

# Abrahamia elongata

Objektyp: **Chapter**

Zeitschrift: **Boissiera : mémoires de botanique systématique**

Band (Jahr): **71 (2017)**

PDF erstellt am: **21.07.2024**

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**10. *Abrahamia elongata*** Randrian. & Lowry, **spec. nova** (Fig. 9, 10A).

**Typus:** MADAGASCAR. **Prov. Toamasina:** Rég. Analanjirofo, Maroantsetra, Nosy Mangabe, 15°30'S 49°46'E, 0-330 m, 28.IX-5.X.1989, fl., *Schatz 2770* (holo-: MO-3759750!; iso-: K, P [P06169108]!, TAN [TAN001988]!, WAG [WAG1435428] image seen).

**Diagnosis** *Abrahamia elongata* Randrian. & Lowry can be distinguished from its congeners by its oblanceolate or narrowly elliptic leaves that are 8.5-26.5 × 2.5-6.5 cm, combined with very pronounced secondary and tertiary veins, long petiole (1.5-3 cm), and a relatively large and glabrous fruits (2-4 × 1-1.5 cm).

**Description** Trees 4-25 m tall, 10-15 cm DBH, bark with white milky latex; young twigs waxy or lanate to pubescent at the tips. Leaves alternate; blades oblanceolate to narrowly elliptic, 8.5-26.5 × 2.5-6.5 cm, coriaceous, apex emarginate, rounded, shortly acuminate or sometimes acuminate, margin entire, base acute to cuneate, adaxial surface glabrous or with short appressed indument, abaxial surface sericeous to glabrescent, venation craspedodromous, midvein prominent abaxially, secondary veins 25-50 pairs, more or less parallel, 1.5-10 mm apart, very prominent abaxially, tertiary veins raised on both surfaces; petiole 15-30 mm long, canaliculate on adaxial surface, with short, appressed indument when young, later glabrescent or glabrous. Inflorescence axillary, a panicle, 1.5-6 cm long, the branches regular, pubescent or tomentose. Male and female flowers 5-merous; pedicel 0.1-0.3 mm long, pubescent; calyx lobes shallowly deltate to shallowly triangular, c. 1 × 1.2-1.5 mm, adaxial surface glabrous, abaxial surface pubescent, slightly imbricate in male flowers, valvate in female flowers, persistent in fruit; corolla lobes ovate, 2.5-3 × 1.5 mm, imbricate, adaxial surface glabrous, abaxial surface pubescent, white or pale yellow; stamens 5. Male flowers with filaments 1.5-2 mm long, glabrous, white, anthers 1 mm long, obloid to slightly ovoid, yellow, glabrous; disk c. 1 mm in diam., glabrous; ovary rudimentary. Female flowers with filaments c. 1 mm long, glabrous, white, anthers 0.3-0.5 mm long, ovoid, sterile, yellow, glabrous; disk annular, cupuliform, c. 1.5-2 mm in diam., glabrous; ovary very widely ovoid or obovoid, slightly asymmetrical, 1.5-2 × 1.5-1.8 mm, glabrous, placentation subapical; style unbranched, latero-subapically inserted, c. 1 mm long, stigmas capitate, glabrous. Fruits 2-4 × 1-1.5 cm, ellipsoid or slightly asymmetrical, glabrous, with longitudinal striations.

