

Abrahamia ibityensis

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13. *Abrahamia ibityensis* (H. Perrier) Randrian. & Lowry, **comb. nova** (Fig. 11C).

≡ *Protorhus ibityensis* H. Perrier in Mém. Mus. Natl. Hist. Nat. 18: 263. 1944.

Lectotypus (designated here): **Madagascar. Prov. Antananarivo:** Mont Ibity, quartzites, [20°07'S 47°01'E], c. 2000 m, IX.1921, fl., *Perrier de la Bâthie* 13976 (P [P00722649]!); isolecto-: P [P00722650, P00722651]!. **Syntypi:** **MADAGASCAR. Prov. Antananarivo:** Ibity, [20°07'S 47°01'E], 1900-2000 m, s.d., ster., *Perrier de la Bâthie* 5840 (P [P06169079]!); *ibid. loco*, c. 2000 m, III.1921, fr., *Perrier de la Bâthie* 13571 (P [P00722653, P00722654]!); *ibid. loco*, *Perrier de la Bâthie* 13571bis (P [P00722652]!). **Sine loco:** s.d., *Decary* 13085 "A" (P [P06169081]!).

Description

Shrubs 0.25-2 m tall, bark with white or translucent latex; young twigs glabrescent, with lenticels, waxy. *Leaves* alternate or subopposite; blades oblong to elliptic, 3-7 × 1.2-3 cm, subcoriaceous, apex retuse or emarginate, margin entire and slightly revolute, base cuneate to obtuse, adaxial surface glabrous, sometimes glossy, abaxial surface with scattered, appressed indument, more so along the midvein, venation craspedodromous, midvein prominent abaxially, secondary veins 15-30 pairs, visible, parallel, 0.5-2 mm apart, very slightly raised on both surface, tertiary veins impressed and very rarely visible on both surfaces; petiole 5-7 mm long, shallowly canaliculate on adaxial surface, pubescent when young, glabrescent. *Inflorescence* axillary or terminal, a thyrse, 1.5-3 cm long, pubescent. *Male and female flowers* 5-merous; pedicel c. 0.3-0.5 mm long, pubescent; calyx lobes ovate to deltate, 1.5-1.8 × 1.5-2 mm, imbricate, glabrous on both surfaces, margin sparsely ciliate; corolla lobes ovate, 2.5-3 × 1.5-2 mm, imbricate, glabrous, white; stamens 5. *Male flowers* with filaments 1-1.3 mm long, glabrous on both surfaces, white, anthers c. 1 mm long, ovoid or obloid, sterile, yellow, glabrous; disk dish-shaped, c. 2 mm in diam., glabrous; ovary rudimentary. *Female flowers* with filaments 1-1.5 mm long, glabrous, white, anthers 0.5 mm long, ovoid, yellow, glabrous; disk c. 1.5-2 mm in diam., glabrous; ovary very widely ovoid, 1 × 1 mm, glabrous, placentation parietal; style apical, shortly trifid, 0.5 mm long, glabrous, stigmas capitate. *Fruits* 1.5-1.8 × 1.5 cm, widely depressed-ovate, glabrous, with longitudinal striations, pyrenes with a few peripheral resiniferous canals, cotyledons separable.

Distribution, ecology and phenology

Abrahamia ibityensis is only known from Mt. Ibity and its surroundings, to the SW of the town of Antsirabe (Map 2), at elevations between 1500 and 2000 m, where it grows mostly on rocky soil in areas that are frequently subjected to fire. Flowers have been recorded in September and October, and fruiting material has been collected in February and March.

Conservation status With an EOO of 34 km², a minimum AOO of 28 km², and 9 known localities representing 7 locations, most of which are situated within a newly established protected area (Ibity) but are still subjected to fire and possible degradation leading to a projected decline in all quality of habitat, *A. ibityensis* is assigned a provisional conservation status of “Vulnerable” [VU B1ab(iii)+2ab(iii)] using the IUCN Red List Categories and Criteria (IUCN, 2012).

Notes *Abrahamia ibityensis* can be distinguished from all of its congeners by its oblong to elliptic leaves with inconspicuous tertiary venation and the presence of a few peripheral resiniferous canals in the seeds, which results in the two cotyledons being distinct and easily separable.

Among the syntypes of *Protorhus ibityensis*, we have selected *Perrier de la Bâthie* 13976 as the lectotype because it, along with the two isolectotypes, comprise more complete specimens than the other collections cited in the protologue (*Decary* 13085 “A”, *Perrier de la Bâthie* 5840, 13571, and 13571bis [incorrectly cited in the protologue as 1357bis]). We have added the letter “A” to the Decary specimen because this same number has been applied to a specimen of *Beilschmiedia microphylla* (Kosterm.) Kosterm. (*Lauraceae*) that bears an original label, whereas the label accompanying the syntype of *Protorhus ibityensis* was clearly prepared by someone else.

Additional material examined

Madagascar. Prov. Antananarivo: Antsirabe, Ibity (S), W of Ambohimanjaka, [20°15'S 47°03'E], 2000 m, 22.XII.1985, y. fr., *Dorr & Rakotozafy* 4528 (MO, NY, P, TAN); Ibity, 13.X.1970, fl., *Keraudren-Aymonin & Aymonin* 24565 (P); Ibity, Ambero, S end of Ambo-ropotsy, 20°10'17"S 47°02'07"E, 1700-1800 m, 23.II.2003, fr. & fl., *Koopman* 170 (MO, P, TAN); Ibity, 27 km S of Antsirabe, 20°05'S 47°10'E, 1500-2240 m, 13.X.1993, fl., *Lewis et al.* 741 (G, K, MO, NY, P, TAN); Ibity, 23 km E de la cimenterie, 20°04'40"S 47°00'10"E, 1830 m, 3.X.1996, fl., *Randrianaivo et al.* 6 (MO, P, TAN); *ibid. loco*, *Randrianaivo et al.* 9 (MO, P, TAN); Ibity, E of Alatsinainy Ibity village and the cement factory, 20°06'S 46°59'E, 1600 m, 2.X.1996, fl., *A. Randrianasolo* 485 (G, K, MO, P, TAN); *ibid. loco*, *A. Randrianasolo* 486 (MO, P, TAN); Ibity, Falirano, 20°04'24"S 47°00'10"E, 1470 m, 20.I.2003, fr., *Rogers et al.* 82 (G, MO, P, TAN); abords du sommet de l'Analabe, dans la chaîne d'Ampanandrianombilapa, S de l'Ibity, [20°05'43"S 47°00'14"E], 1900 m, 19.XI.1967, fr., *Service Forestier* 27394 (P, TEF). **Prov. Fianarantsoa:** Ambatofinanadrana, Itremo, E. du Mt. Ambatoandrano, 20°05'25"S 47°00'07"E, 1693 m, 1.XI.2001, fl., *Andriamihajarivo* 49 (MO, P, TAN).