NOTES ON TROPICAL ASIAN ASCLEPIADACEAE

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SUMMARY

Three new combinations in the genus *Bidaria* are made and a new variety, *Gymnema acuminatum* (Roxb.) Wall. var. *glabrum* Rahman & Wilcock is described from Bangladesh and Burma.

Bidaria montana (Roxb.) Rahman & Wilcock, comb. nov.

Asclepias montana Roxb., Fl. Ind. ed. 2, 2 (1832) 45. — Gymnema montanum (Roxb.) Hook. f., Fl. Brit. India 4 (1883) 31; T. Cooke, Fl. Pres. Bombay 2 (1904) 161; Santapau & Irani, Bot. Mem. Univ. Bombay 4 (1962) 48. — T y p e: India, mountainous tracts, Roxburgh s.n. (n.v.).

Distribution. India (W. Peninsula).

Note. The genus Bidaria (Endl.) Decne. [DC., Prod. 8 (1844) 623] is closely related to Gymnema and Hooker f. in his Fl. Brit. India 4 (1883) 31 included Bidaria in it. H. Huber in Abeywick., Rev. Handb. Fl. Ceylon 1 (1973) 47, reinstated this genus and clearly pointed out the generic distinctions. Bidaria can easily be distinguished from Gymnema by its solitary umbel-like cymes at the nodes, bifarious pubescence of the internodes, salver-shaped corolla and reduced coronal scales on the corolla-tube. An examination of Gymnema montanum (Roxb.) Hook. f. shows that it should be referred to Bidaria. The genus Bidaria (Endl.) Decne. is formed by about 10 species represented in Sri Lanka, India, Bangladesh, Burma, Thailand and Malesia.

REPRESENTATIVE MATERIAL. India: Central Province, Haines 3386 (K); Bombay, Herb. Dalzell s.n. (K); Mussoee, Janieson 453 (K); Concane, Law s.n. (K).

Bidaria indica Rahman & Wilcock, nom. et stat. nov.

Gymnema montanum (Roxb.) Hook. f. var. beddomei Hook. f., Fl. Brit. India 4 (1883) 32. — T y p e: India, Anamallay (Anaimalai) hills, alt. 5000 ft., Beddome 278 (K).

Petiole 1-1.5 cm long, puberulous. Leaf-blade 5-7 cm long, 1-2 cm wide, oblong-lanceolate, almost rounded at the base, slightly acuminate at the apex, tip

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obtuse, glabrous on both surfaces. Cymes pubescent, few-flowered, much shorter than leaves. Both peduncle and pedicels less than 1 cm. Bracts 4×2 mm, oblong, glabrous, margin ciliate. Calyx-lobes 5×2 mm, lanceolate, tip rounded, margin ciliate, densely pubescent externally. Corolla yellow, campanulate, outer surface covered with adpressed hairs, 5-7 mm long, the lobes about as long as the tube, ovate-oblong, tip rounded. Corona reduced, single, double ridges adnate to the corolla-tube, alternating with its lobes, the ridges not protruding beyond the mouth of the corolla-tube. Gynostegium about 2 mm long. Pollinia erect, oblong, c. 1015 μ m long and 350 μ m wide. Corpusculum about 632 μ m long and 300 μ m wide.

Distribution. Endemic in India.

Note. Hooker f. in Fl. Brit. India 4 (1883) 32 cites Beddome's specimen from Anaimalai hills as a variety of Gymnema montanum with a glabrous corolla. However, a critical examination of the type shows that the corolla is pubescent externally. Furthermore, in its generic characters it should be referred to Bidaria rather than to Gymnema. The entirely different leaves, small cymes, larger flowers and pubescent calyx and corolla are sufficiently distinctive characters to separate this taxon from Bidaria montana (= G. montanum) and it should be given specific status.

SPECIMEN EXAMINED. India: Anamallay (Anaimalai) hills, Wynand 45 (BM).

Bidaria lacei (Craib) Rahman & Wilcock, comb. nov.

Gymnema lacei Craib, Kew Bull. (1911) 191. — T y p e: Upper Burma, Katha, Kudu, June 1908, Lace 4297 (E).

Note. An examination of Craib's type shows that his species should be referred to *Bidaria* rather than *Gymnema*.

Gymnema acuminatum (Roxb.) Wall., Tent. Fl. Nepal 2 (1826) 50.

var. glabrum Rahman & Wilcock, var. nov.

Lamina 10 × 5 cm, glabra superne et infra, pubescens solum in costis, nervis et marginibus. Petiolus usque ad 1,5 cm. Cymae paucis floribus, pedunculus usque ad 1,5 cm. — T y p us: Bangladesh, Cox's Bazar Dist., Malumghat near Fashiakhali Forest Office, 20.8.1987, M.A. Rahman & M. Hossain 45 (L, holo; ABD, BM, DACB, K, iso).

Lamina 10×5 cm, glabrous on both surfaces, pubescent only on midribs, nerves and margins. Petiole up to 1.5 cm. Cymes few-flowered, peduncle up to 1.5 cm.

Distribution. Bangladesh and Burma.

Note. This new variety can easily be separated from the type variety by its glabrous leaf surfaces.

REPRESENTATIVE MATERIAL. Bangladesh: Sylhet Dist., Jaflong-Tamabil hills, 17.9.1987, M.A. Rahman & M. Hossain 55 (ABD, BM, DACB, E); Sylhet Dist., station not attached, Wall. Asclep. no. 65, not 65e (E). — Burma: Tavoy, Wall. Asclep. no. 69 (Cat. no. 8187D) (E, K-W); Moulmyne, Wall. Cat. no. 8187 E (K-W).

KEY TO THE VARIETIES OF GYMNEMA ACUMINATUM

Leaves densely tomentose beneath; lamina up to 15 cm long and 7.5 cm wide. Cymes many-flowered, compact var. acuminatum Leaves glabrous on both surfaces, pubescent only on midribs, nerves and margins; lamina up to 10 cm long and 5 cm wide. Cymes few-flowered, lax var. glabrum

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