

# Noronhia incurvifolia

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**35. *Noronhia incurvifolia*** (H. Perrier) Hong-Wa & Besnard in Mol. Phylogenet. Evol. 67: 376. 2013 (Fig. 25).

≡ *Linociera incurvifolia* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 280. 1949.

≡ *Chionanthus incurvifolius* (H. Perrier) Stearn in Bot. J. Linn. Soc. 80: 199. 1980.

**Lectotypus** (designated here): **MADAGASCAR. Prov. Antsiranana:** collines et plateaux calcaires de l'Ankarana, près d'Ambodimagadro, [13°01'S 49°08'E], 150-200 m, XII.1937-I.1938, *Humbert 19011* (P [P03559141]!; isolecto-: BR [BR0000006266523] image seen, G [G00014068] image seen, K [K000233205] image seen, P [P03559139, P03559142]!). **Syntypi:** **MADAGASCAR. Prov. Antsiranana:** env. de Diégo-Suarez, [12°16'S 49°19'E], *Alleizette s.n.* (P, not found); Ankarana, près d'Ambondrofe, [12°49'S 49°01'E], 250 m, XII.1937-I.1938, *Humbert 18912* (BR [BR0000006267841] image seen, G [G00014068] image seen, P [P00413212, P00413213]!).

**Description** *Shrubs* to trees to 13 m tall, trunk to 15 cm diameter; young twigs cylindrical, 0.7-2.3 mm diameter, glabrous; bark medium brown, smooth, sometimes lenticellate. *Leaves* opposite, persistent; bud scales rarely persistent; blades medium green above, lighter below, lanceolate to ovate, usually abaxially folded along the midvein and curved, 6-10 × 1.5-3.5 cm, coriaceous, glabrous, domatia absent, base rounded to acute, margin flat to slightly undulate, apex acuminate, the acumen 4-15 mm long, midrib flat above, raised below, secondary veins conspicuous mostly below, 7-21 per side, 5-12 mm apart, looping 1-3 mm from the margin; petiole yellowish, 10-20 × 0.6-1.5 mm, not woody, glabrous. *Thyraxes* geminate, pauciflorous, somewhat diffuse; peduncle 16-22 mm long, sparsely pubescent; pedicel 0.7-3 mm long, sparsely pubescent; calyx sparsely pubescent outside, glabrous inside, lobes triangular, 0.7-1 × 0.7-1 mm; corolla white, subrotate, petals almost free, 3-4.5 mm long, glabrous on both sides, the tube 0.5-1 mm long, lobes ovate, apex slightly acute; corona absent; stamens 1.8-3 mm long, anthers oblong, 1.4-2.2 mm long; pistil 1.4-2.2 mm long, stigma bilobed. *Fruiting* pedicel 2.5-11 × 1-2.5 mm; young fruits green, brownish when mature, ovoid, 18.5-23 × 10.5-16 mm, surface slightly ribbed, sometimes covered with a white pellicle, apex rostrate, the rostrum flattened, ridged, truncate; dry pericarp 0.4-0.9 mm thick; endocarp woody; seed 13-14 × 7.5-11 mm.

**Distribution, ecology and phenology**

*Noronhia incurvifolia* occurs in low-elevation dry forests on lavas and limestones in northern Madagascar, from Antsiskala to Ankarana (Fig. 19). It produces flowers and fruits from September to March.

**Conservation status** Ten collections representing 10 localities were available for analysis, which resulted in an EOO of 912 km<sup>2</sup>, an AOO of 36 km<sup>2</sup>, and six subpopulations representing five locations, of which two occur within a protected area (Ankarana). *Noronhia incurvifolia* is now mostly found in heavily modified habitat as a result of expanding agriculture and traditional grazing. Therefore, with a restricted distribution and continuing decline in habitat quality as well as projected habitat loss in the near future, *N. incurvifolia* is assigned a preliminary status of “Endangered” [EN B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)].

**Notes** *Noronhia incurvifolia* can be recognized by its non-woody petioles, folded and curved leaf blades, short pedicels, subrotate to rotate, white flowers that lack a corona, and distinctly rostrate fruits. This species was based on three syntypes (*Alleizette s.n.*, *Humbert 19011* and *19012*). However, the citation of *Humbert 19012* in the protologue was in fact a typographic error for *Humbert 18912*, which PERRIER DE LA BÂTHIE (1952) corrected in the “Flore des Madagascar et des Comores”. While he annotated the single sheet of *Humbert 18912* in the Paris herbarium as the type, because of the mistake in the protologue, I have chosen to designate one of the sheets of *Humbert 19011* as the lectotype in order to assure strict compliance with the Code (Art. 9.2 and 9.12; McNEILL et al., 2012). Both *Humbert 18912* and *19011* comprise good quality specimens and are represented by several duplicates.

**Additional specimens examined** MADAGASCAR. **Prov. Antsiranana:** Ankarana RS, 10 km E de Matsaborimanga, 12°54'59"S 49°06'24"E, 180 m, 6.VII.1994, *Andrianantoanina & Rabeharinosy 717* (K, MO, TAN); Mosorolava, Mahagaga, forêt d'Analabe, 12°45'46"S 49°00'42"E, 76 m, 23.IX.2007, *Andriamihajarivo et al. 1401* (G, MO, P, TAN); Ankarana, from Campement des Anglais towards Lac Vert, 12°50'47"S 49°06'18"E, 82 m, 26.V.1999, *De Block 1020* (BR, G, MO, P, TAN, WAG); Ankarana, near Mahamasina, from Perte d'Eau to Campement de Prince, 12°50'47"S 49°06'18"E, 82 m, 15.I.2002, *De Block 1243* (BR, G, MO, P, TAN, WAG); Ankarana, near Campement des Anglais, 12°54'S 49°08'E, 150 m, 29.I.1994, *Leeuwenberg 14340* (MO, TAN); Ankarana RS, 12°51'S 49°04'E, 100-200 m, 22-26.XI.1992, *Malcomber et al. 1904* (K, MO, P); Andranovondronina, Antsisikala, forêt d'Analabe, 12°11'49"S 49°11'51"E, 184 m, 11.XII.2005, *Randrianaivo et al. 1330* (CNARP, MO, P, TAN); Mosorolava, Ampombiantambo, 12°41'24"S 48°56'59"E, 75 m, 27.IX.2007, *Ratovoson et al. 1361* (CNARP, G, MO, P, TAN); Ankarana, [12°49'S 49°01'E], 11.III.1954, *Service Forestier 9387* (MO, TEF).