

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
Autor:	Hong-Wa, Cynthia
Kapitel:	3: Noronhia ankaranensis
DOI:	https://doi.org/10.5169/seals-1036126

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 11.08.2025

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

3. *Noronhia ankaranensis* (H. Perrier) Hong-Wa, comb. & stat. nov. (Fig. 2C).

- ≡ *Noronhia luteola* var. *ankaranensis* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 298. 1949.
- ≡ *Noronhia luteola* subsp. *ankaranensis* (H. Perrier) H. Perrier, Fl. Madagascar Comores 166: 51. 1952.

Typus: MADAGASCAR. Prov. Antsiranana: Ankarana, [12°54'00"S 49°07'48"E], 10-250 m, XII.1937, Humbert 18794 (holo-: P [P00573402]!; iso-: P [P00573403; P00573404]!; S [S09-36007] image seen, WAG [WAG0002492] image seen).

Description Shrubs to trees to 8 m tall, trunk to 12 cm diameter; young twigs cylindrical, 0.6-2.1 mm diameter, glabrous; bark medium gray, smooth to rugose. Leaves opposite, semi-deciduous; bud scales persistent; blades dark green above, lighter below, obovate, 3.5-8.5 × 1-3.5 cm, coriaceous, glabrous, domatia abundant, base attenuate, margin flat to slightly revolute and undulate, apex rounded to obcordate, midrib flat above to slightly sunken above, flat to slightly raised below, secondary veins barely visible, 5-10 per side, 3-16 mm apart, looping 0.8-4 mm from the margin; petiole yellowish, 3-8 × 0.5-2.7 mm, not woody, glabrous. Thyrse solitary, pauciflorous, compact; peduncle 1.5-5 mm long, sparsely pubescent; pedicel 3-8 mm long, sparsely pubescent; calyx glabrous on both sides, lobes triangular, 0.7-1 × 0.7-1.1 mm; corolla white, cupuliform, 3-5.5 mm long, glabrous on both sides, the tube 1-3 mm long, lobes lanceolate, apex acute; corona present, 1-1.4 mm long, undivided; stamens 1.2-1.9 mm long, anthers obtriangular, 0.8-1.3 mm long; pistil 1.2-2 mm long, stigma capitate. Fruiting pedicel 3-12 × 0.7-1.8 mm; young fruits green, dark brown when mature, ovoid to subglobose, 10-24 × 7-16.7 mm, smooth, sometimes covered with white dots, apex bluntly pointed to apiculate; dry pericarp 0.5-1.6 mm thick; endocarp woody; seed 7-16 × 5-10 mm.

Distribution, ecology and phenology *Noronhia ankaranensis* occurs in low-elevation dry forests in the north, from Montagne des Français to Ankarana and Daraina (Fig. 3). It produces flowers and fruits throughout the year, with a peak between October and February.

Conservation status With 37 collections representing 33 localities, the analysis resulted in an EOO of 12,445 km², an AOO of 112 km², and 23 subpopulations representing 19 locations, of which six occur within the network of protected areas (Ankarana, Ambodivahibe, Loky-Mambato, Montagne des Français, Nosy Mitsio, and Oronjia). *Noronhia ankaranensis* is thus assigned a preliminary status of “Near Threatened” due to ongoing habitat loss and degradation in non-protected areas.

Notes *Noronhia ankaranensis* can be recognized by its non-woody petiole, obovate leaf blades bearing domatia, pauciflorous, compact thyrses, and white corolla. This species differs from *N. luteola* H. Perrier by the shape of its leaves (obovate vs. oblong to obovate) and corolla (cupuliform vs. subrotate) and by the organization of its thyrses (solitary vs. geminate). Although previously considered as a subspecies of the latter, these entities are not sister and do not even belong to the same clade (HONG-WA & BESNARD, 2013, 2014).

