

Abrahamia phillipsonii

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27. *Abrahamia phillipsonii* Randrian. & Lowry, spec. nova (Fig. 23-24).

Typus: MADAGASCAR. Prov. Toliara: Rég. Androy, Andohahela PN, parcelle 2, 24°50'S 46°32'E, 100 m, 7.XII.1988, fr., Phillipson 2853 (holo-: MO-3767006!; iso-: K, P [P06775412]!, TAN [TAN001997]!, US-3661611 image seen, WAG [WAG1523550] image seen).

Diagnosis *Abrahamia phillipsonii* Randrian. & Lowry most closely resembles *A. lenticellata*, with which its range overlaps, but can be easily distinguished by its craspedodromous (vs semicraspedodromous) venation, flowers borne in thyrses (vs panicles), and glabrous (vs velutinous) fruits.

Description Trees 3-12(-20) m tall, 12-30 cm DBH, bark with white latex; young twigs glabrous or pubescent (sometimes ferruginous). Leaves alternate or subopposite; blades oblanceolate to obovate or narrowly elliptic to narrowly oblong, 2.6-7.8 × 0.6-2(-2.2) cm, chartaceous to subcoriaceous, apex emarginate, retuse or rounded, sometimes acute, margin entire, base acute or cuneate, adaxial surface glabrous, very often waxy, abaxial surface with very sparse indument, slightly more appressed on the midvein, nearly glabrous otherwise, venation craspedodromous, midvein prominent abaxially, secondary veins 11-19 (-23) pairs, prominent abaxially, 1-5 mm apart, tertiary veins rarely visible on both surfaces; petiole c. 0.5-10 mm long, glabrous, canaliculate on adaxial surface. Inflorescence axillary or terminal, a thyrsse, 1.5-5.5 cm long, the axes flattened, with short, appressed, ferruginous or reddish indument. Male flowers 5-merous; calyx lobes widely depressed ovate to depressed ovate or triangular, 0.8-1 × 1-1.5 mm, valvate, glabrous, persistent on fruits; corolla lobes ovate, 2-2.2 × 1-1.5 mm, imbricate, glabrous, stamens 5, filaments c. 1.5 mm long, white, glabrous, anthers 0.8-1 mm long, ovoid to subglobose, yellow, glabrous; disk 1-1.2 mm in diam., glabrous; ovary rudimentary. Female flowers unknown. Fruits 1.5-2 × 1-1.3 cm, obovoid to ellipsoid, glabrous, with longitudinal striations.

Etymology The species epithet honors our friend and colleague Peter. B. Phillipson, whose work has contributed so much to our knowledge of the Malagasy flora, including that of the drier parts of the island, where he has conducted most of his field work over the last three decades.

Vernacular names “Manantsadrano”, “Tarantantly”, “Tsitaké”.

Distribution, ecology and phenology *Abrahamia phillipsonii* is restricted to sub-arid southern Madagascar (Map 8), where it occurs at elevations between 100 and 1100 m. Flowering material has been collected between September and November, and fruits have been gathered from December through February. However, in drought years flowering can be delayed, which accounts for the limited number of collection with flowers gathered in March and April.



Fig. 23.

Abrahamia phillipsonii Randrian. & Lowry.

A. Flowering branch; **B.** Inflorescence; **C.** Detail of male flower; **D.** Fruit.

[A-C: Service Forestier 8523bis, MO; D: Phillipson 2853, MO] Drawings: R.L. Andriamiarisoa

