

Zeitschrift: Boissiera : mémoires de botanique systématique
Herausgeber: Conservatoire et Jardin Botaniques de la Ville de Genève
Band: 70 (2016)

Artikel: A taxonomic revision of the genus *Noronhia* Stadtm. ex Thouars (Oleaceae) in Madagascar and the Comoro Islands
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Kapitel: 18: *Noronhia crassinodis*
DOI: <https://doi.org/10.5169/seals-1036126>

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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 km², an AOO of 52 km², and 12 subpopulations representing 10 locations, of which six occur within protected areas (Andavakoera-Andrafiarana-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 B1ab(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. clarinerva* 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); Ampitiliantsambo, 15 km à l'E d'Andranomanitra, 12°23'18"S 49°22'57"E, 233 m, 14.VI.2004, *Ramananjanahary 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, *Ramandimbimanana et al.* 175 (G, MO, P, TEF); Ampitiliantsambo, 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, *Razafimandimison & Andrianantoanina* 96 (K, MO, P, TAN).



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

Photos : taken by respective collectors