

# *Amphiodon* Huber

Jose Eduardo Meireles

University of Minnesota; jemeireles@gmail.com

Domingos Benício Oliveira Silva Cardoso

Universidade Federal da Bahia; cardosobot@gmail.com

Haroldo Cavalcante de Lima

Jardim Botânico do Rio de Janeiro; hclegume@gmail.com

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This treatment is composed of the following taxa: *Amphiodon*, *Amphiodon effusus*.

## HOW TO CITE

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## DESCRIPTION

**Trees** up to 20 m tall. **Stipules** minute, caducous. **Leaves** alternate, imparipinately-compound, 5–7 foliolate, pulvinate; leaflets alternate, subopposite or opposite; stipels persistent or caducous; secondary venation brochidodromous. **Inflorescences** paniculate, axillary, cauliflorous, or pseudo-terminal, primary axis very short, secondary axes long, clustered or fasciculate. **Flowers** papilionate, bilaterally symmetrical, pedicellate; bracteoles 2, minute, oppositely inserted at the base of the calyx; calyx turbinate, 5-lobed, the upper 2 lobes connate for most of their length; hypanthium inconspicuous; petals 5, glabrous, clawed; the wing petals slightly longer than the keel, their upper base auriculate; keel petals weakly adherent along part of their lower margins; androecium composed of 10 stamens, diadelphous, the vexillary stamen usually adherent to the base of the standard claw or occasionally inserted on the hypanthium; stamen filaments free apically, anthers sub-equal (the two types with a 2:1 length ratio), the shorter ones sub-dorsifixed (almost basifixed), alternating with the longer basifixed anthers; connective conspicuous; gynoecium with sessile ovary. **Fruits** dehiscent, internally septate by a proliferation of papery tissue from the inner epidermis. **Seeds** with their broad faces transversally orientated to the fruit length.

## COMMENTS

This monospecific papilionoid legume genus of tribe Brongniartieae, only known from the Amazonian rain forests, has been segregated from the paraphyletic *Poecilanthe* s. l. on the basis of both molecular and morphological evidences (Cardoso et al. 2012; Meireles et al. 2014; Meireles & Tozzi 2014). Morphologically, *Amphiodon* can be easily distinguished from the remaining Brongniartieae genera by the highly branched panicles with a shortened primary axis; valvate aestivation of the calyx; the vexillary stamen mostly adherent to the standard claw; well-developed anther connectives; and the internally septate pods with transversally arranged seeds (Meireles et al. 2014; Meireles & Tozzi 2014).

## Life Form

Tree

## Substrate

Terrestrial

## DISTRIBUTION

Native, Not endemic to Brazil

**Phytogeographic Domains**

Amazon Rainforest

**Vegetation Types**

Terra Firme Forest, Ombrophylous Forest (Tropical Rain Forest)

**Geographic Distribution**Confirmed occurrences

North (Acre, Amazonas, Amapá, Pará, Rondônia, Roraima)

Northeast (Maranhão)

Central-west (Mato Grosso)

Possible occurrences

Central-west (Mato Grosso do Sul)

**REFERENCE**

- Cardoso, D., Queiroz, L.P., Pennington, R.T., Lima, H.C., Fonty, E., Wojciechowski, M.F. & Lavin, M. 2012. Revisiting the phylogeny of papilionoid legumes: New insights from comprehensively sampled early-branching lineages. *American Journal of Botany* 99: 1991–2013.
- Meireles, J.E., Tozzi, A.M.G.A. & Lavin, M. 2014. A phylogenetic analysis of molecular and morphological data reveals a paraphyletic *Poecilanthus* (Leguminosae, Papilionoideae). *Systematic Botany* 39(4): 1142–1149.
- Meireles, J.E. & Tozzi, A.M.G.A. 2014. Taxonomic Revision of *Amphiodon* (Leguminosae, Papilionoideae, Brongniartieae). *Systematic Botany* 39(4): 1150–1153.

# *Amphiodon effusus* Huber

## Has as synonym

homotype *Poecilanthe effusa* (Huber) Ducke

heterotypic *Poecilanthe ovalifolia* Kleinhoonte

## DESCRIPTION

**Tree** or treelet to 20 m; terminal branches slightly fissured. **Stipules** caducous. Leaves with petiole (3–)5–9 cm long; rachis (3.5–)8.5–14 cm long; pulvinule 3–5 mm long; stipels caducous, rarely persistent; leaflets elliptic to ovate, rarely suborbicular or narrowly elliptic, (5–)7–14(–19) × (2–)2.5–6(–8.5) cm, base obtuse to rounded, occasionally acute-cuneate, apex acuminate to distinctly cuspidate, chartaceous or rarely coriaceous, glabrous. **Inflorescence** 5–26 cm long, delicate (rarely robust), pubescent to sparsely tomentose; bract 0.6–0.8 mm long. **Flower** 7–10 mm long; pedicel 1–3 mm long; calyx 4.7–6.3 mm long, sparsely to distinctly tomentose; petals deep-red; standard 7.7–9.5 mm long, obcordate to widely depressed-obovate, base obtuse to acute, apex emarginate; wing petals 7–9.3 mm long, elliptic-obovate, apex obtuse to rounded; keel petals 6.6–7.8 mm long, elliptic-obovate to obovate, apex obtuse to rounded; stamens 5.7–7.3 mm long, the basifixed anthers 0.8–1 mm long, sub-dorsifixed anthers 0.6–0.8 mm long; gynoeceum ca. 7–7.4 mm long; ovules 8–9. **Legume** 3.4–4.5 × 1.5–1.8 × 1–1.2 cm, obovoid, apex rounded, base acute, slightly compressed in cross section. **Seeds** (1–)2–4(–5), widely elliptic, orbicular or slightly oblate, 9–13 × 7–12 × 3.5–6 mm, compressed or often plano-convex in cross-section; testa papery, dull, smooth.

## COMMENTS

*Amphiodon effusus* is widely distributed in Amazonian terra-firme (nonflooded) forest across Bolivia, Brazil, French Guiana, Peru, and Surinam. It has been recorded with flowers from March to November, but with most flowering specimens collected between June and October; and fruiting specimens mainly from June to December (Meireles & Tozzi 2014).

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### Possible occurrences

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## HERBARIUM MATERIAL

H.C. Lima, 7166, RB, 511916,  (RB00641466), Pará

J.E. Meireles, 395, RB, 445971,  (RB00475047), Pará

A. Ducke, s.n., MG, 445971 (MG016352), MG, 445971 (MG016480), MG, 445971 (MG014977), MG, 445971 (MG002972), Pará, **Typus**

## FIELD IMAGES / ILLUSTRATIONS

Figure 1: *Amphiodon effusus* Huber

## REFERENCE

- Meireles, J.E. & Tozzi, A.M.G.A. 2007. A synopsis of the genus *Poecilanthe* (Leguminosae, Papilionoideae, Brongniartieae). *Rodriguesia* 58(2): 255–264.
- Meireles, J.E. & Tozzi, A.M.G.A. 2014. Taxonomic Revision of *Amphiodon* (Leguminosae, Papilionoideae, Brongniartieae). *Systematic Botany* 39(4): 1150–1153.