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19. *Noronhia crassiramosa* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 296. 1949 (Fig. 12B).

Typus: MADAGASCAR. **Prov. Toamasina:** Est Centre, forêt d'Analamazaotra, [18°56'S 48°26'E], s.d., *Perrier de la Bâthie 5085* (holo-: P [P00418098]!; iso-: P [P00418099]!).

Description *Trees* to 25 m tall, trunk to 25 cm diameter; young twigs cylindrical to subquadran-gular, 4-8 mm diameter, glabrous; bark medium gray, smooth to slightly rugose. *Leaves* opposite, verticillate at the tips of the branches, persistent; bud scales per-sistent; blades dark green above, lighter below, oblong, 13-38 × 3.5-12 cm, very coriaceous, glabrous, domatia absent, base acute to rounded, margin flat, apex acuminate, the acumen 1-14 mm long, midrib slightly sunken above, distinctly raised below, secondary veins very conspicuous below, 8-14 per side, 14-51 mm apart, looping 3-13 mm from the margin; petiole medium gray to brownish, 9-22 × 3-5.5 mm, entirely woody, glabrous. *Thyrse*s fasciculate, pauciflorous, diffuse; peduncle 8-25 mm long, glabrous; pedicel 6-10 mm long, glabrous; calyx glabrous on both sides, lobes deltate, 3-4 × 2-2.5 mm; corolla purplish red, cupuliform to subrotate, 5-6 mm long, glabrous on both sides, the tube 2-3 mm long, lobes widely ovate, apex acute; corona present, 2-3 mm long, undivided; stamens 3 mm long, anthers oblong, 2 mm long; pistil 2.5-3 mm long, stigma slightly bilobed. *Fruiting* pedicel 5-14 × 3-4 mm; young fruits green, reddish when mature, sub-globose, 21-30 × 16.5-21.5 mm, surface smooth, apex flat to apiculate; dry peri-carp 2-2.5 mm thick; endocarp woody; seed 14-22.5 × 9.5-14 mm.

Distribution, ecology and phenology *Noronhia crassiramosa* occurs in mid- to high-elevation humid forests in the central east, from Analamazaotra to Ranomafana (Fig. 9). It produces flowers and fruits from October to March.

Conservation status There were 11 collections representing nine localities available for analysis, which resulted in an EOO of 5,024 km², an AOO of 32 km², and six subpopulations rep-resenting five locations, four of which occur within protected areas (Analamazaotra, Corridor Ankeniheny-Zahamena, Mantadia, and Ranomafana). Subpopulations outside of protected areas are very likely to experience continuing decline in hab-itat quality as well as habitat loss resulting from wood harvesting, forest exploita-tion, slash-and-burn cultivation and industrial mining, thereby reducing also the number of mature individuals. Therefore, *N. crassiramosa* is assigned a preliminary status of "Vulnerable" [VU B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)].

Notes *Noronhia crassiramosa* can be recognized by its thick twigs, large, coriaceous leaf blades with very conspicuous venation, and its fruits with thick pericarp. It differs from *N. patricei* Hong-Wa by its opposite to verticillate at the tips of the branches (vs. entirely verticillate), oblong (vs. lanceolate) leaves, and apiculate (vs. flat) fruit apex. This species seems to reproduce only at a later age and appears to be rare.

Additional specimens examined MADAGASCAR. **Prov. Fianarantsoa:** Ranomafana PN, Vatoharanana, Parcelle 3, 21°16'06"S 47°25'30"E, 923 m, 8.V.2010, *Hong-Wa & Ortiz 669* (MO, P, TAN); *ibid. loc.*, 21°15'S 47°27'E, 900 m, 8-14.XI.1991, *Malcomber et al. 1007* (G, MO, P, TAN). **Prov. Toamasina:** Moramanga, Ambatovy, 18°48'42"S 48°20'40"E, 1141 m, 27.VII.2008, *Antilahimena et al. 6403* (MO, P, TAN); *ibid. loc.*, 18°50'25"S 48°18'16"E, 1090 m, 15.V.2010, *Bernard et al. 1569* (MO, P, TAN); Analamazaotra RS, 18°56'12"S 48°25'09"E, 953 m, 2.V.2010, *Hong-Wa & Ortiz 640* (MO, P, TAN); Andasibe, Analamay, 18°47'54"S 48°20'3"E, 1030 m, 1.XII.2010, *Miandrimanana 473* (MO, P, TAN); Ambatovy, Amboasary, 18°57'13"S 48°26'43"E, 1008 m, *Rasoazanany et al. 326* (MO, P, TAN); Brickaville, Ankerana, 18°25'52"S 48°47'23"E, 842 m, 26.III.2011, *Ravelonarivo 3892* (G, MO, P, TAN); Saharefina, Périnet, [18°56'S 48°26'E], 19.II.1955, *Service Forestier 15015* (P, TEF).