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**18. *Noronhia crassinodis*** H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2 : 301. 1949 (Fig. 12A).

**Typus:** MADAGASCAR. Prov. Antsiranana: Ouest-Nord, près de Diégo-Suarez, Sakaramy, [12°26'S 49°16'E], 400-500 m, IX.1926, Perrier de la Bâthie 17673 (holo- : P [P00418100]!).

**Description** Shrubs to small trees to 7 m tall, trunk to 8 cm diameter; young twigs cylindrical, 0.7-1.8 mm diameter, glabrous; bark medium gray, smooth to rugose, with scattered lenticels. Leaves opposite, persistent; bud scales persistent; blades yellowish green, obovate, 3.5-6.5 × 1.5-4.5 cm, very coriaceous, glabrous, domatia absent, base acute to attenuate, margin flat to undulate, apex mucronulate, the mucro 2-9 mm long, midrib sunken above, flat to raised below, secondary veins conspicuous mostly below, 7-12 per side, 4-9 mm apart, looping 1-4 mm from the margin; petiole medium gray, 3.5-7 × 1-2.5 mm, entirely woody, glabrous. Flowers fasciculate; pedicel 8-20 mm long, glabrescent; calyx moderately pubescent outside, glabrous inside, lobes triangular, 2-2.5 × 1.5-2 mm; corolla red purplish, urceolate, 5.5-7 mm long, glabrous on both sides, the tube 5 mm long, lobes oblong, apex obtuse; corona present, 1.3-1.8 mm long, undivided; stamens 2-2.2 mm long, anthers oblong, 1.5-1.9 mm long; pistil 1.5-2.5 mm long, stigma capitate. Fruiting pedicel 3.5-13 × 1-2.5 mm; young fruits greenish, reddish-yellowish when mature, ovoid, 10.5-14 × 5-12.5 mm, covered with white dots, apex flat to bluntly pointed, style persistent; dry pericarp 0.6-0.8 mm thick; endocarp woody; seed 6-7.5 × 4.3-4.7 mm.

**Distribution, ecology and phenology** *Noronhia crassinodis* occurs in low- to mid-elevation dry forests in the north, from Montagne des Français to Ankarana and Daraina (Fig. 9). It produces flowers and fruits throughout the year.

**Conservation status** The assessment was based on 16 collections representing 16 localities and yielded an EOO of 3,849 km<sup>2</sup>, an AOO of 52 km<sup>2</sup>, and 12 subpopulations representing 10 locations, of which six occur within protected areas (Andavakoera-Andrafiamena-Ambohipiraka, Ankarana, Loky-Manambato, Montagne d'Ambre, and Montagne des Français). Decline in habitat quality as well as loss of habitat and mature individuals resulting from land conversion, charcoal production and illegal and/or artisanal mining are expected outside of protected areas. Therefore, *N. crassinodis* is assigned a preliminary status of “Vulnerable” [VU Blab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)].

**Notes** *Noronhia crassinodis* can be recognized by its thick nodes often with rigid bud scales, very coriaceous, obovate leaf blades terminated by a short mucro, fasciculate, red-purplish flowers, and punctate fruits. It differs from *N. candicans* and *N. clarinervia* by the

features already discussed under these species, and differs from *N. intermedia* by its obovate (vs. obovate to obtrullate), mucronulate (vs. acuminate) leaves, red-purplish (vs. pale green) flowers, and punctate (vs. smooth to rugose) fruits.

**Additional specimens examined**

**MADAGASCAR. Prov. Antsiranana:** Marotaolana, Ankarana RS, forêt du Mahoro Analamisakana, 12°49'32"S 49°15'08"E, 6.XI.1997, Bardot-Vaucoulon & Andrianantoanina 929 (K, MO, P, TAN); Tanambao-Marivorahona, 13°02'34"S 49°09'14"E, 45 m, 2.VII.2005, Guittou *et al.* 150 (CNARP, MO, P, TAN); Andranovondronina, Antsisikala, forêt d'Ankatokobe, 12°10'33"S 49°12'58"E, 50 m, 18.V.2005, Leopold *et al.* 66 (CNARP, G, MO, P, TAN); Ramena, Andavakoera, Montagne des Français, 12°21'01"S 49°21'32"E, 115 m, 11.IX.2004, Rabefarihy & Guittou 20 (MO, P, TAN); Vohémar, Tsaratanana, forêt d'Ampondrabe, 12°58'18"S 49°41'57"E, 200 m, 4.XI.2005, Rakotonandrasana *et al.* 954 (CNARP, G, MO, P, TAN); Ampitiliansambo, 15 km à l'E d'Andranomanitra, 12°23'18"S 49°22'57"E, 233 m, 14.VI.2004, Ramananjolahary *et al.* 20 (CNARP, G, MO, P, TAN); Montagne d'Ambre PN, 12°28'34"S 49°10'51"E, 682 m, 18.XII.2011, Ramanandimbimanana *et al.* 175 (G, MO, P, TEF); Ampitiliansambo, Montagne des Français, 12°23'13"S 49°22'53"E, 239 m, 11.IX.2004, Randriambololomamonjy *et al.* 9 (MO, P, TAN); Mahamasina, Ankarana RS, 12°58'S 49°08'E, 50 m, 15.VI.1995, Razafimandimbison & Andrianantoanina 96 (K, MO, P, TAN).



**Fig. 12.** Photographs of *Noronhia* Stadtm. ex Thouars. **A.** *Noronhia crassinodis* H. Perrier [Ramandimbimana 175]; **B.** *Noronhia crassiramosa* H. Perrier [Rasoazanany et al. 326]; **C.** *Noronhia cuspidata* Hong-Wa [Hong-Wa 643]; **D.** *Noronhia divaricata* Scott-Elliott [Rakotovao 5500].

Photos: taken by respective collectors