**Vernacular names** “Ditimena”, “Hazombarorana”, “Tarantana”.

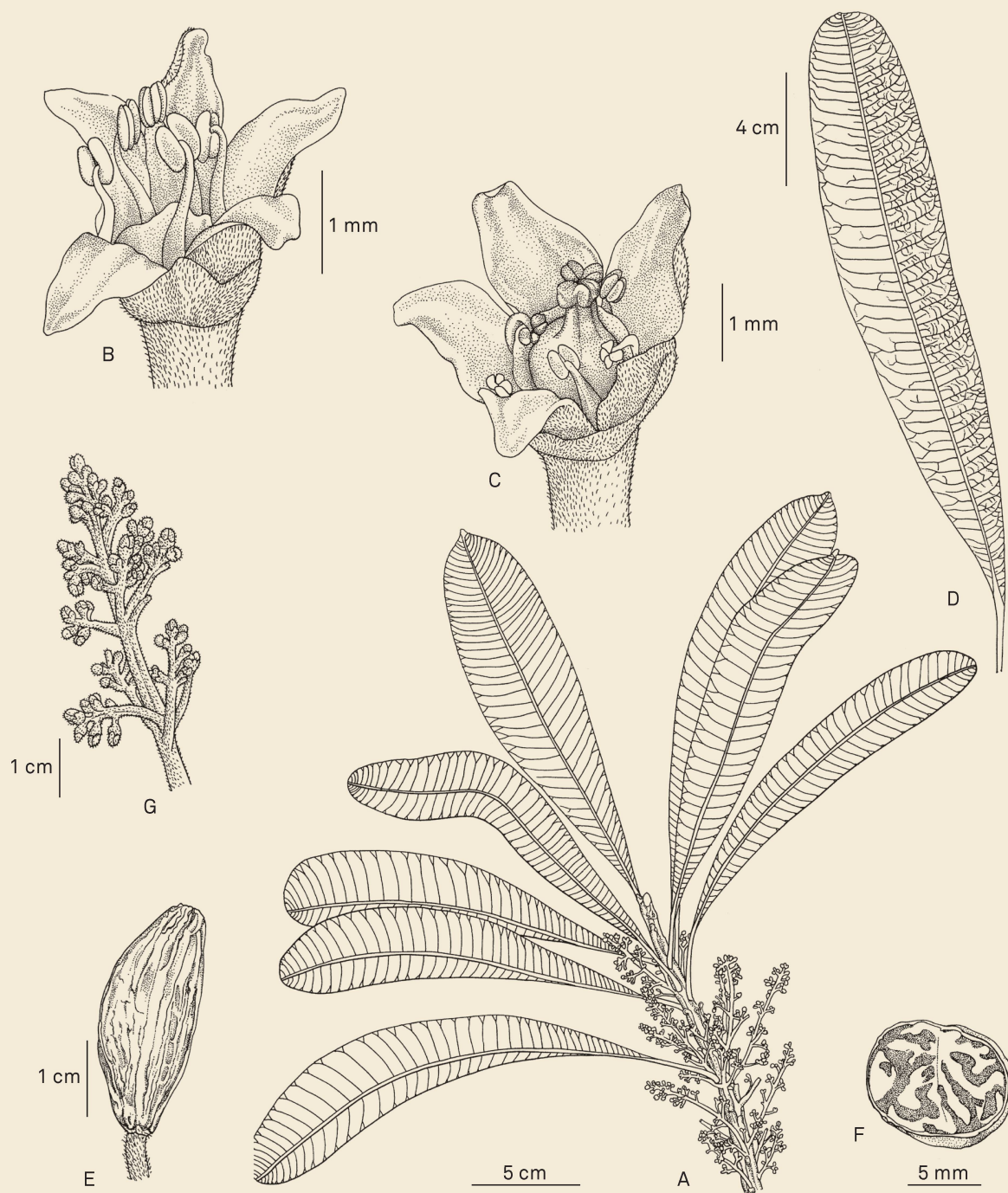
**Distribution, ecology and phenology** *Abrahamia elongata* occurs from eastern coastal littoral forest on sand to premontane forests on laterite up to elevations of 900 m, and extends from Marojejy and near Ambilobe in the north to Manombo in the south (Map 2). It flowers between September and November, and fruits in November and December.