Additional specimens examined

MADAGASCAR. Prov. Antsiranana: Ankarana RS, [12°54'00"S 49°07'48"E], 50-409 m, 12-20.X.1993, Andrianantoanina 381 (K, MO); *ibid. loc.*, [12°54'00"S 49°07'48"E], 6.X.1990, Bardot-Vaucoulon 124 (P); Baie des Sakalava, 12°16'24"S 49°23'30"E, 0 m, 15.VIII.2004, Be *et al.* 77 (CNARP, G, MO, P, TAN); Ambolobozokely, Nosy Laliara, 12°25'55"S 49°33'05"E, 9 m, 17.VI.2005, Be *et al.* 142 (CNARP, MO, P, TAN); Daraina, forêt d'Antsahabe, 13°13'S 49°33'E, 580 m, 15.X.2004, Callmander *et al.* 225 (Daraina, G, K, MO, P, TEF); *ibid. loc.*, 13°12'51"S 49°33'01"E, 740 m, 3.XII.2004, Gautier 4811 (Daraina, G, K, MO, TEF); Sahafary, 12°34'36"S 49°27'41"E, 180 m, 24.VII.2004, Guittou *et al.* 40 (CNARP, G, MO, P, TAN); Sakaramy, Montagne des Français, [12°19'S 49°21'E], 8.XI.1944, Homolle 263 (P); Andavakoera, Montagne des Français, 12°19'57"S 49°21'19"E, 172 m, 4.VIII.2007, Hong-Wa *et al.* 545 (TAN); *ibid. loc.*, 12°19'18"S 49°20'16"E, 270 m, 29.XII.2008, Hong-Wa 551 (MO, P, TAN); Ankarana, [12°54'00"S 49°07'48"E], 30-350 m, 24.I-29.II.1960, Humbert 32554 (P); Ankarana RS near Campement des Anglais, 12°54'42"S 49°06'42"E, 240-260 m, 16.V.1993, Jongkind & Rapanarivo 941 (MO, P, TAN); Matsaborimanga, Ankarana RS, 12°55'26"S 49°05'10"E, 300 m, 20.XI.1996, Labat 2778 (K, MO, P, TAN, WAG); Daraina, forêt d'Ankaramy, 13°17'07"S 49°40'41"E, 245 m, 22.II.2004, Nusbaumer & Ranirison 1202 (Daraina, G, K, MO, P, TAN); *ibid. loc.*, 13°17'46"S 49°40'39"E, 640 m, 20.XII.2005, Nusbaumer & Ranirison 1819 (Daraina, G, K, MO, P, TEF); Daraina, Befarafara, forêt de Solanampilana, 13°05'26"S 49°34'32"E, 100 m, 15.XI.2005, Rakotonandrasana *et al.* 992 (CNARP, G, MO, P, TAN); Ampitiliansambo, Montagne des Français, 12°23'13"S 49°22'53"E, 239 m, 11.IX.2004, Randriambololamamonjy *et al.* 14 (G, MO, P, TAN); Daraina, forêt d'Antsahabe, 13°10'50"S 49°33'17"E, 415 m, 30.IV.2004, Ranirison 750 (Daraina, G, K, MO, P, TEF); Andranovondronina, Anjiaibe, forêt de Belamoty, 12°06'09"S 49°19'34"E, 85 m, 10.XI.2006, Ratovoson *et al.* 1152 (CNARP, MO, P, TAN); Vohémar, Manakana, 13°43'08"S 50°05'50"E, 13.III.2004, Razakamalala 1076 (G, MO, P, TEF); Anjiaibe, Analabe, près du lac Sahaka, 13°04'43"S 49°54'04"E, 13.V.2004, Razakamalala *et al.* 1256 (MO, P, TEF); Vohémar, [13°26'S 50°00'E], 11.XII.1966, Service Forestier 27299 (G, MO, P); Massif de l'Ankarana (partie S du massif Mafokovo), 50-450 m, 17.XII.1966, Service Forestier 27360 (MO, P, TEF).

