

Noronhia lanceolata

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40. *Noronhia lanceolata* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 286. 1949 (Fig. 28B).

Lectotypus (designated here): **MADAGASCAR. Prov. Toliara:** Sud-Ouest: Plateau Bara, bassin du Fiherenana, [22°57'S 44°19'E], V.1933, *Perrier de la Bâthie* 19243 (P [P00413230]!); isolecto-: BR [BR0000006265632] image seen, K [K000233189] image seen, P [P00413231, P00413232]!). **Syntypi:** **MADAGASCAR. Prov. Toliara:** Antanimora, [24°14'S 45°15'E], 13.VII.1926, *Decary* 4299 (P [P04078602]!); *ibid. loc.*, [24°14'S 45°15'E], 17.VII.1926, *Decary* 4522 (P [P04078608]!); Massif du Vohitsiombe, [24°25'S 46°08'E], 2.VIII.1926, *Decary* 4564 (P [P04078604, P04078605]!); *ibid. loc.*, 2.VIII.1926, *Decary* 4649 (P [P04078597]!); Ampandrandava, [24°05'S 45°42'E], VIII.1942, *Herb. Jard. Bot. Tan.* 5108 (P [P04078587, P04078588, P04078589, P04078591, P04078592, P04078593]!); Fiherenana, [22°57'30"S 44°19'00"E], 25-300 m, 2-3.VIII.1928, *Humbert* 5124 (G [G00188778] image seen, P [P04078582]!); Bassin supérieur du Mandrare, [24°30'S 46°35'E], 700-1200 m, 20-22.XI.1928, *Humbert* 6765 (P [P04078609 in part]!); Vallée de la Manambolo, [24°31'S 46°37'E], 300-400 m, XII.1933, *Humbert* 12792 (P [P04078594, P04078595, P04078596]!); *ibid. loc.*, [24°31'S 46°37'E], 400-600 m, XII.1933-I.1934, *Humbert* 12813 (P [P04078606]!); *ibid. loc.*, [24°31'S 46°37'E], 400-900 m, 1.XII.1933, *Humbert* 13012 (G [G00188777] image seen, P [P04078600, P04078601]!); Bords de la Linta, Plateau Mahafaly, [24°46'S 44°17'E], VI.1910, *Perrier de la Bâthie* 8821 (P [P04078610, P04078611]!); Ampandrandava, [24°25'S 45°42'E], VII.1943, *Seyrig* 23 (P [P04078590]!).

Description *Trees* to 8 m tall, trunk to 17 cm diameter; young twigs cylindrical, 0.4-1.2 mm diameter, glabrous; bark light gray to brownish, rugose. *Leaves* opposite, semi-deciduous; bud scales persistent; blades light green, lanceolate, 3.5-10 × 0.6-1.8 cm, coriaceous, glabrous, domatia absent, base attenuate, margin flat, apex acute to acuminate, the acumen 1-3 mm long, midrib flat to slightly raised above, distinctly raised below, secondary veins barely visible, 7-14 per side, 5.5-16 mm apart, looping 0.8-2.5 mm from the margin; petiole whitish to yellow, 5-15 × 0.3-1.1 mm, not woody, glabrous. *Thyrses* geminate, pauciflorous, somewhat diffuse; peduncle 1.5-9 mm long, moderately pubescent; pedicel 2-7 mm long, moderately pubescent; calyx moderately pubescent outside, glabrous inside, lobes triangular, 0.7-1.6 × 0.6-1.3 mm; corolla white, cupuliform, 3-4 mm long, glabrous on both sides, the tube 2.5-3 mm long, lobes ovate, apex rounded; corona absent; stamens 2-2.7 mm long, anthers ovate, slightly apiculate, 1.7-1.8 mm long; pistil 2.2-3 mm long, stigma capitate. *Fruiting* pedicel 3-12 × 0.5-2.1 mm; young fruits green, purplish red when mature, ovoid to subglobose, 10-26.5 × 6-22.5 mm, surface smooth, sometimes covered with white dots, apex flat to rostellate, with the persistent style; dry pericarp 1.4-2.7 mm thick; endocarp woody; seed 6.5-19 × 4-12.5 mm.

Distribution, ecology and phenology

Noronhia lanceolata occurs in low- to high-elevation dry forests and thickets in the south, from Sakaraha to Andohahela (Fig. 27). It produces flowers and fruits throughout the year except in August and September.

Conservation status

There were 31 collections representing 29 localities available for analysis, which yielded an EOO of 26,232 km², an AOO of 104 km², and 20 subpopulations representing 17 locations, of which seven occurs within protected areas (Amaron'i Onilahy, Andohahela, Behara-Tranomaro, Beompa, Corridor Parcel I-Parcel II, Extension Ampalamora, and Vohidava-Betsimalaho). With an actual AOO likely much larger than 2,000 km², many locations and good representation within the network of protected areas, *Noronhia lanceolata* is assigned a preliminary status of "Least Concern".

Notes

Noronhia lanceolata can be recognized by its rugose bark, non-woody petiole, lanceolate leaf blades, and white flowers lacking a corona. It differs from *N. alleizettei* by its non-woody (vs. woody) petioles, lanceolate (vs. narrowly elliptic) leaf blades, thyrsoid inflorescences (vs. fasciculate flowers), cupuliform (vs. urceolate) corolla, and larger (26 × 22 mm vs. 13 × 13 mm) fruits. The description of this species was based on the following syntypes: *Decary* 4299, 4522, 4561, 4564 and 4649, *Herb. Jard. Bot. Tan.* 5108, *Humbert* 5124, 6765, 12792, 12813 and 13012, *Perrier de la Bâthie* 8821 and 19243, and *Seyrig* 23. The choice of a sheet of *Perrier de la Bâthie* 19243 at P as the lectotype is based on its completeness and quality as well as the presence of duplicates in various other herbaria.

