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3. *Noronhia ankaranensis* (H. Perrier) Hong-Wa, **comb. & stat. nov.** (Fig. 2C).

- ≡ *Noronhia luteola* var. *ankaranensis* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 298. 1949.
 ≡ *Noronhia luteola* subsp. *ankaranensis* (H. Perrier) H. Perrier, Fl. Madagascar Comores 166: 51. 1952.

Typus: MADAGASCAR. **Prov. Antsiranana:** Ankarana, [12°54'00"S 49°07'48"E], 10-250 m, XII.1937, *Humbert 18794* (holo-: P [P00573402]!; iso-: P [P00573403; P00573404]!; S [S09-36007] image seen, WAG [WAG0002492] image seen).

Description

Shrubs to trees to 8 m tall, trunk to 12 cm diameter; young twigs cylindrical, 0.6-2.1 mm diameter, glabrous; bark medium gray, smooth to rugose. *Leaves* opposite, semi-deciduous; bud scales persistent; blades dark green above, lighter below, obovate, 3.5-8.5 × 1-3.5 cm, coriaceous, glabrous, domatia abundant, base attenuate, margin flat to slightly revolute and undulate, apex rounded to obcordate, midrib flat above to slightly sunken above, flat to slightly raised below, secondary veins barely visible, 5-10 per side, 3-16 mm apart, looping 0.8-4 mm from the margin; petiole yellowish, 3-8 × 0.5-2.7 mm, not woody, glabrous. *Thyrse*s solitary, pauciflorous, compact; peduncle 1.5-5 mm long, sparsely pubescent; pedicel 3-8 mm long, sparsely pubescent; calyx glabrous on both sides, lobes triangular, 0.7-1 × 0.7-1.1 mm; corolla white, cupuliform, 3-5.5 mm long, glabrous on both sides, the tube 1-3 mm long, lobes lanceolate, apex acute; corona present, 1-1.4 mm long, undivided; stamens 1.2-1.9 mm long, anthers obtriangular, 0.8-1.3 mm long; pistil 1.2-2 mm long, stigma capitate. *Fruiting* pedicel 3-12 × 0.7-1.8 mm; young fruits green, dark brown when mature, ovoid to subglobose, 10-24 × 7-16.7 mm, smooth, sometimes covered with white dots, apex bluntly pointed to apiculate; dry pericarp 0.5-1.6 mm thick; endocarp woody; seed 7-16 × 5-10 mm.

Distribution, ecology and phenology

Noronhia ankaranensis occurs in low-elevation dry forests in the north, from Montagne des Français to Ankarana and Daraina (Fig. 3). It produces flowers and fruits throughout the year, with a peak between October and February.

Conservation status

With 37 collections representing 33 localities, the analysis resulted in an EOO of 12,445 km², an AOO of 112 km², and 23 subpopulations representing 19 locations, of which six occur within the network of protected areas (Ankarana, Ambodivahibe, Loky-Manambato, Montagne des Français, Nosy Mitsio, and Oronjia). *Noronhia ankaranensis* is thus assigned a preliminary status of "Near Threatened" due to ongoing habitat loss and degradation in non-protected areas.

Notes *Noronhia ankaranensis* can be recognized by its non-woody petiole, obovate leaf blades bearing domatia, pauciflorous, compact thyrses, and white corolla. This species differs from *N. luteola* H. Perrier by the shape of its leaves (obovate vs. oblong to obovate) and corolla (cupuliform vs. subrotate) and by the organization of its thyrses (solitary vs. geminate). Although previously considered as a subspecies of the latter, these entities are not sister and do not even belong to the same clade (HONG-WA & BESNARD, 2013, 2014).

