Goniothalamus elegans Ast (Annonaceae), a New Record for Thailand

Yuttaya Yuyen¹, Piya Chalermglin² and Vilaiwan Anusarnsunthorn¹

Abstract.—Goniothalamus elegans Ast, previously known from Annam, is reported from northeastern and eastern Thailand. The species is described and illustrated.

The first report of Goniothalamus in Thailand, listed 9 species (CRAIB, 1925). Recently, 21 species were reported (BYGRAVE, 1997). Goniothalamus elegans Ast, from eastern and north-eastern Thailand, is a new record for Thailand.

Goniothalamus elegans Ast, Bull. Soc. Bot. France 85 (1938) 52 and Fl. Gén. de l’Indochine Supplément (1938) 97 and Fig. 8, 1–6 (p. 96). Figure 1.

Evergreen treelet about 2 m high; bark glabrous, brown; branchlets straight, brown, densely rusty puberulous, becoming sparsely rusty puberulous to glabrous when older. Leaves simple, distichous; blades lanceolate, thin; apex acute, base acute; green above, pale green below; young blades densely rusty puberulous on both sides, especially ventrally, older blades sparsely rusty puberulous, especially on the ventral midrib and nerves; midrib grooved above, raised below; secondary nerves 14–15 pairs, fine, indistinct above, obscure below, curving and anastomosing near the margin, finer venation reticulate; 12–15 x 3–4 cm. Petioles dorsally grooved, sparsely rusty puberulous, 4–5 mm long. Flowers axillary, solitary; pedicels about 4 mm long, densely rusty puberulous, with 4 scale-like, green bracts at the base, 1–2 mm long. Sepals suborbicular, coriaceous, shortly acute at the apex; finely rusty puberulous outside, glabrous inside, greenish; 7 mm long, 6 mm broad. Petals 6, coriaceous, greenish-yellow; outer 3, elliptic, apex acute, medially keeled and brown sericeous outside, brown velutinous inside except at the base, 1.5 x 0.9 cm; inner 3 similar to the outer 3, but smaller, 12 x 6 mm, united. Stamens numerous, 2 mm long, connectives convex. Pistils several, vertically grooved; stigma claviform, canalicate, warty toward apex; style linear, 4 mm long; ovary cylindric, glabrous; ovule 1, basal. Monocarps 5–10, ellipsoid, glabrous, green becoming orange when ripe, 1.5 x 1 cm; stalks 5 mm long, Seed 1, ellipsoid, testa brown, endosperm ruminate.

Thailand.—Northeastern: Sakon Nakhon, Phu Pha, Yuyen 226 (27 April 2004, CMU); Eastern: Ubon Ratchatani, Phu Chong Na Yoi, Yuyen 224 (13 May 2004, CMU)

Distribution.—Central Vietnam (Annam)

Ecology.—Seasonal deciduous or mixed evergreen + deciduous forest, 300–500 m elevation

Phenology.—Flowering April–May, fruiting July

¹Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai, 50200 Thailand.
²Thailand Institute of Scientific and Technological Research (TISTR), Bangkok, 12120 Thailand.

Received 12 March 2006; accepted 15 May 2006.
Notes.—Ast’s description indicates that the mature leaf blades of *G. elegans* are glabrous and the stigma is funnelform (specimen collected by E. Poilane from Annam, central Vietnam), but in my specimens the mature leaf blades are rusty puberulous on the midrib and secondary nerves ventrally. The stigmas are claviform.

Acknowledgments.—The authors would like to thank J. F. Maxwell, curator of CMU for literature and thoroughly correcting the description. We would like to thank the curators and staff of CMU, BK, and BKF for their kind permission to study *Goniothalamus* specimens. This work was supported by The Royal Golden Jubilee Ph.D. Program.

REFERENCES

AST, S. 1938. Anonacées. *Fl. Gén. de l'Indo-Chine Supplément* 97. Fig. 8, 1 - 6 (p. 96).