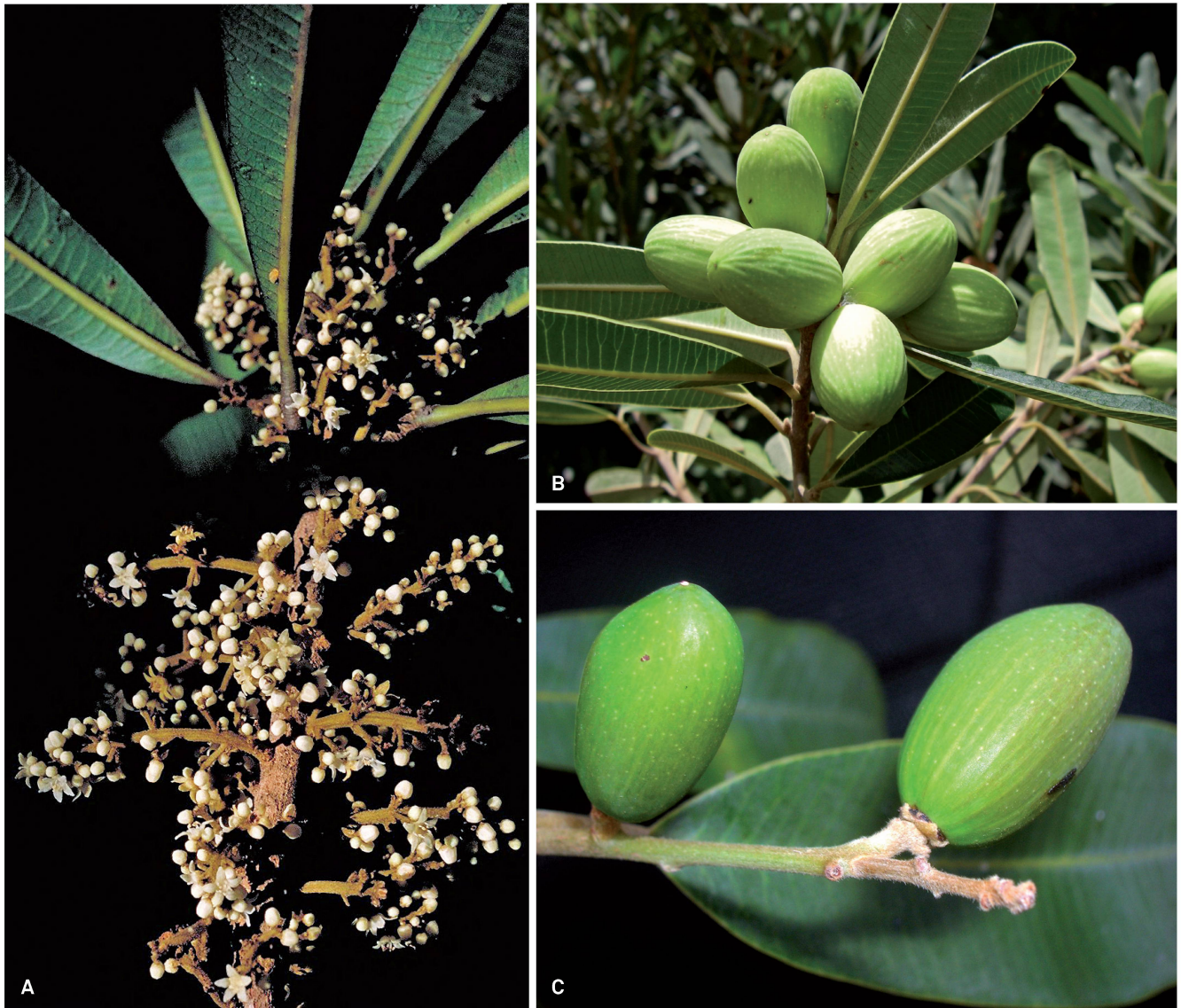
**Conservation status** With an EOO of 147,171 km<sup>2</sup>, an AOO of 120 km<sup>2</sup>, and 32 recorded localities, many of which occur within protected areas (Ambalabe, Anjanaharibe-Sud, Betampona, Manombo, Marojejy, Masoala, Nosy Mangabe, and Zahamena), *A. elongata* is assigned a preliminary conservation assessment of “Least Concern” [LC] using the IUCN Red List Categories and Criteria (IUCN, 2012).

**Notes** *Abrahamia elongata* most closely resembles *A. latifolia*, with which it shares large leaves with many secondary veins and exclusively axillary inflorescences. However, *A. elongata* differs by its coriaceous (vs subcoriaceous) leaves with craspedodromous (vs semi-craspedodromous) venation, and its longer petiole (15-30 vs 10 mm). It also resembles *A. sambiranensis* vegetatively, but differs by having leaves with evident, raised tertiary veins on both surfaces (vs lacking in *A. sambiranensis*) and whose apex is flat in pressed material (vs folded), and by its fruits that are glabrous (vs pubescent when young and glabrescent at maturity in *A. sambiranensis*).