Conservation status	With an EOO of 64,857 km ² , a minimum AOO of 112 km ² , and 29 recorded localities, with subpopulations in 4 protected areas (Analavelona, Andohahela, Isalo, and Zombitsy), <i>A. phillipsonii</i> is assigned a preliminary conservation status of “Least Concern” [LC] using the IUCN Red List Categories and Criteria (IUCN, 2012).
Notes	<i>Abrahamia phillipsonii</i> vegetatively most closely resembles <i>A. deflexa</i> , but it differs by its oblanceolate to obovate, narrowly elliptic to narrowly oblong (vs ovate, oblong or elliptic) leaf blades and its axillary or terminal (vs only terminal) inflorescence.
Paratypi	MADAGASCAR. Prov. Fianarantsoa: Ihosy, Analalava forest, 2-3 km W of western boundary of Isalo PN, [22°35'38"S 45°08'20"E], 770 m, 18.V.2004, fr., Rogers et al. 456 (G, K, MO, P, TAN); massif de l'Isalo, [22°08'S 45°10'E], 20.XII.1968, fr., Service Forestier 28504 (P, TEF); Ranohira, PK 712, [22°38'S 45°20'E], 23.VII.1955, ster., Service Forestier 13889 (MO, P, TEF); Isalo, 20.VII.1954, ster., Service Forestier 135-R-141 (P); Isalo, Benenitra, 8.VIII.1954, ster., Service Forestier 180-R-18 (P); Isalo, Ranohira, 23.VII.1955, ster., Service Forestier 288-R-239 (P); Ihosy, 30.X.1953, ster., Service Forestier 777-R-1 (P). Prov. Toliara: Tolagnaro, Andohahela PN, N du mont Apiky, [24°47'02"S 46°43'12"E], 708 m, 18.I.2007, fr., <i>Andriamihajarivo</i> 1156 (MO, P, TAN, TEF); Amboasary, fourré d'Ambatofotsy Masay, 24°18'16"S 46°08'00"E, 350 m, 11.XI.2008, fr., <i>Andriamihajarivo</i> et al. 1574 (G, MO, P, TAN); Sakaraha, forêt de Zombitsy, [22°48'S 44°41'E], XII.1959, fr., <i>Bosser</i> 13402 (MO, P [2 sheets], TAN); Andohahela PN, parcelle 3, [25°00'S 46°40'E], 17.XI.1990, fr., <i>Dumetz</i> 1413 (MO, P, TAN); vallée de Fiherenana, 300-500 m, 1-2.VIII.1928, fr., <i>Humbert & Swingle</i> 5063 (= Service Forestier 50) (P); Betroka, Mont Vohipolaka, 1200-1400 m, XI.1933, ster., <i>Humbert</i> 11694ter (P, TAN); Amboasary, entre Andohahela et l'Elakelaka, [24°45'S 46°43'E], 700 m, I-II.1934, fr., <i>Humbert</i> 13770 (P); entre Andohahela et l'Elakelaka, mont Apiky, [24°45'30"S 46°43'30"E], 800-900 m, I-II.1934, fr., <i>Humbert</i> 13850 (G, P [2 sheets]); Beroroha, bassin de la Malio, [21°58'S 45°15'E], 400-450 m, 23-27.XI.1946, bud, <i>Humbert</i> 19403 (P); forêt de Zombitsy, [22°48'S 44°41'E], 600-850 m, 26-29.III.1955, fl. & bud, <i>Humbert</i> 29595 (G, MO [2 sheets], P); Beronono-Makay, 21°18'48"S 45°08'55"E, 531 m, 16.I.2010, fr., <i>Rakotovao</i> et al. 5117 (MO, P, TAN); PN Andohahela, Isaka Ivondro, 24°48'S 46°52'E, 100-500 m, 16-24.III.1993, <i>Randriamampionona</i> 202 (G, MO, P, TAN); PN Andohahela, parcel 3, 25°04'S 46°41'E, 100-300 m, 8-10.IV.1993, y. fr., <i>Randriamampionona</i> 285 (G, MO, P, TAN); Andohahela PN, parcel 1, Tsimelahy, 24°50'20"S 46°32'17"E, 6.IV.1996, ster., <i>Randriamampionona</i> 1259 (MO, TAN); Sakaraha, Mahaboboka, Ambinanaintelo, forêt d'Analavelona, 22°41'14"S 44°09'32"E, 961 m, 3.XII.2016, fr., <i>Randrianarivony</i> et al. 745 (MO, P, TAN); PN Andohahela, parcelle n° 3, [25°04'S 46°41 E], 100-300 m, 19.X.1990, fl., <i>A. Randrianasolo</i> 181 (MO [2 sheets], P, TAN, TEF); Sakaraha, at start of Kinanamboribory valley, 22°39'44"S 44°11'02"E, 1208 m, 8.XII.2009, fr., <i>A. Randrianasolo</i> 1246 (G, MO, P, TAN); Ambatoabo, 5 km N d'Imonty, 24°46'44"S 46°42'56"E, 500 m, 25.XI.2009, fr., <i>Ratovoson</i> 1534 (G, K, MO, P, TAN); Betorabato, Abotorabatorano, 21°34'04"S 45°34'34"E, 296 m, 13.I.2011, fr., <i>Razakamalala</i> 6000 (G, MO, P, TAN); Ankomaka, [22°36'S 44°02'E], 26.I.1952, fr., Service Forestier 4556 (P, TEF); forêt de

Zombitsy, [22°46'S 44°42'E], 24.IV.1953, fl., Service Forestier 7757 (P, TEF); env. de Tsimela, S d'Ambatoabo, [24°56'S 46°38'E], 28.IX.1953, fl., Service Forestier 8523bis (G, NY, MO, P, TEF); forêt de Zombitsy, [22°46'30"S 44°38'00"E], III.1931, fl., Service Forestier 11931 (G, MO, P); Analavelona, [22°40'S 44°10'E], 25.XI.1954, fr., Service Forestier 12089 (P, TEF); *ibid. loco*, 28.XI.1954, fr., Service Forestier 12140 (P, TEF); Betsioky, vallée Sakamarakely, [22°11'S 45°10'E], 14.XI.1954, fr., Service Forestier 12362 (P); Zombitsy, [22°46'S 44°42'E], 7.XI.1954, fl., Service Forestier 12428 (P [2 sheets], TEF); Ambovombe, Beanantara, [25°03'30"S 46°12'30"E], 17.IX.1955, fl., Service Forestier 15656 (P, TEF); Ampolitsy, Beroroha, [21°40'30"S 45°10'E], 16.IV.1956, y. fr., Service Forestier 15800 (P, TEF); Amboasary, bush entre Bevilany et Ranomainty, [25°00'S 46°34'E], 1.XII.1961, fr., Service Forestier 20481 (P [2 sheets], TEF); crête du massif de l'Angavo, [24°50'30"S 45°48'00"E], c. 500 m, 21.I.1963, fr., Service Forestier 22487 (P, TEF); Zombitse, Andranolava, 13.V.1954, ster., Service Forestier 27-R-224 (P); Kitrange, Ihosy, 25.VIII.1955, ster., Service Forestier 43-R-230 (P); Analavelona, 7.IV.1954, ster., Service Forestier 76-R-18 (P); forêt de Zombitsy, 26.II.1955, ster., Service Forestier 86-R-161 (P); forêt d'Ihera, 25.IV.1955, ster., Service Forestier 104-R-161 (P); *ibid. loco*, 9.IV.1954, ster., Service Forestier 108-R-18 (P); Bejangoa, Ankazoabo, 25.V.1954, ster., Service Forestier 112-R-13 (P); env. d'Ampandrandava (entre Bekily et Tsivory), [24°05'S 45°42'E], 1100 m, XI.1942, fl., Seyrig 265 (P [2 sheets]); *ibid. loco*, Seyrig 265B (MO, P).



Fig. 24.

Abrahamia phillipsonii Randrian. & Lowry. Fruits [Ratovoson et al. 1534]. Photo: F. Ratovoson