

A New Species of *Typhonium* (Araceae) from Vietnam

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ABSTRACT

The paper describes a single new species of *Typhonium*, *T. buense* Nguyen Van Dzu & Croat. It is believed to be endemic to Vietnam.

The principle author, Nguyen Van Dzu, has been engaged in studies of the Araceae of Vietnam for several years; he conducted field work with the second author in Vietnam in 1995. A recent collection of *Typhonium* made by the principle author has proven to be new to science.

Typhonium buense Nguyen Van Dzu & Croat

Type—Vietnam. Huyen Khong pagoda, Long Ho, Hue city, 8 May 1995, *Nguyen Van Dzu 90* (holotype, HN).

Tuberuculum caulinum, cylindricum irregulare, cum gemmis parvis, 2–3 cm longum, 1–2.5 cm diam., 2(3)4 folia; petiolus 7–50 cm longus, 0.3 cm diam., cum maculis violaceoroseis; lamina integra seu profunde triloba, lamina integra triangulari-cordata, lamina triloba cum lobis leviter seu profunde separatis. Inflorescentia: pedunculus (2.3)3–9 cm longus, spatha curtior spadice, 9.5–21.5 cm longa, tubo spathae 1–1.5 cm longo, 6–8 mm diam; lamina spathae violacea, 8–20 cm longa, basi 1.5 cm lata, oblonga, linearis, apex truncata; spadix sessilis, longa, parte pistillata conica, truncata, 7 mm longa, 5 mm

diam. cum floribus plurimis; flores staminati steriles a basi, applanati et acuminati apice; partes pistillatae et staminatae steriles separatae parte staminata fertili ab area nuda; pars staminata 8–12 mm longa, 3 mm diam., cum floribus multis; anthera poris apicalibus dehiscens; ovarium 1 mm longum, loculi 1-ovulati; stigma emersum, disciforme.

Haec species affinis cum *T. acetocella* et *T. laoticum*, sed differt e *T. laoticum* lamina integerrima seu triloba. Differt ab *T. acetocella* partibus staminatis florum multo longioribus (8–12 mm) et floribus sterilibus curtioribus.

Tuber subcylindric, irregular with small shoot, 2–3 cm long, 1–2.5 cm diam., yellowish outside, dull white inside. Leaves 2(3)–4 per tuber; petiole 7–50 cm long, 3 mm diam., pale green with pinkish violet spots. Leaf blade entire or deeply trilobed; blades triangular-cordate, to 8 cm long, 12 cm wide, the posterior lobes directed downward and slightly, outward, 0.3 times as long as entire blade; trilobed blades somewhat hastate or deeply dissected to near the base; lateral lobes broadly spreading, narrowly ovate-elliptic, 5–6.5 cm long, 1.5–2.5 cm wide; median lobe oblong-elliptic, 7–8 cm long, 2–3 cm wide; upper surface dark green, the major veins weakly impressed, slightly paler below, the major veins weakly raised. Inflorescence with peduncle (2.3)



Fig. 1. *Typhonium buense* Nguyen Van Dzu & Croat. Habit.

3–9 cm long, whitish; spathe 9–21.5 cm long, slightly shorter than spadix; spathe tube 1–1.5 cm long, 6–8 mm diam., pale green outside with numerous purplish vi-

olet spots; inside pinkish white; spathe blade very thin, greenish white, tinged pale violet, 8–20 cm long, 1.5 cm wide at the base, narrowly and acutely tapered to

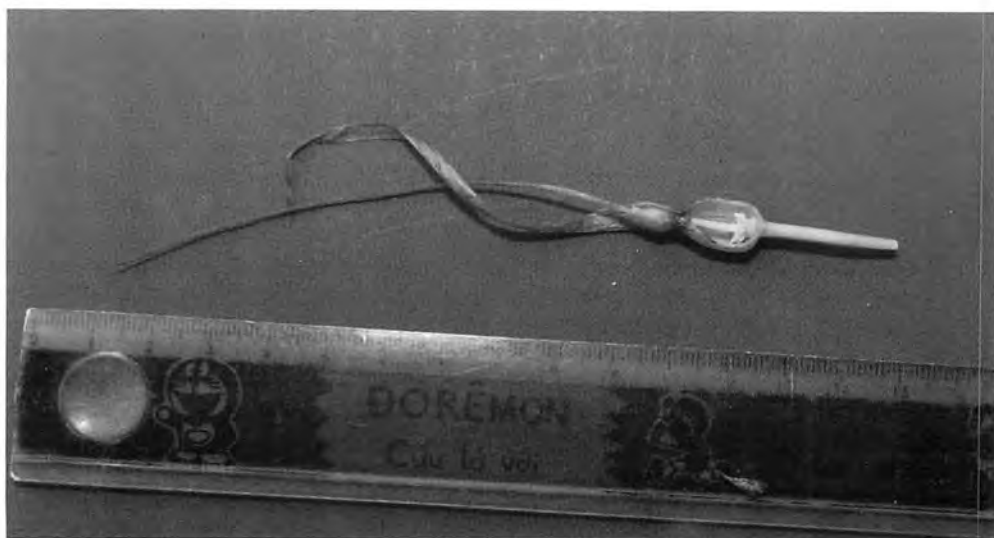


Fig. 2. *Typhonium buense* Nguyen Van Dzu & Croat. Inflorescence (spadix, including appendix, 11 cm long).