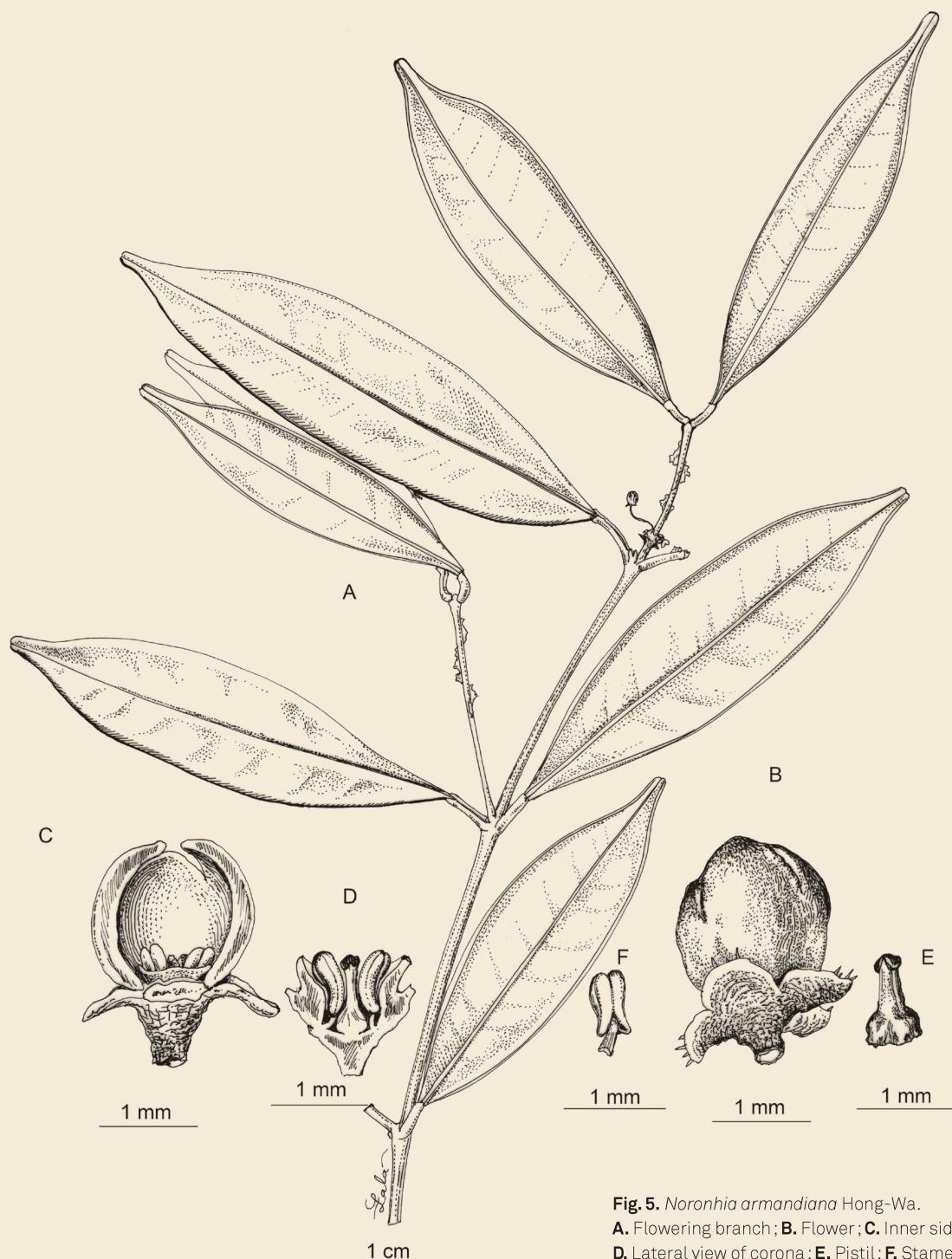


Fig. 5. *Noronhia armandiana* Hong-Wa.
A. Flowering branch; **B.** Flower; **C.** Inner side of corolla;
D. Lateral view of corona; **E.** Pistil; **F.** Stamen.

[A-F: Ludovic 759, TAN] Drawings: R.L. Andriamariisoa