Additional specimens examined

MADAGASCAR. Prov. Antsiranana: Ankarana RS, [12°54'00"S 49°07'48"E], 50-409 m, 12-20.X.1993, *Andrianantoanina* 381 (K, MO); *ibid. loc.*, [12°54'00"S 49°07'48"E], 6.X.1990, *Bardot-Vaucoulon* 124 (P); Baie des Sakalava, 12°16'24"S 49°23'30"E, 0 m, 15.VIII.2004, *Be et al.* 77 (CNARP, G, MO, P, TAN); Ambolobozokely, Nosy Laliara, 12°25'55"S 49°33'05"E, 9 m, 17.VI.2005, *Be et al.* 142 (CNARP, MO, P, TAN); Daraina, forêt d'Antsahabe, 13°13'S 49°33'E, 580 m, 15.X.2004, *Callmander et al.* 225 (Daraina, G, K, MO, P, TEF); *ibid. loc.*, 13°12'51"S 49°33'01"E, 740 m, 3.XII.2004, *Gautier* 4811 (Daraina, G, K, MO, TEF); Sahafary, 12°34'36"S 49°27'41"E, 180 m, 24.VII.2004, *Guittou et al.* 40 (CNARP, G, MO, P, TAN); Sakaramy, Montagne des Français, [12°19'S 49°21'E], 8.XI.1944, *Homolle* 263 (P); Andavakoera, Montagne des Français, 12°19'57"S 49°21'19"E, 172 m, 4.VIII.2007, *Hong-Wa et al.* 545 (TAN); *ibid. loc.*, 12°19'18"S 49°20'16"E, 270 m, 29.XII.2008, *Hong-Wa* 551 (MO, P, TAN); Ankarana, [12°54'00"S 49°07'48"E], 30-350 m, 24.I-29.II.1960, *Humbert* 32554 (P); Ankarana RS near Campement des Anglais, 12°54'42"S 49°06'42"E, 240-260 m, 16.V.1993, *Jongkind & Rapanarivo* 941 (MO, P, TAN); Matsaborimanga, Ankarana RS, 12°55'26"S 49°05'10"E, 300 m, 20.XI.1996, *Labat* 2778 (K, MO, P, TAN, WAG); Daraina, forêt d'Ankaramy, 13°17'07"S 49°40'41"E, 245 m, 22.II.2004, *Nusbaumer & Ranirison* 1202 (Daraina, G, K, MO, P, TAN); *ibid. loc.*, 13°17'46"S 49°40'39"E, 640 m, 20.XII.2005, *Nusbaumer & Ranirison* 1819 (Daraina, G, K, MO, P, TEF); Daraina, Befarafara, forêt de Solanampilana, 13°05'26"S 49°34'32"E, 100 m, 15.XI.2005, *Rakotonandrasana et al.* 992 (CNARP, G, MO, P, TAN); Ampitiliantsambo, Montagne des Français, 12°23'13"S 49°22'53"E, 239 m, 11.IX.2004, *Randriambololomamonjy et al.* 14 (G, MO, P, TAN); Daraina, forêt d'Antsahabe, 13°10'50"S 49°33'17"E, 415 m, 30.IV.2004, *Ranirison* 750 (Daraina, G, K, MO, P, TEF); Andranovondronina, Anjiabe, forêt de Belamoty, 12°06'09"S 49°19'34"E, 85 m, 10.XI.2006, *Ratovoson et al.* 1152 (CNARP, MO, P, TAN); Vohémar, Manakana, 13°43'08"S 50°05'50"E, 13.III.2004, *Razakamalala* 1076 (G, MO, P, TEF); Anjiabe, Analabe, près du lac Sahaka, 13°04'43"S 49°54'04"E, 13.V.2004, *Razakamalala et al.* 1256 (MO, P, TEF); Vohémar, [13°26'S 50°00'E], 11.XII.1966, *Service Forestier* 27299 (G, MO, P); Massif de l'Ankarana (partie S du massif Mafokovo), 50-450 m, 17.XII.1966, *Service Forestier* 27360 (MO, P, TEF).



Fig. 5. *Noronhia armandiana* Hong-Wa.

A. Flowering branch; **B.** Flower; **C.** Inner side of corolla; **D.** Lateral view of corona; **E.** Pistil; **F.** Stamen.

[A-F: Ludovic 759, TAN] Drawings: R.L. Andriamiarisoa