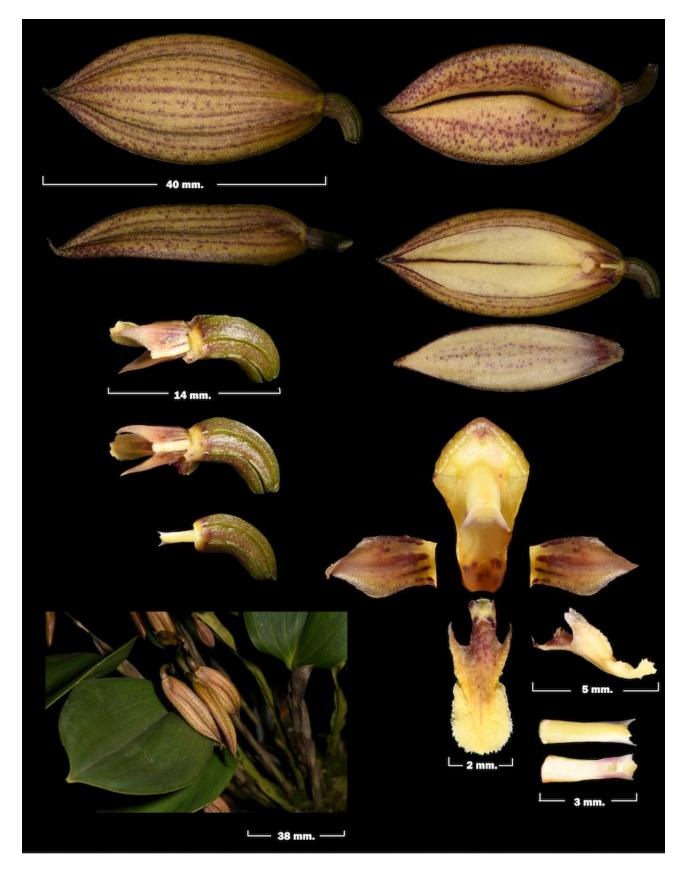
Zootrophion arrondeauanum also resembles Zootrophium mejiae Uribe-Velez & Sauleda. Zootrophion arrondeauanum differs from Z. mejiae in that in Z. mejiae the labellum is narrower than in Z. arrondeauanum, the lateral lobes of the labellum converge at the apex of the labellum and protrude slightly. In addition, Z. mejiae produces a single flower and lacks spots.

Description

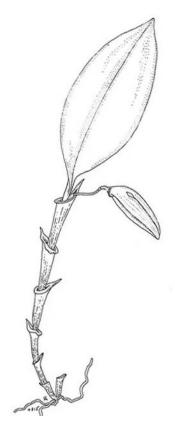
Plants epiphytic, to 25 cm tall; caespitose; ramicauls slender, to 12 cm tall, rooting from base, enclosed by 5 close, tubular, acute sheaths, to 5 cm long, 5 mm wide; leaves erect, to 13 cm long, 3.5 cm wide, coriaceous, oblanceolate, subacute, base rounded to broadly cuneate, base contracted into a petiole to 5 mm long; inflorescence with 2-3 flowers baige with minute reddish-brown spots, borne by a slender, erect peduncle, to 4 cm long; floral bract, to 3 mm long, acute; pedicel subverricose, to 8 mm long, 2 mm wide; sepals glabrous; dorsal sepal to 3 cm long, 1 cm wide unexpanded, elliptic, concave, acute, terminal 4 mm connate to the synsepal; lateral sepals connate into a concave, elliptic synsepal, to 3 cm long, 1 cm wide, unexpanded; petals pentagonalf, truncate, acute, to 1 mm long, 1 mm wide; labellum yellow apically becoming basallly brown, to 4 mm long, 2 mm wide, linear oblong, obtuse. lateral margins crenulate, with two parallel thin lateral acute lobes converging near the apex, crest on labellum ovate, apex broadly obtuse, yellow with crenulate lateral margins; column yellow, to 3,2 mm long, 1 mm wide, apically suffused with pink, linear with two thin acute wings; anther obovate, yellow, to 1 mm long,



Zoothrophium arrondeauanum Uribe-Velez & Sauleda.



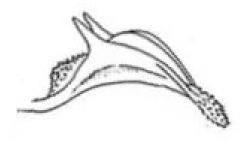
Zoothrophium arrondeauanum Uribe-Velez & Sauleda.



Zootrophion dodsonii (Luer) Luer, Selbyana 7-82 (1982). Illustration from Selbyana 5(2): 145. 1979 (type illustration).



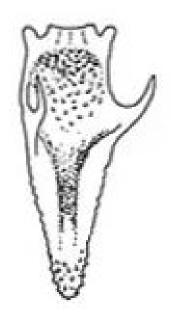
Zoothrophium arrondeauanum Uribe-Velez & Sauleda.



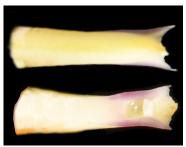
Zootrophion dodsonii (Luer) Luer. Illustration from Selbyana 5(2): 145. 1979.



Labellum *Zoothrophium arrondeauanum* Uribe-Velez & Sauleda.



Labellum *Zootrophion dodsonii* (Luer) Luer. Illustration from Selbyana 5(2): 145. 1979.



Column *Zoothrophium arrondeauanum* Uribe-Velez
& Sauleda.



Column *Zootrophion dodsonii* (Luer) Luer. Illustration from Selbyana 5(2): 145. 1979.



Zootrophium mejiae Uribe-Velez & Sauleda.

Literature Cited

WCSP (2018). World Checklist of Selected Plant Families. Facilitated by the Royal Botanic Gardens, Kew. Published on the Internet.