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20. *Abrahamia longipetiolata* Randrian. & Lowry, **spec. nova** (Fig. 17-18).

Typus: MADAGASCAR. **Prov. Antsiranana:** Rég. Diana, commune Mahavonona, Montagne des Français, campement Ampitiantambo, 12°23'13"S 49°22'53"E, 239 m, 11.IX.2004, bud & fl., *Randriambololomamonjy* 7 (holo-: MO-6278643!; iso-: P [P04800624]!, TAN [TAN001993]!).

Diagnosis *Abrahamia longipetiolata* Randrian. & Lowry can be distinguished from other members of the genus by the combination of its strikingly long petiole (15-30 mm) and small leaves (6-11 × 1.5-3 cm) with impressed secondary veins on the adaxial surface.

Description *Trees* c. 7-25 m tall, 19-60 cm DBH, bark with white latex. *Leaves* alternate, sometimes sub-opposite; blade narrowly elliptic to narrowly oblong, 6-11 × 1.5-3 cm, chartaceous to subcoriaceous, discolorous (glaucous above), apex acute and retuse, margin slightly revolute, base broadly cuneate, sometimes slightly asymmetric, adaxial surface glabrous, abaxial surface with appressed sericeous indument along the midvein, especially towards the base, venation craspedodromous, midvein prominent below, secondary veins 25-35 pairs, more or less parallel, 2-4 mm apart, impressed above, barely raised below, forming a wide angle with the midvein, tertiary veins very few, barely visible; petiole 15-30 mm long, 1-2 mm in diam., canaliculate on adaxial surface, strigose. *Inflorescence* terminal, a panicle, branched, 9 cm long, axes pubescent; bracts triangular, 1-2.5 × 0.5-1 mm, adaxial surface glabrous, abaxial surface pubescent. *Male and female flowers* 5-merous, small, 3-4 mm long; pedicel c. 1 mm long, pubescent; calyx lobes 1-1.1 mm, ovate, valvate, adaxial surface glabrous, abaxial surface pubescent; corolla lobes ovate, 3-4 × 1.5-2 mm, imbricate, adaxial surface glabrous, abaxial surface sparsely pubescent (much less so than calyx); stamens 5 (rarely 6). *Male flowers* with filaments c. 1-1.2 mm long, glabrous, anthers 1.1-1.2 × 1 mm, ovoid, yellow, glabrous; disk c. 1.5-2 mm in diam., cupuliform, glabrous; ovary rudimentary. *Female flowers* with 5 staminodes, sometimes 6, filaments c. 1 mm long, glabrous, anthers 1 × 0.5 mm, ovoid, sterile, yellow, glabrous; disk c. 2-2.5 mm in diam., glabrous; ovary widely ovoid, 1-1.1 × 1.1-1.5 mm, glabrous; style short, c. 0.5 mm, stigmas capitate. *Fruits* 2.4-2.6 × 1.5-1.8 cm, asymmetrical, ellipsoid, glabrous, with weak longitudinal striations.

Distribution, ecology and phenology *Abrahamia longipetiolata* occurs in forests in far northeastern Madagascar (Map 7). Flowering material has been collected in August and September, and fruits have been recorded from October to December.