**Paratypi** **MADAGASCAR. Prov. Antsiranana:** Sambava, forêt de Tsihomanaomby, 14°06'08"S 50°02'50"E, 103 m, 15.II.2006, ster., *Andrianjafy* 1582 (MO, P, TAN); Marojejy PN, campement 1, 14°26'13"S 49°46'32"E, 460 m, 12.X.1996, y. fr., *Rakotomalaza et al.* 752 (MO, P, TAN); Andapa, Anjanaharibe-Sud RS, [14°36'S 49°27'E], 3-7. XII.1996, fr., *Ravelonarivo et al.* 1052 (MO, P, TAN); Antalaha, forêt Ampohafana, [14°48'30"S 49°51'30"E], 9.IX.1955, fl., *Service Forestier* 15064 (P [2 sheets], TEF); Andapa, Andilandrano, [14°45'S 49°34'E], 12.XII.1964, fr., *Service Forestier* 25019 (G, MO, NY, P, TEF); S de Sambava, [14°18'S 50°11'E], 30.XI-1.XII.1966, fr., *Service Forestier* 27110 (P, TEF); Vohémar, Fanambana, 22.XII.1954, ster., *Service Forestier* 54-R-151 (P). **Prov. Fianarantsoa:** forêt de Manombo, S de Farafangana, [23°02'10"S 47°44'50"E], 17.X.1964, fl., *Service Forestier* 23654 (P, TEF); forêt entre Manakara et Vohipeno (PK 30), [22°22'S 47°51'E], 21.X.1964, y. fr., *Service Forestier* 23696 (P, TEF). **Prov. Toamasina:** Manompana, forêt d'Antanambao-Ambodimanga, 16°45'38"S 49°42'22"E, 7 m, 5.X.2003, fr., *Andrianarivelo* 30 (G, MO, P, TEF); Maroantsetra, Ambatoledama forest, 15°17'S 50°00'E, VI.2003, y. fr., *Antilahimena* 1996 (G, K, MO, NY, P, TAN); Rantabe, Behovana, 15°47'48"S 49°32'10"E, 815 m, 31.X.2003, fr., *Antilahimena* 2251 (G, K, MO, P, TAN); Antsirabe, Sahatany, Anjiakely, 15°24'19"S 49°30'28"E, 360 m, 27.VI.2004, fr., *Antilahimena* 2579 (G, K, MO, P, TAN); Nosy Mangabe, 15°29'S 49°45'E, 10 m, 18-26. IV.1990, ster., *Carlson* 126 (MO); *ibid. loco*, *Carlson* 150 (MO); *ibid. loco*, *Carlson* 188 (MO); Sahalampy (Onibe), [17°50'S 48°25'E], 700 m, XI.1938, fl., *Cours* 1160 (MO, P); Mananara, 1.IX.1920, fl., *Decary* 59 (P, TAN); Soanierana-Ivongo, forêt d'Antanambao-Ambodimanga, 16°45'40"S 49°42'35"E, s.d., fr., *Rabehivohitra* 4354 (MO, P, TAN, TEF); Sainte Marie, forêt d'Ambohidena, 16°51'11"S 49°57'10"E, 10 m, 14.V.2003, ster., *Rabenantoandro* 1480J (MO); Fénériver-Est, Tampolo station forestière, 17°17'S 49°23'E, 10 m, 11.X.1999, ster., *A. Randrianasolo* 596 (MO); Vatomandry, Ambalabe, Ambinanindrano II, 19°09'38"S 48°35'02"E, 600 m, 9.X.2005, fl., *A. Randrianasolo et al.* 1045 (MO, NY, P, TAN); *ibid. loco*, 19°09'01"S 48°34'55"E,

