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**Artikel:** A taxonomic revision of the genus Noronhia Stadtm. ex Thouars (Oleaceae) in Madagascar and the Comoro Islands

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**Kapitel:** 14: Noronhia cochleata

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**14. *Noronhia cochleata*** Labat, M. Pignal & O. Pascal in Novon 9: 66. 1999 (Fig. 7C).

**Typus:** MAYOTTE: Mlima Combani, [12°50'S 45°10'E], 28.XII.1995, Pascal 281 (holo-: P [P00075025]!; iso-: K [K000691509] image seen, MO-5203140!, P [P00075026, P00075027]!).

**Description** Trees to 15 m tall, trunk to 15 cm diameter; young twigs cylindrical, 0.6-2.3 mm diameter, glabrous; bark medium gray, smooth. Leaves opposite, persistent; bud scales deciduous; blades medium green above, lighter below, oblong to elliptic, 6-12 × 2-4 cm, chartaceous, glabrous, domatia common, base acute to attenuate, margin flat to slightly undulate, apex acuminate, the acumen 6-15 mm long, midrib flat to slightly sunken above, raised below, secondary veins conspicuous, 8-13 per side, 4-18 mm apart, looping 1.5-4 mm from the margin; petiole yellow, 5-12 × 0.7-2.4 mm, not woody or only partially, glabrous. Thyrses geminate to fasciculate, pauciflorous, diffuse; peduncle 6-8 mm long, moderately pubescent; pedicel 1.5-9 mm long, moderately pubescent; calyx moderately pubescent outside, glabrous inside, lobes deltate, 0.5-1.2 × 0.8-1.4 mm; corolla pinkish outside, white inside, cupuliform to subrotate, 3-5.5 mm long, glabrous on both sides, the tube 1-3 mm long, lobes oblong to ovate, apex apiculate; corona present, 1-1.5 mm long, undivided; stamens 1.2-2 mm long, anthers oblong, 0.9-1.3 mm long; pistil 1.3-2 mm long, stigma capitate. Fruiting pedicel 3-10 × 0.8-1.2 mm; young fruits green, purplish black when mature, ovoid, 14-17 × 8-11 mm, surface smooth, covered with white dots, apex rostellate, the rostellum circular, rounded, with the persistent style; dry pericarp 0.3-0.5 mm thick; endocarp woody; seed 11.5-12 × 5-6 mm.

**Distribution, ecology and phenology** *Noronhia cochleata* occurs in low- to mid-elevation humid forests on Mayotte in the Comoro Islands (Fig. 9). It produces flowers and fruits from September to April.

**Conservation status** The assessment was based on 15 collections representing 13 localities and indicated an EOO of just 161 km<sup>2</sup>, an AOO of 40 km<sup>2</sup>, and five subpopulations representing five locations, of which four are encompassed within protected areas (Réserves forestières de Benara, des Crêtes du Sud, de Majimbini et de Songoro Mbili). Subpopulations of *N. cochleata* will likely experience continuing decline in habitat quality and habit loss due to land conversion, therefore the species is assigned a preliminary status of “Endangered” [EN B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)].

**Notes** *Noronhia cochleata* can be recognized by its non-woody petioles, oblong to elliptic leaf blades bearing domatia, diffuse inflorescences and distinctly rostellate fruits. It differs mostly from *N. comorensis* by its non-woody (vs. woody) petioles, thyrsoid inflorescences (vs. fasciculate flowers), and pinkish-white (vs. yellow tinged reddish) corolla.

**Additional specimens examined**

**MAYOTTE:** Grande Terre, Chiconi, réserve forestière de Sohoa, 21.XII.2000, *Barthelat* 148 (G, K, MO, P); Mamoudzou, Ilot Bouzi, 14.III.2001, *Barthelat* 327 (G, K, MO, P); Bandrele, Contreforts du Choungui kely, 17.IX.2001, *Barthelat* 503 (G, K, MO, P); Mamoudzou, La Convalescence, Réserve forestière de Majimbini, 12.I.2002, *Barthelat* 684 (G, K, MO, P); *ibid. loc.*, Mlima M'Tsapéré, 12°46'10"S 45°11'26"E, 300-400 m, 19.XI.2000, *Labat* 3258 (B, G, K, MO, P, WAG); Combani, base du Mlima Combani, 12°48'27"S 45°09'13"E, 20.XI.2000, *Labat* 3261 (K, MO, P); Réserve forestière du Benara, sommet du Bepilipli, 12°52'46"S 45°09'19"E, 550 m, 29.XI.2000, *Labat* 3308 (BR, G, K, MO, P); Sommet du Mlima Choungi, 12°57'20"S 45°07'55"E, 500-640 m, 1.XII.2000, *Labat* 3339 (G, K, MO, P, PRE); Shungui, 13.XI.1990, *Ménager* 15 (MO, P); Mlima Choungi, [12°57'S 45°07'E], 16.XI.1995, *Pascal* 205 (G, K, MO, P, WAG); Sohoa, 30.XI.1995, *Pascal* 257 (MO, P); *ibid. loc.*, 12°50'S 45°08'E, 160 m, 14.III.1996, *Pascal* 418 (MO, P); Dapani, 150 m, 7.I.1997, *Pascal* 857 (K, MO, WAG); Sazile Be, 12°58'39"S 45°12'01"E, 116.IV.1999, *Pignal* 1112 (MO, P).