The specimen *Humbert* 6765 ([P04078609]) includes three fragments, of which two are assigned to *N. lanceolata* and one to *N. divaricata*. Moreover, PERRIER DE LA BÂTHIE (1949) listed *Decary* 4561 as one of the syntypes of *N. lanceolata*, but no such specimen was found under *Noronhia* at the Paris herbarium. In fact, the only specimen found of *Decary* 4561 is clearly not a *Noronhia*, having been identified as *Desmodium repandum* (Vahl) DC. (P [P0009323]!). Besides, this specimen was collected in humid forest at Farafangana, far north from the range of *N. lanceolata* and outside of its natural habitat. However, it is possible that a numbering mistake was made since *Decary* 4561 was collected on August 8, 1926 in Farafangana, six days after *Decary* 4564 was collected in Fort-Dauphin, suggesting that perhaps another specimen bearing the number *Decary* 4561, truly representing *N. lanceolata*, exists. Nevertheless, in the absence of such a specimen and given the presence of material belonging to *Desmodium* Desv., *Decary* 4561 should be treated as an excluded syntype.

Additional specimens examined

MADAGASCAR. Prov. Toliara: Ambatoabo, Imonty-Evasia, Andohahela PN, 24°47'11"S 46°43'26"E, 680 m, 17.XII.2004, *Andriamihajarivo* 487 (MO, P, TAN); Amboasary Sud, Marotsiraka, Atsonjo Analamainty, Ankotsy, 24°17'30"S 46°07'48"E, 428 m, 10.XI.2008, *Andriamihajarivo et al.* 1547 (MO, P, TAN); Imanombo (Centre-Sud), 1.XI.1952, *Bosser* 4332 (MO, TAN); Imonty (Bassin de Mandrare), [24°49'S 46°41'E], 1.1962, *Bosser* 15718 (P, TAN); Behara à l'E d'Ambovombe, [24°57'S 46°23'E], 1.VIII.1931, *Decary* 9085 (G, P); Tsimelahy, Andohahela PN (Parcelle II), 24°57'25"S 46°36'26"E, 158 m,

21.II.2009, *Hong-Wa* 609 (MO, P, TAN); Ihazofotsy, Andohahela PN, 24°50'S 46°32'E, 100 m, 16.IV.1996, *Laha* 73 (K, MO, P, TAN); Ankoba, near E edge of Andohahela PN Park, Parcel 2, 24°47'19"S 46°42'07"E, 200 m, 23.I.2008, *Lowry et al.* 6942 (G, MO, P); Andohahela PN, Parcelle 2, 24°49'S 46°32'E, 30-50 m, 18.III.1994, *Rahajaso et al.* 214 (G, K, MO, P, TAN); Ambohimahavelona, Sept Lacs, Andranolahy, 23°31'24"S 44°09'10"E, 120 m, 4.IX.1998, *Rakotomalaza & Messmer* 1676 (G, P); Andohahela PN, Parcelle 3, 24°31'S 46°38'E, 600-1700 m, 5-22.VII.1993, *Randriamampionona* 507 (K, MO, P); Mont Trafonaomby, Andohahela PN, parcelle 1, 24°33'S 46°43'E, 1000-1957 m, 7.IV.1994, *Randriamampionona* 792 (G, MO, P, TAN); Andohahela (parcel 1), Tsimelahy, 24°50'20"S 46°32'17"E, 6.IV.1996, *Randriamampionona* 1228 (G, MO, P); Andohahela PN, Esomony, 24°31'S 46°37'E, 17.IX-30.X.1991, *Randriamanantena & Durbin* 37 (K, MO); Fort-Dauphin, Ambatoabo, Ankoba, 24°47'01"S 46°42'20"E, 298 m, 27.II.2009, *Randrianaivo et al.* 1762 (G, MO, P, TAN); Andohahela PN, Analamatsaka, 25°00'16"S 46°37'14"E, 180 m, 7-11.VI.1999, *Ratovoson et al.* 100 (MO, P, TAN); Ambatoabo, Evasia, 24°48'12"S 46°41'07"E, 200 m, 19.XI.2008, *Ratovoson* 1475 (G, MO, P, TAN); Behara Androy, [24°42'S 46°44'E], 30.XI.1953, *Réserves Naturelles* 5962 (G, P, TAN, TEF); Amboasary, Maromby, Sifotsy près d'Isomony, [24°40'S 46°44'E], 28.X.1962, *Réserves Naturelles* 12187 (P, TEF); entre Ranomainty et Bevilany, [25°00'S 46°34'E], 0-200 m, 7.XII.1961, *Service Forestier* 20483 (MO, P, TEF); Route Tuléar-Sakaraha, PK 28, [23°20'00"S 43°51'30"E], 300 m, 8.I.1962, *Service Forestier* 20780 (MO, P, TEF); Piste de Maromiandra (Tuléar) au plateau de Mikoboka, [22°45'S 44°04'E], 1.IV.1965, *Service Forestier* 24138 (G, MO, P, TEF).