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31. *Noronhia grandifolia* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2 : 299. 1949 (Fig. 22C).

Typus: MADAGASCAR. **Prov. Toamasina:** Est, Masoala, [15°17'S 50°11'E], 300 m, X.1912, *Perrier de la Bâthie 2167* (holo-: P [P00418111]!).

Description *Shrubs* to trees to 10 m tall, trunk to 20 cm diameter; young twigs cylindrical, 1-5 mm diameter, glabrous; bark light brown, smooth to slightly rugose. *Leaves* opposite, persistent; bud scales rarely persistent; blades dark green above, lighter below, oblong, 7-23 × 3-8 cm, chartaceous, glabrous, domatia absent, base acute to rounded, margin slightly undulate, apex acuminate, the acumen 2-19 mm long, midrib slightly sunken above, distinctly raised below, secondary veins conspicuous, 7-16 per side, 11-40 mm apart, looping 3-8 mm from the margin; petiole medium gray, 8-20 × 1.5-3.5 mm, entirely woody, glabrous. *Thyrse*s fasciculate, pauciflorous, diffuse; peduncle 5-23 mm long, densely pubescent; pedicel 7-12 mm long, densely pubescent; calyx densely pubescent on both sides, lobes triangular, 1.5-2 × 1.5-1.8 mm; corolla purplish, sometimes tinged yellow, subrotate, 4.5-6 mm long, sparsely pubescent outside, glabrous inside, the tube 2-3 mm long, lobes ovate, apex obtuse; corona absent; stamens 2-2.8 mm long, anthers obovate, 1.2-1.5 mm long; pistil 2.5-3 mm long, stigma capitate. *Fruiting pedicel* 8-28 × 1-3 mm; young fruits green, purple when mature, subglobose, 13.5-23.5 × 13-24.5 mm, surface smooth, apex apiculate; dry pericarp 0.4-2.2 mm thick; endocarp crustaceous; seed 10.5-20 × 7.5-14 mm.

Distribution, ecology and phenology *Noronhia grandifolia* occurs in low- to high-elevation humid forests from Daraina in the north to Andohahela in the south (Fig. 19). It produces flowers and fruits throughout the year, with a peak between October and February.

Conservation status With 23 collections representing 21 localities, the assessment indicated an EOO of 104,491 km², an AOO of 84 km², and 21 subpopulations representing 17 locations, of which 10 occur within protected areas (Andohahela, Anjanaharibe-Sud, Corridor Ambositra-Vondrozo, Loky-Manambato, Makira, Mantadia, Marojejy, Masoala, Ranomafana, and Tsaratanana-Ambohimirahavy-Corridor Marojejy). Being so widespread and well represented within the network of protected areas, *N. grandifolia* is assigned a preliminary status of “Least Concern”.

Notes *Noronhia grandifolia* can be recognized by its large, chartaceous leaf blades, pubescent inflorescences, purplish-yellow flowers that lack a corona, and subglobose, crustaceous fruits subtended by long pedicels.

**Additional specimens
examined**

MADAGASCAR. Prov. Antsiranana: Anjanaharibe-Sud RS, 10 km SW of Befingotra, 14°45'S 49°29'E, 1100-1300 m, 7.IX.1997, *Birkinshaw et al.* 468 (MO, P, TAN); Daraina, forêt d'Antsahabe, 13°13'08"S 49°33'04"E, 890 m, 2.XII.2004, *Gautier* 4803 (Daraina, G, MO, P, TEF); Andapa, Marojejy PN, 14°28'57"S 49°38'12"E, 1100-1600 m, 19-24.I.1994, *Malcomber et al.* 2701 (MO, P, TAN); Andapa, Ambodisatrana, 14°32'S 49°26'E, 1100-1200 m, 3.VIII.1997, *McPherson* 17197 (K, MO); Anjanaharibe-Sud RS, 14°44'42"S 49°27'42"E, 1185-1335 m, 3.XI.1994, *Ravelonarivo & Rabesonina* 494 (MO, TAN); *ibid. loc.*, 14°12'S 49°27'E, 1100 m, 13-18.IX.1996, *Ravelonarivo et al.* 1034 (MO, P, TAN); Sambava, Andratamarina, Bemanasy, 14°23'54"S 49°50'55"E, 892 m, 23.X.2010, *Ravelonarivo & Raharivelo* 3568 (MO, P, TAN); Ambatoharanana, [14°18'S 49°33'E], 460 m, 9.VII.1963, *Service Forestier* 21629 (MO, TEF). **Prov. Fianarantsoa:** Ranomafana PN, Parcelle 3, 21°16'06"S 47°25'30"E, 923 m, 8.V.2010, *Hong-Wa & Ortiz* 670 (MO, P, TAN); entre Ivohibe RS et Andringitra PN, 22°25'36"S 46°56'18"E, 955 m, 14.XI.1997, *Messmer et al.* 573 (G, MO, P). **Prov. Mahajanga:** Befandriana-Nord, Matsoandakana, Andranomena, forêt d'Anjiabe, 15°08'14"S 49°21'27"E, 1084 m, 12.II.2008, *Ravelonarivo et al.* 2798 (G, MO, P, TAN). **Prov. Toamasina:** Maroantsetra, Anjahana, Ambodivoangy, 15°25'30"S 49°50'50"E, 100 m, 20.VII.2002, *Antilahimena* 1226 (MO, P); Vinanibe, Andongona, Makira, 15°27'40"S 49°17'46"E, 1153 m, 28.XI.2003, *Antilahimena* 2420 (G, MO); Analamazaotra RS, 18°49'32"S 48°26'04"E, 941 m, 3.V.2010, *Hong-Wa & Ortiz* 662 (MO, TAN); Masoala Peninsula, 1-3 km S of Ambanizana, 15°38'S 49°58'E, 0-10 m, 7.XII.1990, *Schatz & Modeste* 3020 (G, MO, P, TAN). **Prov. Toliara:** Andohahela, path over Col Antanantana to Iminiminy, 24°44'S 46°47'E, 800 m, 7.XII.1989, *Du Puy et al.* MB525 (TAN); Andohahela (parcel 1), Marovoalavo (Ebaketra), 24°38'11"S 46°50'42"E, 16.V.1996, *Randriamampionona* 1125 (G, MO).