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Autor: Hong-Wa, Cynthia
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83. *Noronhia tubulosa* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2 : 295. 1949 (Fig. 67C).

Lectotypus (designated here): **MADAGASCAR. Prov. Mahajanga:** env. de Majunga, [15°43'S 46°19'E], XII.1918, *Perrier de la Bâthie* 12325 (P [P00418102]!; isolecto-: K [K000233180, K000233181] images seen, P [P00573407, P00573408]!). **Syntypus:** **MADAGASCAR. Prov. Mahajanga:** env. de Majunga, s.d., *Alleizette s.n.* (P, not found).

Description Small *trees* to 8 m tall, trunk to 19 cm diameter; young twigs cylindrical, 0.6-1.4 mm diameter, glabrous; bark medium gray to brownish, slightly rugose. *Leaves* opposite, persistent; bud scales persistent; blades light green above, yellowish below, elliptic, 3.5-7 × 1-2.5 cm, coriaceous, glabrous, domatia absent, base attenuate, margin flat to slightly revolute, apex retuse to slightly acuminate, the acumen 1-6 mm long, midrib slightly sunken above, distinctly raised below, secondary veins conspicuous mostly below, 5-12 per side, 4.5-11 mm apart, looping 1-2 mm from the margin; petiole medium gray, 3.5-6 × 0.7-1.5 mm, entirely woody, glabrous. *Flowers* fasciculate; pedicel 4-12 mm long, very sparsely pubescent; calyx very sparsely pubescent outside, glabrous inside, lobes triangular, 1-1.2 × 0.6-1.5 mm; corolla yellow tinged reddish, tubular, somewhat campanulate, 5-10 mm long, glabrous on both sides, the tube 4-8 mm long, lobes deltate, apex acute; corona present, 1.2-2 mm long, slightly lobed; stamens 1.7-2.5 mm long, anthers obovate, 1.3-1.7 mm long; pistil 1.8-2 mm long, stigma capitate. *Fruiting* pedicel 3-14 × 0.6-1 mm; young fruits green, dark red when mature, subglobose, 9-17 × 7-12 mm, surface smooth, apex apiculate; dry pericarp 0.3-0.8 mm thick; endocarp woody; seed 5-13 × 4-7.5 mm.

Distribution, ecology and phenology *Noronhia tubulosa* occurs in low-elevation dry forests in the Boina and Melaky regions in the west (Fig. 62). It produces flowers and fruits from November to May.

Conservation status There were seven collections representing six localities available for analysis, which yielded an EOO of 20,371 km², an AOO of 20 km², and four subpopulations representing four locations, of which two occur within protected areas (Ankarafantsika and Mahavavy-Kinkony). The actual AOO, although surely larger than the estimated value given above, is likely less than 2,000 km². Moreover, due to wildfire, forest exploitation, grazing, and land conversion, subpopulations of *N. tubulosa* are projected to experience continuing decline in habitat quality as well as habitat loss. Therefore, it is assigned a preliminary status of "Vulnerable" [VU B2ab(i,ii,iii,iv,v)].

Notes *Noronhia tubulosa* can be recognized by its coriaceous, elliptic leaf blades, fasciculate, yellow tinged red flowers with a tubular to somewhat campanulate corolla, and small, subglobose fruits. It differs from *N. boinensis*, as previously discussed, by the conspicuousness of its leaf venation and the color and shape of its flowers.

This species was based on two syntypes (*Perrier de la Bâthie* 12325 and *Alleizette* s.n.). However, PERRIER DE LA BATHIE (1949, 1952) mentioned that *Alleizette* s.n. is in fact just a part of his own collection (*Perrier de la Bâthie* 12325), writing “même localité, simple part probable du précédent [i.e. *Perrier de la Bâthie* 12325]” in 1949 and “même localité, exemplaire qui n’est évidemment qu’une simple part du précédent [i.e. *Perrier de la Bâthie* 12325]” in 1952, which seems odd. In any case, *Alleizette* s.n. could not be located in the Paris herbarium, therefore a specimen of *Perrier de la Bâthie* 12325 has been chosen as the lectotype and *Alleizette* s.n. has not been listed as an isolectotype.

**Additional specimens
examined**

MADAGASCAR. **Prov. Mahajanga:** Ankarafantsika PN, 16°19’S 46°49’E, 60-200 m, 8.IV.1988, *Gentry & Schatz* 62153 (MO, P, TAN); *ibid. loc.*, 16°17’45’’S 46°49’20’’E, 116 m, 14.III.2009, *Hong-Wa* 629 (MO, P, TAN); Maintirano, Ampasimandro, [18°04’E 44°01’S], s.d., *Service Forestier* 16313 (TEF); près de Benetsy, [15°56’S 45°47’E], 21.XI.1965, *Service Forestier* 24268 (MO, P, TEF); Marovoay, Ampijoroa STF, 16°18’S 46°49’E, 200 m, 14-15.XII.1991, *Service Forestier* 34329 (MO, TEF).