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34. *Noronhia humblotiana* (H. Perrier) Hong-Wa, **comb. & stat. nov.**

≡ *Noronhia mangorensis* var. *humblotiana* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 303. 1949.

Typus: MADAGASCAR. **Prov. Antsiranana:** Antakare [Antakarana], [12°54'S 49°08'E], s.d., *Humblot 584* (holo-: P [P00701218]!; iso-: K [K000233185, K000233186] image seen, S [S09-36009] image seen).

Description

Trees to 10 m tall, trunk to 15 cm diameter; young twigs cylindrical, 0.6-1.3 mm diameter, glabrous; bark dark to medium gray, smooth. *Leaves* opposite, persistent; bud scales persistent; blades dark green above, lighter below, ovate to oblong, 4.5-6.5 × 1.5-4 cm, coriaceous, glabrous, domatia absent, base acute to attenuate, margin flat to slightly revolute, apex acuminate, the acumen 3.5-12 mm long, midrib slightly sunken above, distinctly raised below, secondary veins conspicuous, 6-10 per side, 4-12.5 mm apart, looping 1-3.5 mm from the margin; petiole dark to medium gray, 2-7 × 1-2 mm, entirely woody, glabrous. *Flowers* fasciculate; pedicel 10-25 mm long, moderately pubescent; calyx moderately pubescent outside, glabrous inside, lobes triangular, 1-2 × 0.9-2 mm; corolla pink to red, urceolate, 4-9.5 mm long, glabrous on both sides, the tube 2.5-6 mm long, lobes ovate, apex obtuse; corona present, 1.5-2.5 mm long, lobed; stamens 1.5-3.5 mm long, anthers obovate, 1.2-1.3 mm long; pistil 2-3.2 mm long, stigma capitate. *Fruiting* pedicel 12-14 × 0.9-1.1 mm; young fruits green, reddish black when mature, ellipsoid, 9.5 × 7.5 mm, surface rugose, apex flat, style persistent; dry pericarp 0.9 mm thick; endocarp woody.

Distribution, ecology and phenology

Noronhia humblotiana occurs in mid- to high-elevation humid forests in the north, from Marojejy to Bemafo (Fig. 19). It produces flowers and fruits from October to May.

Conservation status

Based on 17 collections representing 16 localities, the assessment yielded an EOO of 19,257 km², an AOO of 60 km², and 15 subpopulations representing 13 locations, of which eight occur within protected areas (Ampasindava, Galoko, Loky-Manambato, Makira, Makirovana-Tsihomanaomby, Marojejy, Tsaratanana, and Tsaratanana-Ambohimirahavy-Corridor Marojejy). Despite a relatively narrow distribution and habitat degradation in some of areas, *N. humblotiana* occurs in more than 10 locations, most of which are encompassed within protected areas. Therefore, this species is assigned a preliminary status of "Near Threatened".

Notes *Noronhia humblotiana* can be recognized by its coriaceous leaf blades with lighter-colored venation, fasciculate, long-pedicellate flowers, and rugose fruits. It was described as a variety of *N. mangorensis* H. Perrier from which it differs by its flatter and less coriaceous, acuminate (vs. cuspidate) leaf blades, longer pedicels (10-25 mm vs. 5-13 mm), urceolate (vs. cupuliform) flowers, and ellipsoid (vs. ovoid) fruits.

Additional specimens examined

MADAGASCAR. **Prov. Antsiranana:** Andapa, Antsahamena, Ambodiangezoka, 14°57'58"S 49°42'54"E, 338 m, 9.XI.2003, *Antilahimena* 2308 (G, MO); Antongondriha, massif du Bet-somanga, [14°15'S 49°45'E], 700 m, 17.XI.1950-20.XI.1950, *Humbert & Capuron* 24271 (G, MO, P); Marojejy PN, 14°27'S 49°47'E, 380 m, 5.X.1988, *Miller et al.* 3369 (K, MO, P, TAN); *ibid. loc.*, 14°27'S 49°47'E, 300 m, 2.XII.1989, *Miller & Randrianasolo* 4645 (MO, P, TAN); *ibid. loc.*, 14°26'13"S 49°46'32"E, 460 m, 10.X.1996, *Rakotomalaza et al.* 729 (G, MO, P, TAN); Sambava, Anjagoveratra, Anamboafy, forêt de Makirovana, 14°09'14"S 49°57'43"E, 481 m, 20.III.2013, *Rakotonirina et al.* 84 (MO, P, TAN); Vohémar, Analamazava, 8 km of Ankijabe village, 13°15'43"S 49°35'22"E, 840 m, 25.XI.2004, *Ranarivelo et al.* 455 (CAS, MO, TAN); Anjanaharibe-Sud RS, 14°32'45"S 49°35'15"E, 809-1364 m, 25.V-3.VI.1994, *Ravelonarivo* 138 (MO, P, TAN); Sambava, Bevontro, Morafeno, forêt d'Antsahandroboka, 14°10'22"S 49°17'54"E, 910 m, 6.II.2006, *Razakamalala et al.* 3197 (G, MO, P, TAN); Bet-somanga, Anjanabe, [14°15'30"S 49°44'00"E], 700 m, 18.XI.1950, *Service Forestier* 832 (P, TEF); Bemafo, [14°12'S 49°06'E], 2000 m, I.1951, *Service Forestier* 954 (P, TEF). **Prov. Mahajanga:** Ambohimiravavy, Bemafo, 1781 m, I.X.2005, *Callmander et al.* 395 (G, MO, P, TAN); Tsaratanana Massif, [13°57'S 48°52'E], 1800-2000 m, 8.V.1974, *Gentry* 11581 (MO, P, TAN).



Fig. 25. *Noronhia incurvifolia* (H. Perrier) Hong-Wa & Besnard [Ratovoson 1361].

Photo: F. Ratovoson