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11. *Noronhia capuronii* Bosser in *Adansonia* ser. 2, 13: 464. 1973 (Fig. 2D).

Typus: MADAGASCAR. **Prov. Antsiranana:** rive droite de la rivière des Makis, en aval de la traversée de cette rivière par la piste Joffreville-Andranofanjava, [12°30'S 49°05'E], 21.XI.1958, *Service Forestier* 20072 (holo-: P [P00413211]!; iso-: K [K000233198] image seen, P [P00413218, P00413219]!).

Description

Shrubs to 3 m tall, trunk to 2.5 cm in diam.; young twigs cylindrical, 0.7-1.3 mm diameter, glabrous; bark medium gray, smooth to slightly rugose. *Leaves* opposite, persistent; bud scales, rarely persistent; blades medium green above, lighter below, ovate, 5-15 × 1-4 cm, chartaceous, glabrous, domatia absent, base cordate, margin flat to slightly undulate, apex acuminate, the acumen 7-25 mm long, midrib flat to slightly sunken above, flat to raised below, secondary veins conspicuous, 7-12 per side, 7-14 mm apart, looping 1.5-5 mm from the margin; petiole light gray, 3-8 × 0.8-1.9 mm, entirely woody, pubescent. *Thyrse*s geminate to fasciculate, pauciflorous, diffuse; peduncle 3-8 mm long, moderately pubescent; pedicel 8-12 mm long, moderately pubescent; calyx moderately pubescent outside, glabrous inside, lobes ovate, 1.3 × 1.5 mm; corolla greenish tinged orange to reddish outside, yellowish inside, cupuliform, 6 mm long, glabrous on both sides, the tube 4 mm long, lobes ovate, apex obtuse; corona absent; stamens 3.5 mm long, anthers obovate, 2.5 mm long; pistil 2.5 mm long, stigma capitate to slightly bilobed. *Fruiting* pedicel 8-13 × 1-2 mm; young fruits yellowish, beige to purple when mature, globose, 15-23 × 15-23 mm, surface smooth, apex flat, style persistent; dry pericarp 0.2-2.6 mm thick; endocarp crustaceous; seed 12 × 13-15 mm.

Distribution, ecology and phenology

Noronhia capuronii occurs in low- to mid-elevation dry forests in the north, from Montagne des Français to Ankarana and Daraina (Fig. 3). It produces flowers and fruits from October to June.

Conservation status

With 14 collections representing 14 localities, the assessment resulted in an EOO of 4,885 km², an AOO of 52 km², and 12 subpopulations representing seven locations, of which five occur within protected areas (Ankarana, Loky-Manambato, Montagne d'Ambré, and Montagne des Français). *Noronhia capuronii* is assigned a preliminary status of "Vulnerable" [VU B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)], due to continuing decline in AOO, number of both locations and mature individuals, and in habitat quality resulting from deforestation, charcoal production, and illegal and/or artisanal mining.

Notes

Noronhia capuronii can be recognized by its chartaceous, cordate leaf blades, pubescent petiole and midvein, thyrseoid inflorescences with green-orangish flowers and subglobose fruits. It differs from *N. jeremii* Hong-Wa & Callm. and *N. richardii* Hong-Wa by

its ovate (vs. linear to oblong in *N. jeremii* and lanceolate to oblong in *N. richardii*) leaf blades, pubescent (vs. glabrous) inflorescences and greenish tinged orange (vs. yellowish and red, respectively) flowers.

**Additional specimens
examined**

MADAGASCAR. Prov. Antsiranana: Mosorolava, Mahagaga, 12°45'43"S 49°01'48"E, 124 m, 22.IX.2007, *Andriamihajarivo et al.* 1375 (G, MO, P, TAN); Matsaborimanga, Ankarana RS, 12°55'S 49°03'E, 140 m, 11.I.2003, *Bardot-Vaucoulon 1149* (K, MO, P, TAN); *ibid. loc.*, from Campement des Anglais towards Campement des Américains, 12°50'47"S 49°06'18"E, 82 m, 13.I.2002, *De Block 1203* (BR, MO, NY, P, TAN, UPS, WAG); Daraina, forêt de Bobankora, 13°13'26"S 49°45'30"E, 120 m, 4.III.2003, *Gautier et al.* 4213 (Daraina, G, K, MO, P, TEF); Station des Roussettes à Ankazobe, [12°26'S 49°13'E], X. 1944, *Homolle 140* (P); Sakaramy, Montagne d'Ambre PN, 12°26'25"S 49°13'49"E, 319 m, 2.VI.2010, *Hong-Wa 706* (MO, P, TAN); Daraina, 13°12'S 49°46'E, 200 m, 18.XII.1989, *McPherson 14693* (K, MO, P, TAN); Montagne d'Ambre PN, 12°29'11"S 49°10'15"E, 690 m, 20.XII.2011, *Ramandimbimanana 194* (G, MO, TAN); Daraina, forêt de Bobankora, 13°12'28"S 49°46'23"E, 65 m, 16.XII.2007, *Randrianaivo et al.* 1532 (CNARP, G, MO, P, TAN); *ibid. loc.*, Ankarafa, Antsahabe Nord, 13°13'02"S 49°33'51"E, 550 m, 6.XI.2006, *S. Randrianasolo et al.* 572 (CNARP, G, MO, P, TAN); *ibid. loc.*, Ankijabe, forêt d'Ambohitsitondroina, 13°08'17"S 49°28'18"E, 200 m, 20.I.2006, *Ranirison & Nusbaumer 1101* (Daraina, G, K, MO, TEF); Montagne des Français, [12°22'S 49°21'E], 24.IX.1980, *Service Forestier 29959* (TEF); Montagne d'Ambre PN, 12°29'14"S 49°10'20"E, 650 m, 4.VI.2008, *Trigui et al.* 536 (G, MO, TEF); *ibid. loc.*, 12°29'03"S 49°10'03"E, 660 m, 13.X.1993, *van Nek 1874* (MO, P, TAN, WAG).



Fig. 7. Photographs of *Noronhia* Stadtm. ex Thouars. **A.** *Noronhia christenseniana* Hong-Wa [Ratovoson 1280]; **B.** *Noronhia clarinerva* Hong-Wa [Nusbaumer 821]; **C.** *Noronhia cochleata* Labat, M. Pignal & O. Pascal [Labat 3258]; **D.** *Noronhia comorensis* S. Moore [Barthelat 537]; **E.** *Noronhia cordifolia* (Labat, M. Pignal & O. Pascal) Hong-Wa & Besnard [Barthelat 788].

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