Fig. 3. *Typhonium buense* Nguyen Van Dzu & Croat. Staminate portion of spadix held just above throat of spathe tube (10 mm long).

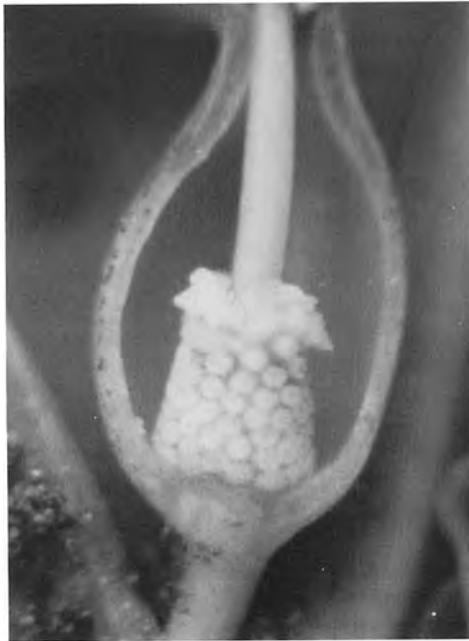


Fig. 4. *Typhonium buense* Nguyen Van Dzu & Croat. Pistillate portion of spadix topped with sterile staminate flowers (entire unit 9 mm long).

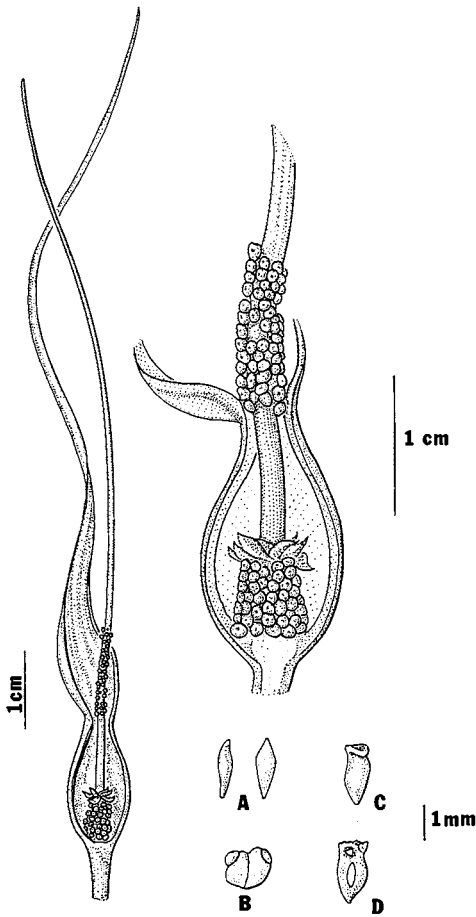


Fig. 5. *Typhonium buense* Nguyen Van Dzu & Croat. Inflorescence with enlargement of lower extremity and insets: A. Sterile male flowers B. Stamen C. Ovary D. Ovary cross-section.

apex and somewhat twisted; spadix sessile, more or less stiffly erect; pistillate portion conical, 7 mm long, 5 mm diam; pistillate flowers minute, 12–18 visible per spiral, pinkish, with a slender band of sterile staminate flowers contiguous with the pistillate spadix, this sterile staminate segment ca. 2 mm thick; the sterile staminate flowers flattened and acuminate at apex; the pistillate and sterile staminate portions separated from the fertile staminate portion by a smooth sterile stipe fitting rather tightly into the constriction of the spathe tube; staminate portion of spa-

dix pinkish, (7)8–12 mm long, 3 mm diam., appressed tightly into the top of flared upper edge of tube; staminate flowers minute, 7–8 visible per spiral; appendix flagellate, brownish to slightly violet, 11–19 cm long; stamens dehiscent by apical pores; ovary 1 mm long, 0.5 mm diam.; style slightly elevated, disciform; ovules 1 per locule.

Typhonium buense is apparently endemic to Vietnam, known only from the type locality near Hue in Central Vietnam near sea level. This species is characterized by deeply 3-lobed leaf blades, slender greenish spathes lightly tinged purplish violet on the blade, and the long-protruded appendix of the inflorescence exceeding the length of the spathe.

This species differs from *T. laoticum* Gagnep. by having deeply three-lobed leaf blades (versus lanceolate to elliptic or ovate-cordate leaf blades on *T. laoticum*). *Typhonium buense* differs from *T. acetosella* Gagnep. by having larger blades with the medial lobe 7–8 cm long and 2–3 cm wide (versus 4–7 cm long and 1–1.5(7) mm wide in *T. acetosella*) and the lateral lobes 5–6.5 cm long and 1.5–2.5 cm wide (versus 1–1.5 (5) mm wide for *T. acetosella*). In addition, *T. buense* differs from *T. acetocella* in a longer staminate portion of the spadix (7–12 mm long versus less than 5 mm long for *T. acetocella*) and shorter sterile flowers.

ACKNOWLEDGMENTS

The authors wish to thank Wilbert Hetschscheid for a critical review of this paper.

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