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43. *Noronhia linearifolia* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 289. 1949.

Typus: MADAGASCAR. **Prov. Antsiranana:** N de Madagascar, baie de Rigny, Port Lewen, [12°45'S 49°43'E], III-IV.1849, *Boivin 2451* (holo-: P [P00608381]!; iso-: P [P00608382]!).

Description *Shrubs* to small trees to 6 m tall, trunk to 7 cm diameter; young twigs cylindrical, 0.6-1.3 mm diameter, glabrous; bark medium gray, smooth to slightly rugose. *Leaves* opposite, persistent; bud scales persistent; blades medium green above, lighter below, linear, 3-8 × 0.5-1.3 cm, coriaceous, glabrous, domatia absent, base rounded, margin revolute, apex retuse (rarely mucronulate), the mucro 1-2.5 mm long, midrib flat to slightly sunken, raised below, secondary veins inconspicuous, 5-13 per side, 3-12 mm apart, looping 0.5-1.6 mm from the margin; petiole medium gray, 1.5-6 × 0.2-1.4 mm, entirely woody, glabrous. *Flowers* solitary; pedicel 2.5-5.5 mm long, glabrous; calyx sparsely pubescent outside, glabrous inside, lobes widely ovate, 1.1-1.8 × 1-2.1 mm; corolla reddish-brown tinged white, urceolate, 3.8-7 mm long, glabrous on both sides, the tube 3-5.5 mm long, lobes ovate, apex rounded; corona present, 1-2 mm long, lobed; stamens 1.7-2.4 mm long, anthers ovate, 1.3-1.8 mm long; pistil 2-3 mm long, stigma capitate. *Fruiting* pedicel 2-8 × 0.8-1.6 mm; young fruits green, reddish black when mature, ovoid, 7-14 × 5-11 mm, smooth, sometimes covered with a white pellicle, apex flat to apiculate; dry pericarp 0.5-1.9 mm thick; endocarp woody; seed 6.5-9.5 × 4-5.5 mm.

Distribution, ecology and phenology *Noronhia linearifolia* occurs in littoral to low-elevation dry forests in the north, from Orangéa (Oronjia) to Vohémar (Fig. 27). It produces flowers and fruits throughout the year except in March and April.

Conservation status The assessment was based on 21 collections representing 18 localities and resulted in an EOO of 1,825 km², an AOO of 56 km², and 12 subpopulations representing 10 locations, of which five occur within the network of protected areas (Analamerana, Loky-Manambato, Montagne des Français, and Oronjia). Conversion of land into agricultural fields and pastures, wood harvesting, charcoal production, and in some cases gradual sea level rise constitute threats to some of the subpopulations, thereby reducing the EOO, AOO, habitat quality and number of mature individuals. Thus, *N. linearifolia* is assigned a preliminary status of "Vulnerable" [VU B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)].

Notes *Noronhia linearifolia* can be recognized by its coriaceous, linear leaf blades with barely visible venation and its solitary, red flowers. It differs from *N. alleizettei* by its linear (vs. narrowly elliptic) leaf blades, solitary (vs. fasciculate), reddish brown (vs. white) flowers, and the presence (vs. absence) of a corona.

**Additional specimens
examined**

MADAGASCAR. Prov. Antsiranana: Analabolona, 3 km à l'W d'Irodo, 12°37'21"S 49°30'01"E, 102 m, 20.VII.2004, *Be et al.* 15 (CNARP, MO, P, TAN); Andrafiabe, Ambolobozokely, Ampasimena, 12°26'00"S 49°30'13"E, 35 m, 29.XII.2008, *Christian et al.* 83 (CNARP, G, MO, P, TAN); Analamerana RS, 12°40'25"S 49°32'40"E, 41 m, 8.I.2002, *De Block* 1128 (BR, G, K, MO, P, TAN, WAG); Ramena, Andavakoera, 12°19'57"S 49°21'19"E, 172 m, 4.VIII.2007, *Hong-Wa* 526 (CNARP, MO, P, TAN); Analamera, [12°47'24"S 49°30'00"E], 50-400 m, I.1938, *Humbert* 19114 (P); 40 km N of Vohémar, near N end of Lac Sahaka, 13°04'45"S 49°54'17"E, 20 m, 3.XI.2002, *McPherson* 18876 (MO, P, TEF); Orangéa, 12°15'01"S 49°21'39"E, 50 m, 20.I.2003, *Miller et al.* 10727 (G, MO); Vohémar, Anjiabe, Analabe, 13°04'50"S 49°54'07"E, 9.VII.2003, *Rabehevitra et al.* 208 (MO, P, TEF); Ramena, forêt d'Orangéa, 12°14'45"S 49°21'20"E, 13-25 m, 4.IX.2001, *Rabenantoandro & Razanatsoa* 631 (MO, P, TAN); Vohémar, Anjiabe, forêt d'Anaborano près du Lac Sahaka, 13°04'42"S 49°54'13"E, 25 m, 2.XI.2002, *Rabenantoandro et al.* 1103 (MO, P, TAN); *ibid. loc.*, 13°04'43"S 49°54'04"E, 10 m, 23.II.2003, *Rabenantoandro et al.* 1280 (G, MO, P); Ambolobozobe, Ankonahona, 12°31'S 49°32'E, 27.XI.2007, *Rakotonandrasana et al.* 1249 (CNARP, MO, TAN); Baie de Sakalava, 12°16'39"S 49°22'49"E, 21 m, 5.XI.2006, *Ranaivojaona et al.* 1506 (G, MO, P, TAN); Vohémar, Anjiabe, Anaborano, forêt d'Analabe, 13°04'09"S 49°54'08"E, 18 m, 21.VII.2004, *Randrianarivelo & Sola* 74 (MO, P, TAN); Andrafiabe, Sahafary, 12°35'43"S 49°26'54"E, 233 m, 11.IX.2004, *Razafitsalama et al.* 635 (CNARP, MO, P, TAN).



Fig. 30. Photographs of *Noronhia* Stadtm. ex Thouars. **A.** *Noronhia latifolia* Hong-Wa [Callmander 626]; **B.** *Noronhia linearifolia* Boivin ex Dubard [Hong-Wa 526]; **C.** *Noronhia linocerioides* H. Perrier [Ravelonarivo 3606] **D.** *Noronhia longipedicellata* H. Perrier [Razafitsalama 1231]

Photos: A: M. Callmander; B: F. Ratovoson; C: C. Birkinshaw; D: F. Ratovoson