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6. *Noronhia boivinii* Dubard in Bull. Mus. Hist. Nat. 13: 550. 1907.

Typus: MADAGASCAR: [Cultivé au] Jardin botanique de Bourbon, s.d., Boivin s.n. (holo-: P [P00413215]!; iso-: P [P00413216]!).

Description Shrubs to trees to 11 m tall, trunk to 8 cm diameter; young twigs cylindrical, 0.7-1.7 mm diameter, glabrous; bark medium to light gray or whitish, smooth. Leaves opposite, persistent; bud scales persistent; blades dark green above, lighter below, oblong to elliptic, 4.5-13 × 1.6-4 cm, coriaceous, glabrous, domatia absent, base acute to attenuate, margin flat to slightly revolute, apex cuspidate to mucronate, the cusp or mucro (0-)2-17 mm long, midrib sunken above, raised below, secondary veins conspicuous, 6-12 per side, 6-16 mm apart, looping 1.2-4 mm from the margin; petiole grayish to whitish, 3-10 × 1-2.8 mm, entirely woody, glabrous. Flowers fasciculate; pedicel 2-22 mm long, glabrescent to glabrous; calyx sparsely pubescent outside, glabrous inside, lobes broadly triangular, 0.9-2 × 1-2.5 mm; corolla pink to reddish, sometimes whitish, urceolate to slightly campanulate, 3.5-9 mm long, glabrous on both sides, the tube 1.5-7 mm long, lobes deltate, apex obtuse; corona present, 1-2 mm long, undivided; stamens 1.3-2.5 mm long, anthers elliptic, apex rounded, 1-1.7 mm long; pistil 1.5-2.7 mm long, stigma capitate. Fruiting pedicel 2-12 × 0.8-2 mm; young fruits green, dark brown when mature, ovoid, 11.5-34 × 8-23.5 mm, surface smooth, apex flat to apiculate; dry pericarp 0.7-1.1 mm thick; endocarp woody; seed 11.5-14 × 4-7 mm.

Distribution, ecology and phenology *Noronhia boivinii* occurs in littoral to mid-elevation humid forests in the east, from Masoala to south of Fort-Dauphin (Taolagnaro) and towards Andohahela (Fig. 3). It produces flowers and fruits throughout the year except in June and July.

Conservation status The assessment was based on 23 collections representing 21 localities and resulted in an EOO of 54,801 km², an AOO of 84 km², and 16 subpopulations representing 12 locations, of which eight occur within protected areas (Andohahela, Betampona, Mandena, Manombo, Masoala, Nosy Mangabe, Petriky, and Ste Luce). The AOO is likely larger than estimated here; however, *N. boivinii* is mainly found on the littoral forests of eastern Madagascar, which now consist only of isolated patches that are affected by ongoing habitat degradation and destruction, resulting mainly from slash-and-burn agriculture and mining. *Noronhia boivinii* is assigned a preliminary status of “Near Threatened” [NT].

Notes *Noronhia boivinii* can be recognized by its oblong to elliptic leaf blades terminated by a short cusp or mucro and its fasciculate, pink to red flowers. It differs from *N. ovalifolia* H. Perrier by its oblong to elliptic (vs. ovate), cuspidate to mucronate (vs. acuminate) leaf blades, and fasciculate (vs. solitary) and urceolate (vs. cupuliform) flowers.

Additional specimens examined

MADAGASCAR. **Prov. Fianarantsoa:** Manombo RS, 23°00'S 47°42'E, 5.III.2009, Hong-Wa 614 (MO, P, TAN). **Prov. Toamasina:** Nosy Mangabe, 15°29'49"S 49°45'20"E, 0-320 m, 8.XII.1998, Abdul-Salim *et al.* 44 (MO); Maroantsetra, Anjahana, Ambanizana, 15°37'16"S 49°58'56"E, 200 m, 15.IX.2002, Antilahimena *et al.* 1392 (G, MO, P); Masoala PN, 15°38'S 49°58'E, 0-520 m, 8.XI.1999, Aridy *et al.* 316 (G, MO); Fénérive-Est, Tampolo STF, 17°17'10"S 49°25'16"E, 5 m, 15.IV.1995, Gereau 5720 (MO, TAN); Mahatsara STF, 17°38'18"S 49°29'07"E, 5-10 m, 24.IX.2002, Hong-Wa *et al.* 83 (MO, P, TAN, TEF); Ambila-Lemaitso, 18°54'S 49°07'E, 10 m, 17.I.1999, Lowry 5129 (MO, P); Forêt d'Analamazaotra, [18°55'48"S 48°25'48"E], 800 m, Perrier de la Bâthie 5133 (P); Brickaville, Ambinaninony, forêt de Vohibola, 18°35'33"S 49°14'05"E, 4 m, 13.II.2003, Rabenantoandro *et al.* 1267 (G, MO, P); Ambodiriana, [17°56'S 49°15'E], 250-500 m, 23.VIII.1957, Service Forestier 18123 (MO, P, TEF); Masoala PN, 15°38'12"S 49°58'20"E, 19.XI.1993, van Nek 2121 (MO, TAN, WAG). **Prov. Toliara:** Forêt de Mandena, 24°57'S 47°00'E, 10 m, 17.III.1985, Dorr 4012 (G, MO, P, TAN); *ibid. loc.*, 24°57'S 47°00'E, 0-10 m, 19.IV.1989, Gereau *et al.* 3394 (MO, P, TAN); Manantenina, on road to Manafiafy, 24°46'S 47°08'E, 0-10 m, 24.IV.1989, Gereau *et al.* 3421 (MO, P, TAN); Fort-Dauphin, Petriky, 25°04'S 46°51'E, 0-10 m, 10.IV.1989, Rabevohitra *et al.* 1819 (MO, P, TAN, TEF); Andohahela PN, Eminiminy, 24°40'30"S 46°48'30"E, 17.IX-30.X.1991, Randriamanantena & Durbin 137 (K, MO); Manambaro, Ambovo, forêt de Petriky, 25°03'57"S 46°51'18"E, 10 m, 11.II.2004, Randriatafika *et al.* 379 (MO, P, TEF); Iaboko, Antsotso, forêt d'Ivohibe, 24°33'52"S 47°14'25"E, 112 m, 26.XI.2005, Razakamalala *et al.* 2378 (G, MO, P, TAN).