604 m, 6.X.2009, fl., *A. Randrianasolo 1182* (G, K, MO, NY, P, TAN); *ibid. loco*, 19°09'39"S 48°36"E, 568 m, 7.X.2005, ster., *Razanatsima et al. 38* (MO, P, TAN); Farankaraina, s.d., fl., *Réserves Naturelles 65* (P); Zahamena NP, Imerimandroso, [17°30'S 48°38'E], 16.IX.1951, fl., *Réserves Naturelles 3171* (P, TAN); Marojejy PN, [14°18'S 49°33'E], 15.IX.1956, fl., *Réserves Naturelles 8265* (G, MO, P); Nosy Mangabe, 15°30'S 49°46'E, 0-330 m, 28.IX-5.X.1989, fl., *Schatz 2757* (MO, P, TAN); Soanierana-Ivongo, [16°54'30"S 49°35'00"E], 27.XII.1949, y. fr., *Service Forestier 2361* (P, TAN, TEF); Farankaraina station forestière, [15°25'S 49°52'E], 26.IX.1952, fl., *Service Forestier 6154* (G, MO, P [3 sheets], TEF); Betampona RNI, près d'Ambohiriana, [17°55'S 49°13'E], 6.XI.1953, fl., *Service Forestier 8600* (MO, P, TEF); massif de l'Ambohitsitondroina de Mahalevona (NW de la presqu'île Masoala), [15°25'S 49°58'E], c. 500 m, 30.XI.1953, fr., *Service Forestier 8678* (G, MO, NY, P, TEF); Brickaville, Sahamamy, Anivorano, [18°33'S 48°58'E], s.d., ster., *Service Forestier 10884* (P, TEF); Farankaraina station forestière, [15°25'S 49°52'E], 11.X.1955, fl. & y. fr., *Service Forestier 15361* (MO, P [3 sheets], TEF); PK 154, quelques km S de Soanierana-Ivongo, [17°00'S 49°32'E], 2.IX.1957, fl., *Service Forestier 18182* (P [2 sheets], TEF); Baie d'Antongil, NW de l'embouchure de la Rantabe, [15°40'30"S 49°38'30"E], 50-150 m, 12.IX.1957, fl., *Service Forestier 18262* (MO, TEF); Farankaraina, [15°25'S 49°52'E], 28.IX.1963, fl., *Service Forestier 21392* (G, MO, P [2 sheets], TEF); Tampolo, [17°17'00"S 49°23'30"E], 26.XI.1962, fr., *Service Forestier 22121* (G, K, MO, NY, P [3 sheets], TEF, WAG); Tamatave, Tanambao-Tamboro, 17.XII.1954, ster., *Service Forestier 9-R-195* (P); Lohan'i Sahatenany, N de Beanana, 2.II.1952, ster., *Service Forestier 29-R-139* (P); Maroantsetra, Farankaraina, [15°25'S 49°52'E], 13.VIII.1952, ster., *Service Forestier 44-R-139* (P); *ibid. loco*, 27.XII.1952, ster., *Service Forestier 127-R-199* (P); Tampolo, Fénériver Est, 13.I.1951, ster., *Service Forestier 16-R-7* (P, TEF); *ibid. loco*, *Service Forestier 323-R-107* (P, TEF); Masoala Peninsula, S of Ambanizana, 15°40'24"S 49°57'51"E, 110-260 m, 25.X.1994, ster., *Vasey et al. 55* (MO, P, TAN).

**Fig. 9.***Abrahamia elongata* Randrian. & Lowry.**A.** Flowering branch; **B.** Detail of male flower; **C.** Detail of female flower; **D.** Leaf; **E.** Fruit; **F.** Cross section of fruit; **G.** Portion of inflorescence in bud.[A-D, G: *Schatz* 2770, M0; E-F: *Service Forestier* 27110, M0] Drawings: B. Alongi



**Fig. 10.** *Abrahamia elongata* Randrian. & Lowry (**A**) and *A. grandidieri* (Engl.) Randrian. & Lowry (**B-C**). **A.** Inflorescences with open flowers [Schatz 2770]; **B.** Detail of secondary venation seen from leaf lower surface and fruits, from side [Randrianaivo 1716]; **C.** Detail of fruits [Randriatsivery 295].

Photos: A: G. Schatz; B: F. Ratovoson; C: M. Randriatsivery