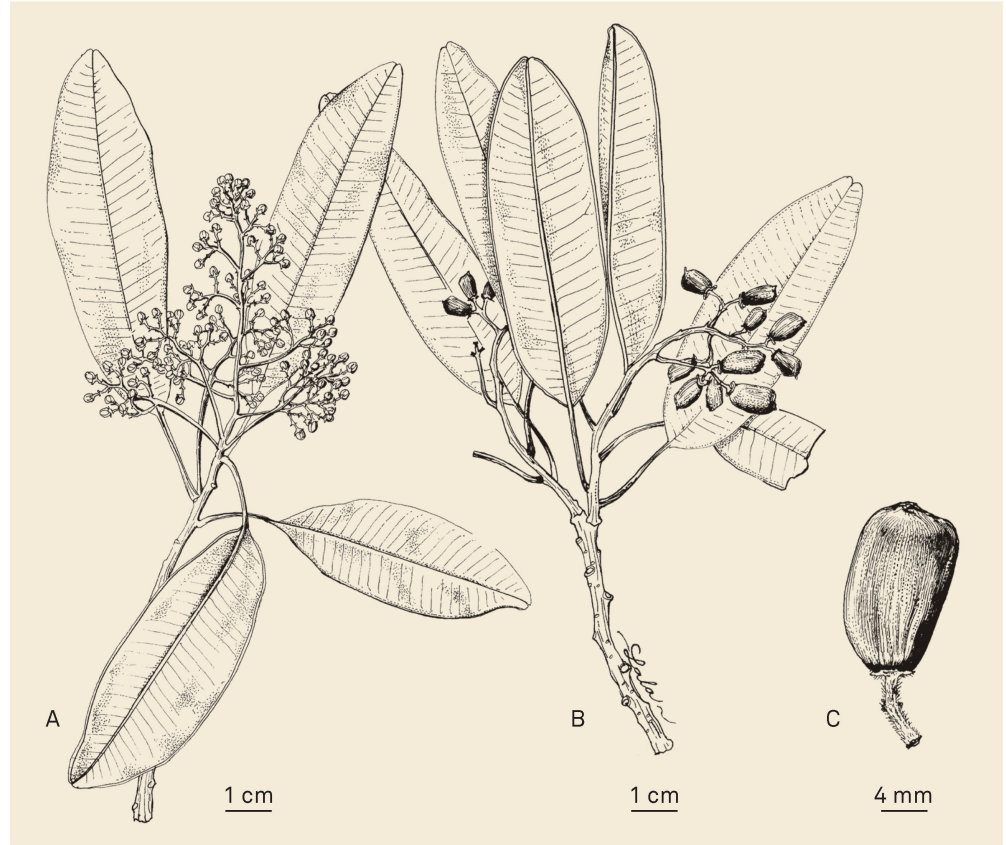
Conservation status With an EOO of 799 km², a minimum AOO of 20 km², and 6 localities, with subpopulations in only 2 protected areas (Loky Manambato and Montagne des Français), representing 5 locations, 3 of which are subjected to pressure from forest exploitation and

Fig. 17.

Abrahamia longipetiolata
Randrian. & Lowry.

A. Flowering branch;
B. Fruiting branch;
C. Fruit.

[A: *Randriambolomamonjy* 7, P;
B-C: *Randriambolomamonjy* 2, P]
Drawings: R.L. Andriamiarisoa



land clearing, *A. longipetiolata* is assigned a provisional conservation status of “Endangered” [EN B1ab(iii)+2ab(iii)] using the IUCN Red List Categories and Criteria (IUCN, 2012).

Notes *Abrahamia longipetiolata* resembles *A. ibityensis* by the impressed venation of its leaves, but differs by its larger leaves ($6-11 \times 1.5-3$ vs $3-7 \times 1.2-3$ cm), longer petiole (15-30 vs 5-7 mm), terminal paniculate (vs terminal or axillary thyrsiform) inflorescences, and fruit with united (vs separate) cotyledons.

Paratypes **MADAGASCAR. Prov. Antsiranana:** Vohémar, forêt d'Ambilondava, N du village de Daraina, $13^{\circ}10'S$ $49^{\circ}39'E$, 400 m, 25.X.2004, fr., *Callmander & Anselme Be* 268 (G, MO, P, TAN); Sadjoavato, forêt de Sahafary, $12^{\circ}35'17''S$ $49^{\circ}26'45''E$, 207 m, 15.X.2007, fl., *Rakotoarivelo* 172 (CNARP, G, MO, P, TAN); Mahavonona, Montagne des Français, campement Ampitiantsambo, $12^{\circ}23'13''S$ $49^{\circ}22'53''E$, 239 m, 11.IX.2004, y. fr., *Randriambolomamonjy* 2 (G, MO, P [2 sheets], TAN); Andrafiabe, Sahafary, $12^{\circ}35'43''E$ $49^{\circ}26'54''E$, 233 m, 11.IX.2004, fl. & y. fr., *Razafitsalama et al.* 638 (CNARP, G, MO, P, TAN, TEF); *ibid. loco*, [$12^{\circ}34'S$ $49^{\circ}26'E$], 10.XII.1952, fr., *Service Forestier* 6287 (MO, P, TEF); *ibid. loco*, 9.IV.1953, ster., *Service Forestier* 216-R-6 (P); N de Vohémar, versant du Massif de l'Ankerana, [$13^{\circ}17'S$ $49^{\circ}51'E$], 50-450 m, 17.XII.1966, fr., *Service Forestier* 27359 (G, MO, P [2 sheets], TEF).



Fig. 18.
Abrahamia longipetiolata Randrian. & Lowry.
Inflorescence with buds and opened flowers, from side [Razafitsalama et al. 638].

Photo: L.J. Razafitsalama



Fig. 19.
Abrahamia louvelii
(H. Perrier)
Randrian. & Lowry.
A. Branch with fruits;
B. Fruits, from side.
[Rakotoarivelo
et al. 643].

Photos: N. Rakotoarivelo