

Noronhia boinensis

Objekttyp: **Chapter**

Zeitschrift: **Boissiera : mémoires de botanique systématique**

Band (Jahr): **70 (2016)**

PDF erstellt am: **20.06.2024**

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5. *Noronhia boinensis* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 303. 1949.

Lectotypus (designated here): **MADAGASCAR. Prov. Mahajanga:** Ankaladina, sur la Bet-siboka (Boiny), [16°22'S 46°32'E], XII.1901, *Perrier de la Bâthie* 1379 (P [P00418075]!); isolecto-: K [K000233199] image seen, P [P00418076, P00418077]!). **Syntypi:** Tsingy de Namoroka (Ambongo), [16°34'S 45°34'E], I.1905, *Perrier de la Bâthie* 1802 (K [K000233200] image seen, P [P00701250, P04046996]!); Baie de Mahajamba (Boina), VII.1907, *Perrier de la Bâthie* 4495 (P [P00701252]!); Tsingy de Namoroka (Ambongo), [16°34'S 45°34'E], XII.1926, *Perrier de la Bâthie* 17817 (P [P04046994]!).

Description Small trees to 7 m tall, trunk to 20 cm diameter; young twigs cylindrical, 0.7-1.3 mm diameter, glabrous; bark dark to medium gray, smooth to slightly rugose. *Leaves* opposite, persistent; bud scales persistent; blades dark green above, lighter below, widely elliptic, 5-8 × 2-3.5 cm, coriaceous, glabrous, domatia absent, base acute to attenuate, margin slightly revolute and undulate, apex slightly acuminate, the acumen 1-7 mm long, midrib flat to slightly sunken above, flat to raised below, secondary veins barely visible, 7-11 per side, 6-12 mm apart, looping 1-3 mm from the margin; petiole dark to medium gray, 4-8 × 1-1.6 mm, entirely woody, glabrous. *Flowers* solitary to geminate; pedicel 7-10 mm long, moderately pubescent; calyx moderately pubescent outside, glabrous inside, lobes deltate, 1-1.2 × 0.9-1 mm; corolla reddish outside, yellowish inside, urceolate, 4-5 mm long, glabrous on both sides, the tube 3-4 mm long, lobes deltate, apex acute; corona present, 1-1.5 mm long, undivided; stamens 1.5-1.8 mm long, anthers slightly obovate, 1.4 mm long; pistil 1.5-2.8 mm long, stigma capitate. *Fruiting pedicel* 7-20 × 0.6-0.9 mm; young fruits green, dark red when mature, subglobose, 11-15 × 9-11.5 mm, surface smooth, sometimes covered with a white pellicle, apex apiculate to flat with the persistent style; dry pericarp 0.6-1.1 mm thick; endocarp woody; seed 8-11 × 5-7 mm.

Distribution, ecology and phenology *Noronhia boinensis* occurs in low-elevation dry forests in the west, from Ankarafantsika to Antsalova (Fig. 3). It produces flowers and fruits throughout the year, with a peak between October and March.

Conservation status Based on 12 collections representing 12 localities, the assessment provided an EOO of 39,885 km², an AOO of 48 km², and 10 subpopulations representing nine locations, of which two occur within the network of protected areas (Beanka and Tsimembo). Although the AOO is very likely larger than 48 km², it is nonetheless probably less than 2,000 km². Moreover, most of the suitable habitats will experience continuing decline

in area as well as in quality due to deforestation, wildfire, and wood harvesting, all of which can result in the reduction of the number of mature individuals. *Noronhia boinensis* is therefore assigned a preliminary status of “Vulnerable” [VU B]ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)].

Notes *Noronhia boinensis* can be recognized by its coriaceous, elliptic leaf blades and its solitary to geminate red-yellow flowers. It differs from *N. tubulosa* H. Perrier by its barely visible (vs. conspicuous) venation, urceolate (vs. tubular) flowers, and red-yellow (vs. yellow) corolla. It was described based on the following syntypes: *Perrier de la Bâthie* 1379, 1802, 4495 and 17817. A specimen of *Perrier de la Bâthie* 1379 is chosen as the lectotype because of the completeness and overall quality of the material and the number of duplicates available.

Additional specimens examined MADAGASCAR. **Prov. Mahajanga:** Beanka, Anadabomanambaditsingilo, 18°02'15"S 44°28'36"E, 224 m, 10.III.2012, *Hanitrarivo et al.* 309 (G, MO); Bongolava (Boina), [15°40'S 47°16'E], X.1907, *Perrier de la Bâthie* 8830 (P); Antsalova, between Ambereny and Lac Masama, 18°51'S 44°27'E, 50 m, 26.VIII.1987, *Phillipson* 2277 (K, MO, P, TAN); Ambondromamy, forêt de Befotaka, 16°22'39"S 47°10'28"E, 17.IV.2007, *Razakamalala et al.* 3364 (MO, P, TAN); Maintirano, Ambinda, 18°04'S 44°30'E, 203 m, 19.X.2009, *Razakamalala et al.* 4423 (MO, P, TAN); Berivotra, [15°54'00"S 46°34'30"E], 100 m, 22.XI.1957, *Service Forestier* 18460 (P, TEF); Antsalova, Masoarivo, forêt de Tsimembo, [18°52'S 44°25'E], 50-100 m, 17.III.1961, *Service Forestier* 19865 (TEF); *ibid. loc.*, Tsimembo-Ambereny, [18°53'S 44°23'E], 0-50 m, 22.VIII.1962, *Service Forestier* 21054 (TEF); Beanka, Ambinda-Nord, 17°56'41"S 44°28'29"E, 246 m, 11.XI.2011, *Tahinarivony & Bolliger* 582 (G, MO).